NV



April 15, 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: First Quarter 2025 – SVE System Update Lambe 2C San Juan County, New Mexico Hilcorp Energy Company NMOCD Incident Number: NVF1836050592

To Whom it May Concern:

Ensolum, LLC (Ensolum), on behalf of Hilcorp Energy Company (Hilcorp), presents this *First Quarter 2025 – SVE System Update* report summarizing the soil vapor extraction (SVE) system performance at the Lambe 2C natural gas production well (Site), located in Unit H, Section 20, Township 31 North, and Range 10 West in San Juan County (Figure 1). Specifically, this report summarizes Site activities performed in January, February, and March of 2025 to the New Mexico Oil Conservation Division (NMOCD).

SVE SYSTEM SPECIFICATIONS

The current SVE system was installed at the Site in September 2021, with operation beginning on September 24, 2021. The SVE system is configured so vacuum is applied to well MW01 (shown on Figure 2). SVE well MW01 is screened across the impacted soil interval from approximately 20 feet to 35 feet below ground surface (bgs). The SVE system consists of a 1-horsepower Atlantic Blower model AB-202/1 regenerative blower capable of producing 50 standard cubic feet per minute (scfm) flow and 30 inches of water column (IWC) vacuum. The layout of the SVE system and piping is shown on Figure 2.

FIRST QUARTER 2025 ACTIVITIES

During the first quarter of 2025, Ensolum and Hilcorp personnel performed bi-weekly operation and maintenance (O&M) visits to verify the system was operating as designed and to perform any required maintenance. Field notes taken during O&M visits are presented in Appendix A. During the first quarter of 2025, SVE well MW01 was operated in order to induce flow in the impacted soil zone. Between December 18, 2024 and March 31, 2025, the SVE system operated for 2,459.7 hours for a runtime efficiency of 99.5 percent (%). Appendix B presents photographs of the runtime meter for calculating the fourth quarter runtime efficiency. Table 1 presents the SVE system operational hours and calculated percentage runtime.

A first quarter 2025 vapor sample was collected on February 10, 2025, from a sample port located between the SVE piping manifold and the SVE blower, using a high vacuum air sampler. Prior to

Hilcorp Energy Company First Quarter 2025 – SVE System Update Lambe 2C

ENSOLUM

collection, the vapor sample was field screened with a photoionization detector (PID) for organic vapor monitoring (OVM). The vapor sample was collected directly into two 1-Liter Tedlar[®] bags and submitted to Eurofins Environment Testing in Albuquerque, New Mexico for analysis of total volatile petroleum hydrocarbons (TVPH – also known as total petroleum hydrocarbons – gasoline range organics (TPH-GRO)) following United States Environmental Protection Agency (EPA) Method 8015D, volatile organic compounds (VOCs) following EPA Method 8260B, and fixed gas analysis of oxygen and carbon dioxide following Gas Processors Association (GPA) Method 2261. Table 2 presents a summary of analytical data collected during this sampling event and historical sampling events, with the full laboratory analytical report included in Appendix C.

Vapor sample data and measured stack flow rates are used to estimate total mass recovered and total emissions generated by the SVE system (Table 3). Based on these estimates, 545 pounds of TVPH have been removed by the system to date.

RECOMMENDATIONS

Based on the remediation timeline presented in the *Update Report and Updated Remediation Workplan*, prepared by WSP USA, Inc., dated September 30, 2021, soil sampling activities were performed on September 22 and 23, 2023 using a sonic drill rig. Soil sampling activities and analytical results were initially summarized in the Ensolum report titled *Closure Request with Variance* and submitted to the NMOCD on November 22, 2023. A revised *Closure Request with Variance* was submitted to the NMOCD on June 13, 2024. Additional drilling and confirmation sampling work was conducted on December 9, 2024, and results were submitted in the *Remediation Completion Report and Closure Request* dated January 16, 2025, which was approved by the NMOCD without condition on April 11, 2025. The SVE system will be shut down, the associated extraction wells will be properly plugged and abandoned, and the equipment will be removed from the Site in the second quarter of 2025.

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

Sincerely, Ensolum, LLC

Stuart Hyde, LG (licensed in WA & TX) Senior Managing Geologist (970) 903-1607 shyde@ensolum.com

Daniel R. Moir, PG (licensed in WY & TX) Senior Managing Geologist (303) 887-2946 dmoir@ensolum.com

Attachments:

Figure 1Site LocationFigure 2As Built Diagram

Hilcorp Energy Company First Quarter 2025 – SVE System Update Lambe 2C

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- Table 1Soil Vapor Extraction System Runtime CalculationsTable 2Soil Vapor Extraction System Emissions Analytical ResultsTable 3Soil Vapor Extraction System Mass Removal and Emissions
- Appendix A Field Notes
- Appendix B Project Photographs
- Appendix C Laboratory Analytical Reports



Figures

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Tables

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TABLE 1 SOIL VAPOR EXTRACTION SYSTEM RUNTIME CALCULATIONS Lambe 2C Hilcorp Energy Company San Juan County, New Mexico

Date	Total Operational Hours	Delta Hours	Days	Percent Runtime
12/18/2024	18,810.1			
3/31/2025	21,269.8	2,459.7	103.0	99.5%

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TABLE 2 SOIL VAPOR EXTRACTION SYSTEM EMISSIONS ANALYTICAL RESULTS Lambe 2C Hilcorp Energy Company San Juan County, New Mexico								
Date	PID (ppm)	Benzene (µg/L)	Toluene (μg/L)	Ethylbenzene (μg/L)	Total Xylenes (µg/L)	TVPH/GRO (µg/L)	Oxygen (%)	Carbon Dioxide (%)
9/25/2019 ⁽¹⁾	782	6.1	42	<5.0	56			
10/14/2019 ⁽¹⁾	431	7.3	26	2.6	36	3,600		
9/17/2021 ⁽²⁾	78	<0.10	<0.10	<0.10	1.1	660		
9/24/2021	97	<0.20	0.9	<0.20	4.3	880		
12/2/2021	92	<0.20	2.3	0.6	6.5	300	22.10	0.288
3/15/2022	42	<0.1	<0.10	<0.10	0.5	41	22.10	0.249
6/16/2022	25	<0.10	0.51	0.14	1.4	110	21.57	0.28
9/28/2022 ⁽³⁾	122	<0.10	<0.10	<0.10	<0.15	43	21.47	0.41
12/12/2022 ⁽³⁾	16.9	0.72	8.2	0.51	6.5	170	21.68	0.30
3/9/2023	20.8	0.21	4.1	0.47	<0.10	140	21.64	0.26
6/22/2023	48.3	0.37	4.1	0.29	5.4	120	21.10	0.30
8/23/2023	38.6	0.21	3.1	0.30	4.7	75	21.30	0.53
11/27/2023	23.8	<0.10	1.6	0.16	2.5	51	21.50	0.34
3/5/2024	40.6	0.69	9.9	0.91	11	130	22.31	0.24
6/13/2024	30.1	0.35	4.2	0.34	4.4	57	21.67	0.25
9/18/2024	18.6	2.4	1.1	18	25	61	21.82	0.35
11/26/2024	2.1	<0.10	0.12	<0.10	0.18	7.4	21.45	0.05
2/10/2025	51.2	0.11	2.0	0.18	2.7	48.0	21.68	0.22

Notes:

(1): sample collected during a Venturi event

(2): sample collected during pilot testing of the SVE system

(3): PID measurement collected during operation and maintenance visits on 9/21/2022 and 12/10/2022

GRO: gasoline range organics

µg/L: microgram per liter

PID: photoionization detector

ppm: parts per million

TVPH: total volatile petroleum hydrocarbons

%: percent

--: not sampled

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

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E N S O L U M

TABLE 3
SOIL VAPOR EXTRACTION SYSTEM MASS REMOVAL AND EMISSIONS
Lambe 2C
Hilcorp Energy Company
San Juan County New Mexico

Date	PID (ppm)	Benzene (μg/L)	Toluene (μg/L)	Ethylbenzene (µg/L)	Total Xylenes (μg/L)	TVPH (μg/L)
9/24/2021	97	0.20	0.94	0.20	4.3	880
12/2/2021	92	0.20	2.3	0.59	6.5	300
3/15/2022	42	0.10	0.10	0.10	0.48	41
6/16/2022	25	0.10	0.51	0.14	1.4	110
9/28/2022 (1)	122	0.10	0.10	0.10	0.15	43
12/12/2022 (2)	16.9	0.72	8.2	0.51	6.5	170
3/9/2023	20.8	0.21	4.1	0.47	0.10	140
6/22/2023	48.3	0.37	4.1	0.29	5.4	120
8/23/2023	38.6	0.21	3.1	0.30	4.7	75
11/27/2023	23.8	0.10	1.6	0.16	2.5	51
3/5/2024	40.6	0.69	9.9	0.91	11.0	130
6/13/2024	30.1	0.35	4.2	0.34	4.4	57
9/18/2024	18.6	2.4	1.1	18	25	61
11/26/2024	2.1	0.10	0.12	0.10	0.18	7
2/10/2025	51.2	0.11	2.0	0.18	2.7	48
Average	45	0.40	2.8	1.5	5.0	149

Vapor Extraction Summary								
Date	Flow Rate (cfm)	Total System Flow (cf)	Delta Flow (cf)	Benzene (Ib/hr)	Toluene (lb/hr)	Ethylbenzene (lb/hr)	Total Xylenes (lb/hr)	TVPH (lb/hr)
9/24/2021	51	4,590	4,590	0.000038	0.00018	0.000038	0.00082	0.17
12/2/2021	40	3,811,470	3,806,880	0.000030	0.00024	0.000059	0.00081	0.088
3/15/2022	40	9,329,550	5,518,080	0.000022	0.00018	0.000052	0.00052	0.026
6/16/2022	42	14,899,002	5,569,452	0.000016	0.000048	0.000019	0.00015	0.012
9/28/2022 (1)	44	20,888,106	5,989,104	0.000016	0.000050	0.000020	0.00013	0.013
12/10/2022 (2)	44	25,438,938	4,550,832	0.000067	0.00068	0.000050	0.00055	0.018
3/9/2023	43	30,543,984	5,105,046	0.000075	0.00099	0.000079	0.00053	0.025
6/22/2023	44	37,073,496	6,529,512	0.000048	0.00067	0.000063	0.00045	0.021
8/23/2023	46	40,215,535	3,142,039	0.000050	0.00062	0.000051	0.00087	0.017
11/27/2023	47	46,701,986	6,486,451	0.000027	0.00041	0.000040	0.00063	0.011
3/5/2024	45	53,835,926	7,133,940	0.000066	0.00097	0.000090	0.0011	0.015
6/13/2024	45	59,394,416	5,558,490	0.000088	0.0012	0.00011	0.0013	0.016
9/18/2024	46	65,784,424	6,390,007	0.00024	0.00046	0.0016	0.0025	0.010
11/26/2024	50	70,750,354	4,965,930	0.00023	0.00011	0.0017	0.0024	0.006
2/10/2025	43	75,408,028	4,657,674	0.00002	0.00017	0.0000	0.0002	0.004
			Average	0.000069	0.00046	0.00026	0.00087	0.030

Mass Recovery

Date	Total Operational Hours ⁽³⁾	Delta Hours	Benzene (pounds)	Toluene (pounds)	Ethylbenzene (pounds)	Total Xylenes (pounds)	TVPH (pounds)	TVPH (tons)
9/24/2021	1.5	1.5	0.000057	0.00027	0.000057	0.0012	0.25	0.00013
12/2/2021	1,588	1,586	0.047	0.38	0.094	1.3	140	0.070
3/15/2022	3,887	2,299	0.052	0.41	0.12	1.2	59	0.029
6/16/2022	6,097	2,210	0.035	0.11	0.042	0.33	26	0.013
9/21/2022 (1)	8,366	2,269	0.037	0.11	0.045	0.29	29	0.014
12/10/2022 ⁽²⁾	10,089	1,724	0.12	1.2	0.087	0.94	30	0.015
3/9/2023	12,068	1,979	0.15	2.0	0.16	1.1	49	0.025
6/22/2023	14,541	2,473	0.12	1.7	0.15	1.1	53	0.026
8/23/2023	15,680	1,138	0.057	0.71	0.058	1.0	19	0.010
11/27/2023	17,980	2,300	0.063	0.95	0.093	1.5	25	0.013
3/5/2024	20,622	2,642	0.18	2.6	0.24	3.0	40	0.020
6/13/2024	22,681	2,059	0.18	2.4	0.22	2.7	32	0.016
9/18/2024	24,996	2,315	0.55	1.1	3.7	5.9	24	0.012
11/26/2024	26,651	1,655	0.39	0.2	2.8	3.9	11	0.005
2/10/2025	28,457	1,805	0.03	0.3	0.0	0.4	8	0.004
	Total Ma	ss Recovery to Date	2.0	14	7.8	24	545	0.27

Notes:

(1): PID measurement, SVE system hours, and flow rates were collected during operation and maintenance visit on 9/21/2022

(2): PID measurement, SVE system hours, and flow rates were collected during operation and maintenance visit on 12/10/2022

(3): total operational hours are a summation of runtime hours collected from several blower runtime meters

cf: cubic feet

cfm: cubic feet per minute

µg/L: micrograms per liter

lb/hr: pounds per hour

--: not sampled

PID: photoionization detector

ppm: parts per million

TVPH: total volatile petroleum hydrocarbons

gray: laboratory reporting limit used for calculating emissions

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APPENDIX A

Field Notes



	SVE SYSTE	M - QUA	RTERLY	SAMPLING	3
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SAMPLE ID:

SAMPLE TIME:

OPERATING WELLS	VPH (8015), VOCs (8260), Fix		
Change in Well Operation:			
LOCATION	VACUUM (IWC)	PID HEADSPACE (PPM)	ADJUSTMENTS

COMMENTS/OTHER MAINTENANCE:



DATE: 1 - 27TIME ONSITE: O&M PERSONNEL: B Sinclair TIME OFFSITE:

SVE SYSTEM - MONTHLY O&M SVE ALARMS: KO TANK HIGH LEVEL SVE SYSTEM READING TIME Blower Hours (take photo) Inlet Vacuum (IWC) K/O Tank Vacuum (IWC) Inlet Flow Rotameter (scfm) Inlet PID 4 6 Exhaust PID K/O Tank Liquid Level K/O Liquid Drained (gallons) Clean/Dry Air Filter (check)

	SVE SYSTEM - QUARTERLY SAMPLING	The second second
SAMPLE ID:	SAMPLE TIME:	
Analytes: TVPH (8015), VOCs	8260), Fixed Gas (CO/CO2/O2)	
OPERATING WELLS	a fait to also see a second of the second	and the second

ge in Well Operation:				
LOCATION	VACUUM (IWC)	PID HEADSPACE (PPM)	ADJUSTMENTS	7
SVE01	2.86	69.0		

COMMENTS/OTHER MAINTENANCE:



DATE: <u>Z-10</u> TIME ONSITE:

O&M PERSONNEL: TIME OFFSITE:

Sincleir

SVE SYSTEM - MONTHLY O&M

SVE ALARMS:

KO TANK HIGH LEVEL

SVE SYSTEM	READING	TIME
Blower Hours (take photo)	20091 12	1240
Inlet Vacuum (IWC)		8721
K/O Tank Vacuum (IWC)		
Inlet Flow Rotameter (scfm)	43	
Inlet PID	51.2	
Exhaust PID	1,9	
K/O Tank Liquid Level	and the second second second second	
K/O Liquid Drained (gallons)		
Clean/Dry Air Filter (check)	A strange the strange of the start of the	

SAMPLE ID: Analytes:	SVE. TVPH (8015), VOCs (8260), Fi	SAMPLE TIME:	1745
OPERATING WELLS		2. CO/CO2/O2)	
Change in Well Operation:			
LOCATION	VACUUM (IWC)	PID HEADSPACE (PPM)	ADJUSTMENTS
		A.A.	

COMMENTS/OTHER MAINTENANCE:

DATE: 2-26 TIME ONSITE:

O&M PERSONNEL: <u>B Sinclair</u> TIME OFFSITE:

	the second se		
SVE	SYSTEM -	MONTHLY O&M	

SVE ALARMS:	
	all allowing

KO TANK HIGH LEVEL

SVE SYSTEM	READING	TIME
Blower Hours (take photo)	20475.84	1251
Inlet Vacuum (IWC)	19-10-1	100
K/O Tank Vacuum (IWC)	16	The second state of the second state of the
Inlet Flow Rotameter (scfm)	43	- Part - Share a share a share the state
Inlet PID	48.3	
Exhaust PID	2.2	
K/O Tank Liquid Level		
K/O Liquid Drained (gallons)		
Clean/Dry Air Filter (check)		

	SVE SYSTEM - QUARTERLY SAMPLING
SAMPLE ID:	SAMPLE TIME:
Analytes:	TVPH (8015), VOCs (8260), Fixed Gas (CO/CO2/O2)
OPERATING WELLS	
The sport house	
A DE LONGER	
Change in Well Operation:	

LOCATION	VACUUM (IWC)	PID HEADSPACE (PPM)	ADJUSTMENTS
SVE01	2.81	43.6	

COMMENTS/OTHER MAINTENANCE:

|--|--|--|--|--|--|--|

DATE: <u>3-12</u> TIME ONSITE: O&M PERSONNEL: <u>B</u> Sincloir TIME OFFSITE:

SVE SYSTEM - MONTHLY O&M

SVE ALARMS:

KO TANK HIGH LEVEL

SVE SYSTEM	READING	TIME
Blower Hours (take photo)	2081149	1477
Inlet Vacuum (IWC)	17	1.06
K/O Tank Vacuum (IWC)	17	The second s
Inlet Flow Rotameter (scfm)	43	
Inlet PID	41.7	
Exhaust PID	2.3	
K/O Tank Liquid Level		and the second s
K/O Liquid Drained (gallons)	Section of the sector	
Clean/Dry Air Filter (check)		

 SVE SYSTEM - QUARTERLY SAMPLING

 SAMPLE ID:

SAMPLE TIME:

OPERATING WELLS			and the second sec	
Change in Well Operation:				
TOCHTION	VACUUM (IWC)	PID HEADSPACE (PPM)	ADJUSTMENTS	
LOCATION		~	NUMBER OF ALL AND ALL	

COMMENTS/OTHER MAINTENANCE:



a strain and a strain

LAMBE 2C SVE SYSTEM **BIWEEKLY O&M FORM**

DATE: <u>3/31/25</u> TIME ONSITE:

O&M PERSONNEL: Acron L TIME OFFSITE:

men dir

SVE SYSTEM - MONTHLY O&M



· 1 , 1

Inlet Flow Rotameter (scfm)	<u> </u>		
Inlet PID	6.6		
Exhaust PID	2.6		
K/O Tank Liquid Level			
K/O Liquid Drained (gallons)	2/	O. MAA	
Clean/Dry Air Filter (check)	V	Rusty	
	SVE	SYSTEM - QUARTERLY SAMPLING	
	SVE		
SAMPLE ID:		SAMPLE TIME:	
Analytes:	TVPH (8015), VOCs (8260), Fix	xed Gas (CO/CO2/O2)	
OPERATING WELLS			
Change in Well Operation:			
LOCATION	VACUUM (IWC)	PID HEADSPACE (PPM)	ADJUSTMENTS
SVE01	26.1	X. 5.7	

COMMENTS/OTHER MAINTENANCE:

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APPENDIX B

Project Photographs

PROJECT PHOTOGRAPHS Lambe 2C San Juan County, New Mexico Hilcorp Energy Company

Photograph 1 Runtime meter taken on December 18, 2024 at 1:19 PM Hours = 18,810.14	DIRECTION 36.88583*N ACCURACY 4 m DATUM WGSB4 COURTS OF THE OF T
Photograph 2 Runtime meter taken on March 31, 2025 at 3:15 PM Hours = 21,269.79	ENM HOURS 12 6 9 2 6 5



APPENDIX C

Laboratory Analytical Reports

Received by OCD: 4/15/2025 9:03:35 AM



Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Mitch Killough Hilcorp Energy PO BOX 4700 Farmington, New Mexico 87499 Generated 2/28/2025 3:28:53 PM

JOB DESCRIPTION

Lambe 2C

JOB NUMBER

885-19665-1

Eurofins Albuquerque 4901 Hawkins NE Albuquerque NM 87109

See page two for job notes and contact information.

Eurofins Albuquerque

Job Notes

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

Authorization

Juhelle (parica Authorized for release by

Michelle Garcia, Project Manager michelle.garcia@et.eurofinsus.com

(505)345-3975

Generated 2/28/2025 3:28:53 PM

Laboratory Job ID: 885-19665-1

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Definitions/Glossary

Client: Hilcorp Energy Project/Site: Lambe 2C Job ID: 885-19665-1

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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

Job ID: 885-19665-1

Client: Hilcorp Energy Project: Lambe 2C

Job ID: 885-19665-1

Eurofins Albuquerque

Job Narrative 885-19665-1

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 2/11/2025 7:20 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 10.4°C.

Subcontract Work

Method Fixed Gases: This method was subcontracted to Energy Laboratories, Inc. The subcontract laboratory certification is different from that of the facility issuing the final report. The subcontract report is appended in its entirety.

Gasoline Range Organics

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

GC/MS VOA

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

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Eurofins Albuquerque

Job ID: 885-19665-1

Lab Sample ID: 885-19665-1

Matrix: Air

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Date Collected: 02/10/25 13:45 Date Received: 02/11/25 07:20 Sample Container: Tedlar Bag 1L

Client Sample ID: SVE-1

Client: Hilcorp Energy

Project/Site: Lambe 2C

Analyte		Qualifier			D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	48		5.0	ug/L			02/20/25 17:10	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	102		52 - 172		-		02/20/25 17:10	
		_						
Method: SW846 8260B - Volat						_		_
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
1,1,1,2-Tetrachloroethane	ND		0.10	ug/L			02/20/25 17:10	
1,1,1-Trichloroethane	ND		0.10	ug/L			02/20/25 17:10	
1,1,2,2-Tetrachloroethane	ND		0.20	ug/L			02/20/25 17:10	
1,1,2-Trichloroethane	ND		0.10	ug/L			02/20/25 17:10	
1,1-Dichloroethane	ND		0.10	ug/L			02/20/25 17:10	
1,1-Dichloroethene	ND		0.10	ug/L			02/20/25 17:10	
1,1-Dichloropropene	ND		0.10	ug/L			02/20/25 17:10	
1,2,3-Trichlorobenzene	ND		0.10	ug/L			02/20/25 17:10	
1,2,3-Trichloropropane	ND		0.20	ug/L			02/20/25 17:10	
1,2,4-Trichlorobenzene	ND		0.10	ug/L			02/20/25 17:10	
1,2,4-Trimethylbenzene	0.28		0.10	ug/L			02/20/25 17:10	
1,2-Dibromo-3-Chloropropane	ND		0.20	ug/L			02/20/25 17:10	
1,2-Dibromoethane (EDB)	ND		0.10	ug/L			02/20/25 17:10	
1,2-Dichlorobenzene	ND		0.10	ug/L			02/20/25 17:10	
1,2-Dichloroethane (EDC)	ND		0.10	ug/L			02/20/25 17:10	
1,2-Dichloropropane	ND		0.10	ug/L			02/20/25 17:10	
1,3,5-Trimethylbenzene	0.30		0.10	ug/L			02/20/25 17:10	
1,3-Dichlorobenzene	ND		0.10	ug/L			02/20/25 17:10	
1,3-Dichloropropane	ND		0.10	ug/L			02/20/25 17:10	
1,4-Dichlorobenzene	ND		0.10	ug/L			02/20/25 17:10	
1-Methylnaphthalene	ND		0.40	ug/L			02/20/25 17:10	
2,2-Dichloropropane	ND		0.20	ug/L			02/20/25 17:10	
2-Butanone	ND		1.0	ug/L			02/20/25 17:10	
2-Chlorotoluene	ND		0.10	ug/L			02/20/25 17:10	
2-Hexanone	ND		1.0	ug/L			02/20/25 17:10	
2-Methylnaphthalene	ND		0.40	ug/L			02/20/25 17:10	
4-Chlorotoluene	ND		0.10	ug/L			02/20/25 17:10	
1-Isopropyltoluene	ND		0.10	ug/L			02/20/25 17:10	
1-Methyl-2-pentanone	ND		1.0	ug/L			02/20/25 17:10	
Acetone	ND		1.0	ug/L			02/20/25 17:10	
Benzene	0.11		0.10	ug/L			02/20/25 17:10	
Bromobenzene	ND		0.10	ug/L			02/20/25 17:10	
Bromodichloromethane	ND		0.10	ug/L			02/20/25 17:10	
ibromochloromethane	ND		0.10	ug/L			02/20/25 17:10	
Bromoform	ND		0.10	ug/L			02/20/25 17:10	
Bromomethane	ND		0.30	ug/L			02/20/25 17:10	
Carbon disulfide	ND ND		1.0	ug/L ug/L			02/20/25 17:10	
Carbon tetrachloride	ND		0.10	-			02/20/25 17:10	
Carbon tetrachloride Chlorobenzene	ND ND		0.10 0.10	ug/L ug/L			02/20/25 17:10 02/20/25 17:10	
				ug/L				
Chloroethane Chloroform	ND		0.20	ug/L			02/20/25 17:10	

Eurofins Albuquerque

Matrix: Air

Job ID: 885-19665-1

Lab Sample ID: 885-19665-1

Client Sample ID: SVE-1

Date Collected: 02/10/25 13:45 Date Received: 02/11/25 07:20

Client: Hilcorp Energy

Project/Site: Lambe 2C

Sample Container: Tedlar Bag 1L

Analyte	Result Q	ualifier RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND	0.30	ug/L			02/20/25 17:10	1
cis-1,2-Dichloroethene	ND	0.10	ug/L			02/20/25 17:10	1
cis-1,3-Dichloropropene	ND	0.10	ug/L			02/20/25 17:10	1
Dibromomethane	ND	0.10	ug/L			02/20/25 17:10	1
Dichlorodifluoromethane	ND	0.10	ug/L			02/20/25 17:10	1
Ethylbenzene	0.18	0.10	ug/L			02/20/25 17:10	1
Hexachlorobutadiene	ND	0.10	ug/L			02/20/25 17:10	1
Isopropylbenzene	ND	0.10	ug/L			02/20/25 17:10	1
Methyl-tert-butyl Ether (MTBE)	ND	0.10	ug/L			02/20/25 17:10	1
Methylene Chloride	ND	0.30	ug/L			02/20/25 17:10	1
n-Butylbenzene	ND	0.30	ug/L			02/20/25 17:10	1
N-Propylbenzene	ND	0.10	ug/L			02/20/25 17:10	1
Naphthalene	ND	0.20	ug/L			02/20/25 17:10	1
sec-Butylbenzene	ND	0.10	ug/L			02/20/25 17:10	1
Styrene	ND	0.10	ug/L			02/20/25 17:10	1
tert-Butylbenzene	ND	0.10	ug/L			02/20/25 17:10	1
Tetrachloroethene (PCE)	ND	0.10	ug/L			02/20/25 17:10	1
Toluene	2.0	0.10	ug/L			02/20/25 17:10	1
trans-1,2-Dichloroethene	ND	0.10	ug/L			02/20/25 17:10	1
trans-1,3-Dichloropropene	ND	0.10	ug/L			02/20/25 17:10	1
Trichloroethene (TCE)	ND	0.10	ug/L			02/20/25 17:10	1
Trichlorofluoromethane	ND	0.10	ug/L			02/20/25 17:10	1
Vinyl chloride	ND	0.10	ug/L			02/20/25 17:10	1
Xylenes, Total	2.7	0.15	ug/L			02/20/25 17:10	1
Surrogate	%Recovery Q	ualifier Limits			Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101	70 - 130				02/20/25 17:10	1
Toluene-d8 (Surr)	102	70 - 130				02/20/25 17:10	1
4-Bromofluorobenzene (Surr)	102	70 - 130				02/20/25 17:10	1
Dibromofluoromethane (Surr)	102	70 - 130				02/20/25 17:10	1

Eurofins Albuquerque

Lab Sample ID: MB 885-21167/5

Matrix: Air

QC Sample Results

Client: Hilcorp Energy Project/Site: Lambe 2C

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

Analysis Batch: 21167										
	MB	MB								
Analyte	Result	Qualifier	RL		Unit	D)	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0		ug/L				02/20/25 13:52	1
	МВ	МВ								
Surrogate	%Recovery	Qualifier	Limits					Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		52 - 172						02/20/25 13:52	1
Analysis Batch: 21167									Tiop Type. I	
Lab Sample ID: LCS 885-21 Matrix: Air									Lab Control S Prep Type: T	
			Spike	LCS	LCS				%Rec	
Analyte			Added	Result	Qualifier	Unit	0	D %Rec	Limits	
Gasoline Range Organics [C6 -			500	542		ug/L		108	70 - 130	
C10]										
	LCS LCS	S								
Surrogate	%Recovery Qua	alifier	Limits							
4-Bromofluorobenzene (Surr)	103		52 - 172							

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

Lab Sample ID: MB 885-21168/4 Matrix: Air Analysis Batch: 21168

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

MB MB Result Qualifier Analyte RL Unit D Prepared Analyzed Dil Fac ND 0.10 02/20/25 13:52 1,1,1,2-Tetrachloroethane ug/L 1 1,1,1-Trichloroethane ND 0.10 ug/L 02/20/25 13:52 1 1,1,2,2-Tetrachloroethane ND 0.20 ug/L 02/20/25 13:52 1 1,1,2-Trichloroethane ND 0.10 ug/L 02/20/25 13:52 1 1,1-Dichloroethane ND 0.10 ug/L 02/20/25 13:52 1 1,1-Dichloroethene ND 0.10 ug/L 02/20/25 13:52 1 1,1-Dichloropropene ND 0.10 ug/L 02/20/25 13:52 1 ND 1,2,3-Trichlorobenzene 0.10 ug/L 02/20/25 13:52 1 1,2,3-Trichloropropane ND 0.20 ug/L 02/20/25 13:52 1 1,2,4-Trichlorobenzene ND 0 10 ug/L 02/20/25 13:52 1 02/20/25 13:52 1,2,4-Trimethylbenzene ND 0.10 ug/L 1 1,2-Dibromo-3-Chloropropane ND ug/L 0.20 02/20/25 13:52 1 1,2-Dibromoethane (EDB) ND 0.10 ug/L 02/20/25 13:52 1 1,2-Dichlorobenzene ND 0 10 ug/L 02/20/25 13:52 1 1,2-Dichloroethane (EDC) ND 0.10 ug/L 02/20/25 13:52 1 ND 0.10 1,2-Dichloropropane ug/L 02/20/25 13:52 1 1,3,5-Trimethylbenzene ND 0.10 ug/L 02/20/25 13:52 1 1,3-Dichlorobenzene ND 0.10 ug/L 02/20/25 13:52 1 1,3-Dichloropropane ND 0.10 ug/L 02/20/25 13:52 1,4-Dichlorobenzene ND 0.10 ug/L 02/20/25 13:52 1 1-Methylnaphthalene ND ug/L 02/20/25 13:52 0.40 1 0.20 2,2-Dichloropropane ND ug/L 02/20/25 13:52 1 2-Butanone ND 1.0 ug/L 02/20/25 13:52 1 2-Chlorotoluene ND 0.10 ug/L 02/20/25 13:52 1 ND 1.0 02/20/25 13:52 2-Hexanone ug/L 1

Eurofins Albuquerque

QC Sample Results

Client: Hilcorp Energy Project/Site: Lambe 2C

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

MB MB

ND

ND

Result Qualifier

Lab Sample ID: MB 885-21168/4

Matrix: Air Analysis Batch: 21168

2-Methylnaphthalene

4-Chlorotoluene

Analyte

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

RL Unit D Prepared Analyzed 0.40 ug/L 02/20/25 13:52 02/20/25 13:52 0.10 ug/L 0.10 ug/L 02/20/25 13:52

4-Bromofluorobenzene (Surr)	96		70 - 130			02/20/25 13:52	
Toluene-d8 (Surr)	96		70 - 130			02/20/25 13:52	
1,2-Dichloroethane-d4 (Surr)	$\frac{111}{111} = \frac{1}{111}$	kuaiiiitti	70 - 130		Fiepaieu	02/20/25 13:52	DIIFa
Surrogate	MB N %Recovery G		Limits		Prepared	Analyzed	Dil Fa
Xylenes, Total	ND		0.15	ug/L		02/20/25 13:52	
/inyl chloride	ND		0.10	ug/L		02/20/25 13:52	
richlorofluoromethane	ND		0.10	ug/L		02/20/25 13:52	
richloroethene (TCE)	ND		0.10	ug/L		02/20/25 13:52	
rans-1,3-Dichloropropene	ND		0.10	ug/L		02/20/25 13:52	
rans-1,2-Dichloroethene	ND		0.10	ug/L		02/20/25 13:52	
oluene	ND		0.10	ug/L		02/20/25 13:52	
etrachloroethene (PCE)	ND		0.10	ug/L		02/20/25 13:52	
ert-Butylbenzene	ND		0.10	ug/L		02/20/25 13:52	
Styrene	ND		0.10	ug/L		02/20/25 13:52	
ec-Butylbenzene	ND		0.10	ug/L		02/20/25 13:52	
Vaphthalene	ND		0.20	ug/L		02/20/25 13:52	
N-Propylbenzene	ND		0.10	ug/L		02/20/25 13:52	
n-Butylbenzene	ND		0.30	ug/L		02/20/25 13:52	
Iethylene Chloride	ND		0.30	ug/L		02/20/25 13:52	
1ethyl-tert-butyl Ether (MTBE)	ND		0.10	ug/L		02/20/25 13:52	
sopropylbenzene	ND		0.10	ug/L			
				ug/L		02/20/25 13:52	
lexachlorobutadiene	ND		0.10	ug/L		02/20/25 13:52	
thylbenzene	ND		0.10			02/20/25 13:52	
ichlorodifluoromethane	ND		0.10	ug/L		02/20/25 13:52	
)ibromomethane	ND		0.10	ug/L		02/20/25 13:52	
is-1,3-Dichloropropene	ND		0.10	ug/L ug/L		02/20/25 13:52	
is-1,2-Dichloroethene	ND		0.30	ug/L		02/20/25 13:52	
Chloromethane	ND		0.10	ug/L		02/20/25 13:52	
Chloroethane Chloroform	ND ND		0.20 0.10	ug/L		02/20/25 13:52 02/20/25 13:52	
	ND		0.10	ug/L		02/20/25 13:52	
Carbon tetrachloride	ND		0.10	ug/L		02/20/25 13:52	
Carbon disulfide	ND		1.0	ug/L		02/20/25 13:52	
Bromomethane	ND		0.30	ug/L		02/20/25 13:52	
Bromoform	ND		0.10	ug/L		02/20/25 13:52	
Dibromochloromethane	ND		0.10	ug/L		02/20/25 13:52	
Bromodichloromethane	ND		0.10	ug/L		02/20/25 13:52	
Bromobenzene	ND		0.10	ug/L		02/20/25 13:52	
Benzene	ND		0.10	ug/L		02/20/25 13:52	
Acetone	ND		1.0	ug/L		02/20/25 13:52	
1-Methyl-2-pentanone	ND		1.0	ug/L		02/20/25 13:52	
1-Isopropyltoluene	ND		0.10	ug/L		02/20/25 13:52	
			0.10	uy/L		02/20/20 10.02	

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Job ID: 885-19665-1

QC Sample Results

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

Client: Hilcorp Energy Project/Site: Lambe 2C

Job ID: 885-19665-1

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	3
Client Sample ID: Lab Control Sample Prep Type: Total/NA	4
%Rec	5

Eurofins Albuquerque

Lab Sample ID: LCS 885-21168/3 Matrix: Air Analysis Batch: 21168

			Spike	LCS	LCS				%Rec
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits
1,1-Dichloroethene			20.1	18.0		ug/L		90	70 - 130
Benzene			20.1	19.7		ug/L		98	70_130
Chlorobenzene			20.1	18.8		ug/L		94	70 - 130
Toluene			20.2	18.4		ug/L		91	70 - 130
Trichloroethene (TCE)			20.2	18.9		ug/L		94	70 - 130
	LCS	LCS							
Surrogate	%Recovery	Qualifier	Limits						
1,2-Dichloroethane-d4 (Surr)	108		70 - 130						
Toluene-d8 (Surr)	95		70_130						
4-Bromofluorobenzene (Surr)	97		70_130						
Dibromofluoromethane (Surr)	103		70 - 130						

QC Association Summary

Client: Hilcorp Energy Project/Site: Lambe 2C Job ID: 885-19665-1

GC/MS VOA

Analysis Batch: 21167

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-19665-1	SVE-1	Total/NA	Air	8015M/D	
MB 885-21167/5	Method Blank	Total/NA	Air	8015M/D	
LCS 885-21167/4	Lab Control Sample	Total/NA	Air	8015M/D	

Analysis Batch: 21168

ab Sample ID 35-19665-1	Client Sample ID SVE-1	Prep Type Total/NA	Matrix	Method 8015M/D	Prep Batch
B 885-21167/5	Method Blank	Total/NA	Air	8015M/D	
CS 885-21167/4	Lab Control Sample	Total/NA	Air	8015M/D	
alysis Batch: 21 [,]	168				
b Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
5-19665-1	SVE-1	Total/NA	Air	8260B	1
3 885-21168/4	Method Blank	Total/NA	Air	8260B	
S 885-21168/3	Lab Control Sample	Total/NA	Air	8260B	

Eurofins Albuquerque

Lab Chronicle

Client: Hilcorp Energy Project/Site: Lambe 2C Job ID: 885-19665-1

Client Sample ID: SVE-1 Date Collected: 02/10/25 13:45 Date Received: 02/11/25 07:20

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8015M/D		1	21167	СМ	EET ALB	02/20/25 17:10
Total/NA	Analysis	8260B		1	21168	СМ	EET ALB	02/20/25 17:10

Laboratory References:

= , 1120 South 27th Street, Billings, MT 59101, TEL (406)252-6325

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

Eurofins Albuquerque

Lab Sample ID: 885-19665-1 Matrix: Air 5 6 8 9 10 11 Laboratory: Eurofins Albuquerque

Accreditation/Certification Summary

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

Client: Hilcorp Energy Project/Site: Lambe 2C Job ID: 885-19665-1

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ority	Progra	am	Identification Number	Expiration Date
Mexico	State		NM9425, NM0901	02-26-25
The following analytes	s are included in this repo	rt. but the laboratory is r	ot certified by the governing authori	ity. This list may include analytes
	does not offer certification	-		
Analysis Method	Prep Method	Matrix	Analyte	
8015M/D		Air	Gasoline Range Organics	s [C6 - C10]
8260B		Air	1,1,1,2-Tetrachloroethane	9
8260B		Air	1,1,1-Trichloroethane	
8260B		Air	1,1,2,2-Tetrachloroethane	9
8260B		Air	1,1,2-Trichloroethane	
8260B		Air	1,1-Dichloroethane	
8260B		Air	1,1-Dichloroethene	
8260B		Air	1,1-Dichloropropene	
8260B		Air	1,2,3-Trichlorobenzene	
8260B		Air	1,2,3-Trichloropropane	
8260B		Air	1,2,4-Trichlorobenzene	
8260B		Air	1,2,4-Trimethylbenzene	
8260B		Air	1,2-Dibromo-3-Chloropro	pane
8260B		Air	1,2-Dibromoethane (EDB	3)
8260B		Air	1,2-Dichlorobenzene	
8260B		Air	1,2-Dichloroethane (EDC	·)
8260B		Air	1,2-Dichloropropane	
8260B		Air	1,3,5-Trimethylbenzene	
8260B		Air	1,3-Dichlorobenzene	
8260B		Air	1,3-Dichloropropane	
8260B		Air	1,4-Dichlorobenzene	
8260B		Air	1-Methylnaphthalene	
8260B		Air	2,2-Dichloropropane	
8260B		Air	2-Butanone	
8260B		Air	2-Chlorotoluene	
8260B		Air	2-Hexanone	
8260B		Air	2-Methylnaphthalene	
8260B		Air	4-Chlorotoluene	
8260B		Air	4-Isopropyltoluene	
8260B		Air	4-Methyl-2-pentanone	
8260B		Air	Acetone	
8260B		Air	Benzene	
8260B		Air	Bromobenzene	
8260B		Air	Bromodichloromethane	
8260B		Air	Bromoform	
8260B		Air	Bromomethane	
8260B		Air	Carbon disulfide	
8260B		Air	Carbon tetrachloride	
8260B		Air	Chlorobenzene	
8260B		Air	Chloroethane	
8260B		Air	Chloroform	
8260B		Air	Chloromethane	
8260B		Air	cis-1,2-Dichloroethene	
8260B		Air	cis-1,3-Dichloropropene	
8260B		Air	Dibromochloromethane	

Accreditation/Certification Summary

Client: Hilcorp Energy Project/Site: Lambe 2C

Laboratory: Eurofins Albuquerque (Continued)

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

ority	Progra	am	Identification Number Expiration	Date
0,	are included in this repo loes not offer certification		ot certified by the governing authority. This list n	nay include analytes
Analysis Method	Prep Method	Matrix	Analyte	
8260B		Air	Dibromomethane	
8260B		Air	Dichlorodifluoromethane	
8260B		Air	Ethylbenzene	
8260B		Air	Hexachlorobutadiene	
8260B		Air	Isopropylbenzene	
8260B		Air	Methylene Chloride	
8260B		Air	Methyl-tert-butyl Ether (MTBE)	
8260B		Air	Naphthalene	
8260B		Air	n-Butylbenzene	
8260B		Air	N-Propylbenzene	
8260B		Air	sec-Butylbenzene	
8260B		Air	Styrene	
8260B		Air	tert-Butylbenzene	
8260B		Air	Tetrachloroethene (PCE)	
8260B		Air	Toluene	
8260B		Air	trans-1,2-Dichloroethene	
8260B		Air	trans-1,3-Dichloropropene	
8260B		Air	Trichloroethene (TCE)	
8260B		Air	Trichlorofluoromethane	
8260B		Air	Vinyl chloride	
8260B		Air	Xylenes, Total	
n	NELAF	D	NM100001 02-25-25	

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
8015M/D		Air	Gasoline Range Organics [C6 - C10]
8260B		Air	1,1,1,2-Tetrachloroethane
8260B		Air	1,1,1-Trichloroethane
8260B		Air	1,1,2,2-Tetrachloroethane
8260B		Air	1,1,2-Trichloroethane
8260B		Air	1,1-Dichloroethane
8260B		Air	1,1-Dichloroethene
8260B		Air	1,1-Dichloropropene
8260B		Air	1,2,3-Trichlorobenzene
8260B		Air	1,2,3-Trichloropropane
8260B		Air	1,2,4-Trichlorobenzene
8260B		Air	1,2,4-Trimethylbenzene
8260B		Air	1,2-Dibromo-3-Chloropropane
8260B		Air	1,2-Dibromoethane (EDB)
8260B		Air	1,2-Dichlorobenzene
8260B		Air	1,2-Dichloroethane (EDC)
8260B		Air	1,2-Dichloropropane
8260B		Air	1,3,5-Trimethylbenzene
8260B		Air	1,3-Dichlorobenzene
8260B		Air	1,3-Dichloropropane
8260B		Air	1,4-Dichlorobenzene

Job ID: 885-19665-1

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Eurofins Albuquerque

Accreditation/Certification Summary

Client: Hilcorp Energy Project/Site: Lambe 2C

Laboratory: Eurofins Albuquerque (Continued)

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

ority	Progr	am	Identification Number Expiration Date	
	s are included in this repo does not offer certificatior	-	not certified by the governing authority. This list may include analytes	
Analysis Method	Prep Method	 Matrix	Analyte	
8260B		Air	1-Methylnaphthalene	
8260B		Air	2,2-Dichloropropane	
8260B		Air	2-Butanone	
8260B		Air	2-Chlorotoluene	
8260B		Air	2-Hexanone	
8260B		Air	2-Methylnaphthalene	
8260B		Air	4-Chlorotoluene	
8260B		Air	4-Isopropyltoluene	
8260B		Air	4-Methyl-2-pentanone	
8260B		Air	Acetone	
8260B		Air	Benzene	
8260B		Air	Bromobenzene	
8260B		Air	Bromodichloromethane	
8260B		Air	Bromoform	
8260B		Air	Bromomethane	
8260B		Air	Carbon disulfide	
8260B		Air	Carbon tetrachloride	
8260B		Air	Chlorobenzene	
8260B		Air	Chloroethane	
8260B		Air	Chloroform	
8260B		Air	Chloromethane	
8260B		Air	cis-1,2-Dichloroethene	
8260B		Air	cis-1,3-Dichloropropene	
8260B		Air	Dibromochloromethane	
8260B		Air	Dibromomethane	
8260B		Air	Dichlorodifluoromethane	
8260B		Air	Ethylbenzene	
8260B		Air	Hexachlorobutadiene	
8260B		Air	Isopropylbenzene	
8260B		Air	Methylene Chloride	
8260B		Air	Methyl-tert-butyl Ether (MTBE)	
8260B		Air	Naphthalene	
8260B		Air	n-Butylbenzene	
8260B		Air	N-Propylbenzene	
8260B		Air	sec-Butylbenzene	
8260B		Air	Styrene	
8260B		Air	tert-Butylbenzene	
8260B		Air	Tetrachloroethene (PCE)	
8260B		Air	Toluene	
8260B		Air	trans-1.2-Dichloroethene	
8260B		Air	trans-1,3-Dichloropropene	
8260B		Air	Trichloroethene (TCE)	
8260B		Air	Trichlorofluoromethane	
		Air	Vinyl chloride	
8260B				

5 6

9

Job ID: 885-19665-1



ANALYTICAL SUMMARY REPORT

February 13, 2025

Eurofins TestAmerica - Albuquerque 4901 Hawkins St NE Ste D Albuquerque, NM 87109-4372

Work Order: B25020579 Quote ID: B15626

Project Name: Lambe 2C - 88501698

Energy Laboratories Inc Billings MT received the following 1 sample for Eurofins TestAmerica - Albuquerque on 2/12/2025 for analysis.

Lab ID	Client Sample ID	Collect Date Receive Date	Matri x	Test
B25020579-001	SVE-1 (885-19665-1)	02/10/25 13:45 02/12/25	Air	Air Correction Calculations Appearance and Comments Calculated Properties GPM @ std cond,/1000 cu. ft., moist. Free Natural Gas Analysis Specific Gravity @ 60/60

The analyses presented in this report were performed by Energy Laboratories, Inc., 1120 So. 27th Street, Billings, MT 59101, unless otherwise noted. Any exceptions or problems with the analyses are noted in the report package. Any issues encountered during sample receipt are documented in the Work Order Receipt Checklist.

The results as reported relate only to the item(s) submitted for testing. This report shall be used or copied only in its entirety. Energy Laboratories, Inc. is not responsible for the consequences arising from the use of a partial report.

Energy Laboratories, Inc. verifies the reported results for the analysis has been technically reviewed and approved for release.

If you have any questions regarding these test results, please contact your Project Manager.



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LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client:	Eurofins TestAmerica - Albuquerque
Project:	Lambe 2C - 88501698
Lab ID:	B25020579-001
Client Sample ID:	SVE-1 (885-19665-1)

 Report Date:
 02/13/25

 Collection Date:
 02/10/25 13:45

 DateReceived:
 02/12/25

 Matrix:
 Air

.....

					MCL/		
Analyses	Result	Units	Qualifiers	RL	QCL	Method	Analysis Date / By
GAS CHROMATOGRAPHY ANALYSIS	REPORT						
Dxygen	21.68	Mol %		0.01		GPA 2261-13	02/13/25 10:05 / jrj
Nitrogen	78.10	Mol %		0.01		GPA 2261-13	02/13/25 10:05 / jrj
Carbon Dioxide	0.22	Mol %		0.01		GPA 2261-13	02/13/25 10:05 / jrj
lydrogen Sulfide	<0.01	Mol %		0.01		GPA 2261-13	02/13/25 10:05 / jrj
<i>l</i> ethane	<0.01	Mol %		0.01		GPA 2261-13	02/13/25 10:05 / jrj
thane	<0.01	Mol %		0.01		GPA 2261-13	02/13/25 10:05 / jrj
ropane	<0.01	Mol %		0.01		GPA 2261-13	02/13/25 10:05 / jrj
obutane	<0.01	Mol %		0.01		GPA 2261-13	02/13/25 10:05 / jrj
-Butane	<0.01	Mol %		0.01		GPA 2261-13	02/13/25 10:05 / jrj
opentane	<0.01	Mol %		0.01		GPA 2261-13	02/13/25 10:05 / jrj
-Pentane	<0.01	Mol %		0.01		GPA 2261-13	02/13/25 10:05 / jrj
exanes plus	<0.01	Mol %		0.01		GPA 2261-13	02/13/25 10:05 / jrj
ropane	< 0.001	gpm		0.001		GPA 2261-13	02/13/25 10:05 / jrj
obutane	< 0.001	gpm		0.001		GPA 2261-13	02/13/25 10:05 / jrj
Butane	< 0.001	gpm		0.001		GPA 2261-13	02/13/25 10:05 / jrj
opentane	< 0.001	gpm		0.001		GPA 2261-13	02/13/25 10:05 / jrj
-Pentane	< 0.001	gpm		0.001		GPA 2261-13	02/13/25 10:05 / jrj
exanes plus	< 0.001	gpm		0.001		GPA 2261-13	02/13/25 10:05 / jrj
PM Total	< 0.001	gpm		0.001		GPA 2261-13	02/13/25 10:05 / jrj
PM Pentanes plus	< 0.001	gpm		0.001		GPA 2261-13	02/13/25 10:05 / jrj
ALCULATED PROPERTIES							
Gross BTU per cu ft @ Std Cond. (HHV)	ND			1		GPA 2261-13	02/13/25 10:05 / jrj
et BTU per cu ft @ std cond. (LHV)	ND			1		GPA 2261-13	02/13/25 10:05 / jrj
seudo-critical Pressure, psia	546			1		GPA 2261-13	02/13/25 10:05 / jrj
seudo-critical Temperature, deg R	239			1		GPA 2261-13	02/13/25 10:05 / jrj
pecific Gravity @ 60/60F	0.999			0.001		D3588-81	02/13/25 10:05 / jrj
ir, % - The analysis was not corrected for air.	99.04			0.01		GPA 2261-13	02/13/25 10:05 / jrj

COMMENTS

02/13/25 10:05 / jrj

- BTU, GPM, and specific gravity are corrected for deviation from ideal gas behavior.

- GPM = gallons of liquid at standard conditions per 1000 cu. ft. of moisture free gas @ standard conditions.

- To convert BTU to a water-saturated basis @ standard conditions, multiply by 0.9825.

- Standard conditions: 60 F & 14.73 psi on a dry basis.

Report Definitions: RL - Analyte Reporting Limit QCL - Quality Control Limit



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QA/QC Summary Report

Prepared by Billings, MT Branch

Work Order: B25020579

Report Date: 02/13/25

WORKC	Didel: B25020579							керс	Date:	. 02/13/25	
Analyte		Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method:	GPA 2261-13									Batch	R436824
Lab ID:	B25020581-001ADUP	• 12 Sam	ple Duplic	ate			Run: GC78	90_250213A		02/13	25 12:46
Oxygen			21.3	Mol %	0.01				0.7	20	
Nitrogen			78.5	Mol %	0.01				0.2	20	
Carbon D	ioxide		0.18	Mol %	0.01				0.0	20	
Hydrogen	Sulfide		<0.01	Mol %	0.01					20	
Methane			<0.01	Mol %	0.01					20	
Ethane			<0.01	Mol %	0.01					20	
Propane			<0.01	Mol %	0.01					20	
Isobutane	9		<0.01	Mol %	0.01					20	
n-Butane			<0.01	Mol %	0.01					20	
Isopentan	ie		<0.01	Mol %	0.01					20	
n-Pentane	е		<0.01	Mol %	0.01					20	
Hexanes	plus		<0.01	Mol %	0.01					20	
.ab ID:	LCS021325	11 Labo	oratory Co	ntrol Sample			Run: GC78	90_250213A		02/13	25 14:25
Oxygen			0.64	Mol %	0.01	128	70	130			
Nitrogen			6.22	Mol %	0.01	104	70	130			
Carbon D	ioxide		0.99	Mol %	0.01	100	70	130			
Methane			74.5	Mol %	0.01	100	70	130			
Ethane			6.06	Mol %	0.01	101	70	130			
Propane			5.04	Mol %	0.01	102	70	130			
Isobutane	9		1.76	Mol %	0.01	88	70	130			
n-Butane			2.00	Mol %	0.01	100	70	130			
Isopentan	ie		0.99	Mol %	0.01	99	70	130			
n-Pentane	e		1.00	Mol %	0.01	100	70	130			
Hexanes	plus		0.79	Mol %	0.01	99	70	130			



ENERGY

Work	Order	Receipt	Checklist

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Eurofins TestAmerica - Albuquerque

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B25020579

Login completed by:	Kyelie L. Pflock		Date F	Received: 2/12/2025
Reviewed by:	gmccartney		Rec	eived by: LEL
Reviewed Date:	2/13/2025		Carr	ier name: FedEx NDA
Shipping container/cooler in g	good condition?	Yes 🗸	No 🗌	Not Present
Custody seals intact on all sh	ipping container(s)/cooler(s)?	Yes 🗹	No 🗌	Not Present
Custody seals intact on all sa	mple bottles?	Yes	No 🗌	Not Present 🗹
Chain of custody present?		Yes 🗹	No 🗌	
Chain of custody signed whe	n relinquished and received?	Yes 🗹	No 🗌	
Chain of custody agrees with	sample labels?	Yes 🗹	No 🗌	
Samples in proper container/	bottle?	Yes 🗹	No 🗌	
Sample containers intact?		Yes 🗹	No 🗌	
Sufficient sample volume for	indicated test?	Yes 🗹	No 🗌	
All samples received within h (Exclude analyses that are co such as pH, DO, Res CI, Sul	onsidered field parameters	Yes 🗸	No 🗌	
Temp Blank received in all sh	ipping container(s)/cooler(s)?	Yes	No 🗹	Not Applicable
Container/Temp Blank tempe	rature:	3.6°C No Ice		
Containers requiring zero hea bubble that is <6mm (1/4").	adspace have no headspace or	Yes	No 🗌	No VOA vials submitted
Water - pH acceptable upon	receipt?	Yes	No 🗌	Not Applicable 🗹

Standard Reporting Procedures:

Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH, Dissolved Oxygen and Residual Chlorine, are qualified as being analyzed outside of recommended holding time.

Solid/soil samples are reported on a wet weight basis (as received) unless specifically indicated. If moisture corrected, data units are typically noted as –dry. For agricultural and mining soil parameters/characteristics, all samples are dried and ground prior to sample analysis.

The reference date for Radon analysis is the sample collection date. The reference date for all other Radiochemical analyses is the analysis date. Radiochemical precision results represent a 2-sigma Total Measurement Uncertainty.

For methods that require zero headspace or require preservation check at the time of analysis due to potential interference, the pH is verified at analysis. Nonconforming sample pH is documented as part of the analysis and included in the sample analysis comments.

Trip Blanks and/or Blind Duplicate samples are assigned the earliest collection time for the associated requested analysis in order to evaluate the holding time unless specifically indicated.

Contact and Corrective Action Comments:

None



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Laboratory Certifications and Accreditations

	Agency	Number
	Alaska	17-023
	California	3087
	Colorado	MT00005
	Department of Defense (DoD)/ISO17025	ADE-2588
Billings, MT	Florida (Primary NELAP)	E87668
	Idaho	MT00005
d	Louisiana	05079
ANAB	Montana	CERT0044
ANSI National Accimination Unione	Nebraska	NE-OS-13-04
TESTING LABORATORY	Nevada	NV-C24-00250
ANCON	North Dakota	R-007
	National Radon Proficiency	109383-RMP
TPU	Oregon	4184
ADRATOR .	South Dakota	ARSD 74:04:07
	Texas	TX-C24-00302
	US EPA Region VIII	Reciprocal
	USDA Soil Permit	P330-20-00170
	Washington	C1039
	Alaska	20-006
	California	3021
	Colorado	WY00002
	Florida (Primary NELAP)	E87641
	Idaho	WY00002
	Louisiana	05083
Casper, WY	Montana	CERT0002
ALCOROLA	Nebraska	NE-OS-08-04
1	Nevada	NV-C24-00245
ARORITOR"	North Dakota	R-125
	Oregon	WY200001
	South Dakota	WY00002
	Texas	T104704181-23-21
	US EPA Region VIII	WY00002
	USNRC License	49-26846-01
	Washington	C1012
Gillette, WY	US EPA Region VIII	WY00006
	Colorado	MT00945
Helena, MT	Montana	CERT0079
Arrahas 200 - Karra	Nevada	NV-C24-00119
	US EPA Region VIII	Reciprocal
	USDA Soil Permit	P330-20-00090

Current certificates are available at www.energylab.com website:

Client Information (Sub Contract Lab)	Sampler. N/A		Carcia Garcia	Lab PM: Garcia. Michelle	Carrier Tracking No(s) N/A	cking No(s):	COC No: 886 3867 1	
	Phone: N/A		E-Mail: miche	E-Mail: michelle.garcia@ef.eurofinsus.com	State of Origin: New Mexico	igin: irco	Page:	
Company: Energy Laboratories, Inc.				Vccreditations Required (See note) VELAP - Oregon: State - Ne				
Address: 1120 South 27th Street,	Due Date Requested: 2/18/2025			Anal	Analysis Reduceded		Preservation Codes:	:56
City: Billings State, Zip:	TAT Requested (days):	N/A						
Mr., 09101 Phone: 406-252-6325(Tel)	PO#		e					
Email:	W/A			(0)				
Project Name: Lambe 2C	Project #: 88501698			l 10 se			alner	
Site: N/A	SSOW#: N/A) as			of cont	
	-	c)	Matrix (W=water, S=solid, O=waste/oll,	tiorm MS/M moments from MS/M moments B (Fixed Gase			al Number of	
sample identification - cilent ID (Lab ID)	Sample Date	Time G=grab)	BT=Tissue, Andr)	N be				Special Instructions/Note:
SVE-1 (885-19665-1)	710/2E 13	13:45	Air Air	,				etione
		Mountain					1220209/H	N 60205
		-						
Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central. LC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory accreditation in the State of Orgin listed above for analysts/stest/matrix being analyzes, the sample a back to the Eurofins Environment Testing South Central. LC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Orgin listed above for analysts/stest/matrix being analyzes, the sample a back to the Eurofins Environment Testing South Central. LC andratic the sample shipment accreditation is a super device the accreditation is a super device and the state of the sample shipment to Eurofins Environment Testing South Central. LC andratic structures support Central. LC andratic structures and succeditation are current to date, return the sappred Chain of Calon the structures and social structure support of the structures and succeditation is a support of the structures and succeditation states should be brought to Eurofins Environment Testing South Central. LL and the structure support of the structure structures and succeditation states and the provide of the structure structure structure structures and structure structures are structures and structures are structured as a structures and structures are structure	Information in the second of t	C places the own to being analyzed, tely. If all reques	ership of method, analy the samples must be s ted accreditations are	Are & accreditation compliance upc hipped back to the Eurofins Enviro current to date, return the signed C	n our subcontract laborate mment Testing South Cen hain of Custody attesting	ories. This sample st trtal, LLC laboratory c to said compliance to	ipment is forwarded under ch in other instructions will be pro b Eurofins Environment Testin	hain-of-custody. If ovided. Any chan
Possible Hazard Identification				Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)	may be assessed if	samples are ret	ained longer than 1 mg	onth)
Unconfirmed				Return To Client	Disposal By Lab	Lab DA	Archive For	Months
Deliverable Requested: I, II, III, IV, Other (specify)	Primary Deliverable Rank: 2	ank: 2		Special Instructions/QC Requirements:	aquirements:			
Empty Kit Relinquished by:	Date:		Ŧ	Time:	Method	Method of Shipment:		
Keinquished by:	Date/Tine: 2/11/25	13:32	Company	Received by:		Date/Time:	J	Company
	Date/Time:		Company	Received by:		Date/Time:	U	Company
E	Date/Time:		Company	Received by: A	har	Datefling	D.S.C.	Company
Custody Seals Intact: Custody Seal No.: A Yes A No		1		Cooler Temperature(s) °C and Other Remarks:	nd Other Remarks:			2

SUB (Fixed Gases)/ Fixed Gases	SUBCONTRACT	
Method Description	Method	Sample IDs
tions	Method Instruc	ocontrac
	ledlar Bag 1L	
	Container Type	Count
		Containers
		885-3857
		ICOC No:
	tions Method Description SUB (Fixed Gases)/ Fixed Gases	er Type ag 1L d Instruct

Page 42 of 45

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Received by OCD	: 4/15/20 <mark>25</mark>	9:03:35 AM			 	Page 43 of
	4901 Hawkins NE - Albuquerque, NM 87109 885-19665 coc Tel. 505-345-3975 Fax 505-345-4107 Analysis Request	1082 PCB's B270SIMS B270SIMS PL1) PL1) PL2, PO4, SO4 PL1) PL2 PL2 PL2 PL2 PL2 PL2 PL2 PL2 PL2 PL2	8/841 Pesticides/8 EDB (Method 504 PPHs by 8310 or 8 RCRA 8 Metals CI, F, Br, NO ₃ , <i>N</i> 8260 (VOA) 8260 (VOA) 8270 (Semi-VOA) Total Coliform (Pre 7015 TVP 7025 TVP			Ks:
	¥ ⊢		ВТЕХ / МТВЕ / 1 ТРН:8015D(GRO /			Remarks
Turn-Around Time: X Standard Rush Project Name:	Lombe ZC Project #:	Manager: L K://ougL : Brandon Sinda ir	Yes <u>日</u> No I <u>Y 6 4 (</u> ding cF): / 0. しっつご/0. ((°C) eservative HEAL No. pe			Date Time w 2/10/25 1/423 Date Time 2 2 11/35 7/1 2
Client: Hileord Scient: Hileord	Mailing Address: Phone #:	email or Fax#: <i>bra</i> QA/QC Package: Standard Accreditation:	Date Time Matrix Sample Name	الحرار الحرار الحرار الحرار الحرار الحرار الحرار الحرار الحرار الحرار الحرار الحرار الحرار المراح ا		Date. Time: Relinquished by. 21/10/25 1423 72 500 Date: Time Relinquished by Received by. Via: 1/10/25 1815 MWOAL LOLLE Received by: Via: 1/10/25 1815 MWOAL LOLLE Received by: Via:

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Client: Hilcorp Energy

Login Number: 19665 List Number: 1 Creator: McQuiston, Steven

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

12

Job Number: 885-19665-1

List Source: Eurofins Albuquerque

Sante Fe Main Office Phone: (505) 476-3441

General Information Phone: (505) 629-6116

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

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

CONDITIONS

Operator:	OGRID:
HILCORP ENERGY COMPANY	372171
1111 Travis Street	Action Number:
Houston, TX 77002	452071
	Action Type:
	[REPORT] Alternative Remediation Report (C-141AR)

CONDITIONS

Created By		Condition Date
nvelez	None	4/17/2025

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Action 452071