1. Continue O&M & sampling as stated in report. 2. Submit next quarterly report by April 15, 2025.

January 6, 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: Fourth Quarter 2024 – SVE System Update

Scott 4M

San Juan County, New Mexico Hilcorp Energy Company

NMOCD Incident Number: NCE2003650476

To Whom it May Concern:

Ensolum, LLC (Ensolum), on behalf of Hilcorp Energy Company (Hilcorp), presents this Fourth Quarter 2024 -SVE System Update report summarizing the soil vapor extraction (SVE) system performance at the Scott 4M natural gas production well (Site), located in Section 17, Township 31 North, and Range 10 West in San Juan County (Figure 1). The SVE system has operated since January 2021 to remediate subsurface soil impacts resulting from approximately 42 barrels (bbls) of natural gas condensate released from an aboveground storage tank. This report summarizes Site activities performed in October, November, and December of 2024.

SVE SYSTEM SPECIFICATIONS

An upgraded SVE system was installed at the Site at the end of September 2022 and consists of 3-phase, 3.4 horsepower Republic Model KVHRC500 blower capable of producing a flow of 221 cubic feet per minute (cfm) and a vacuum of 76 inches of water column (IWC). The system is powered by a permanent power drop and is intended to run 24 hours per day. Seven SVE wells are currently present at the Site (SVE01 through SVE07, shown on Figure 2). SVE wells SVE01 through SVE03 are screened at depth intervals ranging from 25 feet to 45 feet below ground surface (bgs) in order to remediate deep soil impacts located at the Site. SVE wells SVE04 and SVE05 are screened at depth intervals ranging from 5 feet to 25 feet bgs in order to remediate shallow soil impacts at the Site. SVE wells SVE06 and SVE07 were installed at the Site in order to complete the pilot test conducted in 2021; however, these wells are not located in impacted areas and are not connected to the permanent SVE system.

FOURTH QUARTER 2024 ACTIVITIES

During the fourth quarter 2024, Ensolum and Hilcorp personnel performed bi-weekly operation and maintenance (O&M) visits to ensure the system was operating as designed and to perform any required maintenance. Field notes taken during O&M visits are presented in Appendix A. Between September 18 and November 26, 2024, vacuum was applied to SVE wells SVE01, SVE02, and SVE05. On November 26, 2024, the valves for SVE02 and SVE05 were closed in order to focus extraction on SVE01, the well with the highest photoionization detector (PID)

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readings. Between September 18 and December 18, 2024, the SVE system operated for 2,182.6 hours for a runtime efficiency of 103 percent (%). Photographs of the runtime meter for calculating the fourth quarter runtime efficiency are presented as Appendix B. The SVE system operational hours and calculated percent runtime are presented in Table 1. Due to the calculated runtime being greater than 100%, Ensolum and Hilcorp personnel will evaluate whether the hour meter is running fast and is in need of replacement.

A fourth quarter 2024 vapor sample was collected on November 26, 2024, from a sample port located between the SVE piping manifold and the SVE blower, using a high vacuum air sampler. Prior to collection, the vapor sample was field screened with a 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. A summary of analytical data collected during this sampling event and historical sampling events is summarized in Table 2, with the full laboratory analytical report included as Appendix C.

Vapor sample data and measured flow rates are used to estimate total mass recovered and total emissions generated by the SVE system (Table 3). Based on these estimates, 8,763 pounds (4.4 tons) of TVPH have been removed by the system to date.

RECOMMENDATIONS

Bi-weekly O&M visits will continue to be performed by Ensolum and/or Hilcorp personnel to ensure the SVE system is operating within normal working ranges (i.e., temperature, pressure, and vacuum) until it is determined that SVE is no longer effective, at which point a workplan for soil confirmation sampling will be submitted to the NMOCD for review and approval. Deviations from regular SVE system operations will be noted on field logs and included in the following quarterly report.

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,

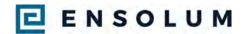
Ensolum, LLC

Stuart Hyde, LG (licensed in WA & TX) Senior Managing Geologist (970) 903-1607

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dmoir@ensolum.com



Hilcorp Energy Company Fourth Quarter 2024 – SVE System Update Scott 4M

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Attachments:

Figure 2 SVE System Configuration

Table 1 Soil Vapor Extraction System Runtime Calculations
Table 2 Soil Vapor Extraction System Air Analytical Results

Table 3 Soil Vapor Extraction System Mass Removal and Emissions

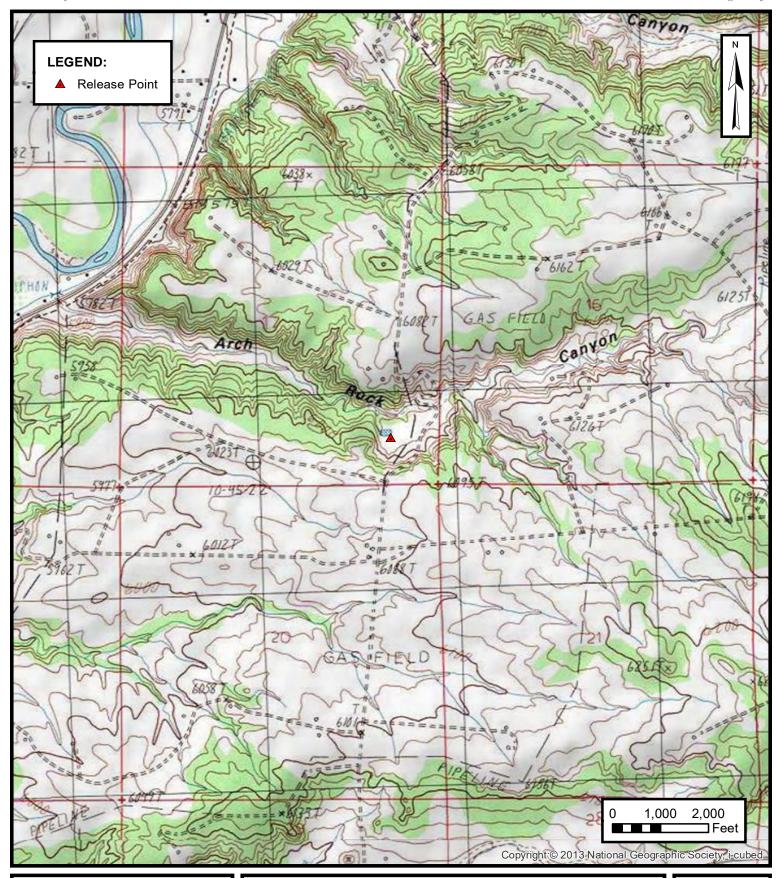
Appendix A Field Notes

Appendix B Project Photographs

Appendix C Laboratory Analytical Reports



Figures





SITE LOCATION

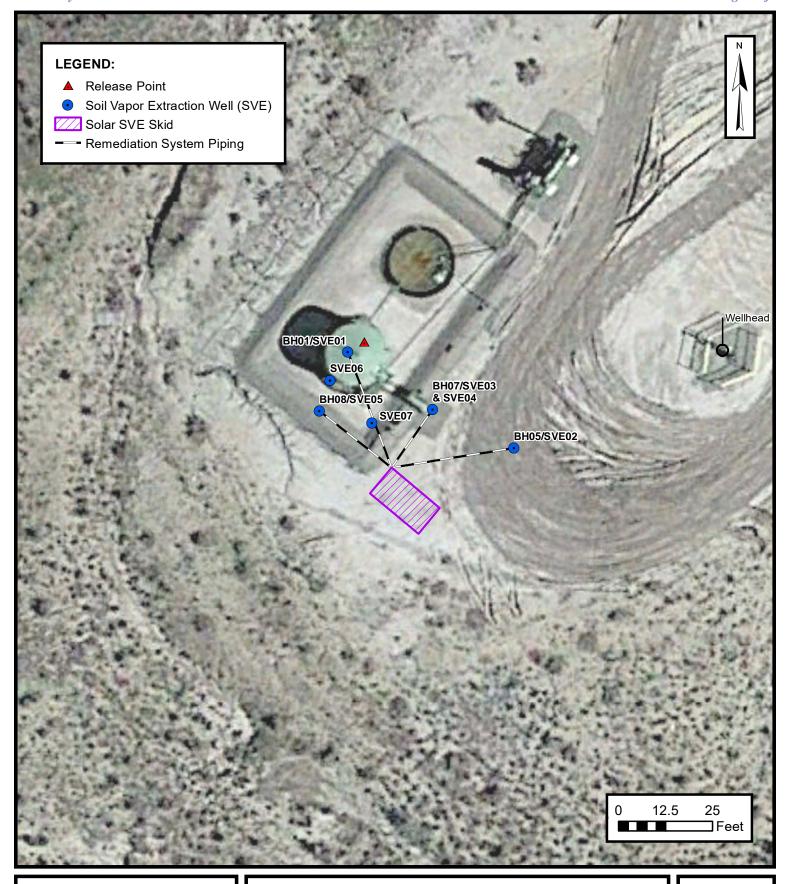
HILCORP ENERGY COMPANY SCOTT 4M

SESE SEC 17 T31N R1OW, San Juan County, New Mexico 36.893345° N, 107.899185° W

PROJECT NUMBER: 07A1988016

FIGURE

1





SVE SYSTEM CONFIGURATION

HILCORP ENERGY COMPANY SCOTT 4M

SESE SEC 17 T31N R1OW, San Juan County, New Mexico 36.893345° N, 107.899185° W

PROJECT NUMBER: 07A1988016

FIGURE

2



Tables



TABLE 1 SOIL VAPOR EXTRACTION SYSTEM RUNTIME CALCULATIONS

Scott 4M Hilcorp Energy Company San Juan County, New Mexico

Date	Total Operational Hours	Delta Hours	Days	Percent Runtime
9/18/2024	23,616	1	1	
12/18/2024	25,798	2,182.6	88.0	103%

Ensolum

Received by OCD: 1/9/2025 8:32:27 AM



TABLE 2

SOIL VAPOR EXTRACTION SYSTEM EMISSIONS ANALYTICAL RESULTS

Scott 4M

Hilcorp Energy Company San Juan County, New Mexico

San Suan 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 (%)
2/1/2021	118	85	240	10	64	18,000		
9/7/2021	53	40	280	24	240	15,000		
9/29/2021	316	210	1,800	240	2,200	85,000		
12/2/2021	232	48	320	32	310	50,000	16.60%	1.03%
3/15/2022	402	38	430	63	660	18,000	20.80%	0.473%
6/16/2022	89	1.3	13	1.6	17	750	21.57%	0.15%
9/28/2022	476	9.6	120	19	220	5,900	20.73%	0.90%
12/12/2022	198	2.5	26	4.9	59	2,100	21.65%	0.27%
3/9/2023	274	1.0	19	4.0	50	1,500	21.64%	0.19%
6/22/2023	247	1.2	16	2.4	34	940	21.42%	0.29%
8/23/2023	186	1.0	12	2.0	29	930	21.49%	0.32%
11/27/2023	129	0.86	11	1.5	22	860	21.40%	0.22%
3/5/2024	57.5	< 0.50	5.6	0.76	12	260	22.25%	0.10%
6/13/2024	88.7	0.67	8.0	1.1	18	490	21.78%	0.15%
9/18/2024	66.0	10	62	<5.0	69	270	22.10%	0.06%
11/26/2024	4.1	<0.10	0.11	<0.10	0.38	9.9	21.45%	0.05%

Notes:

GRO: gasoline range organics

μg/L: microgram per liter

PID: photoionization detector

ppm: parts per million

TVPH: total volatile petroleum hydrocarbons

%: percent

--: not sampled

Grey: Below laboratory reporting limit

Ensolum 1 of 1



TABLE 3

SOIL VAPOR EXTRACTION SYSTEM MASS REMOVAL AND EMISSIONS

Scott 4M
Hilcorp Energy Company
San Juan County, New Mexico

Laboratory Analysis

Date	PID (ppm)	Benzene (μg/L)	Toluene (μg/L)	Ethylbenzene (μg/L)	Total Xylenes (μg/L)	TVPH (μg/L)
2/1/2021	118	85	240	10	64	18,000
9/7/2021	53	40	280	24	240	15,000
9/29/2021	316	210	1,800	240	2,200	85,000
12/2/2021	232	48	320	32	310	50,000
3/15/2022	402	38	430	63	660	18,000
6/16/2022	89	1.3	13	1.6	17	750
9/28/2022 (1)	476	9.6	120	19	220	5,900
12/12/2022 (2)	198	2.5	26	4.9	59	2,100
3/9/2023	274	1.0	19	4.0	50	1,500
6/22/2023	247	1.2	16	2.4	34	940
8/23/2023	186	1.0	12	2.0	29	930
11/27/2023	129	0.86	11	1.5	22	860
3/5/2024	57.5	0.50	5.6	0.76	12	260
6/13/2024	88.7	0.67	8.0	1.10	18	490
9/18/2024	66.0	10	62	5.0	69	270
11/26/2024	4.1	0.10	0.11	0.10	0.38	9.9
Average	184	28	210	26	250	12,501

Vapor Extraction Summary

			vapo	or extraction Sumi	iiai y			
Date	Flow Rate (cfm)	Total System Flow (cf)	Delta Flow (cf)	Benzene (lb/hr)	Toluene (lb/hr)	Ethylbenzene (lb/hr)	Total Xylenes (lb/hr)	TVPH (lb/hr)
2/1/2021	22	1,980	1,980	0.0070	0.020	0.00082	0.0053	1.5
9/7/2021	22	2,841,168	2,839,188	0.0051	0.021	0.0014	0.013	1.4
9/29/2021	10	2,979,528	138,360	0.0047	0.039	0.0049	0.046	1.9
12/2/2021	3.5	3,106,158	126,630	0.00169	0.0139	0.00178	0.0164	0.88
3/15/2022	8.0	3,519,486	413,328	0.00129	0.0112	0.00142	0.0145	1.02
6/16/2022	14	4,412,322	892,836	0.00103	0.0116	0.00169	0.0177	0.49
9/9/2022 (1)	12	5,218,146	805,824	0.00024	0.0030	0.00046	0.0053	0.15
12/10/2022 (2)	46	10,939,074	5,720,928	0.00104	0.0126	0.00206	0.0240	0.69
3/9/2023	31	14,846,376	3,907,302	0.00020	0.0026	0.00052	0.0063	0.21
6/22/2023 (3)	36	20,301,024	5,454,648	0.00015	0.0024	0.00043	0.0057	0.16
8/23/2023 (4)	38	23,648,084	3,347,060	0.00015	0.0020	0.00031	0.0044	0.13
11/27/2023	50	30,561,884	6,913,800	0.00017	0.0022	0.00033	0.0048	0.17
3/5/2024	35	35,557,364	4,995,480	0.00009	0.0011	0.00015	0.0022	0.07
6/13/2024	38	41,019,788	5,462,424	0.00008	0.0010	0.00013	0.0021	0.05
9/18/2024	40	46,603,628	5,583,840	0.00080	0.0052	0.00046	0.0065	0.06
11/26/2024	20	48,586,988	1,983,360	0.00038	0.0023	0.00019	0.0026	0.01
		•	Average	0.0015	0.009	0.0011	0.011	0.55

Mass Recovery

	······································							
Date	Total SVE System Hours	Delta Hours	Benzene (pounds)	Toluene (pounds)	Ethylbenzene (pounds)	Total Xylenes (pounds)	TVPH (pounds)	TVPH (tons)
2/1/2021	1.5	1.5	0.010	0.030	0.0012	0.0079	2.2	0.0011
9/7/2021	2,152	2,151	11	46	3.0	27	2,920	1.5
9/29/2021	2,383	231	1,1	9.0	1.1	11	431	0.22
12/2/2021	2,986	603	1.0	8.4	1.1	9.9	533	0.27
3/15/2022	3,847	861	1.1	9.7	1.2	12	876	0.44
6/16/2022	4,910	1,063	1.1	12.3	1.8	19	522	0.26
9/9/2022 (1)	6,029	1,119	0.3	3.3	0.5	6.0	167	0.08
12/10/2022 (2)	8,102	2,073	2.2	26	4.3	50	1,426	0.71
3/9/2023	10,203	2,101	0.43	5.5	1.1	13	438	0.22
6/22/2023	12,728	2,525	0.37	6.0	1.1	14	415	0.21
8/23/2023	14,209	1,481	0.23	2.9	0.46	6.6	195	0.10
11/27/2023	16,514	2,305	0.40	5.0	0.75	11	386	0.19
3/5/2024	18,892	2,379	0.21	2.6	0.35	5.3	174	0.087
6/13/2024	21,288	2,396	0.20	2.3	0.32	5.1	128	0.064
9/18/2024	23,615	2,327	1.9	12	1.1	15	132	0.066
11/26/2024	25,268	1,653	0.6	4	0.3	4	17	0.009
	Total Mass	Recovery to Date	22	155	18	209	8,763	4.4

Notes:

- (1): SVE system hours and flow rates were collected during operation and maintenance visit on 9/9/2022
- (2): PID measurement, SVE system hours, and flow rates were collected during operation and maintenance visit on 12/10/2022
- (3): SVE system rotameter was malfunctioning during site visit on 6/22/2023. Flow rate was estimated based on the average flow recorded during site visits between 4/13/2023 and 6/7/2023.
- (4): SVE system rotameter was oscillating during third quarter 2023 site visits. Flow rate was estimated based on average historical flow for the current system
- cf: cubic feet
- cfm: cubic feet per minute
- μ g/L: micrograms per liter
- lb/hr: pounds per hour --: not sampled
- PID: photoionization detector
- opm: parts per million
- TVPH: total volatile petroleum hydrocarbons
- gray: laboratory reporting limit used for calculating emissions



APPENDIX A

Field Notes



TIME ONSITE:	10-15	O&M PERSONNEL: _ TIME OFFSITE: _	B Sinclei	
	SV	E SYSTEM - MONTHLY O&M		
SVE ALARMS:		KO TANK HIGH LEVEL		
SVE SYSTEM	READING	TIME	TIME	ER SETTINGS
Blower Hours (take photo)	24263.4	1419	Month	Timer Setting
Voltage In			January	8 AM to 7 PM
Amperage In	WALTER THE PROPERTY OF		February	8 AM to 7 PM
Voltage Out			March	8 AM to 8 PM
Amperage Out			April	8 AM to 9 PM
KiloWatts			May	7 AM to 9 PM
KiloWatt-Hours			June	6 AM to 9 PM
Solar Controller Status			July	6 AM to 9 PM
Pos Pre K/O Vacuum (TWC)	-61		August	7 AM to 9 PM
Inlet Rotameter Flow (scfm)	39		September	8 AM to 9 PM
Inlet PID	8.5	EST THE NOTE OF THE PARTY OF TH	October	8 AM to 8 PM
Exhaust PID	117.4		November	9 AM to 8 PM
Solar Panel Angle	HERE REPORTS	AND COMPANY OF THE PARK OF THE	December	8 AM to 6 PM
K/O Tank Drum Level			STREET, STREET	
K/O Liquid Drained (gallons)				
Timer Setting				
THE RESERVE THE RE	SVESY	COURSE OF LEVEL		
	PH (8015), VOCs (8260), Fix	STEM - QUARTERLY SAMPL SAMPLE TIME: ixed Gas (CO/CO2/O2)	LING	
		SAMPLE TIME:	LING	
Analytes: TVI OPERATING WELLS		SAMPLE TIME:	ADJUSTMENTS	
Analytes: TVI OPERATING WELLS Change in Well Operation:	PH (8015), VOCs (8260), Fiz	SAMPLE TIME: ixed Gas (CO/CO2/O2)		
Analytes: TVI OPERATING WELLS Change in Well Operation: LOCATION SVE01 SVE02	PH (8015), VOCs (8260), Fix	SAMPLE TIME: ixed Gas (CO/CO2/O2) PID HEADSPACE (PPM)		
Analytes: TVI OPERATING WELLS Change in Well Operation: LOCATION SVE01	PH (8015), VOCs (8260), Fix	PID HEADSPACE (PPM)		
Analytes: TVI OPERATING WELLS Change in Well Operation: LOCATION SVE01 SVE02	VACUUM (IWC) 49.8	PID HEADSPACE (PPM)		
Analytes: TVI OPERATING WELLS Change in Well Operation: LOCATION SVE01 SVE02 SVE03	PH (8015), VOCs (8260), Fix	PID HEADSPACE (PPM)		
Analytes: TVI OPERATING WELLS Change in Well Operation: LOCATION SVE01 SVE02 SVE03 SVE04	VACUUM (IWC) 49.8	PID HEADSPACE (PPM)		
Analytes: TVI OPERATING WELLS Change in Well Operation: LOCATION SVE01 SVE02 SVE03 SVE04 SVE05	VACUUM (IWC) 49.8	PID HEADSPACE (PPM)		
Analytes: TVI OPERATING WELLS Change in Well Operation: LOCATION SVE01 SVE02 SVE03 SVE04 SVE05 SVE06 (OBSERVATION WELL)	VACUUM (IWC) 49.4 15.47	PID HEADSPACE (PPM)		



DATE: 10-30 TIME ONSITE:	O&M PERSONNEL:	B	Sincl	air
THVIE ONDITE.	TIME OFFSITE:			

	, SVE SY	STEM - MONTHLY 0&	:M	
SVE ALARMS:		KO TANK HIGH LEVEL		
SVE SYSTEM	READING	TIME	TIME	R SETTINGS
Blower Hours (take photo)	24623.2	1413	Month	Timer Setting
Voltage In			January	8 AM to 7 PM
Amperage In			February	8 AM to 7 PM
Voltage Out			March	8 AM to 8 PM
Amperage Out			April	8 AM to 9 PM
KiloWatts			May	7 AM to 9 PM
KiloWatt-Hours			June	6 AM to 9 PM
Solar Controller Status			July	6 AM to 9 PM
Pre K/O Vacuum (IWC)	-61		August	7 AM to 9 PM
Inlet Rotameter Flow (scfm)	40		September	8 AM to 9 PM
Inlet PID	42.1		October	8 AM to 8 PM
Exhaust PID	112.8		November	9 AM to 8 PM
Solar Panel Angle			December	8 AM to 6 PM
K/O Tank Drum Level				
K/O Liquid Drained (gallons)				
Timer Setting				

	SVE SYSTEM - QUARTERLY SAMPLING	
SAMPLE ID:	SAMPLE TIME:	
Analytes: TVPH (80)	15), VOCs (8260), Fixed Gas (CO/CO2/O2)	
OPERATING WELLS		

Change in Well Operation:				
Change in Wen Operation.				
LOCATION	VACUUM (IWC)	PID HEADSPACE (PPM)	ADJUSTMENTS	
SVE01	42.2	97.9		
SVE02	99.2	47.7		
-SVE03-				
SVE04				
SVE05	15.42	50.1		
VE06 (OBSERVATION WELL)			CONTRACTOR OF THE PARTY OF	
VE07 (OBSERVATION WELL)				

COMMENTS/OTHER MAINTENANCE:



DATE: TIME ONSITE: TIME OFFSITE: SVE SYSTEM - MONTHLY O&M SVE ALARMS: KO TANK HIGH LEVEL SVE SYSTEM READING TIME Blower Hours (take photo) 2 4937, 9 1 35 Po Pre-K/O Vacuum (IWC) - 6.0 Inlet Rotameter Flow (cfm) 9,0 Inlet PID 1,3,8 Exhaust PID 1,5,2 K/O Tank Drum Level K/O Liquid Drained (gallons) 6,5 Timer Setting SVE SYSTEM - QUARTERLY SAMPLING SAMPLE TIME: Analytes: TVPH (8015), VOCs (8260), Fixed Gas (CO/CO2/O2) OPERATING WELLS Change in Well Operation: LOCATION VACUUM (IWC) PID HEADSPACE (PPM) FLOW (CFM) ADJUST SVE01 92,3 1 09,1 SVE02 93,9 38,3 SVE05 SVE05 15,12 52,7 SVE06 (OBSERVATION WELL) SVE07 (OBSERVATION WELL) SVE07 (OBSERVATION WELL) COMMENTS/OTHER MAINTENANCE:		В	SIWEEKLY O&M FORM		
SVE SYSTEM READING TIME Blower Hours (take photo) 2 4934, 4 1 435 Page Preck/O Vacuum (IWC) - 60 Inlet Rotameter Flow (cfm) 4,0 Inlet PID 43,7 Exhaust PID 1 1.5,2 K/O Tank Drum Level K/O Liquid Drained (gallons) 5.5 Timer Setting SVE SYSTEM - QUARTERLY SAMPLING SAMPLE ID: Analytes: TVPH (8015), VOCs (8260), Fixed Gas (CO/CO2/O2) OPERATING WELLS Change in Well Operation: LOCATION VACUUM (IWC) PID HEADSPACE (PPM) FLOW (CFM) ADJUS: SVE01 42,3 1.09,1 SVE02 43,9 3.8,3 SVE04 5.8VE04 5.8VE04 5.9VE05 1.5,12 5.2,7 SVE06 (OBSERVATION WELL) SVE07 (OBSERVATION WELL)		11-12		B Sinclair	
SVE SYSTEM READING Blower Hours (take photo) Pec No Vacuum (IWC) Inlet Rotameter Flow (cfm) Inlet PID Exhaust PID K/O Tank Drum Level K/O Liquid Drained (gallons) Timer Setting SVE SYSTEM - QUARTERLY SAMPLING SAMPLE ID: Analytes: TVPH (8015), VOCs (8260), Fixed Gas (CO/CO2/O2) OPERATING WELLS Change in Well Operation: LOCATION VACUUM (IWC) SVE01 Y2, 3 109, [SVE02 SVE02 SVE03 SVE04 SVE04 SVE05 SVE05 SVE06 (OBSERVATION WELL) SVE07 (OBSERVATION WELL) SVE07 (OBSERVATION WELL)		SV	E SYSTEM - MONTHLY O&M		
Blower Hours (take photo) Pse.K/O Vacuum (IWC) Inlet Rotameter Flow (cfm) Inlet PID K/O Tank Drum Level K/O Liquid Drained (gallons) Timer Setting SVE SYSTEM - QUARTERLY SAMPLING SAMPLE ID: Analytes: TVPH (8015), VOCs (8260), Fixed Gas (CO/CO2/O2) OPERATING WELLS Change in Well Operation: LOCATION VACUUM (IWC) SVE01 SVE02 SVE03 SVE04 SVE05 SVE06 (OBSERVATION WELL) SVE07 (OBSERVATION WELL) SVE07 (OBSERVATION WELL) SVE07 (OBSERVATION WELL) SVE07 SVE07	SVE ALARMS:		KO TANK HIGH LEVEL		
Pre-K/O Vacuum (IWC)	SVE SYSTEM	READING	TIME		
Pack/O Vacuum (IWC)	Blower Hours (take photo)	24936.4	1435		
Inlet Rotameter Flow (cfm) Inlet PID Exhaust PID K/O Tank Drum Level K/O Liquid Drained (gallons) Timer Setting SVE SYSTEM - QUARTERLY SAMPLING SAMPLE ID: Analytes: TVPH (8015), VOCs (8260), Fixed Gas (CO/CO2/O2) OPERATING WELLS Change in Well Operation: LOCATION VACUUM (IWC) PID HEADSPACE (PPM) SVE01 SVE02 SVE02 SVE03 SVE04 SVE05 SVE04 SVE05 SVE06 (OBSERVATION WELL) SVE07 (OBSERVATION WELL) SVE07 (OBSERVATION WELL) SVE07 (OBSERVATION WELL) SVE07 (OBSERVATION WELL)		- 60			
Inlet PID		40			
K/O Tank Drum Level K/O Liquid Drained (gallons) Timer Setting SVE SYSTEM - QUARTERLY SAMPLING SAMPLE ID: Analytes: TVPH (8015), VOCs (8260), Fixed Gas (CO/CO2/O2) OPERATING WELLS Change in Well Operation: LOCATION VACUUM (IWC) PID HEADSPACE (PPM) SVE01 Y2,3 109.1 SVE02 SVE03 SVE04 SVE05 SVE06 (OBSERVATION WELL) SVE07 (OBSERVATION WELL) SVE07 (OBSERVATION WELL)		43.8			
K/O Tank Drum Level		115.2			
SVE SYSTEM - QUARTERLY SAMPLING					
SVE SYSTEM - QUARTERLY SAMPLING		6.5			
SVE SYSTEM - QUARTERLY SAMPLING SAMPLE TIME: Analytes: TVPH (8015), VOCs (8260), Fixed Gas (CO/CO2/O2)					
SAMPLE ID:					
Analytes: TVPH (8015), VOCs (8260), Fixed Gas (CO/CO2/O2) OPERATING WELLS Change in Well Operation: LOCATION		SVE S	YSTEM - QUARTERLY SAMPLIN	NG	
Analytes: TVPH (8015), VOCs (8260), Fixed Gas (CO/CO2/O2) OPERATING WELLS Change in Well Operation: LOCATION	SAMPLE ID:		SAMPLE TIME:		
OPERATING WELLS Change in Well Operation: VACUUM (IWC) PID HEADSPACE (PPM) FLOW (CFM) ADJUST SVE01 42.3 109.1 SVE02 43.9 38.3 SVE03 38.3 SVE04 5VE04 SVE05 15.12 SVE06 (OBSERVATION WELL) SVE07 (OBSERVATION WELL)		PH (8015), VOCs (8260), Fix	ked Gas (CO/CO2/O2)		
Change in Well Operation: LOCATION VACUUM (IWC) PID HEADSPACE (PPM) FLOW (CFM) ADJUST SVE01 42.3 109.1	OPERATING WELLS				
SVE01	Change in Well Operation:				
SVE01	LOCATION	VACUUM (IWC)	PID HEADSPACE (PPM)	FLOW (CFM)	ADJUSTMENTS
SVE02 SVE03 SVE04 SVE05 SVE06 (OBSERVATION WELL) SVE07 (OBSERVATION WELL)		42.3	109.1		
SVE03 SVE04 SVE05 SVE05 SVE06 (OBSERVATION WELL) SVE07 (OBSERVATION WELL)		43,9			
SVE05 SVE06 (OBSERVATION WELL) SVE07 (OBSERVATION WELL)					
SVE05 US. 12 S 2.7 SVE06 (OBSERVATION WELL) SVE07 (OBSERVATION WELL)					
SVE06 (OBSERVATION WELL) SVE07 (OBSERVATION WELL)		15.12	52.7		
SVE07 (OBSERVATION WELL)					
COMMENTS/OTHER MAINTENANCE:		在一种关节的。这个公司是1965年			
	COMMENTS/OTHER MAINTENANC	E:			
		THE REPORT OF THE PARTY OF			

Received by OCD: 1/9/2025 8:32:27 AM

DATE:	11/26/24	O&M PERSONNEI	i H	
TIME ONSITE:	0945	TIME OFFSITE		
	SV	E SYSTEM - MONTHLY	0&M	
CVIE AT ADVICE		WO TANK HICH LEVEL		
SVE ALARMS:		KO TANK HIGH LEVEL		
SVE SYSTEM	READING	TIME	TIMER	SETTINGS
Blower Hours (take photo)	25267.6	asi	Month	Timer Setting
Voltage In			January	
Amperage In			February	
Voltage Out			March	
Amperage Out			April	
KiloWatts			May	
KiloWatt-Hours			June	
Solar Controller Status			July	
Inlet Rotameter Flow (cfm),	10		August	
Inlet PID (ppm)	4.120		September Coctober	
Exhaust PID (ppm)	6.4		November	
Solar Panel Angle			December	
K/O Tank Drum Level				
K/O Liquid Drained (gallons),				
Timer Setting				
		ystem - Quarterly sa		
SAMPLE ID:	SUE D TVPH (8015), VOCs (8260), Fixe	SAMPLE TIME:	1020	
OPERATING WELLS:		a concerce,		
Charge in Well Operation:				
LCCATION	YACUUM (IWC)	VELOCITY (fpm)	PID HEADSPACE (PPM)	ADJUSTMENTS
SVE01			19.	
SVE02				
-SVE03- -SVE04				
STEDO				
			1	
SVE06 (OBSERVATION WELL); SVE07 (OBSERVATION WELL);				
		HOUSE THE REAL PROPERTY.	THE RESERVE TO THE PARTY OF THE	
COMMENTS/OTHER MAINTENA	NCE:			

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Page 16 of 5.

SCOTT 4M SVE SYSTEM BIWEEKLY O&M FORM

SVE ALARMS: SVE SYSTEM	ALCOHOLOGICA SAMELANDA VE	VE SYSTEM - MONTHLY O&M		
SVE SYSTEM		KO TANK HIGH LEVEL		
~ · L SISIF VI		INO TAINK HIGH LEVEL		
Blower Hours (take photo)	READING	TIME		
Pre K/O Vacuum (IWC)	25485.7	1209		
Inlet Rotameter Flow (cfm)	- 68			
Inlet PID	45.4			
Exhaust PID	107 3			
K/O Tank Drum Level				
K/O Liquid Drained (gallons)				
Timer Setting		(A) [[[] [] [] [] [] [] [] [] [] [] [] [] [
	CVIII O			
SAMPLE ID:	SVES	YSTEM - QUARTERLY SAMPLI	NG	
	VPH (8015), VOCs (8260), Fix	SAMPLE TIME:		
OPERATING WELLS	(0010), 1005 (0200), 11	xed Gas (CO/CO2/O2)		
Change in Well Operation:				
LOCATION	VACUUM (IWC)	PID HEADSPACE (PPM)	FLOW (CFM)	ADJUSTMENTS
	VACUUM (IWC) 47.2	PID HEADSPACE (PPM)	FLOW (CFM)	ADJUSTMENTS
LOCATION SVE01		PID HEADSPACE (PPM)	FLOW (CFM)	ADJUSTMENTS
LOCATION SVE01 SVE02 SVE03 SVE04		PID HEADSPACE (PPM) 101.8	FLOW (CFM)	ADJUSTMENTS
LOCATION SVE01 SVE02 SVE03		PID HEADSPACE (PPM) 101.8	FLOW (CFM)	ADJUSTMENTS

DATE: TIME ONSITE:	12-18	O&M PERSONNEL: TIME OFFSITE:	B Sindai	
	SVI	E SYSTEM - MONTHLY O&M		
SVE ALARMS:		KO TANK HIGH LEVEL		
SVE SYSTEM	READING	TIME		
Blower Hours (take photo) Pre K/O Vacuum (IWC)	25798,4	1255		
Inlet Rotameter Flow (cfm)	-70			
Inlet PID	79.1			
Exhaust PID K/O Tank Drum Level	103.1			
K/O Liquid Drained (gallons)				
Timer Setting				
	SVE SY	STEM - QUARTERLY SAMPLI	NG	
SAMPLE ID:	PH (8015), VOCs (8260), Fix	SAMPLE TIME: ed Gas (CO/CO2/O2)		
OPERATING WELLS	111 (0015), 4003 (0200), 112	cu das (co/coz/oz)		
Change in Well Operation:				
LOCATION	VACUUM (IWC)	PID HEADSPACE (PPM)	FLOW (CFM)	ADJUSTMENTS
SVE01	47.4	114.5		
SVE02 SVE03				
-SVE04				
SVE06 (OBSERVATION WELL) SVE07 (OBSERVATION WELL)				
COMMENTS/OTHER MAINTENANG	CE:			
COIVIL				



APPENDIX B

Project Photographs

PROJECT PHOTOGRAPHS

Scott 4M San Juan County, New Mexico Hilcorp Energy Company

Photograph 1

Runtime meter taken on September 18, 2024 at 1:32 PM Hours = 23,614.8



Photograph 2

Runtime meter taken on December 18, 2024 at 12:55 PM Hours = 25,798.4





APPENDIX C

Laboratory Analytical Reports

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 12/6/2024 11:04:05 AM

JOB DESCRIPTION

Hilcorp 0&M SV2

JOB NUMBER

885-16011-1

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

Page 2 of 32

Generated 12/6/2024 11:04:05 AM

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

12/6/2024

Client: Hilcorp Energy

Laboratory Job ID: 885-16011-1

Project/Site: Hilcorp 0&M SV2

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Subcontract Data	22
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Definitions/Glossary

Client: Hilcorp Energy Job ID: 885-16011-1

Project/Site: Hilcorp 0&M SV2

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 Job ID: 885-16011-1 Project: Hilcorp 0&M SV2

Job ID: 885-16011-1 **Eurofins Albuquerque**

> Job Narrative 885-16011-1

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 11/27/2024 7:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 11.7°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.

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

Client: Hilcorp Energy Job ID: 885-16011-1

Project/Site: Hilcorp 0&M SV2

Client Sample ID: Scott 4M SVE01

Date Collected: 11/26/24 10:20

Date Received: 11/27/24 07:00 Sample Container: Tedlar Bag 1L Lab Sample ID: 885-16011-1

Matrice Ale

Matrix: Air

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4.6

11

Analyte	Resuit	Qualifier	RL	Unit	<u>D</u> -	Prepared	Analyzed	Dil Fa
Gasoline Range Organics [C6 - C10]	9.9		5.0	ug/L			12/04/24 15:56	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil F
4-Bromofluorobenzene (Surr)	92		52 - 172		-		12/04/24 15:56	
		. (00						
Method: SW846 8260B - Volatile		•	•	l lmi4		Duamanad	A maluma d	Dil F
Analyte 1,1,1,2-Tetrachloroethane	Result	Qualifier		Unit	D	Prepared	Analyzed 12/04/24 15:56	Dil Fa
				ug/L				
1,1,1-Trichloroethane	ND ND		0.10 0.20	ug/L			12/04/24 15:56	
1,1,2,2-Tetrachloroethane				ug/L			12/04/24 15:56	
1,1,2-Trichloroethane	ND		0.10	ug/L			12/04/24 15:56	
1,1-Dichloroethane	ND		0.10	ug/L			12/04/24 15:56	
1,1-Dichloroethene	ND		0.10	ug/L			12/04/24 15:56	
1,1-Dichloropropene	ND		0.10	ug/L			12/04/24 15:56	
1,2,3-Trichlorobenzene	ND		0.10	ug/L			12/04/24 15:56	
1,2,3-Trichloropropane	ND		0.20	ug/L			12/04/24 15:56	
1,2,4-Trichlorobenzene	ND		0.10	ug/L			12/04/24 15:56	
1,2,4-Trimethylbenzene	ND		0.10	ug/L			12/04/24 15:56	
1,2-Dibromo-3-Chloropropane	ND		0.20	ug/L			12/04/24 15:56	
1,2-Dibromoethane (EDB)	ND		0.10	ug/L			12/04/24 15:56	
1,2-Dichlorobenzene	ND		0.10	ug/L			12/04/24 15:56	
1,2-Dichloroethane (EDC)	ND		0.10	ug/L			12/04/24 15:56	
1,2-Dichloropropane	ND		0.10	ug/L			12/04/24 15:56	
1,3,5-Trimethylbenzene	ND		0.10	ug/L			12/04/24 15:56	
1,3-Dichlorobenzene	ND		0.10	ug/L			12/04/24 15:56	
1,3-Dichloropropane	ND		0.10	ug/L			12/04/24 15:56	
1,4-Dichlorobenzene	ND		0.10	ug/L			12/04/24 15:56	
1-Methylnaphthalene	ND		0.40	ug/L			12/04/24 15:56	
2,2-Dichloropropane	ND		0.20	ug/L			12/04/24 15:56	
2-Butanone	ND		1.0	ug/L			12/04/24 15:56	
2-Chlorotoluene	ND		0.10	ug/L			12/04/24 15:56	
2-Hexanone	ND		1.0	ug/L			12/04/24 15:56	
2-Methylnaphthalene	ND		0.40	ug/L			12/04/24 15:56	
4-Chlorotoluene	ND		0.10	ug/L			12/04/24 15:56	
4-Isopropyltoluene	ND		0.10	ug/L			12/04/24 15:56	
4-Methyl-2-pentanone	ND		1.0	ug/L			12/04/24 15:56	
Acetone	ND		1.0	ug/L			12/04/24 15:56	
Benzene	ND		0.10	ug/L			12/04/24 15:56	
Bromobenzene	ND		0.10	ug/L			12/04/24 15:56	
Bromodichloromethane	ND		0.10	ug/L			12/04/24 15:56	
Dibromochloromethane	ND		0.10	ug/L			12/04/24 15:56	
Bromoform	ND		0.10	ug/L			12/04/24 15:56	
Bromomethane	ND		0.30	ug/L			12/04/24 15:56	
Carbon disulfide	ND		1.0	.			12/04/24 15:56	
Carbon distillide				ug/L				
	ND		0.10	ug/L			12/04/24 15:56	
Chlorobenzene	ND		0.10	ug/L			12/04/24 15:56	
Chloroethane	ND		0.20	ug/L			12/04/24 15:56	
Chloroform	ND		0.10	ug/L			12/04/24 15:56	

Client: Hilcorp Energy Job ID: 885-16011-1

Project/Site: Hilcorp 0&M SV2

Client Sample ID: Scott 4M SVE01

Date Collected: 11/26/24 10:20

Date Received: 11/27/24 07:00 Sample Container: Tedlar Bag 1L

Lab Sample ID: 885-16011-1

Matrix: Air

-

Method: SW846 8260B - Volati Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND	·	0.30	ug/L		<u> </u>	12/04/24 15:56	1
cis-1,2-Dichloroethene	ND		0.10	ug/L			12/04/24 15:56	1
cis-1,3-Dichloropropene	ND		0.10	ug/L			12/04/24 15:56	1
Dibromomethane	ND		0.10	ug/L			12/04/24 15:56	1
Dichlorodifluoromethane	ND		0.10	ug/L			12/04/24 15:56	1
Ethylbenzene	ND		0.10	ug/L			12/04/24 15:56	1
Hexachlorobutadiene	ND		0.10	ug/L			12/04/24 15:56	1
Isopropylbenzene	ND		0.10	ug/L			12/04/24 15:56	1
Methyl-tert-butyl Ether (MTBE)	ND		0.10	ug/L			12/04/24 15:56	1
Methylene Chloride	ND		0.30	ug/L			12/04/24 15:56	1
n-Butylbenzene	ND		0.30	ug/L			12/04/24 15:56	1
N-Propylbenzene	ND		0.10	ug/L			12/04/24 15:56	1
Naphthalene	ND		0.20	ug/L			12/04/24 15:56	1
sec-Butylbenzene	ND		0.10	ug/L			12/04/24 15:56	1
Styrene	ND		0.10	ug/L			12/04/24 15:56	1
tert-Butylbenzene	ND		0.10	ug/L			12/04/24 15:56	1
Tetrachloroethene (PCE)	ND		0.10	ug/L			12/04/24 15:56	1
Toluene	0.11		0.10	ug/L			12/04/24 15:56	1
trans-1,2-Dichloroethene	ND		0.10	ug/L			12/04/24 15:56	1
trans-1,3-Dichloropropene	ND		0.10	ug/L			12/04/24 15:56	1
Trichloroethene (TCE)	ND		0.10	ug/L			12/04/24 15:56	1
Trichlorofluoromethane	ND		0.10	ug/L			12/04/24 15:56	1
Vinyl chloride	ND		0.10	ug/L			12/04/24 15:56	1
Xylenes, Total	0.38		0.15	ug/L			12/04/24 15:56	1
Surrogate	%Recovery	Qualifier	l imite			Propared	Analyzed	Dil Fac

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101	70 - 130	12	/04/24 15:56	1
Toluene-d8 (Surr)	108	70 - 130	12	/04/24 15:56	1
4-Bromofluorobenzene (Surr)	103	70 - 130	12	/04/24 15:56	1
Dibromofluoromethane (Surr)	107	70 - 130	12	/04/24 15:56	1

Client: Hilcorp Energy Job ID: 885-16011-1

Project/Site: Hilcorp 0&M SV2

Client Sample ID: #41 A SVE01

Lab Sample ID: 885-16011-2 Date Collected: 11/26/24 11:45

Matrix: Air

Date Received: 11/27/24 07:00 Sample Container: Tedlar Bag 1L

Method: SW846 8015M/D	- Nonhalogenated Organics using	GC/MS -Modified	(Gasoline Ran	ge Orga	nics)
Analysta	Popult Qualifier	DI	Heit	n	Dropo

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 -	7.9	5.0	ug/L			12/04/24 16:52	1

C10]

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		52 - 172		12/04/24 16:52	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.10	ug/L			12/04/24 16:52	1
1,1,1-Trichloroethane	ND		0.10	ug/L			12/04/24 16:52	1
1,1,2,2-Tetrachloroethane	ND		0.20	ug/L			12/04/24 16:52	1
1,1,2-Trichloroethane	ND		0.10	ug/L			12/04/24 16:52	1
1,1-Dichloroethane	ND		0.10	ug/L			12/04/24 16:52	1
1,1-Dichloroethene	ND		0.10	ug/L			12/04/24 16:52	1
1,1-Dichloropropene	ND		0.10	ug/L			12/04/24 16:52	1
1,2,3-Trichlorobenzene	ND		0.10	ug/L			12/04/24 16:52	1
1,2,3-Trichloropropane	ND		0.20	ug/L			12/04/24 16:52	1
1,2,4-Trichlorobenzene	ND		0.10	ug/L			12/04/24 16:52	1
1,2,4-Trimethylbenzene	ND		0.10	ug/L			12/04/24 16:52	1
1,2-Dibromo-3-Chloropropane	ND		0.20	ug/L			12/04/24 16:52	1
1,2-Dibromoethane (EDB)	ND		0.10	ug/L			12/04/24 16:52	1
1,2-Dichlorobenzene	ND		0.10	ug/L			12/04/24 16:52	1
1,2-Dichloroethane (EDC)	ND		0.10	ug/L			12/04/24 16:52	1
1,2-Dichloropropane	ND		0.10	ug/L			12/04/24 16:52	1
1,3,5-Trimethylbenzene	ND		0.10	ug/L			12/04/24 16:52	1
1,3-Dichlorobenzene	ND		0.10	ug/L			12/04/24 16:52	1
1,3-Dichloropropane	ND		0.10	ug/L			12/04/24 16:52	1
1,4-Dichlorobenzene	ND		0.10	ug/L			12/04/24 16:52	1
1-Methylnaphthalene	ND		0.40	ug/L			12/04/24 16:52	1
2,2-Dichloropropane	ND		0.20	ug/L			12/04/24 16:52	1
2-Butanone	ND		1.0	ug/L			12/04/24 16:52	1
2-Chlorotoluene	ND		0.10	ug/L			12/04/24 16:52	1
2-Hexanone	ND		1.0	ug/L			12/04/24 16:52	1
2-Methylnaphthalene	ND		0.40	ug/L			12/04/24 16:52	1
4-Chlorotoluene	ND		0.10	ug/L			12/04/24 16:52	1
4-Isopropyltoluene	ND		0.10	ug/L			12/04/24 16:52	1
4-Methyl-2-pentanone	ND		1.0	ug/L			12/04/24 16:52	1
Acetone	ND		1.0	ug/L			12/04/24 16:52	1
Benzene	ND		0.10	ug/L			12/04/24 16:52	1
Bromobenzene	ND		0.10	ug/L			12/04/24 16:52	1
Bromodichloromethane	ND		0.10	ug/L			12/04/24 16:52	1
Dibromochloromethane	ND		0.10	ug/L			12/04/24 16:52	1
Bromoform	ND		0.10	ug/L			12/04/24 16:52	1
Bromomethane	ND		0.30	ug/L			12/04/24 16:52	1
Carbon disulfide	ND		1.0	ug/L			12/04/24 16:52	1
Carbon tetrachloride	ND		0.10	ug/L			12/04/24 16:52	1
Chlorobenzene	ND		0.10	ug/L			12/04/24 16:52	1
Chloroethane	ND		0.20	ug/L			12/04/24 16:52	1
Chloroform	ND		0.10	ug/L			12/04/24 16:52	1

Client: Hilcorp Energy Job ID: 885-16011-1

Project/Site: Hilcorp 0&M SV2

Client Sample ID: #41 A SVE01

Date Collected: 11/26/24 11:45

Date Received: 11/27/24 07:00 Sample Container: Tedlar Bag 1L

1,2-Dichloroethane-d4 (Surr)

4-Bromofluorobenzene (Surr)

Dibromofluoromethane (Surr)

Toluene-d8 (Surr)

Lab Sample ID: 885-16011-2

Matrix: Air

-

Analyte	Result Qualifier	RL	Unit	D Prepared	Analyzed	Dil Fac
Chloromethane	ND ND	0.30	ug/L		12/04/24 16:52	1
cis-1,2-Dichloroethene	ND	0.10	ug/L		12/04/24 16:52	1
cis-1,3-Dichloropropene	ND	0.10	ug/L		12/04/24 16:52	1
Dibromomethane	ND	0.10	ug/L		12/04/24 16:52	1
Dichlorodifluoromethane	ND	0.10	ug/L		12/04/24 16:52	1
Ethylbenzene	ND	0.10	ug/L		12/04/24 16:52	1
Hexachlorobutadiene	ND	0.10	ug/L		12/04/24 16:52	1
Isopropylbenzene	ND	0.10	ug/L		12/04/24 16:52	1
Methyl-tert-butyl Ether (MTBE)	ND	0.10	ug/L		12/04/24 16:52	1
Methylene Chloride	ND	0.30	ug/L		12/04/24 16:52	1
n-Butylbenzene	ND	0.30	ug/L		12/04/24 16:52	1
N-Propylbenzene	ND	0.10	ug/L		12/04/24 16:52	1
Naphthalene	ND	0.20	ug/L		12/04/24 16:52	1
sec-Butylbenzene	ND	0.10	ug/L		12/04/24 16:52	1
Styrene	ND	0.10	ug/L		12/04/24 16:52	1
tert-Butylbenzene	ND	0.10	ug/L		12/04/24 16:52	1
Tetrachloroethene (PCE)	ND	0.10	ug/L		12/04/24 16:52	1
Toluene	0.14	0.10	ug/L		12/04/24 16:52	1
trans-1,2-Dichloroethene	ND	0.10	ug/L		12/04/24 16:52	1
trans-1,3-Dichloropropene	ND	0.10	ug/L		12/04/24 16:52	1
Trichloroethene (TCE)	ND	0.10	ug/L		12/04/24 16:52	1
Trichlorofluoromethane	ND	0.10	ug/L		12/04/24 16:52	1
Vinyl chloride	ND	0.10	ug/L		12/04/24 16:52	1
Xylenes, Total	0.15	0.15	ug/L		12/04/24 16:52	1
Surrogate	%Recovery Qualifier	Limits		Prepared	Analyzed	Dil Fac

70 - 130

70 - 130

70 - 130

70 - 130

101

111

103

108

12/04/24 16:52

12/04/24 16:52

12/04/24 16:52

12/04/24 16:52

Client: Hilcorp Energy Job ID: 885-16011-1

Project/Site: Hilcorp 0&M SV2

Client Sample ID: 2C SVE01

Lab Sample ID: 885-16011-3 Date Collected: 11/26/24 13:05

Matrix: Air

Date Received: 11/27/24 07:00 Sample Container: Tedlar Bag 1L

Method: SW846 8015M/D	- Nonhalogenated	Organi	cs using	GC/MS	-Modified	(Gasoline	Range	Orgar	nics)
	_							_	_

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 -	7.4	5.0	ug/L			12/04/24 15:27	1

C10]

Surrogate	%Recovery	Qualifier	Limits	Prepared Analyzed	d Dil Fac
4-Bromofluorobenzene (Surr)	90		52 - 172	12/04/24 15	i:27 1

Analyte	Result Qualifier	RL	Unit	D Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND ND	0.10	ug/L		12/04/24 15:27	1
1,1,1-Trichloroethane	ND	0.10	ug/L		12/04/24 15:27	1
1,1,2,2-Tetrachloroethane	ND	0.20	ug/L		12/04/24 15:27	1
1,1,2-Trichloroethane	ND	0.10	ug/L		12/04/24 15:27	1
1,1-Dichloroethane	ND	0.10	ug/L		12/04/24 15:27	1
1,1-Dichloroethene	ND	0.10	ug/L		12/04/24 15:27	1
1,1-Dichloropropene	ND	0.10	ug/L		12/04/24 15:27	1
1,2,3-Trichlorobenzene	ND	0.10	ug/L		12/04/24 15:27	1
1,2,3-Trichloropropane	ND	0.20	ug/L		12/04/24 15:27	1
1,2,4-Trichlorobenzene	ND	0.10	ug/L		12/04/24 15:27	1
1,2,4-Trimethylbenzene	ND	0.10	ug/L		12/04/24 15:27	1
1,2-Dibromo-3-Chloropropane	ND	0.20	ug/L		12/04/24 15:27	1
1,2-Dibromoethane (EDB)	ND	0.10	ug/L		12/04/24 15:27	1
1,2-Dichlorobenzene	ND	0.10	ug/L		12/04/24 15:27	1
1,2-Dichloroethane (EDC)	ND	0.10	ug/L		12/04/24 15:27	1
1,2-Dichloropropane	ND	0.10	ug/L		12/04/24 15:27	1
1,3,5-Trimethylbenzene	ND	0.10	ug/L		12/04/24 15:27	1
1,3-Dichlorobenzene	ND	0.10	ug/L		12/04/24 15:27	1
1,3-Dichloropropane	ND	0.10	ug/L		12/04/24 15:27	1
1,4-Dichlorobenzene	ND	0.10	ug/L		12/04/24 15:27	1
1-Methylnaphthalene	ND	0.40	ug/L		12/04/24 15:27	1
2,2-Dichloropropane	ND	0.20	ug/L		12/04/24 15:27	1
2-Butanone	ND	1.0	ug/L		12/04/24 15:27	1
2-Chlorotoluene	ND	0.10	ug/L		12/04/24 15:27	1
2-Hexanone	ND	1.0	ug/L		12/04/24 15:27	1
2-Methylnaphthalene	ND	0.40	ug/L		12/04/24 15:27	1
4-Chlorotoluene	ND	0.10	ug/L		12/04/24 15:27	1
4-Isopropyltoluene	ND	0.10	ug/L		12/04/24 15:27	1
4-Methyl-2-pentanone	ND	1.0	ug/L		12/04/24 15:27	1
Acetone	ND	1.0	ug/L		12/04/24 15:27	1
Benzene	ND	0.10	ug/L		12/04/24 15:27	1
Bromobenzene	ND	0.10	ug/L		12/04/24 15:27	1
Bromodichloromethane	ND	0.10	ug/L		12/04/24 15:27	1
Dibromochloromethane	ND	0.10	ug/L		12/04/24 15:27	1
Bromoform	ND	0.10	ug/L		12/04/24 15:27	1
Bromomethane	ND	0.30	ug/L		12/04/24 15:27	1
Carbon disulfide	ND	1.0	ug/L		12/04/24 15:27	1
Carbon tetrachloride	ND	0.10	ug/L		12/04/24 15:27	1
Chlorobenzene	ND	0.10	ug/L		12/04/24 15:27	1
Chloroethane	ND	0.20	ug/L		12/04/24 15:27	1
Chloroform	ND	0.10	ug/L		12/04/24 15:27	1

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Released to Imaging: 1/16/2025 8:41:45 AM

Client: Hilcorp Energy Job ID: 885-16011-1

Project/Site: Hilcorp 0&M SV2

Client Sample ID: 2C SVE01

Lab Sample ID: 885-16011-3 Date Collected: 11/26/24 13:05

Matrix: Air

Date Received: 11/27/24 07:00 Sample Container: Tedlar Bag 1L

Method: SW846 8260B - Volatile				_	_		
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND	0.30	ug/L			12/04/24 15:27	1
cis-1,2-Dichloroethene	ND	0.10	ug/L			12/04/24 15:27	1
cis-1,3-Dichloropropene	ND	0.10	ug/L			12/04/24 15:27	1
Dibromomethane	ND	0.10	ug/L			12/04/24 15:27	1
Dichlorodifluoromethane	ND	0.10	ug/L			12/04/24 15:27	1
Ethylbenzene	ND	0.10	ug/L			12/04/24 15:27	1
Hexachlorobutadiene	ND	0.10	ug/L			12/04/24 15:27	1
Isopropylbenzene	ND	0.10	ug/L			12/04/24 15:27	1
Methyl-tert-butyl Ether (MTBE)	ND	0.10	ug/L			12/04/24 15:27	1
Methylene Chloride	ND	0.30	ug/L			12/04/24 15:27	1
n-Butylbenzene	ND	0.30	ug/L			12/04/24 15:27	1
N-Propylbenzene	ND	0.10	ug/L			12/04/24 15:27	1
Naphthalene	ND	0.20	ug/L			12/04/24 15:27	1
sec-Butylbenzene	ND	0.10	ug/L			12/04/24 15:27	1
Styrene	ND	0.10	ug/L			12/04/24 15:27	1
tert-Butylbenzene	ND	0.10	ug/L			12/04/24 15:27	1
Tetrachloroethene (PCE)	ND	0.10	ug/L			12/04/24 15:27	1
Toluene	0.12	0.10	ug/L			12/04/24 15:27	1
trans-1,2-Dichloroethene	ND	0.10	ug/L			12/04/24 15:27	1
trans-1,3-Dichloropropene	ND	0.10	ug/L			12/04/24 15:27	1
Trichloroethene (TCE)	ND	0.10	ug/L			12/04/24 15:27	1
Trichlorofluoromethane	ND	0.10	ug/L			12/04/24 15:27	1
Vinyl chloride	ND	0.10	ug/L			12/04/24 15:27	1
Xylenes, Total	0.18	0.15	ug/L			12/04/24 15:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		70 - 130		12/04/24 15:27	1
Toluene-d8 (Surr)	109		70 - 130		12/04/24 15:27	1
4-Bromofluorobenzene (Surr)	102		70 - 130		12/04/24 15:27	1
Dibromofluoromethane (Surr)	109		70 - 130		12/04/24 15:27	1

Client: Hilcorp Energy Job ID: 885-16011-1

Method: 8015M/D - Nonhalogenated Organics using GC/MS -Modified (Gasoline Range Organics)

Project/Site: Hilcorp 0&M SV2

Lab Sample ID: MB 885-16996/5 Client Sample ID: Method Blank Prep Type: Total/NA

Matrix: Air

Analysis Batch: 16996

	МВ	МВ						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0	ug/L			12/04/24 14:03	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		52 - 172		12/04/24 14:03	1

Lab Sample ID: LCS 885-16996/4 **Client Sample ID: Lab Control Sample** Matrix: Air Prep Type: Total/NA

Analysis Batch: 16996

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics [C6 -	500	495		ug/L		99	70 - 130	

C10]

LCS LCS Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 52 - 172 92

Lab Sample ID: 885-16011-1 DU Client Sample ID: Scott 4M SVE01 Prep Type: Total/NA

Matrix: Air

Analysis Batch: 16996

	Sample	Sample	DU	DU					RPD
Analyte	Result	Qualifier	Result	Qualifier	Unit	D		RPD	Limit
Gasoline Range Organics [C6 -	9.9		 10.7		ug/L		 	7	20
C10]									

DU DU Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 90 52 - 172

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

Released to Imaging: 1/16/2025 8:41:45 AM

Analysis Batch: 16998

Lab Sample ID: MB 885-16998/4	Client Sample ID: Method Blank
Matrix: Air	Prep Type: Total/NA
A 1 1 B 4 1 40000	

MB MB						
Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
ND ND	0.10	ug/L			12/04/24 14:03	1
ND	0.10	ug/L			12/04/24 14:03	1
ND	0.20	ug/L			12/04/24 14:03	1
ND	0.10	ug/L			12/04/24 14:03	1
ND	0.10	ug/L			12/04/24 14:03	1
ND	0.10	ug/L			12/04/24 14:03	1
ND	0.10	ug/L			12/04/24 14:03	1
ND	0.10	ug/L			12/04/24 14:03	1
ND	0.20	ug/L			12/04/24 14:03	1
ND	0.10	ug/L			12/04/24 14:03	1
ND	0.10	ug/L			12/04/24 14:03	1
ND	0.20	ug/L			12/04/24 14:03	1
ND	0.10	ug/L			12/04/24 14:03	1
ND	0.10	ug/L			12/04/24 14:03	1
	Result Qualifier ND ND ND ND ND ND ND ND ND N	Result Qualifier RL ND 0.10 ND 0.20 ND 0.10 ND 0.10 ND 0.10 ND 0.10 ND 0.10 ND 0.20 ND 0.10 ND 0.10 ND 0.10 ND 0.20 ND 0.20 ND 0.20 ND 0.20 ND 0.10	Result Qualifier RL Unit ND 0.10 ug/L ND 0.20 ug/L ND 0.10 ug/L ND 0.20 ug/L ND 0.10 ug/L ND 0.10 ug/L ND 0.20 ug/L ND 0.20 ug/L ND 0.20 ug/L ND 0.20 ug/L	Result Qualifier RL Unit D ND 0.10 ug/L ug/L ND 0.20 ug/L ND 0.10 ug/L ND 0.10 ug/L ND 0.10 ug/L ND 0.10 ug/L ND 0.20 ug/L ND 0.10 ug/L ND 0.10 ug/L ND 0.10 ug/L ND 0.20 ug/L ND 0.20 ug/L ND 0.20 ug/L ND 0.10 ug/L	Result Qualifier RL Unit D Prepared ND 0.10 ug/L Ug/L <t< td=""><td>Result Qualifier RL Unit D Prepared Analyzed ND 0.10 ug/L 12/04/24 14:03 ND 0.20 ug/L 12/04/24 14:03 ND 0.10 ug/L 12/04/24 14:03 ND 0.20 ug/L 12/04/24 14:03 ND 0.20 ug/L 12/04/24 14:03 ND 0.20 ug/L 12/04/24 14:03</td></t<>	Result Qualifier RL Unit D Prepared Analyzed ND 0.10 ug/L 12/04/24 14:03 ND 0.20 ug/L 12/04/24 14:03 ND 0.10 ug/L 12/04/24 14:03 ND 0.20 ug/L 12/04/24 14:03 ND 0.20 ug/L 12/04/24 14:03 ND 0.20 ug/L 12/04/24 14:03

Client: Hilcorp Energy Job ID: 885-16011-1

Project/Site: Hilcorp 0&M SV2

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

Lab Sample ID: MB 885-16998/4 Matrix: Air

Client Sample ID: Method Blank

Prep Type: Total/NA

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane (EDC)	ND		0.10	ug/L			12/04/24 14:03	1
1,2-Dichloropropane	ND		0.10	ug/L			12/04/24 14:03	1
1,3,5-Trimethylbenzene	ND		0.10	ug/L			12/04/24 14:03	1
1,3-Dichlorobenzene	ND		0.10	ug/L			12/04/24 14:03	1
1,3-Dichloropropane	ND		0.10	ug/L			12/04/24 14:03	4
1,4-Dichlorobenzene	ND		0.10	ug/L			12/04/24 14:03	1
1-Methylnaphthalene	ND		0.40	ug/L			12/04/24 14:03	1
2,2-Dichloropropane	ND		0.20	ug/L			12/04/24 14:03	1
2-Butanone	ND		1.0	ug/L			12/04/24 14:03	,
2-Chlorotoluene	ND		0.10	ug/L			12/04/24 14:03	,
2-Hexanone	ND		1.0	ug/L			12/04/24 14:03	
2-Methylnaphthalene	ND		0.40	ug/L			12/04/24 14:03	
4-Chlorotoluene	ND		0.10	ug/L			12/04/24 14:03	1
4-Isopropyltoluene	ND		0.10	ug/L			12/04/24 14:03	1
4-Methyl-2-pentanone	ND		1.0	ug/L			12/04/24 14:03	1
Acetone	ND		1.0	ug/L			12/04/24 14:03	1
Benzene	ND		0.10	ug/L			12/04/24 14:03	1
Bromobenzene	ND		0.10	ug/L			12/04/24 14:03	
Bromodichloromethane	ND		0.10	ug/L			12/04/24 14:03	
Dibromochloromethane	ND		0.10	ug/L			12/04/24 14:03	
Bromoform	ND		0.10	ug/L			12/04/24 14:03	
Bromomethane	ND		0.30	ug/L			12/04/24 14:03	
Carbon disulfide	ND		1.0	ug/L			12/04/24 14:03	
Carbon tetrachloride	ND		0.10	ug/L			12/04/24 14:03	
Chlorobenzene	ND		0.10	ug/L			12/04/24 14:03	1
Chloroethane	ND		0.20	ug/L			12/04/24 14:03	1
Chloroform	ND		0.10	ug/L			12/04/24 14:03	1
Chloromethane	ND		0.30	ug/L			12/04/24 14:03	
cis-1,2-Dichloroethene	ND		0.10	ug/L			12/04/24 14:03	
cis-1,3-Dichloropropene	ND		0.10	ug/L			12/04/24 14:03	
Dibromomethane	ND		0.10	ug/L			12/04/24 14:03	,
Dichlorodifluoromethane	ND		0.10	ug/L			12/04/24 14:03	
Ethylbenzene	ND		0.10	ug/L			12/04/24 14:03	,
Hexachlorobutadiene	ND		0.10	ug/L			12/04/24 14:03	
Isopropylbenzene	ND		0.10	ug/L			12/04/24 14:03	
Methyl-tert-butyl Ether (MTBE)	ND		0.10	ug/L			12/04/24 14:03	
Methylene Chloride	ND		0.30	ug/L			12/04/24 14:03	
n-Butylbenzene	ND		0.30	ug/L			12/04/24 14:03	
N-Propylbenzene	ND		0.10	ug/L			12/04/24 14:03	
Naphthalene	ND		0.20	ug/L			12/04/24 14:03	1
sec-Butylbenzene	ND		0.10	ug/L			12/04/24 14:03	
Styrene	ND		0.10	ug/L			12/04/24 14:03	,
tert-Butylbenzene	ND		0.10	ug/L			12/04/24 14:03	,
Tetrachloroethene (PCE)	ND		0.10	ug/L			12/04/24 14:03	
Toluene	ND		0.10	ug/L			12/04/24 14:03	,
trans-1,2-Dichloroethene	ND		0.10	ug/L ug/L			12/04/24 14:03	
trans-1,3-Dichloropropene	ND		0.10	ug/L ug/L			12/04/24 14:03	
Trichloroethene (TCE)	ND ND		0.10	ug/L ug/L			12/04/24 14:03	
Trichlorofluoromethane	ND		0.10	ug/L ug/L			12/04/24 14:03	1
THOMOTORIUGI OTHER I ALLE	טוו		0.10	ug/L			12/07/24 14.03	

Client: Hilcorp Energy

Project/Site: Hilcorp 0&M SV2

Job ID: 885-16011-1

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

MR MR

Lab Sample ID: MB 885-16998/4

Matrix: Air

Analysis Batch: 16998

Client Sample ID: Method Blank

Prep Type: Total/NA

Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
ND		0.10	ug/L			12/04/24 14:03	1
ND		0.15	ug/L			12/04/24 14:03	1
	Result ND	Result Qualifier ND	Result Qualifier RL ND 0.10	Result Qualifier RL Unit ND 0.10 ug/L	Result Qualifier RL Unit D ND 0.10 ug/L	Result Qualifier RL Unit D Prepared ND 0.10 ug/L	Result Qualifier RL Unit D Prepared Analyzed ND 0.10 ug/L 12/04/24 14:03

MB MB Qualifier Limits Surrogate %Recovery Prepared Analyzed Dil Fac 12/04/24 14:03 1,2-Dichloroethane-d4 (Surr) 103 70 - 130 Toluene-d8 (Surr) 70 - 130 12/04/24 14:03 110 4-Bromofluorobenzene (Surr) 70 - 130 12/04/24 14:03 101 Dibromofluoromethane (Surr) 105 70 - 130 12/04/24 14:03

Lab Sample ID: LCS 885-16998/3

Matrix: Air

Analysis Batch: 16998

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,1-Dichloroethene	20.1	20.2		ug/L		100	70 - 130	
Benzene	20.1	21.6		ug/L		108	70 - 130	
Chlorobenzene	20.1	21.0		ug/L		105	70 - 130	
Toluene	20.2	20.7		ug/L		103	70 - 130	
Trichloroethene (TCE)	20.2	19.4		ug/L		96	70 - 130	

LCS LCS %Recovery Qualifier Limits Surrogate 70 - 130 1,2-Dichloroethane-d4 (Surr) 104 Toluene-d8 (Surr) 108 70 - 130 4-Bromofluorobenzene (Surr) 97 70 - 130 Dibromofluoromethane (Surr) 109 70 - 130

Lab Sample ID: 885-16011-1 DU

Released to Imaging: 1/16/2025 8:41:45 AM

Matrix: Air

Analysis Batch: 16998

Client Sample ID: Scott 4M SVE01 Prep Type: Total/NA

Alialysis Dalcii. 10330								
	Sample	Sample	DU	DU				RPD
Analyte	Result	Qualifier	Result	Qualifier	Unit	D	RPD	Limit
1,1,1,2-Tetrachloroethane	ND		ND		ug/L		NC NC	20
1,1,1-Trichloroethane	ND		ND		ug/L		NC	20
1,1,2,2-Tetrachloroethane	ND		ND		ug/L		NC	20
1,1,2-Trichloroethane	ND		ND		ug/L		NC	20
1,1-Dichloroethane	ND		ND		ug/L		NC	20
1,1-Dichloroethene	ND		ND		ug/L		NC	20
1,1-Dichloropropene	ND		ND		ug/L		NC	20
1,2,3-Trichlorobenzene	ND		ND		ug/L		NC	20
1,2,3-Trichloropropane	ND		ND		ug/L		NC	20
1,2,4-Trichlorobenzene	ND		ND		ug/L		NC	20
1,2,4-Trimethylbenzene	ND		ND		ug/L		NC	20
1,2-Dibromo-3-Chloropropane	ND		ND		ug/L		NC	20
1,2-Dibromoethane (EDB)	ND		ND		ug/L		NC	20
1,2-Dichlorobenzene	ND		ND		ug/L		NC	20
1,2-Dichloroethane (EDC)	ND		ND		ug/L		NC	20
1,2-Dichloropropane	ND		ND		ug/L		NC	20
1,3,5-Trimethylbenzene	ND		ND		ug/L		NC	20

Job ID: 885-16011-1 Client: Hilcorp Energy

DU DU

ND

ND

ug/L

ug/L

Project/Site: Hilcorp 0&M SV2

Lab Sample ID: 885-16011-1 DU

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

Sample Sample

ND

ND

NΠ

ND

ND

ND

0.38

Matrix: Air

Benzene

Bromobenzene

trans-1,3-Dichloropropene

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Trichloroethene (TCE)

Trichlorofluoromethane

Vinyl chloride

Xylenes, Total

Analysis Batch: 16998

Client Sample ID: Scott 4M SVE01

Prep Type: Total/NA

	. 7			
			RPD	
	DD	n	Limit	

Result Qualifier Result Qualifier Unit Analyte ND ND 20 1,3-Dichlorobenzene ug/L NC 1,3-Dichloropropane ND ND ug/L NC 20 ND ND 1,4-Dichlorobenzene ug/L NC 20 1-Methylnaphthalene ND ND ug/L NC 20 ND ND ug/L NC 20 2,2-Dichloropropane 2-Butanone ND ND ug/L NC 20 ND ND ug/L NC 20 2-Chlorotoluene 2-Hexanone ND ND ug/L NC 20 ug/L 2-Methylnaphthalene ND ND NC 20 4-Chlorotoluene ND ND ug/L NC 20 4-Isopropyltoluene ND ND ug/L NC 20 ND 4-Methyl-2-pentanone ND ug/L NC 20 ND Acetone ND ug/L NC 20

20

20

20

NC

NC

6

ND Bromodichloromethane NΠ ug/L NC 20 Dibromochloromethane ND ND ug/L NC 20 ND ND Bromoform NC 20 ug/L Bromomethane ND ND ug/L NC Carbon disulfide ND ND ug/L NC 20 Carbon tetrachloride ND ND ug/L NC 20 Chlorobenzene ND ND ug/L NC 20 Chloroethane ND ND ug/L NC 20 ND Chloroform ND ug/L NC 20 ND Chloromethane ND ug/L NC 20 ND ND cis-1,2-Dichloroethene ug/L NC 20 ND ND ug/L NC

cis-1,3-Dichloropropene 20 Dibromomethane ND ND ug/L NC 20 Dichlorodifluoromethane ND ND ug/L 20 NC Ethylbenzene ND ND ug/L NC 20 ND ND NC Hexachlorobutadiene ug/L 20 Isopropylbenzene ND ND ug/L NC 20 ND Methyl-tert-butyl Ether (MTBE) ND ug/L NC 20 Methylene Chloride ND ND ug/L NC 20 ug/L n-Butylbenzene ND ND NC 20 N-Propylbenzene ND ND ug/L NC 20 Naphthalene ND ND ug/L NC 20 ND ND ug/L NC sec-Butylbenzene 20 ND ND Styrene ug/L NC 20 ND ND ug/L NC tert-Butylbenzene 20 Tetrachloroethene (PCE) ND ND ug/L NC 20 Toluene 0.11 0.105 ug/L 0.2 20 trans-1,2-Dichloroethene ND ND ug/L NC 20

Eurofins Albuquerque

NC.

NC

NC

NC

0

20

20

20

20

20

NΠ

ND

ND

ND

0.380

ug/L

ug/L

ug/L

ug/L

ug/L

Limits

70 - 130

70 - 130

70 - 130

70 - 130

Client: Hilcorp Energy Job ID: 885-16011-1 Project/Site: Hilcorp 0&M SV2

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

DU DU %Recovery Qualifier

97

110

102

108

Lab Sample ID: 885-16011-1 DU

Matrix: Air

Surrogate

Toluene-d8 (Surr)

Analysis Batch: 16998

1,2-Dichloroethane-d4 (Surr)

4-Bromofluorobenzene (Surr) Dibromofluoromethane (Surr)

Client Sample ID: Scott 4M SVE01
Prep Type: Total/NA

QC Association Summary

Client: Hilcorp Energy Job ID: 885-16011-1

Project/Site: Hilcorp 0&M SV2

GC/MS VOA

Analysis Batch: 16996

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-16011-1	Scott 4M SVE01	Total/NA	Air	8015M/D	
885-16011-2	#41 A SVE01	Total/NA	Air	8015M/D	
885-16011-3	2C SVE01	Total/NA	Air	8015M/D	
MB 885-16996/5	Method Blank	Total/NA	Air	8015M/D	
LCS 885-16996/4	Lab Control Sample	Total/NA	Air	8015M/D	
885-16011-1 DU	Scott 4M SVE01	Total/NA	Air	8015M/D	

Analysis Batch: 16998

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-16011-1	Scott 4M SVE01	Total/NA	Air	8260B	
885-16011-2	#41 A SVE01	Total/NA	Air	8260B	
885-16011-3	2C SVE01	Total/NA	Air	8260B	
MB 885-16998/4	Method Blank	Total/NA	Air	8260B	
LCS 885-16998/3	Lab Control Sample	Total/NA	Air	8260B	
885-16011-1 DU	Scott 4M SVE01	Total/NA	Air	8260B	

Client: Hilcorp Energy

Project/Site: Hilcorp 0&M SV2

Lab Sample ID: 885-16011-1

Matrix: Air

Job ID: 885-16011-1

Client Sample ID: Scott 4M SVE01 Date Collected: 11/26/24 10:20

Date Received: 11/27/24 07:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8015M/D		1	16996	RA	EET ALB	12/04/24 15:56
Total/NA	Analysis	8260B		1	16998	RA	EET ALB	12/04/24 15:56

Lab Sample ID: 885-16011-2 Client Sample ID: #41 A SVE01

Date Collected: 11/26/24 11:45 Matrix: Air

Date Received: 11/27/24 07:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8015M/D		1	16996	RA	EET ALB	12/04/24 16:52
Total/NA	Analysis	8260B		1	16998	RA	EET ALB	12/04/24 16:52

Client Sample ID: 2C SVE01 Lab Sample ID: 885-16011-3

Date Collected: 11/26/24 13:05 Matrix: Air

Date Received: 11/27/24 07:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8015M/D		1	16996	RA	EET ALB	12/04/24 15:27
Total/NA	Analysis	8260B		1	16998	RA	EET ALB	12/04/24 15:27

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

Accreditation/Certification Summary

Client: Hilcorp Energy Job ID: 885-16011-1

Project/Site: Hilcorp 0&M SV2

Laboratory: Eurofins Albuquerque

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

Authority	Program	Identification Number	Expiration Date
New Mexico	State	NM9425, NM0901	02-26-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes

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
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

Eurofins Albuquerque

Accreditation/Certification Summary

Client: Hilcorp Energy

Job ID: 885-16011-1

Project/Site: Hilcorp 0&M SV2

Laboratory: Eurofins Albuquerque (Continued)

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

Authority	Progr	am	Identification Number	Expiration Date
• •	•	ut the laboratory is not certif	ried by the governing authority. This	list may include analytes
,	oes not offer certification.	Na deire	A 1. d-	
Analysis Method	Prep Method	Matrix Air	Analyte Dibromomethane	
8260B			Dibromomethane Dichlorodifluoromethane	
8260B		Air		
8260B		Air	Ethylbenzene	
8260B		Air	Hexachlorobutadiene	
8260B		Air	Isopropylbenzene	
8260B		Air	Methylene Chloride	
8260B		Air	Methyl-tert-butyl Ether (N	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-Dichloroproper	ne
8260B		Air	Trichloroethene (TCE)	
8260B		Air	Trichlorofluoromethane	
8260B		Air	Vinyl chloride	
8260B		Air	Xylenes, Total	
Oregon	NELA	P	NM100001	02-26-25

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

Eurofins Albuquerque

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Accreditation/Certification Summary

Client: Hilcorp Energy Job ID: 885-16011-1

Project/Site: Hilcorp 0&M SV2

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
The following analytes are i		ut the laboratory is not certif	ied by the governing authority. This list may include a	analyte
Analysis Method	Prep Method	Matrix	Analyte	
8260B	_ Top Moulou	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	
8260B		Air	Vinyl chloride	
8260B		Air	Xylenes, Total	

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ANALYTICAL SUMMARY REPORT

December 05, 2024

Hall Environmental 4901 Hawkins St NE Ste D Albuquerque, NM 87109-4372

Work Order: B24120141 Quote ID: B15626

Project Name: 88501698, Hilcorp 0&M SV2

Energy Laboratories Inc Billings MT received the following 3 samples for Hall Environmental on 12/3/2024 for analysis.

Lab ID	Client Sample ID	Collect Date R	leceive Date	Matri x	Test
B24120141-001	Scott 4M SVE01 (885- 16011-1)	11/26/24 10:20	12/03/24	Air	Air Correction Calculations Appearance and Comments Calculated Properties GPM @ std cond,/1000 cu. ft., moist. Free Natural Gas Analysis Specific Gravity @ 60/60
B24120141-002	#41 A SVE01 (885- 16011-2)	11/26/24 11:45	12/03/24	Air	Same As Above
B24120141-003	2C SVE01 (885-16011- 3)	11/26/24 13:05	12/03/24	Air	Same As Above

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.

Report Date: 12/05/24

DateReceived: 12/03/24

Matrix: Air

Collection Date: 11/26/24 10:20

LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client: Hall Environmental Project: 88501698, Hilcorp 0&M SV2

Lab ID: B24120141-001

Client Sample ID: Scott 4M SVE01 (885-16011-1)

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
CAS CUDOMATOCDADUV ANALYS	CIC DEDODT						
GAS CHROMATOGRAPHY ANALYS Oxygen		Mol %		0.01		GPA 2261-13	12/04/24 09:56 / jrj
Nitrogen		Mol %		0.01		GPA 2261-13	12/04/24 09:56 / jrj
Carbon Dioxide		Mol %		0.01		GPA 2261-13	12/04/24 09:56 / jrj
Hydrogen Sulfide		Mol %		0.01		GPA 2261-13	12/04/24 09:56 / jrj
Methane		Mol %		0.01		GPA 2261-13	12/04/24 09:56 / jrj
Ethane		Mol %		0.01		GPA 2261-13	12/04/24 09:56 / jrj
Propane		Mol %		0.01		GPA 2261-13	12/04/24 09:56 / jrj
Isobutane		Mol %		0.01		GPA 2261-13	12/04/24 09:56 / jrj
n-Butane		Mol %		0.01		GPA 2261-13	12/04/24 09:56 / jrj
Isopentane		Mol %		0.01		GPA 2261-13	12/04/24 09:56 / jrj
n-Pentane		Mol %		0.01		GPA 2261-13	12/04/24 09:56 / jrj
Hexanes plus		Mol %		0.01		GPA 2261-13	12/04/24 09:56 / jrj
Propane	< 0.001	gpm		0.001		GPA 2261-13	12/04/24 09:56 / jrj
Isobutane	< 0.001			0.001		GPA 2261-13	12/04/24 09:56 / jrj
n-Butane	< 0.001	gpm		0.001		GPA 2261-13	12/04/24 09:56 / jrj
Isopentane	< 0.001	gpm		0.001		GPA 2261-13	12/04/24 09:56 / jrj
n-Pentane	< 0.001	gpm		0.001		GPA 2261-13	12/04/24 09:56 / jrj
Hexanes plus	< 0.001	gpm		0.001		GPA 2261-13	12/04/24 09:56 / jrj
GPM Total	< 0.001	gpm		0.001		GPA 2261-13	12/04/24 09:56 / jrj
GPM Pentanes plus	< 0.001	gpm		0.001		GPA 2261-13	12/04/24 09:56 / jrj
CALCULATED PROPERTIES							
Gross BTU per cu ft @ Std Cond. (HHV)	ND			1		GPA 2261-13	12/04/24 09:56 / jrj
Net BTU per cu ft @ std cond. (LHV)	ND			1		GPA 2261-13	12/04/24 09:56 / jrj
Pseudo-critical Pressure, psia	544			1		GPA 2261-13	12/04/24 09:56 / jrj
Pseudo-critical Temperature, deg R	239			1		GPA 2261-13	12/04/24 09:56 / jrj
Specific Gravity @ 60/60F	0.997			0.001		D3588-81	12/04/24 09:56 / jrj
Air, % - The analysis was not corrected for air.	98.02			0.01		GPA 2261-13	12/04/24 09:56 / jrj

12/04/24 09:56 / 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

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

MCL - Maximum Contaminant Level

ND - Not detected at the Reporting Limit (RL)

LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client: Hall Environmental

Project: 88501698, Hilcorp 0&M SV2

Lab ID: B24120141-002

Client Sample ID: #41 A SVE01 (885-16011-2)

Report Date: 12/05/24 Collection Date: 11/26/24 11:45 DateReceived: 12/03/24

Matrix: Air

12/04/24 10:45 / jrj

Acchiece	D If	11-26-	0	ъ.	MCL/	Made	Analysis Bata (Ba
Analyses	Result	Units	Qualifiers	RL	QCL	Method	Analysis Date / By
GAS CHROMATOGRAPHY ANALYSIS	REPORT						
Oxygen	21.07	Mol %		0.01		GPA 2261-13	12/04/24 10:45 / jrj
Nitrogen	78.70	Mol %		0.01		GPA 2261-13	12/04/24 10:45 / jrj
Carbon Dioxide	0.22	Mol %		0.01		GPA 2261-13	12/04/24 10:45 / jrj
Hydrogen Sulfide	<0.01	Mol %		0.01		GPA 2261-13	12/04/24 10:45 / jrj
Methane	<0.01	Mol %		0.01		GPA 2261-13	12/04/24 10:45 / jrj
Ethane	<0.01	Mol %		0.01		GPA 2261-13	12/04/24 10:45 / jrj
Propane	<0.01	Mol %		0.01		GPA 2261-13	12/04/24 10:45 / jrj
Isobutane	<0.01	Mol %		0.01		GPA 2261-13	12/04/24 10:45 / jrj
n-Butane	<0.01	Mol %		0.01		GPA 2261-13	12/04/24 10:45 / jrj
Isopentane	<0.01	Mol %		0.01		GPA 2261-13	12/04/24 10:45 / jrj
n-Pentane	<0.01	Mol %		0.01		GPA 2261-13	12/04/24 10:45 / jrj
Hexanes plus	0.01	Mol %		0.01		GPA 2261-13	12/04/24 10:45 / jrj
Propane	< 0.001	gpm		0.001		GPA 2261-13	12/04/24 10:45 / jrj
Isobutane	< 0.001	gpm		0.001		GPA 2261-13	12/04/24 10:45 / jrj
n-Butane	< 0.001	gpm		0.001		GPA 2261-13	12/04/24 10:45 / jrj
Isopentane	< 0.001	gpm		0.001		GPA 2261-13	12/04/24 10:45 / jrj
n-Pentane	< 0.001	gpm		0.001		GPA 2261-13	12/04/24 10:45 / jrj
Hexanes plus	0.004	gpm		0.001		GPA 2261-13	12/04/24 10:45 / jrj
GPM Total	0.004	gpm		0.001		GPA 2261-13	12/04/24 10:45 / jrj
GPM Pentanes plus	0.004	gpm		0.001		GPA 2261-13	12/04/24 10:45 / jrj
CALCULATED PROPERTIES							
Gross BTU per cu ft @ Std Cond. (HHV)	ND			1		GPA 2261-13	12/04/24 10:45 / jrj
Net BTU per cu ft @ std cond. (LHV)	ND			1		GPA 2261-13	12/04/24 10:45 / jrj
Pseudo-critical Pressure, psia	544			1		GPA 2261-13	12/04/24 10:45 / jrj
Pseudo-critical Temperature, deg R	239			1		GPA 2261-13	12/04/24 10:45 / jrj
Specific Gravity @ 60/60F	0.998			0.001		D3588-81	12/04/24 10:45 / jrj
Air, %	96.26			0.01		GPA 2261-13	12/04/24 10:45 / jrj
- The analysis was not corrected for air.							

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

Report RL - Analyte Reporting Limit MCL - Maximum Contaminant Level

Definitions: QCL - Quality Control Limit ND - Not detected at the Reporting Limit (RL)

COMMENTS

⁻ 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 Date: 12/05/24

DateReceived: 12/03/24

Matrix: Air

Collection Date: 11/26/24 13:05

LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client: Hall Environmental Project: 88501698, Hilcorp 0&M SV2

Lab ID: B24120141-003

Client Sample ID: 2C SVE01 (885-16011-3)

					MCL/		
Analyses	Result	Units	Qualifiers	RL	QCL	Method	Analysis Date / By
GAS CHROMATOGRAPHY ANALYSIS R	EPORT						
Oxygen		Mol %		0.01		GPA 2261-13	12/04/24 11:34 / jrj
Nitrogen	78.46	Mol %		0.01		GPA 2261-13	12/04/24 11:34 / jrj
Carbon Dioxide	0.24	Mol %		0.01		GPA 2261-13	12/04/24 11:34 / jrj
Hydrogen Sulfide	<0.01	Mol %		0.01		GPA 2261-13	12/04/24 11:34 / jrj
Methane	<0.01	Mol %		0.01		GPA 2261-13	12/04/24 11:34 / jrj
Ethane	<0.01	Mol %		0.01		GPA 2261-13	12/04/24 11:34 / jrj
Propane	<0.01	Mol %		0.01		GPA 2261-13	12/04/24 11:34 / jrj
Isobutane	<0.01	Mol %		0.01		GPA 2261-13	12/04/24 11:34 / jrj
n-Butane	<0.01	Mol %		0.01		GPA 2261-13	12/04/24 11:34 / jrj
Isopentane	<0.01	Mol %		0.01		GPA 2261-13	12/04/24 11:34 / jrj
n-Pentane	<0.01	Mol %		0.01		GPA 2261-13	12/04/24 11:34 / jrj
Hexanes plus	0.01	Mol %		0.01		GPA 2261-13	12/04/24 11:34 / jrj
Propane	< 0.001	gpm		0.001		GPA 2261-13	12/04/24 11:34 / jrj
Isobutane	< 0.001	gpm		0.001		GPA 2261-13	12/04/24 11:34 / jrj
n-Butane	< 0.001	gpm		0.001		GPA 2261-13	12/04/24 11:34 / jrj
Isopentane	< 0.001	gpm		0.001		GPA 2261-13	12/04/24 11:34 / jrj
n-Pentane	< 0.001	gpm		0.001		GPA 2261-13	12/04/24 11:34 / jrj
Hexanes plus	0.004	gpm		0.001		GPA 2261-13	12/04/24 11:34 / jrj
GPM Total	0.004	gpm		0.001		GPA 2261-13	12/04/24 11:34 / jrj
GPM Pentanes plus	0.004	gpm		0.001		GPA 2261-13	12/04/24 11:34 / jrj
CALCULATED PROPERTIES							
Gross BTU per cu ft @ Std Cond. (HHV)	ND			1		GPA 2261-13	12/04/24 11:34 / jrj
Net BTU per cu ft @ std cond. (LHV)	ND			1		GPA 2261-13	12/04/24 11:34 / jrj
Pseudo-critical Pressure, psia	545			1		GPA 2261-13	12/04/24 11:34 / jrj
Pseudo-critical Temperature, deg R	239			1		GPA 2261-13	12/04/24 11:34 / jrj
Specific Gravity @ 60/60F	0.998			0.001		D3588-81	12/04/24 11:34 / jrj
Air, %	97.28			0.01		GPA 2261-13	12/04/24 11:34 / jrj
- The analysis was not corrected for air.							
COMMENTS							

- 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

RL - Analyte Reporting Limit MCL - Maximum Contaminant Level Report

Definitions: QCL - Quality Control Limit ND - Not detected at the Reporting Limit (RL)

12/04/24 11:34 / jrj

Trust our People. Trust our Data.

1.01

0.80

Mol %

Mol %

www.energylab.com



QA/QC Summary Report

Prepared by Billings, MT Branch

Work C	Order: B24120141						Repo	rt Date:	12/05/24		
Analyte		Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method:	GPA 2261-13									Batch:	R433466
Lab ID:	B24120141-003ADUP	12 Sa	mple Duplic	ate			Run: GCNC	GA-B_241204A		12/04	/24 12:23
Oxygen			21.5	Mol %	0.01				1.0	20	
Nitrogen			78.3	Mol %	0.01				0.3	20	
Carbon D	ioxide		0.23	Mol %	0.01				4.3	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	•		<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				0.0	20	
Lab ID:	LCS120424	11 La	boratory Co	ntrol Sample			Run: GCNG	SA-B_241204A		12/04	/24 02:04
Oxygen			0.62	Mol %	0.01	124	70	130			
Nitrogen			6.28	Mol %	0.01	105	70	130			
Carbon D	ioxide		0.98	Mol %	0.01	99	70	130			
Methane			74.5	Mol %	0.01	100	70	130			
Ethane			6.03	Mol %	0.01	100	70	130			
Propane			5.05	Mol %	0.01	102	70	130			
Isobutane	•		1.62	Mol %	0.01	81	70	130			
n-Butane			1.99	Mol %	0.01	99	70	130			
Isopentan	ie		1.08	Mol %	0.01	108	70	130			

0.01

0.01

101

100

70

70

130

130

Qualifiers:

n-Pentane

Hexanes plus

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)

Work Order Receipt Checklist

Hall Environmental

Login completed by: Crystal M. Jones Date Received: 12/3/2024 Reviewed by: Received by: KLP lleprowse Reviewed Date: 12/4/2024 Carrier name: FedEx NDA Shipping container/cooler in good condition? Yes √ No 🗌 Not Present Custody seals intact on all shipping container(s)/cooler(s)? Yes √ No 🗌 Not Present Custody seals intact on all sample bottles? Not Present ✓ Yes No 🗌 Chain of custody present? Yes √ No 🗌 Chain of custody signed when 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 holding time? Yes ✓ No □ (Exclude analyses that are considered field parameters such as pH, DO, Res CI, Sulfite, Ferrous Iron, etc.) Temp Blank received in all shipping container(s)/cooler(s)? Not Applicable Yes No √ 12.1°C No Ice Container/Temp Blank temperature: Containers requiring zero headspace have no headspace or Yes 🗌 No 🔲 No VOA vials submitted $\overline{\mathsf{V}}$ bubble that is <6mm (1/4"). Water - pH acceptable upon receipt? Yes 🗌 No 🗌 Not Applicable $\sqrt{}$

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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B24120141

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Laboratory Certifications and Accreditations

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

	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
AMSI National Ascenditation Board	Nebraska	NE-OS-13-04
TESTING LAEDRIATORY	Nevada	NV-C24-00250
acce.	North Dakota	R-007
	National Radon Proficiency	109383-RMP
TNI	Oregon	4184
CORATOR	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
asper, WY	Montana	CERTO002
De ACCESON	Nebraska	NE-OS-08-04
	Nevada	NV-C24-00245
YASOMATON!	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
lelena, MT	Montana	CERT0079
Carrier Control	Nevada	NV-C24-00119
	US EPA Region VIII	Reciprocal
	USDA Soil Permit	P330-20-00090

Eurofins Albuquerque

4901 Hawkins NE

Albuquerque, NM 87109

Chain of Custody Record



eurofins

Environment Testing

Received by OCD: 1/9/2025 8:32:27 AM

ent Contact:		nation (Sub Contract Lab) Sampler: N/A						Lab PM: Garcia, Michelle						COC No: 885-2969.1					
nipping/Receiving	Phone: N/A			E-M		: Stat					e of Origin			Page:					
mpany:				Time	Accre	ditations	Required	See note):	_	w iviexio	J		Page 1 of 1					
nergy Laboratories, Inc.	Due Date Request	ad.			NEL	AP - O	regon; S	ate - Ne	w Mexic	00				885-16011-1					
20 South 27th Street,	12/6/2024				Analysis F						sted			Preservation C	odes:				
y: lings	TAT Requested (d	TAT Requested (days): N/A																	
tte, Zip: Γ, 59101											П	11							
one: 6-252-6325(Tel)	PO #: N/A								Ш		И								
ail: A	WO #:				e (Yes or No	8			1										
ject Name:	N/A Project #:				Se Z	Gase			11					S E					
corp 0&M SV2	88501698					pex (
e: A	ssow#: N/A				Samp	ses)/ Fixed Gases													
		Sample	Sample Type (C=comp,	Matrix (W=water, S=solid, O=waste/oll,	riom MS/W	SUB (Fixed Gas													
mple Identification - Client ID (Lab ID)	Sample Date	Time		BT=Tissue, A=Air		. Is								Special	Instructions/Note				
ott 4M SVE01 (885-16011-1)	44/90/04	10:20		tion Code:	Y								1 2	See Attached In	structions				
	11/26/24	Mountain	G	Air		X						4 7							
1 A SVE01 (885-16011-2)	11/26/24	11:45 Mountain	G	Air		Х								See Attached In	structions				
SVE01 (885-16011-3)	11/26/24	13:05 Mountain	G	Air		х								See Attached In	structions				
					H									B2412	0141				
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e: Since laboratory accreditations are subject to change, Eurofins Ei ratory does not currently maintain accreditation in the State of Origi reditation status should be brought to Eurofins Environment Testing																			
ssible Hazard Identification					Sa	mple	Disposa	(A fee	may be	asses	sed if s	amples a	re retair	ed longer than	month)				
confirmed	D-1 D "						turn To (Dispos	sal By La	ab	□ Arci	nive For	Months				
iverable Requested: I, II, III, IV, Other (specify)	Primary Delivera	ible Rank: 2			Sp	ecial I	nstruction	s/QC R	equirem	ents:									
oty Kit Relinguished by:		Date:			Time:						Method o	f Shipment:							
equished by the Malytr	Date/Time: 126/24	1	325	Company			ved by:					Date/Time	0 :		Company				
quished by:	Date/Time: (Company		Recei	ved by:					Date/Time	e:		Company				
nquished by:	Date/Time:		C	Company		Receiv	ved by	les	120	K		Date/Time	-03-2	1/00	Company EC				

Ver: 10/10/2024





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Method Comments
Fixed Gases
   Preservative
None
                                                                       Method Description
SUB (Fixed Gases)/ Fixed Gases
                                                       Subcontract Method Instructions
Sample IDs Method Method
1, 2, 3 SUBCONTRACT SUB (
                                                                      Method
SUBCONTRACT
Container Type
Tedlar Bag 1L
Count
3
```

ICOC No: 885-2969 Containers

me		Container Type and #	Preservative Type	HEAL No.	ВТЕХ	TPH:8	8081 F	EDB (I	PAHs	RCRA	CI, F,	8260 (8270 (Total (Fixe					
(4	SVEOI	2, Teldar				X						X			λ					
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	SVEDI	2. Teldar				X						8			メ					
																				
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		Received by.	Via: counce	Date Time 7200 11/27/24																
nmer	ntal pray be subo	contracted to other a	ccredited laboratori	es This serves as notice of th	is poss	ibility	Any s	ub-cor	ntracte	d data	will be	clear	ly nota	ted or	the a	nalytic	al repo	ort		
					7	=			9	00				O						

Client: Hilcorp Atta: Motch Killing Address:	Turn-Around Time: Standard	HALL ENVIRONMEN ANALYSIS LABORA www.hallenvironmental.com 4901 Hawkins NE - Albuquerque, NM 87109 Tel. 505-345-3975 Fax 505-345-4107 Analysis Request
email or Fax#: Mklbv-cqh @ hilcorp.com QA/QC Package: Standard	Project Manager: Street Hyde Sampler: Acar Lame man On Ice: Yes No mose # of Coolers: Cooler Temp(Including CF): 11.7+0=11.7 (°C) Container Type and # Type 2. Teldar 2. Teldar 2. Teldar 2. Teldar	BTEX / MTBE / TMB's (8021)
Date. Time Relinquished by:	Received by. Via: Paurice Date Time	Remarks: S possibility Any sub-contracted data will be clearly notated on the analytical report

Login Sample Receipt Checklist

Client: Hilcorp Energy Job Number: 885-16011-1

Login Number: 16011 List Source: Eurofins Albuquerque

List Number: 1

Creator: Casarrubias, Tracy

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

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

General Information Phone: (505) 629-6116

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

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

CONDITIONS

Action 418855

CONDITIONS

Operator:	OGRID:
HILCORP ENERGY COMPANY	372171
1111 Travis Street	Action Number:
Houston, TX 77002	418855
	Action Type:
	[REPORT] Alternative Remediation Report (C-141AR)

CONDITIONS

Created By		Condition Date
nvelez	SVE reviewed - 1. Continue O&M & sampling as stated in report. 2. Submit next quarterly report by April 15, 2025.	1/16/2025