



ENSOLUM

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

October 14, 2024

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

Re: Third 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 *Third 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 July, August, and September 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.

THIRD QUARTER 2024 ACTIVITIES

During the third 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. Prior to June 13, 2024, vacuum was applied to SVE wells SVE01 through SVE05 in order to induce flow in impacted soil zones. On June 13, 2024, the valves for SVE03 and SVE04 were closed in order to focus extraction on the remaining SVE wells with higher PID readings. Between June 13, 2024

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

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and September 18, 2024, the SVE system operated for 2,326.6 hours for a runtime efficiency of 100 percent (%). Photographs of the runtime meter for calculating the third quarter runtime efficiency are presented as Appendix B. The SVE system operational hours and calculated percent runtime are presented in Table 1.

A third quarter 2024 vapor sample was collected on September 18, 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 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. 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, 8,746 pounds (4.4 tons) of TVPH have been removed by the system to date. Of note, after further evaluation, it was determined that the flow rate recorded on the rotameter for the March 4, 2024 field event and used in Table 3 was anomalously high as compared to other flow rates. The flow rate has been recalculated using the velocity obtained with a thermal anemometer on the same date and the total mass removal rates have been revised in the table.

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 shyde@ensolum.com

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



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

Attachments:

Figure 1	Site Location
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
Annendix A	Field Notes

Appendix A Field Notes

- Appendix B Project Photographs
- Appendix C Laboratory Analytical Reports

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Figures

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Tables

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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
6/13/2024	21,288			
9/18/2024	23,615	2,326.6	97.0	100%

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TABLE 2 SOIL VAPOR EXTRACTION SYSTEM EMISSIONS ANALYTICAL RESULTS Scott 4M 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 Diox (%)								
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%

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

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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		
Average	195	30	224	27	267	13,333		

Vapor Extraction Summary

Date	Flow Rate (cfm)	Total System Flow (cf)	Delta Flow (cf)	Benzene (Ib/hr)	Toluene (Ib/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	
	Average 0.0016 0.010 0.0011 0.012 0.59								

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
	Total Mass	Recovery to Date	21	151	18	205	8,746	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 µg/L: micrograms per liter

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

SCOTT 4M SVE SYSTEM BIWEEKLY 0&M FORM DATE: Z-1 O&M PERSONNEL: B. Sinclair TIME ONSITE: Orgen Personnel: SVE SYSTEM Nonth Timer Setting SVE SYSTEM READING SVE SYSTEM READING Blower Hours (ikke photo) 2.19.59S SVE SYSTEM READING March 3 AM to 7 PM Voltage In Perturary Amperage In Perturary March 3 AM to 7 PM Voltage Out March 3 AM to 7 PM KiloWatts May 7 AM to 9 PM KiloWatts June 6 AM to 9 PM KiloWatts July 6 AM to 9 PM Solar Controller Status July 6 AM to 9 PM		UMMRBRSAI	LAR "			
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August 7 AM to 9 PM		The second se		6 AM to 9 PM		
	60	-	August	7 AM to 9 PM		
October 8 AM to 8 PM	Inlet Rotameter Flow (scfm) 38 Inlet PID 713	2	September October	8 AM to 9 PM		

Exhaust PID	November	
Solar Panel Angle	December	9 AM to 8 PM
K/O Tank Drum Level	December	8 AM to 6 PM
K/O Liquid Drained (gallons)	the second se	
Timer Setting		

Selections and the selection of the selection of the	SVE SYSTEM - QUARTERLY SAMPLING	
SAMPLE ID:	SAMPLE TIME:	
Analytes: TVPH (8015), VOCs	(8260), Fixed Gas (CO/CO2/O2)	
OPERATING WELLS		

Change in Well Operation:				
LOCATION	VACUUM (IWC)	PID HEADSPACE (PPM)	ADJUSTMENTS	
SVE01	41.8.	965	TESTOSTIVIENTS	
SVE02	44.5	8.2		
SVE03		012		
SVE04				
SVE05	16.09	636		
SVE06 (OBSERVATION WELL)		00.0		
SVE07 (OBSERVATION WELL)				

COMMENTS/OTHER MAINTENANCE:

·Replaced influent tubing

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SCOTT 4M SVE SYSTEM BIWEEKLY O&M FORM B Sinclaire

DATE: 7-30 TIME ONSITE:

SVE SYSTEM - MONTHLY O&M

SVE ALARMS:

KO TANK HIGH LEVEL

SVE SYSTEM	READING	TIME	TIME	R SETTINGS
Blower Hours (take photo)	22414.4	1310	Month	Timer Setting
Voltage In		1310	January	8 AM to 7 PM
Amperage In	A MARINE MARINE MARINE MARINE		February	8 AM to 7 PM
Voltage Out	and the second		March	8 AM to 8 PM
Amperage Out	AL AND		April	8 AM to 9 PM
KiloWatts		a visit to start the providence	May	7 AM to 9 PM
KiloWatt-Hours			June	6 AM to 9 PM
Solar Controller Status	The second s		July	6 AM to 9 PM
Pos Prek/O Vacuum (IWC)	-60		August	7 AM to 9 PM
Inlet Rotameter Flow (scfm)	38		September	8 AM to 9 PM
Inlet PID	157		October	8 AM to 8 PM
Exhaust PID	136.9		November	9 AM to 8 PM
Solar Panel Angle	12011		December	8 AM to 6 PM
K/O Tank Drum Level			The second second second second	
K/O Liquid Drained (gallons)				
Timer Setting				

	SVE SYST	TEM - QUARTERLY SAMPL	ING	
SAMPLE ID:		SAMPLE TIME:		
	/PH (8015), VOCs (8260), Fixe	d Gas (CO/CO2/O2)	and the second	
OPERATING WELLS				
Change in Well Operation:				
A LEXANT	VACUUM (IWC)	PID HEADSPACE (PPM)	ADJUSTMENTS	
LOCATION	42.2,	118.9		
SVE01	43.8	39.6		and the second
SVE02 -SVE03	1			
-SVE04	and the first of the second		A second second second second	The second s
CVE05	16.37	84.7	and the second second	and the free free free
SVE06 (OBSERVATION WELL)				
SVE05 SVE06 (OBSERVATION WELL) SVE07 (OBSERVATION WELL)				
SVLOT(ODDE				

COMMENTS/OTHER MAINTENANCE:

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SCOTT 4M SVE SYSTEM BIWEEKLY O&M FORM

8-13 DATE: TIME ONSITE:

O&M PERSONNEL: TIME OFFSITE: Sindeir

	SVE SY	YSTEM - MONTHLY O&N	4	
SVE ALARMS:		KO TANK HIGH LEVEL		
SVE SYSTEM	READING	TIME	TIME	R SETTINGS
Blower Hours (take photo)	227530	1544	Month	Timer Setting
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Amperage In		and the second second	February	8 AM to 7 PM
Voltage Out		and the second states of the second	March	8 AM to 8 PM
Amperage Out		and the second second second	April	8 AM to 9 PM
KiloWatts		a Carlo Phillip State	May	7 AM to 9 PM
KiloWatt-Hours		and the second second second	June	6 AM to 9 PM
Solar Controller Status		and the second second second	July	6 AM to 9 PM
Pos T Pre K/O Vacuum (IWC)	-61	the state of the state of the state	August	7 AM to 9 PM
Inlet Rotameter Flow (scfm)	39	aller and the second second second	September	8 AM to 9 PM
Inlet PID	3.0/		October	8 AM to 8 PM
Exhaust PID	16.8		November	9 AM to 8 PM
Solar Panel Angle			December	8 AM to 6 PM
K/O Tank Drum Level		The second she had		

K/O Liquid Drained (gallons)	and the state of the second state of the	Part Repairing the
Timer Setting		

	SVE SYST	TEM - QUARTERLY SAMPL	ING	
SAMPLE ID:		SAMPLE TIME:		
Analytes: TV	VPH (8015), VOCs (8260), Fixed	d Gas (CO/CO2/O2)		
OPERATING WELLS	and the second			
Change in Well Operation:				
LOCATION	VACUUM (IWC)	PID HEADSPACE (PPM)	ADJUSTMENTS	
SVE01	41.4	3.1	and the second of the second second	
SVE02 SVE03		- Stealing Contracting States	and the second	
-SVE03				
SVE05	15.12	13.7		
SVE06 (OBSERVATION WELL)				
SVE07 (OBSERVATION WELL)	and the second second second second			and the state of the
COMMENTS/OTHER MAINTENAN	CE:			and the second

. .

SCOTT 4M SVE SYSTEM BIWEEKLY O&M FORM

DATE: 8-22 TIME ONSITE:

O&M PERSONNEL: TIME OFFSITE: B Sinclair

SVE SYSTEM - MONTHLY O&M

SVE ALARMS:

KO TANK HIGH LEVEL

SVE SYSTEM Blower Hours (take photo)	READING TIME		TIME	CR SETTINGS
A STATE OF A	22964.9	1140	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	Autor and a second second		May	7 AM to 9 PM
KiloWatt-Hours		Participation of the state of the	June	6 AM to 9 PM
Solar Controller Status			July	6 AM to 9 PM
Post 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	8.2	and the second second second	October	8 AM to 8 PM
Exhaust PID	131.6		November	9 AM to 8 PM
Solar Panel Angle		ensertes parts of the sale	December	8 AM to 6 PM
K/O Tank Drum Level			an and the second second second	ALTER AT THE PARTY AND A LEFT
K/O Liquid Drained (gallons)	2 ALL THE REPORT OF THE PARTY OF	and the second	and the stand of the liter	
Timer Setting		And the second second second		

	SVE SYS	TEM - QUARTERLY SAMPI	LING	
SAMPLE ID:		SAMPLE TIME:		
Analytes: T	VPH (8015), VOCs (8260), Fixe	ed Gas (CO/CO2/O2)		
OPERATING WELLS			and the second sec	
Change in Well Operation:				
LOCATION	VACUUM (IWC)	PID HEADSPACE (PPM)	ADJUSTMENTS	
SVE01	41.4	77.7		
SVE02	43.0	6,2		
-SVE03-		Constant and the second second second	Will Marine - Marine -	
-SVE04	and the second second states and the second s			
SVE05	15.02	33.4	and the state of the second	
SVE06 (OBSERVATION WELL)				
SVE07 (OBSERVATION WELL)				

COMMENTS/OTHER MAINTENANCE:

.

SCOTT 4M SVE SYSTEM BIWEEKLY O&M FORM

DATE: **9-9** TIME ONSITE: O&M PERSONNEL: B Sinclair TIME OFFSITE:

	SVE S	YSTEM - MONTHLY O&	M	
SVE ALARMS:		KO TANK HIGH LEVEL		
SVE SYSTEM	READING	TIME	TIME	R SETTINGS
Blower Hours (take photo)	23398,5	1317	Month	Timer Setting
Voltage In		1.1.1	January	8 AM to 7 PM
Amperage In			February	8 AM to 7 PM
Voltage Out	and the second		March	8 AM to 8 PM
Amperage Out	and a state of the second state of the		April	8 AM to 9 PM
KiloWatts	the second state of the se		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 (IWC)	-60		August	7 AM to 9 PM
Inlet Rotameter Flow (scfm)	40		September	8 AM to 9 PM
Inlet PID	13.3		October	8 AM to 8 PM
Exhaust PID	109.2		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 SY	YSTEM - QUARTERLY SAMPL	ING	
SAMPLE ID:	Strange and	SAMPLE TIME:		and the state of t
Analytes: T	TVPH (8015), VOCs (8260), Fixed Gas (CO/CO2/O2)			
OPERATING WELLS	An and the the The Last	Contraction of the second second second		Station and the second
Change in Well Operation:				
LOCATION	VACUUM (IWC)	PID HEADSPACE (PPM)	ADJUSTMENTS	
SVE01	40.6	54.3	and a second state of the	
AX 1700	43 3	1.6		

SVE02	42.2	11.6	
SVE03			
-SVE04	111 117	476	
SVE05	19.92	- 77.5	
SVE06 (OBSERVATION WELL)			
SVE07 (OBSERVATION WELL)			

COMMENTS/OTHER MAINTENANCE:

				0
	1 50	COTT 4M SVE SYSTEM		
	BI	WEEKLY O&M FORM		
D L TT.	9-18	O&M PERSONNEL:	B Sinclair	
DATE: TIME ONSITE:		TIME OFFSITE:	and the second sec	
	SVE	SYSTEM - MONTHLY O&N	1	
	JVL	BIDIEM MOL	•	and the second
	341	and the second second second	and the second	in a serie for a serie has a serie has
SVE ALARMS:	371	KO TANK HIGH LEVEL		R SETTINGS
	READING	KO TANK HIGH LEVEL TIME	TIME	R SETTINGS Timer Setting
SVE SYSTEM	READING	KO TANK HIGH LEVEL	TIME	Timer Setting 8 AM to 7 PM
SVE SYSTEM Blower Hours (take photo)	READING	KO TANK HIGH LEVEL TIME	TIME Month January	Timer Setting
SVE SYSTEM Blower Hours (take photo) Voltage In	READING 23614,8	KO TANK HIGH LEVEL TIME	TIME Month January February	Timer Setting8 AM to 7 PM8 AM to 7 PM8 AM to 8 PM
SVE SYSTEM Blower Hours (take photo) Voltage In Amperage In	READING 23614.8	KO TANK HIGH LEVEL TIME	TIME Month January February March	Timer Setting8 AM to 7 PM8 AM to 7 PM8 AM to 8 PM8 AM to 9 PM
SVE SYSTEM Blower Hours (take photo) Voltage In Amperage In Voltage Out	READING 23614.8	KO TANK HIGH LEVEL TIME	TIME Month January February March April	Timer Setting8 AM to 7 PM8 AM to 7 PM8 AM to 8 PM
SVE SYSTEM Blower Hours (take photo) Voltage In Amperage In Voltage Out Amperage Out	READING 23614.8	KO TANK HIGH LEVEL TIME	Month Image: Constraint of the second se	Timer Setting8 AM to 7 PM8 AM to 7 PM8 AM to 8 PM8 AM to 9 PM7 AM to 9 PM
SVE SYSTEM Blower Hours (take photo) Voltage In Amperage In Voltage Out Amperage Out KiloWatts	READING 23614.8	KO TANK HIGH LEVEL TIME	Month Image: Constraint of the second se	Timer Setting8 AM to 7 PM8 AM to 7 PM8 AM to 8 PM8 AM to 9 PM
SVE SYSTEM Blower Hours (take photo) Voltage In Amperage In Voltage Out Amperage Out KiloWatts KiloWatt-Hours	READING 23614.8	KO TANK HIGH LEVEL TIME	Month Image: Constraint of the second se	Timer Setting8 AM to 7 PM8 AM to 7 PM8 AM to 8 PM8 AM to 9 PM7 AM to 9 PM6 AM to 9 PM
SVE SYSTEM Blower Hours (take photo) Voltage In Amperage In Voltage Out Amperage Out KiloWatts KiloWatt-Hours Solar Controller Status	READING 23614.8	KO TANK HIGH LEVEL TIME	MonthJanuaryJanuaryFebruaryMarchAprilMayJuneJulyAugust	Timer Setting8 AM to 7 PM8 AM to 7 PM8 AM to 8 PM8 AM to 9 PM7 AM to 9 PM6 AM to 9 PM6 AM to 9 PM
SVE SYSTEM Blower Hours (take photo) Voltage In Amperage In Voltage Out Amperage Out KiloWatts KiloWatts Solar Controller Status	READING 23614.8 -60	KO TANK HIGH LEVEL TIME	MonthJanuaryJanuaryFebruaryMarchAprilMayJuneJulyAugustSeptember	Timer Setting8 AM to 7 PM8 AM to 7 PM8 AM to 8 PM8 AM to 9 PM7 AM to 9 PM6 AM to 9 PM6 AM to 9 PM7 AM to 9 PM7 AM to 9 PM
SVE SYSTEM Blower Hours (take photo) Voltage In Amperage In Voltage Out Amperage Out KiloWatts KiloWatt-Hours Solar Controller Status	READING 23614.8 -60 40	KO TANK HIGH LEVEL TIME	MonthJanuaryJanuaryFebruaryMarchAprilMayJuneJulyAugust	Timer Setting8 AM to 7 PM8 AM to 7 PM8 AM to 7 PM8 AM to 8 PM8 AM to 9 PM7 AM to 9 PM6 AM to 9 PM6 AM to 9 PM7 AM to 9 PM8 AM to 9 PM8 AM to 9 PM

Solar Panel Angle	
K/O Tank Drum Level	
K/O Liquid Drained (gallons)	A CONTRACTOR OF THE REAL PROPERTY OF THE REAL PROPE
Timer Setting	

SVE SYSTEM - QUARTERLY SAMPLING	
SAMPLE ID: 5 V E- (SAMPLE TIME: 1330	
Analytes: TVPH (8015), VOCs (8260), Fixed Gas (CO/CO2/O2)	and the second of the second
OPERATING WELLS	the second s
OPERATING WELLS	the second second states and the second s

•

Change in Well Operation:			
X OCHTION	VACUUM (IWC)	PID HEADSPACE (PPM)	ADJUSTMENTS
LOCATION	417	110.6	
SVE01	11.2	315	
SVE02	41.4	58.5	
-SVE03			The state of the state of the state of the state
SVE04		781	
SVE05	14.08	10.0	and the second second
SVE06 (OBSERVATION WELL)		and a filling the second the second second	the state of a sector
SVE07 (OBSERVATION WELL)			and the second se

COMMENTS/OTHER MAINTENANCE:



APPENDIX B

Project Photographs

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





APPENDIX C

Laboratory Analytical Reports

Received by OCD: 10/14/2024 3:49:04 PM



Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Mitch Killough Hilcorp Energy PO BOX 4700 Farmington, New Mexico 87499 Generated 10/10/2024 5:23:56 PM

JOB DESCRIPTION

Scott 4M

JOB NUMBER

885-12289-1

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 Garcia

Generated 10/10/2024 5:23:56 PM

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

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2 3

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	Definitions/Glossary	
Client: Hilcorp		
Project/Site: S	cott 4M	
Qualifiers		3
GC/MS VOA		
Qualifier	Qualifier Description	
Н	Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.	
Glossary		5
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	0
CNF	Contains No Free Liquid	0
DER	Duplicate Error Ratio (normalized absolute difference)	
Dil Fac	Dilution Factor	9
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	

Positive / Present

Presumptive Quality Control

Practical Quantitation Limit

Relative Error Ratio (Radiochemistry)

Toxicity Equivalent Factor (Dioxin)

Too Numerous To Count

Toxicity Equivalent Quotient (Dioxin)

Reporting Limit or Requested Limit (Radiochemistry)

Relative Percent Difference, a measure of the relative difference between two points

POS

PQL

PRES

QC RER

RL

RPD

TEF

TEQ

TNTC

Case Narrative

Job ID: 885-12289-1

Job ID: 885-12289-1

Eurofins Albuquerque

Job Narrative 885-12289-1

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 9/20/2024 7:15 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 17.2°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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Job ID: 885-12289-1

Client: Hilcorp Energy Project/Site: Scott 4M

Client Sample ID: SVE-1

inhie ID: 2AF-1

Date Collected: 09/18/24 13:30

Lab Sample ID: 885-12289-1

Matrix: Air

Date Received: 09/20/24 07:15 Sample Container: Tedlar Bag 1L

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics [C6 -	270	н	25	ug/L			10/02/24 14:19	
C10]								
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	88	_	52 - 172		_		10/02/24 14:19	
Method: SW846 8260B - Volatile	Organic Comp	ounds (GC/	MS)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
1,1,1,2-Tetrachloroethane	ND		5.0	ug/L		• • • •	10/02/24 14:19	
1,1,1-Trichloroethane	ND		5.0	ug/L			10/02/24 14:19	
1,1,2,2-Tetrachloroethane	ND		10	ug/L			10/02/24 14:19	
1,1,2-Trichloroethane	ND		5.0	ug/L			10/02/24 14:19	
1,1-Dichloroethane	ND		5.0	ug/L			10/02/24 14:19	
1,1-Dichloroethene	ND		5.0	ug/L			10/02/24 14:19	
1,1-Dichloropropene	ND		5.0	ug/L			10/02/24 14:19	
1,2,3-Trichlorobenzene	ND		5.0	ug/L			10/02/24 14:19	
1,2,3-Trichloropropane	ND		10	ug/L			10/02/24 14:19	
1,2,4-Trichlorobenzene	ND		5.0	ug/L			10/02/24 14:19	
1,2,4-Trimethylbenzene	ND		5.0	ug/L			10/02/24 14:19	
1,2-Dibromo-3-Chloropropane	ND		10	ug/L			10/02/24 14:19	
1,2-Dibromoethane (EDB)	ND		5.0	ug/L			10/02/24 14:19	
1,2-Dichlorobenzene	ND		5.0	ug/L			10/02/24 14:19	
1,2-Dichloroethane (EDC)	ND		5.0	ug/L			10/02/24 14:19	
1,2-Dichloropropane	ND		5.0	ug/L			10/02/24 14:19	
1,3,5-Trimethylbenzene	7.4		5.0	ug/L			10/02/24 14:19	
1,3-Dichlorobenzene	ND		5.0	ug/L			10/02/24 14:19	
1,3-Dichloropropane	ND		5.0	ug/L			10/02/24 14:19	
1,4-Dichlorobenzene	ND		5.0	ug/L			10/02/24 14:19	
1-Methylnaphthalene	ND		20	ug/L			10/02/24 14:19	
2,2-Dichloropropane	ND		10	ug/L			10/02/24 14:19	
2-Butanone	ND		50	ug/L			10/02/24 14:19	
2-Chlorotoluene	ND		5.0	ug/L			10/02/24 14:19	
2-Hexanone	ND		50	ug/L			10/02/24 14:19	
2-Methylnaphthalene	ND		20	ug/L			10/02/24 14:19	
4-Chlorotoluene	ND		5.0	ug/L			10/02/24 14:19	
4-Isopropyltoluene	ND		5.0	ug/L			10/02/24 14:19	
4-Methyl-2-pentanone	ND		50	ug/L			10/02/24 14:19	
Acetone	ND		50	ug/L			10/02/24 14:19	
Benzene	10		5.0	ug/L			10/02/24 14:19	
Bromobenzene	ND		5.0	ug/L			10/02/24 14:19	
Bromodichloromethane	ND		5.0	ug/L			10/02/24 14:19	
Dibromochloromethane	ND		5.0	ug/L			10/02/24 14:19	
Bromoform	ND		5.0	ug/L			10/02/24 14:19	
Bromomethane	ND		15	ug/L			10/02/24 14:19	
Carbon disulfide	ND		50	ug/L			10/02/24 14:19	
Carbon tetrachloride	ND		5.0	ug/L			10/02/24 14:19	
Chlorobenzene	ND		5.0	ug/L			10/02/24 14:19	
Chloroethane	ND		10	ug/L			10/02/24 14:19	
Chloroform	ND		5.0	ug/L			10/02/24 14:19	

Eurofins Albuquerque

Job ID: 885-12289-1

Lab Sample ID: 885-12289-1

Matrix: Air

5

Date Collected: 09/18/24 13:30 Date Received: 09/20/24 07:15 Sample Container: Tedlar Bag 1L

Client Sample ID: SVE-1

Dibromofluoromethane (Surr)

Client: Hilcorp Energy

Project/Site: Scott 4M

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		15	ug/L			10/02/24 14:19	5
cis-1,2-Dichloroethene	ND		5.0	ug/L			10/02/24 14:19	5
cis-1,3-Dichloropropene	ND		5.0	ug/L			10/02/24 14:19	5
Dibromomethane	ND		5.0	ug/L			10/02/24 14:19	5
Dichlorodifluoromethane	ND		5.0	ug/L			10/02/24 14:19	5
Ethylbenzene	ND		5.0	ug/L			10/02/24 14:19	5
Hexachlorobutadiene	ND		5.0	ug/L			10/02/24 14:19	5
Isopropylbenzene	ND		5.0	ug/L			10/02/24 14:19	5
Methyl-tert-butyl Ether (MTBE)	ND		5.0	ug/L			10/02/24 14:19	5
Methylene Chloride	ND		15	ug/L			10/02/24 14:19	5
n-Butylbenzene	ND		15	ug/L			10/02/24 14:19	5
N-Propylbenzene	ND		5.0	ug/L			10/02/24 14:19	5
Naphthalene	ND		10	ug/L			10/02/24 14:19	5
sec-Butylbenzene	ND		5.0	ug/L			10/02/24 14:19	5
Styrene	ND		5.0	ug/L			10/02/24 14:19	5
tert-Butylbenzene	ND		5.0	ug/L			10/02/24 14:19	5
Tetrachloroethene (PCE)	ND		5.0	ug/L			10/02/24 14:19	5
Toluene	62		5.0	ug/L			10/02/24 14:19	5
trans-1,2-Dichloroethene	ND		5.0	ug/L			10/02/24 14:19	5
trans-1,3-Dichloropropene	ND		5.0	ug/L			10/02/24 14:19	5
Trichloroethene (TCE)	ND		5.0	ug/L			10/02/24 14:19	5
Trichlorofluoromethane	ND		5.0	ug/L			10/02/24 14:19	5
Vinyl chloride	ND		5.0	ug/L			10/02/24 14:19	5
Xylenes, Total	69		7.5	ug/L			10/02/24 14:19	5
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	81		70 - 130		-		10/02/24 14:19	5
Toluene-d8 (Surr)	113		70 - 130				10/02/24 14:19	5
4-Bromofluorobenzene (Surr)	102		70 - 130				10/02/24 14:19	5

70 - 130

94

10/02/24 14:19

5

Lab Sample ID: MB 885-13549/4

Analysis Batch: 13549

4-Bromofluorobenzene (Surr)

Analysis Batch: 13549

Gasoline Range Organics [C6 -

4-Bromofluorobenzene (Surr)

Lab Sample ID: 885-12289-1 DU

Gasoline Range Organics [C6 - C10]

Lab Sample ID: LCS 885-13549/3

QC Sample Results

RL

5.0

Limits

Spike

Added

4250

Limits

52 - 172

52 - 172

Unit

ug/L

Unit

ug/L

LCS LCS

4100

Result Qualifier

D

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

MB MB

MB MB

Qualifier

ND

81

%Recovery

LCS LCS %Recovery Qualifier

91

Result Qualifier

Client: Hilcorp Energy Project/Site: Scott 4M

Matrix: Air

Analyte

Surrogate

Matrix: Air

Analyte

C10]

Surrogate

Madulas Ala

Job ID: 885-12289-1

Prep Type: Total/NA

Client Sample ID: Method Blank

כ	Prepared	Analyzed	Dil Fac	
		10/02/24 11:28	1	6
	Prepared	Analyzed	Dil Fac	
		10/02/24 11:28	1	8
С	lient Sample	ID: Lab Control	Sample	
		Prep Type: 1	Fotal/NA	9
		%Rec		
	D %Rec	Limits		
	97	70 - 130		

Client Sample ID: SVE-1 T-4-1/11 4

Matrix: Air Analysis Batch: 13549								Prep	o type: to	
-	Sample	Sample		DU	DU					RPD
Analyte	Result	Qualifier		Result	Qualifier	Unit	D		RPD	Limit
Gasoline Range Organics [C6 - C10]	270	H		255		ug/L			7	20
	DU	DU								
Surrogate	%Recovery	Qualifier	Limits							

4-Bromofluorobenzene (Surr) 88 52 - 172

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

Lab Sample ID: MB 885-13499/100 Matrix: Air Analysis Batch: 13499	5				Client S	ample ID: Metho Prep Type: 1	
	MB MB						
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L			10/02/24 13:30	1
1,1,1-Trichloroethane	ND	1.0	ug/L			10/02/24 13:30	1
1,1,2,2-Tetrachloroethane	ND	2.0	ug/L			10/02/24 13:30	1
1,1,2-Trichloroethane	ND	1.0	ug/L			10/02/24 13:30	1
1,1-Dichloroethane	ND	1.0	ug/L			10/02/24 13:30	1
1,1-Dichloroethene	ND	1.0	ug/L			10/02/24 13:30	1
1,1-Dichloropropene	ND	1.0	ug/L			10/02/24 13:30	1
1,2,3-Trichlorobenzene	ND	1.0	ug/L			10/02/24 13:30	1
1,2,3-Trichloropropane	ND	2.0	ug/L			10/02/24 13:30	1
1,2,4-Trichlorobenzene	ND	1.0	ug/L			10/02/24 13:30	1
1,2,4-Trimethylbenzene	ND	1.0	ug/L			10/02/24 13:30	1
1,2-Dibromo-3-Chloropropane	ND	2.0	ug/L			10/02/24 13:30	1
1,2-Dibromoethane (EDB)	ND	1.0	ug/L			10/02/24 13:30	1
1,2-Dichlorobenzene	ND	1.0	ug/L			10/02/24 13:30	1

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MB MB

Matrix: Air Analysis Batch: 13499

		RL		Analyzed	Dil Fac
1,2-Dichloroethane (EDC)	ND	 1.0	ug/L	 10/02/24 13:30	1
1,2-Dichloropropane	ND	1.0	ug/L	10/02/24 13:30	1
1,3,5-Trimethylbenzene	ND	1.0	ug/L	10/02/24 13:30	1
1,3-Dichlorobenzene	ND	1.0	ug/L	10/02/24 13:30	1
1,3-Dichloropropane	ND	1.0	ug/L	10/02/24 13:30	1
1,4-Dichlorobenzene	ND	1.0	ug/L	10/02/24 13:30	1
1-Methylnaphthalene	ND	4.0	ug/L	10/02/24 13:30	1
2,2-Dichloropropane	ND	2.0	ug/L	10/02/24 13:30	1
2-Butanone	ND	10	ug/L	10/02/24 13:30	1
2-Chlorotoluene	ND	1.0	ug/L	10/02/24 13:30	1
2-Hexanone	ND	10	ug/L	10/02/24 13:30	1
2-Methylnaphthalene	ND	4.0	ug/L	10/02/24 13:30	1
4-Chlorotoluene	ND	1.0	ug/L	10/02/24 13:30	1
4-Isopropyltoluene	ND	1.0	ug/L	10/02/24 13:30	1
4-Methyl-2-pentanone	ND	10	ug/L	10/02/24 13:30	1
Acetone	ND	10	ug/L	10/02/24 13:30	1
Benzene	ND	1.0	ug/L	10/02/24 13:30	1
Bromobenzene	ND	1.0	ug/L	10/02/24 13:30	1
Bromodichloromethane	ND	1.0	ug/L	10/02/24 13:30	1
Dibromochloromethane	ND	1.0	ug/L	10/02/24 13:30	1
Bromoform	ND	1.0	ug/L	10/02/24 13:30	1
Bromomethane	ND	3.0	ug/L	10/02/24 13:30	1
Carbon disulfide	ND	10	ug/L	10/02/24 13:30	1
Carbon tetrachloride	ND	1.0	ug/L	10/02/24 13:30	1
Chlorobenzene	ND	1.0	ug/L	10/02/24 13:30	1
Chloroethane	ND	2.0	ug/L	10/02/24 13:30	1
Chloroform	ND	1.0	ug/L	10/02/24 13:30	1
Chloromethane	ND	3.0	ug/L	10/02/24 13:30	1
cis-1,2-Dichloroethene	ND	1.0	ug/L	10/02/24 13:30	1
cis-1,3-Dichloropropene	ND	1.0	ug/L	10/02/24 13:30	1
Dibromomethane	ND	1.0	ug/L	10/02/24 13:30	1
Dichlorodifluoromethane	ND	1.0	ug/L	10/02/24 13:30	1
Ethylbenzene	ND	1.0	ug/L	10/02/24 13:30	1
Hexachlorobutadiene	ND	1.0	ug/L	10/02/24 13:30	1
Isopropylbenzene	ND	1.0	ug/L	10/02/24 13:30	1
Methyl-tert-butyl Ether (MTBE)	ND	1.0	ug/L	10/02/24 13:30	1
Methylene Chloride	ND	3.0	ug/L	10/02/24 13:30	1
n-Butylbenzene	ND	3.0	ug/L	10/02/24 13:30	1
N-Propylbenzene	ND	1.0	ug/L	10/02/24 13:30	1
Naphthalene	ND	2.0	ug/L	10/02/24 13:30	1
sec-Butylbenzene	ND	1.0	ug/L	10/02/24 13:30	1
Styrene	ND	1.0	ug/L	10/02/24 13:30	1
tert-Butylbenzene	ND	1.0	ug/L	10/02/24 13:30	1
Tetrachloroethene (PCE)	ND	1.0	ug/L	10/02/24 13:30	1
Toluene	ND	1.0	ug/L	10/02/24 13:30	1
trans-1,2-Dichloroethene	ND	1.0	ug/L	10/02/24 13:30	1
trans-1,3-Dichloropropene	ND	1.0	ug/L	10/02/24 13:30	1
Trichloroethene (TCE)	ND	1.0	ug/L	10/02/24 13:30	1
Trichlorofluoromethane	ND	1.0	ug/L	10/02/24 13:30	1

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5

6

Prep Type: Total/NA

Client Sample ID: Method Blank

Project/Site: Scott 4M

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

			1
	Job ID: 885-	12289-1	2
Olivert O			3
Client Sa	ample ID: Metho Prep Type: 1		4
Prepared	Analyzed	Dil Fac	5
	10/02/24 13:30	1	6
	10/02/24 13:30	1	

Lab Sample	ID: MB	885-13499/1005
Matrix: Air		

Analysis Batch: 13499

	MB	МВ						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND		1.0	ug/L			10/02/24 13:30	1
Xylenes, Total	ND		1.5	ug/L			10/02/24 13:30	1
	MB	МВ						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		70 - 130		-		10/02/24 13:30	1
Toluene-d8 (Surr)	97		70 - 130				10/02/24 13:30	1
4-Bromofluorobenzene (Surr)	93		70 - 130				10/02/24 13:30	1
Dibromofluoromethane (Surr)	101		70 - 130				10/02/24 13:30	1

Lab Sample ID: MB 885-13499/5 Matrix: Air

Analysis Batch: 13499

	MB MB						
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L			10/02/24 13:30	1
1,1,1-Trichloroethane	ND	1.0	ug/L			10/02/24 13:30	1
1,1,2,2-Tetrachloroethane	ND	2.0	ug/L			10/02/24 13:30	1
1,1,2-Trichloroethane	ND	1.0	ug/L			10/02/24 13:30	1
1,1-Dichloroethane	ND	1.0	ug/L			10/02/24 13:30	1
1,1-Dichloroethene	ND	1.0	ug/L			10/02/24 13:30	1
1,1-Dichloropropene	ND	1.0	ug/L			10/02/24 13:30	1
1,2,3-Trichlorobenzene	ND	1.0	ug/L			10/02/24 13:30	1
1,2,3-Trichloropropane	ND	2.0	ug/L			10/02/24 13:30	1
1,2,4-Trichlorobenzene	ND	1.0	ug/L			10/02/24 13:30	1
1,2,4-Trimethylbenzene	ND	1.0	ug/L			10/02/24 13:30	1
1,2-Dibromo-3-Chloropropane	ND	2.0	ug/L			10/02/24 13:30	1
1,2-Dibromoethane (EDB)	ND	1.0	ug/L			10/02/24 13:30	1
1,2-Dichlorobenzene	ND	1.0	ug/L			10/02/24 13:30	1
1,2-Dichloroethane (EDC)	ND	1.0	ug/L			10/02/24 13:30	1
1,2-Dichloropropane	ND	1.0	ug/L			10/02/24 13:30	1
1,3,5-Trimethylbenzene	ND	1.0	ug/L			10/02/24 13:30	1
1,3-Dichlorobenzene	ND	1.0	ug/L			10/02/24 13:30	1
1,3-Dichloropropane	ND	1.0	ug/L			10/02/24 13:30	1
1,4-Dichlorobenzene	ND	1.0	ug/L			10/02/24 13:30	1
1-Methylnaphthalene	ND	4.0	ug/L			10/02/24 13:30	1
2,2-Dichloropropane	ND	2.0	ug/L			10/02/24 13:30	1
2-Butanone	ND	10	ug/L			10/02/24 13:30	1
2-Chlorotoluene	ND	1.0	ug/L			10/02/24 13:30	1
2-Hexanone	ND	10	ug/L			10/02/24 13:30	1
2-Methylnaphthalene	ND	4.0	ug/L			10/02/24 13:30	1
4-Chlorotoluene	ND	1.0	ug/L			10/02/24 13:30	1
4-Isopropyltoluene	ND	1.0	ug/L			10/02/24 13:30	1
4-Methyl-2-pentanone	ND	10	ug/L			10/02/24 13:30	1
Acetone	ND	10	ug/L			10/02/24 13:30	1
Benzene	ND	1.0	ug/L			10/02/24 13:30	1
Bromobenzene	ND	1.0	ug/L			10/02/24 13:30	1
Bromodichloromethane	ND	1.0	ug/L			10/02/24 13:30	1
Dibromochloromethane	ND	1.0	ug/L			10/02/24 13:30	1

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10/02/24 13:30 1 Client Sample ID: Method Blank

Prep Type: Total/NA

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

Lab Sample ID: MB 885-13499/5

Matrix: Air Analysis Batch: 13499

Analysis Batch: 13499								
Analyte		MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Bromoform	ND		1.0	0/// ug/L		Fiepaleu	10/02/24 13:30	1
Bromomethane	ND		3.0	ug/L			10/02/24 13:30	1
Carbon disulfide	ND		10	ug/L			10/02/24 13:30	
Carbon tetrachloride	ND		1.0	ug/L			10/02/24 13:30	1
Chlorobenzene	ND		1.0	ug/L			10/02/24 13:30	1
Chloroethane	ND		2.0	ug/L			10/02/24 13:30	
Chloroform	ND		1.0	-			10/02/24 13:30	1
Chloromethane	ND		3.0	ug/L			10/02/24 13:30	1
cis-1,2-Dichloroethene	ND		3.0 1.0	ug/L			10/02/24 13:30	1
,				ug/L				1
cis-1,3-Dichloropropene	ND		1.0	ug/L			10/02/24 13:30	1
Dibromomethane	ND		1.0	ug/L			10/02/24 13:30	
Dichlorodifluoromethane	ND		1.0	ug/L			10/02/24 13:30	1
Ethylbenzene	ND		1.0	ug/L			10/02/24 13:30	1
Hexachlorobutadiene	ND		1.0	ug/L			10/02/24 13:30	1
Isopropylbenzene	ND		1.0	ug/L			10/02/24 13:30	1
Methyl-tert-butyl Ether (MTBE)	ND		1.0	ug/L			10/02/24 13:30	1
Methylene Chloride	ND		3.0	ug/L			10/02/24 13:30	1
n-Butylbenzene	ND		3.0	ug/L			10/02/24 13:30	1
N-Propylbenzene	ND		1.0	ug/L			10/02/24 13:30	1
Naphthalene	ND		2.0	ug/L			10/02/24 13:30	1
sec-Butylbenzene	ND		1.0	ug/L			10/02/24 13:30	1
Styrene	ND		1.0	ug/L			10/02/24 13:30	1
tert-Butylbenzene	ND		1.0	ug/L			10/02/24 13:30	1
Tetrachloroethene (PCE)	ND		1.0	ug/L			10/02/24 13:30	1
Toluene	ND		1.0	ug/L			10/02/24 13:30	1
trans-1,2-Dichloroethene	ND		1.0	ug/L			10/02/24 13:30	1
trans-1,3-Dichloropropene	ND		1.0	ug/L			10/02/24 13:30	1
Trichloroethene (TCE)	ND		1.0	ug/L			10/02/24 13:30	1
Trichlorofluoromethane	ND		1.0	ug/L			10/02/24 13:30	1

	MB	МВ				
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		70 - 130		10/02/24 13:30	1
Toluene-d8 (Surr)	97		70 - 130		10/02/24 13:30	1
4-Bromofluorobenzene (Surr)	93		70 - 130		10/02/24 13:30	1
Dibromofluoromethane (Surr)	101		70 - 130		10/02/24 13:30	1

1.0

1.5

ug/L

ug/L

ND

ND

Lab Sample ID: LCS 885-13499/4 Matrix: Air

Analysis Batch: 13499

Vinyl chloride

Xylenes, Total

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,1-Dichloroethene	20.1	21.2		ug/L		105	70 - 130	
Benzene	20.1	23.0		ug/L		114	70 - 130	
Chlorobenzene	20.1	20.5		ug/L		102	70 - 130	
Toluene	20.2	20.9		ug/L		104	70 - 130	
Trichloroethene (TCE)	20.2	21.1		ug/L		105	70 - 130	

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Prep Type: Total/NA

10/02/24 13:30

10/02/24 13:30

Client Sample ID: Lab Control Sample

1

1

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Job ID: 885-12289-1

Prep Type: Total/NA

Client Sample ID: Method Blank

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

Lab Sample ID: LCS 885-134 Matrix: Air	99/4						Client Samp	e ID: Lab Control Sa Prep Type: To	
Analysis Batch: 13499								i iep iype. Iu	
Analysis Datch. 13435									
		LCS							
Surrogate	%Recovery	Qualifier	Limits						
1,2-Dichloroethane-d4 (Surr)	95		70 - 130						
Toluene-d8 (Surr)	98		70 - 130						
4-Bromofluorobenzene (Surr)	95		70 - 130						
Dibromofluoromethane (Surr)	97		70 - 130						
- Lab Sampla ID: 995 12290 1								Client Sample ID:	
Lab Sample ID: 885-12289-1 Matrix: Air	00							Prep Type: To	
Analysis Batch: 13499								Prep Type. 10	
Analysis Batch. 15455	Sample	Sample		ווס	DU				RPD
Analyte	-	Qualifier			Qualifier	Unit	D	RPD	Limit
1,1,1,2-Tetrachloroethane	- <u>ND</u>	Quaimer		ND	Quanner	ug/L	<u> </u>		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				NC	20
1,1-Dichloroethane	ND			ND		ug/L		NC	20
1,1-Dichloroethene	ND			ND		ug/L		NC	20
						ug/L			
1,1-Dichloropropene	ND ND			ND ND		ug/L		NC	20 20
1,2,3-Trichlorobenzene						ug/L		NC	
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 ND		ug/L		NC	20
1,2-Dichloroethane (EDC)	ND					ug/L		NC	20
1,2-Dichloropropane	ND			ND		ug/L		NC	20
1,3,5-Trimethylbenzene	7.4			6.84		ug/L		8	20
1,3-Dichlorobenzene	ND			ND		ug/L		NC	20
1,3-Dichloropropane	ND			ND		ug/L		NC	20
1,4-Dichlorobenzene	ND			ND		ug/L		NC	20
1-Methylnaphthalene	ND			ND		ug/L		NC NC	20
2,2-Dichloropropane	ND ND			ND ND		ug/L			20 20
2-Butanone						ug/L		NC	
2-Chlorotoluene 2-Hexanone	ND			ND		ug/L		NC	20
	ND			ND		ug/L		NC	20
2-Methylnaphthalene	ND			ND		ug/L		NC	20
4-Chlorotoluene	ND			ND		ug/L		NC	20
4-Isopropyltoluene	ND			ND		ug/L		NC	20
4-Methyl-2-pentanone	ND			ND ND		ug/L		NC	20
Acetone	ND					ug/L		NC	20
Benzene	10 ND			9.77		ug/L		2	20
Bromobenzene	ND			ND		ug/L		NC	20
Bromodichloromethane	ND			ND		ug/L		NC	20
Dibromochloromethane Bromoform	ND			ND ND		ug/L		NC	20
	ND					ug/L		NC	20
Bromomethane	ND			ND		ug/L		NC	20
Carbon disulfide	ND			ND		ug/L ug/L		NC	20

Job ID: 885-12289-1

Eurofins Albuquerque

Client: Hilcorp Energy Project/Site: Scott 4M

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

Lab Sample ID: 885-12289-1 DU

Matrix: Air Analysis Batch: 13499

-	Sample	Sample	DU	DU				RPD
Analyte	Result	Qualifier	Result	Qualifier	Unit	D	RPD	Limit
Chlorobenzene	ND		ND		ug/L		NC	20
Chloroethane	ND		ND		ug/L		NC	20
Chloroform	ND		ND		ug/L		NC	20
Chloromethane	ND		ND		ug/L		NC	20
cis-1,2-Dichloroethene	ND		ND		ug/L		NC	20
cis-1,3-Dichloropropene	ND		ND		ug/L		NC	20
Dibromomethane	ND		ND		ug/L		NC	20
Dichlorodifluoromethane	ND		ND		ug/L		NC	20
Ethylbenzene	ND		ND		ug/L		NC	20
Hexachlorobutadiene	ND		ND		ug/L		NC	20
Isopropylbenzene	ND		ND		ug/L		NC	20
Methyl-tert-butyl Ether (MTBE)	ND		ND		ug/L		NC	20
Methylene Chloride	ND		ND		ug/L		NC	20
n-Butylbenzene	ND		ND		ug/L		NC	20
N-Propylbenzene	ND		ND		ug/L		NC	20
Naphthalene	ND		ND		ug/L		NC	20
sec-Butylbenzene	ND		ND		ug/L		NC	20
Styrene	ND		ND		ug/L		NC	20
tert-Butylbenzene	ND		ND		ug/L		NC	20
Tetrachloroethene (PCE)	ND		ND		ug/L		NC	20
Toluene	62		57.5		ug/L		7	20
trans-1,2-Dichloroethene	ND		ND		ug/L		NC	20
trans-1,3-Dichloropropene	ND		ND		ug/L		NC	20
Trichloroethene (TCE)	ND		ND		ug/L		NC	20
Trichlorofluoromethane	ND		ND		ug/L		NC	20
Vinyl chloride	ND		ND		ug/L		NC	20
Xylenes, Total	69		65.2		ug/L		6	20
	DU	DU						
Surrogate	%Recovery		Limits					
1,2-Dichloroethane-d4 (Surr)		Quaimer						
Toluene-d8 (Surr)	97 107		70 - 130					
4-Bromofluorobenzene (Surr)	107		70 - 130					
Dibromofluoromethane (Surr)	97		70 - 130					
	97		10 - 130					

Job ID: 885-12289-1

Client Sample ID: SVE-1

Prep Type: Total/NA

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QC Association Summary

Client: Hilcorp Energy Project/Site: Scott 4M Job ID: 885-12289-1

D 995 12290 1

GC/MS VOA Analysis Batch: 13499

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
85-12289-1	SVE-1	Total/NA	Air	8260B	
IB 885-13499/1005	Method Blank	Total/NA	Air	8260B	
IB 885-13499/5	Method Blank	Total/NA	Air	8260B	
CS 885-13499/4	Lab Control Sample	Total/NA	Air	8260B	
85-12289-1 DU	SVE-1	Total/NA	Air	8260B	
nalysis Batch: 1354	9 Client Sample ID	Ргер Туре	Matrix	Method	Prep Batc
nalysis Batch: 1354 Lab Sample ID		Prep Type Total/NA	<mark>Matrix</mark>	<u>Method</u> 8015M/D	Prep Batc
nalysis Batch: 1354 Lab Sample ID 385-12289-1	Client Sample ID	· · · · ·			Prep Batc
nalysis Batch: 1354 Lab Sample ID 885-12289-1 MB 885-13549/4 LCS 885-13549/3	Client Sample ID SVE-1	Total/NA	Air	8015M/D	Prep Batcl

Lab Chronicle

Client: Hilcorp Energy Project/Site: Scott 4M Job ID: 885-12289-1

Matrix: Air

5

Lab Sample ID: 885-12289-1

Client Sample ID: SVE-1 Date Collected: 09/18/24 13:30 Date Received: 09/20/24 07:15

_	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8015M/D		5	13549	СМ	EET ALB	10/02/24 14:19
Total/NA	Analysis	8260B		5	13499	СМ	EET ALB	10/02/24 14:19

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

Accreditation/Certification Summary

Client: Hilcorp Energy Project/Site: Scott 4M

Laboratory: Eurofins Albuquerque

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

1	Progra	ım	Identification Number	Expiration Date
ico	State		NM9425, NM0901	02-26-25
	are included in this report, bu es not offer certification.	t the laboratory is not certifi	ed by the governing authority. This lis	t may include analytes
nalysis Method	Prep Method	Matrix	Analyte	
015M/D		Air	Gasoline Range Organics	[C6 - C10]
260B		Air	1,1,1,2-Tetrachloroethane	
260B		Air	1,1,1-Trichloroethane	
260B		Air	1,1,2,2-Tetrachloroethane	
260B		Air	1,1,2-Trichloroethane	
260B		Air	1,1-Dichloroethane	
260B		Air	1,1-Dichloroethene	
260B		Air	1,1-Dichloropropene	
260B		Air	1,2,3-Trichlorobenzene	
260B		Air	1,2,3-Trichloropropane	
260B		Air	1,2,4-Trichlorobenzene	
260B		Air	1,2,4-Trimethylbenzene	
260B		Air	1,2-Dibromo-3-Chloroprop	ane
260B		Air	1,2-Dibromoethane (EDB)	
260B		Air	1,2-Dichlorobenzene	
260B		Air	1,2-Dichloroethane (EDC)	
260B		Air	1,2-Dichloropropane	
260B		Air	1,3,5-Trimethylbenzene	
260B		Air	1,3-Dichlorobenzene	
260B		Air	1,3-Dichloropropane	
260B		Air	1,4-Dichlorobenzene	
260B		Air	1-Methylnaphthalene	
260B		Air	2,2-Dichloropropane	
260B		Air	2-Butanone	
260B		Air	2-Chlorotoluene	
260B		Air	2-Hexanone	
260B		Air	2-Methylnaphthalene	
260B		Air	4-Chlorotoluene	
260B		Air	4-Isopropyltoluene	
260B		Air	4-Methyl-2-pentanone	
260B		Air	Acetone	
260B		Air	Benzene	
260B		Air	Bromobenzene	
260B		Air	Bromodichloromethane	
260B		Air	Bromoform	
260B		Air	Bromomethane	
260B		Air	Carbon disulfide	
260B		Air	Carbon tetrachloride	
260B		Air	Chlorobenzene	
260B		Air	Chloroethane	
260B		Air	Chloroform	
260B		Air	Chloromethane	
260B		Air	cis-1,2-Dichloroethene	
260B		Air	cis-1,3-Dichloropropene	
260B		Air	Dibromochloromethane	

Eurofins Albuquerque

Page 36 of 46

Job ID: 885-12289-1

Accreditation/Certification Summary

Client: Hilcorp Energy Project/Site: Scott 4M

Laboratory: Eurofins Albuquerque (Continued)

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

	Progr	am	Identification Number	Expiration Date
e following analytes a	are included in this report, bu	ut the laboratory is not certif	ied by the governing authority. This li	ist may include analytes
which the agency do	es not offer certification.			
alysis Method	Prep Method	Matrix	Analyte	
60B		Air	Dibromomethane	
60B		Air	Dichlorodifluoromethane	
60B		Air	Ethylbenzene	
60B		Air	Hexachlorobutadiene	
60B		Air	lsopropylbenzene	
60B		Air	Methylene Chloride	
60B		Air	Methyl-tert-butyl Ether (M	1TBE)
60B		Air	Naphthalene	
60B		Air	n-Butylbenzene	
60B		Air	N-Propylbenzene	
60B		Air	sec-Butylbenzene	
60B		Air	Styrene	
60B		Air	tert-Butylbenzene	
60B		Air	Tetrachloroethene (PCE)	
60B		Air	Toluene	
60B		Air	trans-1,2-Dichloroethene	
60B		Air	trans-1,3-Dichloropropen	e
60B		Air	Trichloroethene (TCE)	
60B		Air	Trichlorofluoromethane	
60B		Air	Vinyl chloride	
60B		Air	Xylenes, Total	
	NELA	Р	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

Job ID: 885-12289-1

Eurofins Albuquerque

Accreditation/Certification Summary

Client: Hilcorp Energy Project/Site: Scott 4M

8260B

Authority

Job ID: 885-12289-1

Laboratory: Eurofins Albuquerque (Continued) Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below. Identification Number **Expiration Date** Program 5 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 Air 1-Methylnaphthalene 2,2-Dichloropropane Air Air 2-Butanone Air 2-Chlorotoluene Air 2-Hexanone Air 2-Methylnaphthalene 9 Air 4-Chlorotoluene 4-Isopropyltoluene Air 4-Methyl-2-pentanone Air Air Acetone Air Benzene Air Bromobenzene Bromodichloromethane Air Air Bromoform Bromomethane Air Air Carbon disulfide Carbon tetrachloride Air Air Chlorobenzene Air Chloroethane Chloroform Air Air Chloromethane cis-1,2-Dichloroethene Air cis-1,3-Dichloropropene Air Dibromochloromethane Air Air Dibromomethane Dichlorodifluoromethane Air Air Ethylbenzene Air Hexachlorobutadiene Air Isopropylbenzene Methylene Chloride Air Methyl-tert-butyl Ether (MTBE) Air Naphthalene Air Air n-Butylbenzene Air N-Propylbenzene sec-Butylbenzene Air Air Styrene tert-Butylbenzene Air Tetrachloroethene (PCE) Air Toluene Air Air trans-1,2-Dichloroethene Air trans-1,3-Dichloropropene Trichloroethene (TCE) Air Trichlorofluoromethane Air Vinyl chloride Air

Xylenes, Total

Air



ANALYTICAL SUMMARY REPORT

September 27, 2024

Work Order:

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

B24092169 Quote ID: B15626

Project Name: Scott 4M, 88501698

Energy Laboratories Inc Billings MT received the following 1 sample for Hall Environmental on 9/24/2024 for analysis.

Lab ID	Client Sample ID	Collect Date Receive Date	Matrix	Test
B24092169-001	SVE-1 (885-12289-1)	09/18/24 13:30 09/24/24	Air	Air Correction Calculations Appearance and Comments Calculated Properties GPM @ std cond,/1000 cu. ft., mois 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:
 Hall Environmental

 Project:
 Scott 4M, 88501698

 Lab ID:
 B24092169-001

 Client Sample ID:
 SVE-1 (885-12289-1)

 Report Date:
 09/27/24

 Collection Date:
 09/18/24 13:30

 DateReceived:
 09/24/24

 Matrix:
 Air

					MCL/		
Analyses	Result	Units	Qualifiers	RL	QCL	Method	Analysis Date / By
GAS CHROMATOGRAPHY ANALYSIS F	REPORT						
Oxygen	22.10	Mol %		0.01		GPA 2261-95	09/25/24 11:29 / jrj
Nitrogen	77.81	Mol %		0.01		GPA 2261-95	09/25/24 11:29 / jrj
Carbon Dioxide	0.06	Mol %		0.01		GPA 2261-95	09/25/24 11:29 / jrj
Hydrogen Sulfide	<0.01	Mol %		0.01		GPA 2261-95	09/25/24 11:29 / jrj
Methane	<0.01	Mol %		0.01		GPA 2261-95	09/25/24 11:29 / jrj
Ethane	<0.01	Mol %		0.01		GPA 2261-95	09/25/24 11:29 / jrj
Propane	<0.01	Mol %		0.01		GPA 2261-95	09/25/24 11:29 / jrj
Isobutane	<0.01	Mol %		0.01		GPA 2261-95	09/25/24 11:29 / jrj
n-Butane	<0.01	Mol %		0.01		GPA 2261-95	09/25/24 11:29 / jrj
Isopentane	<0.01	Mol %		0.01		GPA 2261-95	09/25/24 11:29 / jrj
n-Pentane	<0.01	Mol %		0.01		GPA 2261-95	09/25/24 11:29 / jrj
Hexanes plus	0.03	Mol %		0.01		GPA 2261-95	09/25/24 11:29 / jrj
Propane	< 0.001	gpm		0.001		GPA 2261-95	09/25/24 11:29 / jrj
Isobutane	< 0.001	gpm		0.001		GPA 2261-95	09/25/24 11:29 / jrj
n-Butane	< 0.001	gpm		0.001		GPA 2261-95	09/25/24 11:29 / jrj
Isopentane	< 0.001	gpm		0.001		GPA 2261-95	09/25/24 11:29 / jrj
n-Pentane	< 0.001	gpm		0.001		GPA 2261-95	09/25/24 11:29 / jrj
Hexanes plus	0.013	gpm		0.001		GPA 2261-95	09/25/24 11:29 / jrj
GPM Total	0.013	gpm		0.001		GPA 2261-95	09/25/24 11:29 / jrj
GPM Pentanes plus	0.013	gpm		0.001		GPA 2261-95	09/25/24 11:29 / jrj
CALCULATED PROPERTIES							
Gross BTU per cu ft @ Std Cond. (HHV)	1			1		GPA 2261-95	09/25/24 11:29 / jrj
Net BTU per cu ft @ std cond. (LHV)	1			1		GPA 2261-95	09/25/24 11:29 / jrj
Pseudo-critical Pressure, psia	546			1		GPA 2261-95	09/25/24 11:29 / jrj
Pseudo-critical Temperature, deg R	239			1		GPA 2261-95	09/25/24 11:29 / jrj
Specific Gravity @ 60/60F	0.999			0.001		D3588-81	09/25/24 11:29 / jrj
Air, % - The analysis was not corrected for air.	100.97			0.01		GPA 2261-95	09/25/24 11:29 / jrj

COMMENTS

09/25/24 11:29 / 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 5 6

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QA/QC Summary Report

Prepared by Billings, MT Branch

				rioparoa	by Diningo, m	Diane					
Client:	Hall Environmental				Work Order:	B2409	2169	Repor	t Date:	09/27/24	
Analyte		Count Re	esult	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method:	GPA 2261-95									Batch:	R429509
Lab ID:	B24092171-001ADUP	12 Sample	Duplic	cate			Run: GCNG	A-B_240925A		09/25	/24 01:07
Oxygen			18.9	Mol %	0.01				0.5	20	
Nitrogen			78.5	Mol %	0.01				0.1	20	
Carbon [Dioxide		2.52	Mol %	0.01				1.2	20	
Hydroge	n 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	
Isobutan	e	<	:0.01	Mol %	0.01					20	
n-Butane	9	<	:0.01	Mol %	0.01					20	
Isopenta	ne	<	:0.01	Mol %	0.01					20	
n-Pentar	ne	<	:0.01	Mol %	0.01					20	
Hexanes	plus		0.11	Mol %	0.01				8.7	20	
Lab ID:	LCS092524	11 Laborate	ory Co	ntrol Sample	e		Run: GCNG	A-B_240925A		09/25	/24 02:45
Oxygen			0.65	Mol %	0.01	130	70	130			
Nitrogen			6.12	Mol %	0.01	102	70	130			
Carbon [Dioxide		0.98	Mol %	0.01	99	70	130			
Methane			75.0	Mol %	0.01	100	70	130			
Ethane			5.99	Mol %	0.01	100	70	130			
Propane			5.02	Mol %	0.01	102	70	130			
Isobutan	e		1.40	Mol %	0.01	70	70	130			
n-Butane	9		1.99	Mol %	0.01	99	70	130			
Isopenta	ne		1.01	Mol %	0.01	101	70	130			
n-Pentar	ne		1.00	Mol %	0.01	100	70	130			
Hexanes	plus		0.79	Mol %	0.01	99	70	130			

ND - Not detected at the Reporting Limit (RL)

Hall Environmental

ENERGY (

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LABORATORIES				/
Work Or	der l	Receipt	Check	dist

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B24092169

Login completed by:	Danielle N. Harris		Date F	Received: 9/24/2024
Reviewed by:	mstephens		Rec	eived by: SAY
Reviewed Date:	9/25/2024		Carri	er name: FedEx NDA
Shipping container/cooler in	good condition?	Yes 🗹	No 🗌	Not Present
Custody seals intact on all sl	hipping container(s)/cooler(s)?	Yes	No 🗌	Not Present 🗹
Custody seals intact on all sa	ample bottles?	Yes	No 🗌	Not Present 🗹
Chain of custody present?		Yes 🗹	No 🗌	
Chain of custody signed whe	en relinquished and received?	Yes 🗹	No 🗌	
Chain of custody agrees with	n 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 c such as pH, DO, Res Cl, Su	onsidered field parameters	Yes 🗹	No 🗌	
Temp Blank received in all sl	hipping container(s)/cooler(s)?	Yes	No 🗹	Not Applicable
Container/Temp Blank tempe	erature:	21.5°C No Ice		
Containers requiring zero heabubble 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

Eurofins Albuquerque 4901 Hawkins NE Albuquerque, NM 87109 Phone: 505-345-3975 Fax: 505-345-4107	0	Chain of Custody Record	cord		🐝 eurofins 🛛 Environment Testing
ct Lab)	Sampler:	Lab PM: Garcia	Lab PM: Garcia, Michelle	Carrier Tracking No(s):	COC No: 885-2088.1
	Phone:	E-Mail: michel	E-Mail: michelle.garcia@et.eurofinsus.com	State of Origin: New Mexico	Page: Page 1 of 1
Company: Energy Laboratories, Inc.		¥Ζ	Accreditations Required (See note): NELAP - Oregon; State - New Mexico		Job #: 885-12289-1
-	Due Date Requested: 9/27/2024		Analysis	Analysis Requested	Preservation Codes:
	TAT Requested (days):				
MT, 59101 Phone: Area soscitain	PO#				
For zuroval reij	# OM		(0N		5.
Project Name: Scott 4M	Project #: 88501698	58 <u>7)</u> 8	I TO Se		renist
	:#MOSS	ames	Y) as		of con
(D) do 1) (D anoin) - motivorititando o lormo 2	Sample		WXM more		otal Number
Sample Idenuication - Cient ID (Lab ID)	Sample Date 11me G=g	Preservation Code:			E Special Instructions/Note:
SVE-1 (885-12289-1)	9/18/24 13:30 (G Air	×		See Attached Instructions
					B74092169
		5			
Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC 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 Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attentions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attentions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC.	nt Testing South Central, LLC places the or bove for analysis/tests/matrix being analyze antral, LLC attention immediately. If all requ	wnership of method, analy ad, the samples must be s lested accreditations are	rile & accreditation compliance upon our hipped back to the Eurofins Environme current to date, return the signed Chain	subcontract laboratories. This sample ship tt Testing South Central, LLC laboratory or of Custody attesting to said compliance to I	pment is forwarded under chain-of-custody. If the other instructions will be provided. Any changes to Eurofins Environment Testing South Central, LLC.
Possible Hazard Identification			Sample Disposal (A fee may	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) \square	ined longer than 1 month)
Deliverable Requested: I, II, III, IV, Other (specify)	Primary Deliverable Rank: 2		Special Instructions/QC Requirements	oosal by Lab	Archive For Months
Empty Kit Relinquished by:	Date:	1	Time:	Method of Shipment:	
U.C.A.C.	Date Ting: 133 / 124 122	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time.	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	4 0955 Company
Custody Seals intact: Custody Seal No.: A Yes A No			Codier Temperature(s) ^a bland O	and Other Remarks:	
					Ver: 05/06/2024

HALL ENVIRONMENTAL HALL ENVIRONMENTAL ANALYSIS LABOR ANALYSIS LABOR www.hallenvironmental.com 4901 Hawkins NE - Albuquerque, NM 8710! 4505-345-3975 Fax 505-345-4107	TPH:80150(GRO / DRO / MRO) PPH:80150(GRO / DRO / MRO) B081 Pesticides/8082 PCB's B081 Pesticides/8082 PCB's Cl, F, BE, MO3, NO2, PO4, SO4 Cl, F, BF, NO3, NO2, PO4, SO4 Cl, F, BF, NO3, NO2, PO4, SO4 B200 (VOA)	Date Time Date Time Remarks: $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
Turn-Around Time: Standard Rush Project Name: Scoft 4M Project #:	Project Manager: M: f.c.A. K: I lough Sampler: Brandon S: i.e. [a:r On Ice: DYes No Chucky # of Coolers: 1 Type and # Type 2 Ted lar 2 Ted lar 1 BTEX/ MTBE/ TMB's (8021)	Via:
Client: H; /cerρ Mailing Address:	Prome #: Finite #: Project Mana CAXC Package: CAXC Package: Project Mana CAXC Package: CAXC Package: Project Mana CAXC Package: Accreditation: Az Compliance Project Mana CAST Package: Az Compliance Sampler: Br Br Instandard On los: On los: Project Mana Project Mana Container Project Mana Pacreditation: Az Compliance On los: Project Mana Instance Instance Container Project Mana Pacreditation: Az Compliance Container Project Mana Pacreditation: Az Compliance Conterremp Conterremp Pate Time Matrix Sample Name Container Pag9-18 1330 A: K E-1 2 TedIar Partine 1333 A: K E-1 2 TedIar	Date: Time: Relinquished by: 1/9/14 13/4 Model 1/9/14 11 Model 1/9/14 11 Model 1/9/14 11 Model

Login Sample Receipt Checklist

Client: Hilcorp Energy

Login Number: 12289 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	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	

List Source: Eurofins Albuquerque

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District I 1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720 District II

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

District IV

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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	392557
	Action Type:
	[REPORT] Alternative Remediation Report (C-141AR)

CONDITIONS

Created By	Condition	Condition Date
nvelez	1. Continue O&M & sampling as stated in report. 2. Submit next quarterly report by January 15, 2025.	10/25/2024

Page 46 of 46

Action 392557