**REVIEWED** By Mike Buchanan at 10:00 am, Apr 02, 2024



ENSOLUM

January 11, 2024

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

Received for the Record: Content Satisfactory 1. Continue to conduct O&M as scheduled 2. Submit next report as scheduled, annually or biannually.

Re: Fourth Quarter 2023 – 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 2023 – 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 2023.

#### 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 2023 ACTIVITIES

During the fourth quarter of 2023, 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. During the fourth quarter of 2023, vacuum was applied to SVE wells SVE01 through SVE05 in order to induce flow in impacted soil zones. Between September 27 and December 20, 2023, the SVE system operated for 2,014.7 hours for a runtime efficiency of 100 percent (%). Photographs Hilcorp Energy Company Fourth Quarter 2023 – SVE System Update Scott 4M

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.

A fourth quarter 2023 air sample was collected on November 27, 2023, from a sample port located between the SVE piping manifold and the SVE blower, using a high vacuum air sampler. Prior to collection, the emission sample was field screened with a photoionization detector (PID) for organic vapor monitoring (OVM). The emission sample was collected directly into two 1-Liter Tedlar<sup>®</sup> bags and submitted to Eurofins Environment Testing (Formerly Hall Environmental Analysis Laboratory) 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.

Air 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, 8,312 pounds (4.2 tons) of TVPH have been removed by the system to date.

#### RECOMMENDATIONS

Based on the calculated mass removal rate from the fourth quarter 2023 vapor sampling event, the SVE system continues to remove approximately 4 pounds of TVPH per day, equivalent to approximately 1,460 pounds of TVPH per year. Although mass removal has remained asymptotic throughout 2023, the SVE system remains an effective remedy for remediating impacted soil at the site. 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 Senior Geologist (970) 903-1607 shyde@ensolum.com

Daniel R. Moir, PG Senior Managing Geologist (303) 887-2946 dmoir@ensolum.com



Hilcorp Energy Company Fourth Quarter 2023 – 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
Appendix A	Field Notes
Appendix B	Project Photographs

Appendix C Laboratory Analytical Reports

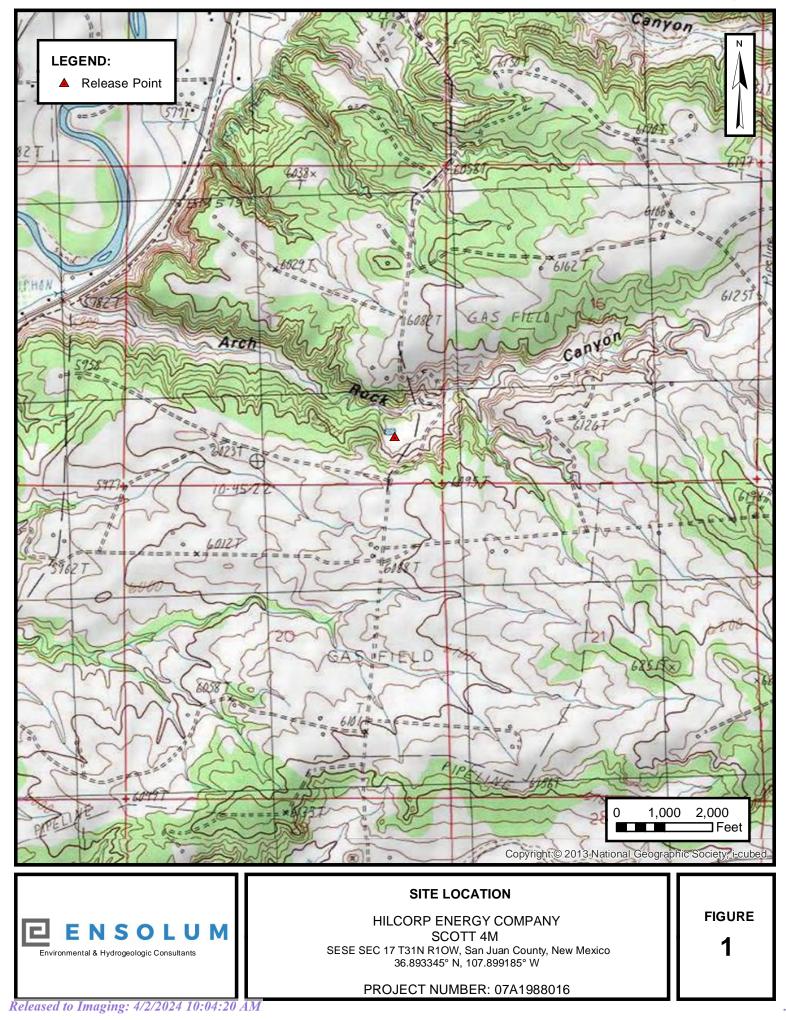
Page 3





FIGURES

Received by OCD: 1/11/2024 10:21:19 AM







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
9/27/2023	15,052			
12/20/2023	17,066	2,014.7	84.0	100%

# E N S O L U M

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 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%

#### 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

## E ENSOLUM

TABLE 3 SOIL VAPOR EXTRACTION SYSTEM MASS REMOVAL AND EMISSIONS Scott 4M Hilcorp Energy Company San Juan County, New Mexico

		I	aboratory Analys	sis		
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
Average	227	37	274	34	325	16,582

Vapor Extraction Summary								
Date	Flow Rate (cfm)	Total System Flow (cf)	Delta Flow (cf)	Benzene (Ib/hr)	Toluene (lb/hr)	Ethylbenzene (lb/hr)	Total Xylenes (lb/hr)	TVPH (lb/hr)
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	0.0017	0.014	0.0018	0.016	0.88
3/15/2022	8.0	3,519,486	413,328	0.0013	0.011	0.0014	0.015	1.0
6/16/2022	14	4,412,322	892,836	0.0010	0.012	0.0017	0.018	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	0.0010	0.013	0.0021	0.024	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
			Average	0.0019	0.012	0.0013	0.014	0.72

				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
	Total Mass	Recovery to Date	19	134	16	179	8,312	4.2

#### 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

lb/hr: pounds per hour

--: not sampled

PID: photoionization detector

ppm: parts per million

TVPH: total volatile petroleum hydrocarbons



APPENDIX A

**Field Notes** 

# **SCOTT 4M SVE SYSTEM BIWEEKLY O&M FORM**

DATE: TIME ONSITE:

1 m

10-13

O&M PERSONNEL: B Sinclair TIME OFFSITE:

	SVE SY	STEM - MONTHLY O&	M	
SVE ALARMS:	A second and a second and a second as	KO TANK HIGH LEVEL	and the second of the second s	
SVE SYSTEM	READING	TIME	TIME	R SETTINGS
Blower Hours (take photo)	15435.9	1519	Month	Timer Setting
Voltage In	and the second se		January	8 AM to 7 PM
Amperage In	Contraction of the second second	Providence and the second second	February	8 AM to 7 PM
Voltage Out	The second s		March	8 AM to 8 PM
Amperage Out	the same of an and and a state of the second state where		April	8 AM to 9 PM
KiloWatts	and the second		May	7 AM to 9 PM
KiloWatt-Hours	and the second second program and the second second		June	6 AM to 9 PM
Solar Controller Status	The Property of the second of the second second		July	6 AM to 9 PM
Fre K/O Vacuum (IWC)	- 55		August	7 AM to 9 PM
Inlet Rotameter Flow (scfm)	.50	CALL MENT AND	September	8 AM to 9 PM
Inlet PID	194.2		October	8 AM to 8 PM
Exhaust PID	151.4		November	9 AM to 8 PM
Solar Panel Angle			December	8 AM to 6 PM
K/O Tank Drum Level	The second second and the second s		Terrane and the first fi	Constant Provide Substantiant
K/O Liquid Drained (gallons)	And the second			

Timer	Setting	Neg.
		10000

	SVE SYSTEM - QUARTERLY SAMPLING
SAMPLE ID:	SAMPLE TIME:
Analytes: TVPH (8015), VOC	s (8260), Fixed Gas (CO/CO2/O2)
OPERATING WELLS	

Change in Well Operation:				
LOCATION	VACUUM (IWC)	PID HEADSPACE (PPM)	ADJUSTMENTS	
SVE01		263.5		
SVE02		78		
SVE03		39.6		
SVE04		1714		
SVE05		- 1/1.7	A PARTY AND AND A PARTY AND A	
SVE06 (OBSERVATION WELL)				
SVE07 (OBSERVATION WELL)				

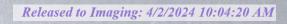


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			and the second sec	
DATE: TIME ONSITE:	Se B 10-30	COTT 4M SVE SYSTEM IWEEKLY O&M FORM O&M PERSONNEL: TIME OFFSITE:	B Sinclai	
	SVI	E SYSTEM - MONTHLY O&M	A CONTRACT OF A	AT A CONTRACT OF
SVE ALARMS:		KO TANK HIGH LEVEL	A REAL PROPERTY OF THE REAL PR	
SVE SYSTEM	READING		An and the second s	
Blower Hours (take photo)	15844.4	TIME	THE REPORT OF A DESCRIPTION OF A DESCRIP	R SETTINGS
Voltage In	10077.7	1543	Month	Timer Setting
Amperage In			January	8 AM to 7 PM
Voltage Out			February	8 AM to 7 PM
Amperage Out			March	8 AM to 8 PM
KiloWatts	AN AND AND AND AND AND AND AND AND AND A		April	8 AM to 9 PM
KiloWatt-Hours			May	7 AM to 9 PM
Solar Controller Status			June	6 AM to 9 PM
K/O Vacuum (IWC)	-58		July	6 AM to 9 PM
Inlet Rotameter Flow (scfm)	57		August	7 AM to 9 PM
Inlet PID	65		September	8 AM to 9 PM
Exhaust PID	151.4		October	8 AM to 8 PM
Solar Panel Angle			November	9 AM to 8 PM
K/O Tank Drum Level			December	8 AM to 6 PM
K/O Liquid Drained (gallons)	4.5	The second s		
Timer Setting				
	SVE SYS	STEM - QUARTERLY SAMPLI	NG	
SAMPLE ID: Analytes: TV	PH (8015), VOCs (8260), Fix	SAMPLE TIME:	A STREET	
OPERATING WELLS		The second s	and an a stringer first operation of the second	provide the second s
Change in Well Operation:				
LOCATION	VACUUM (IWC)	PID HEADSPACE (PPM)	ADJUSTMENTS	
SVE01		72.9		
SVE02		42.6		
SVE03		22.3		
SVE04	A CANADA STRATEGICAL AND A CANADA	14.7		
SVE05		47.8		
E06 (OBSERVATION WELL)			England States and States and	

2

# COMMENTS/OTHER MAINTENANCE:

Rea



DATE: TIME ONSITE:	S B 11-13	COTT 4M SVE SYSTEM IWEEKLY O&M FORM O&M PERSONNEL: TIME OFFSITE:	B Sinchail	
	SV	E SYSTEM - MONTHLY O&N	M	the state of the state of the
SVE ALARMS:		and the second of a basis of the second	and the second second	
		KO TANK HIGH LEVEL		
SVE SYSTEM	READING			
Blower Hours (take photo)	16177 0	TIME		ER SETTINGS
Voltage In	101/10	1123	Month	Timer Setting
Amperage In			January	8 AM to 7 PM
Voltage Out	A CONTRACTOR OF THE OWNER	the second s	February	8 AM to 7 PM
Amperage Out	and the second		March	8 AM to 8 PM
KiloWatts			April	8 AM to 9 PM
KiloWatt-Hours			May	7 AM to 9 PM
Solar Controller Status	The second s		June	6 AM to 9 PM
st PrcK/O Vacuum (IWC)	- 58		July	6 AM to 9 PM
Inlet Rotameter Flow (scfm)			August	7 AM to 9 PM
Inlet PID	- 54		September	8 AM to 9 PM
Exhaust PID	76.6	and the second	October	8 AM to 8 PM
Solar Panel Angle	137.3	and the second and the	November	9 AM to 8 PM
K/O Tank Drum Level		and the second second second	December	8 AM to 6 PM
K/O Liquid Drained (gallons)	4		A The Part of States	
Timer Setting	9			
Timer Setting	To Paralesta and a second second			
A CARLER AND A CARDON AND A CARD	SVE SVS	STEM - QUARTERLY SAMPI	NC	
SAMPLE ID:		SAMPLE TIME:	TING	
Analytes: TVI	PH (8015), VOCs (8260), Fix	red Gas (CO/CO2/O2)		The second states and
OPERATING WELLS		(CO/CO2/O2)		and a second
nange in Well Operation:				
LOCATION	VACUUM (IWC)	PID HEADSPACE (PPM)		
SVE01		214.8	ADJUSTMENTS	
SVE02		63.9		the second s
SVE03		218		
SVE04		528		

SVE05	63.7	
SVE06 (OBSERVATION WELL)		
SVE07 (OBSERVATION WELL)	and the state of the second	

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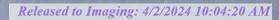
# SCOTT 4M SVE SYSTEM BIWEEKLY O&M FORM

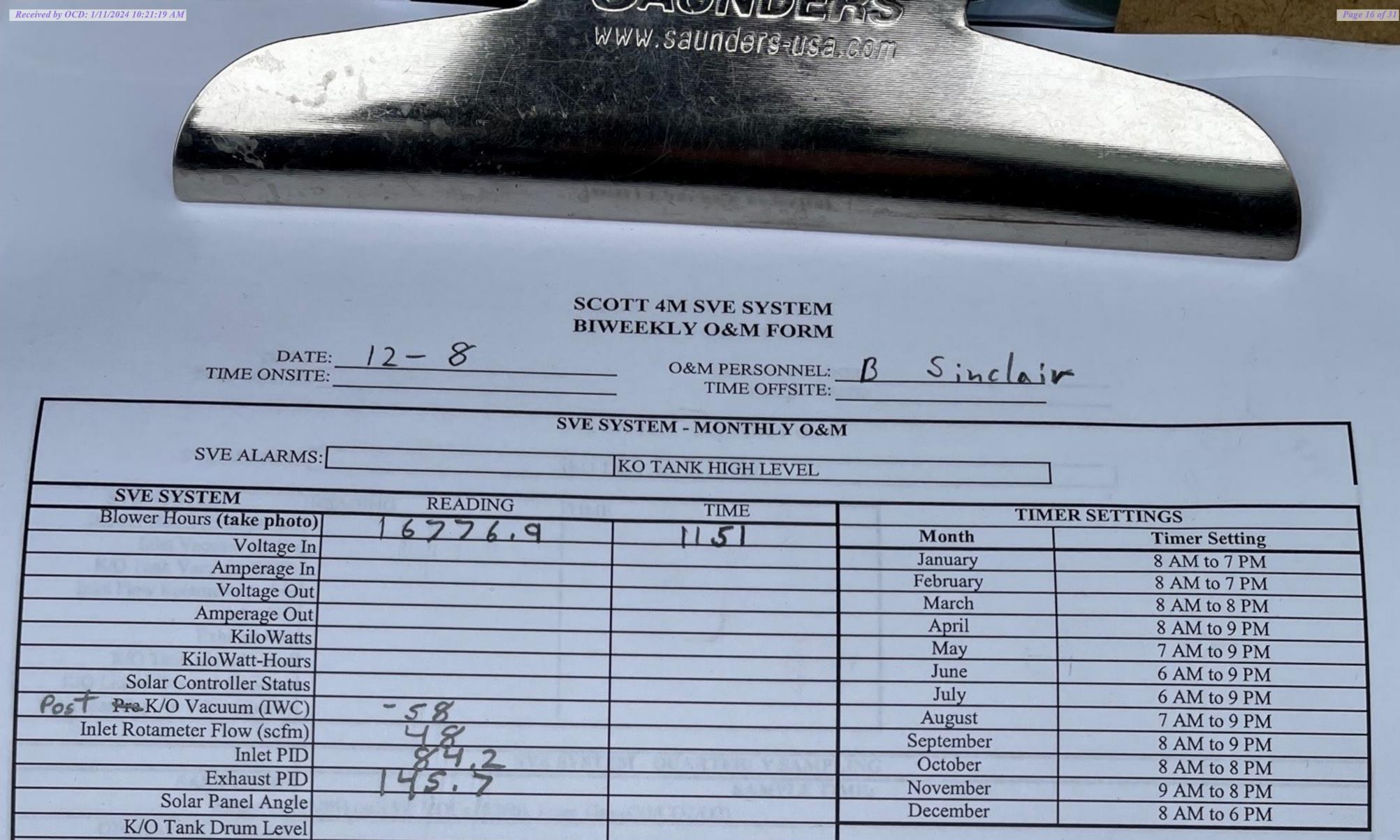
DATE: 11-27 TIME ONSITE:

O&M PERSONNEL: TIME OFFSITE:

Sinclair B

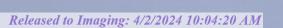
	SVE	SYSTEM - MONTHLY O&N	М			
SVE ALARMS:	SVE ALARMS: KO TANK HIGH LEVEL					
SVE SYSTEM	READING			The second s		
Blower Hours (take photo)	I CLADING	TIME	TIMER SETTINGS			
Voltage In	10313.6	1212	Month	Timer Setting		
and the second			January	8 AM to 7 PM		
Amperage In			February	8 AM to 7 PM		
Voltage 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		
K/O Vacuum (IWC)	-58		August	7 AM to 9 PM		
Inlet Rotameter Flow (scfm)	50		September	8 AM to 9 PM		
Inlet PID	128,8/		October	8 AM to 8 PM		
Exhaust PID	223.8		November	9 AM to 8 PM		
Solar Panel Angle			December	8 AM to 6 PM		
K/O Tank Drum Level		and the state of the second				
K/O Liquid Drained (gallons)	12					
Timer Setting						
	SVE SYS	STEM - QUARTERLY SAMPI	LING			
SAMPLE ID:		SAMPLE TIME:		All and a second second		
	/PH (8015), VOCs (8260), Fix	ted Gas (CO/CO2/O2)		all and a second and a		
OPERATING WELLS				行行的地址的开始定义的理论的问题。		
Change in Well Operation:						
LOCATION	VACUUM (IWC)	PID HEADSPACE (PPM)	ADJUSTMENTS			
SVE01	(1100 0 m (110)	Z75.9	1 LOUGHINE (1)			
SVE01 SVE02		59.3				
SVE02 SVE03		63				
		54.1				
SVEOA		1441				
SVE04		177.1				
SVE04 SVE05 E06 (OBSERVATION WELL) E07 (OBSERVATION WELL)						





K/O Liquid Drained (gallons)	The second se
Timer Setting	

	SVE SYS	<b>TEM - QUARTERLY SAMPI</b>	LING	
SAMPLE ID:		SAMPLE TIME:	The second se	and and a state of the state of
Analytes:	TVPH (8015), VOCs (8260), Fixe			
OPERATING WELLS	(		And the second s	
	When any shift is any share the second and	and a state of the	The second secon	
Change in Well Operation:				
L				
TOCHERON				
LOCATION	VACUUM (IWC)	PID HEADSPACE (PPM)	ADJUSTMENTS	
SVE01		290.8		
SVE02		63.5		to the second party and an and the second party of the second second second second second second second second
SVE03		46.7		
SVE04		10 7		
SVE05		701		
SVE06 (OBSERVATION WELL)		17.0		
SVE07 (OBSERVATION WELL)				



# SCOTT 4M SVE SYSTEM BIWEEKLY O&M FORM

DATE: 12-20 TIME ONSITE:

O&M PERSONNEL: TIME OFFSITE: B Sinclair

12

# **SVE SYSTEM - MONTHLY O&M**

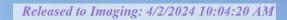
SVE ALARMS:

KO TANK HIGH LEVEL

SVE SYSTEM -	READING	TIME	TIM	IER SETTINGS
Blower Hours (take photo)	17066.4	1325	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
Post Pre K/O Vacuum (IWC)	- 60		August	7 AM to 9 PM
Inlet Rotameter Flow (scfm)	37		September	8 AM to 9 PM
Inlet PID	106.4		October	8 AM to 8 PM
Exhaust PID	162.4		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)	5.5			
Timer Setting				

	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		240.2		
SVE02		19,6		
SVE03		59.3		
SVE04		26,2		
SVE05		01.6		
SVE06 (OBSERVATION WELL)				
SVE07 (OBSERVATION WELL)				

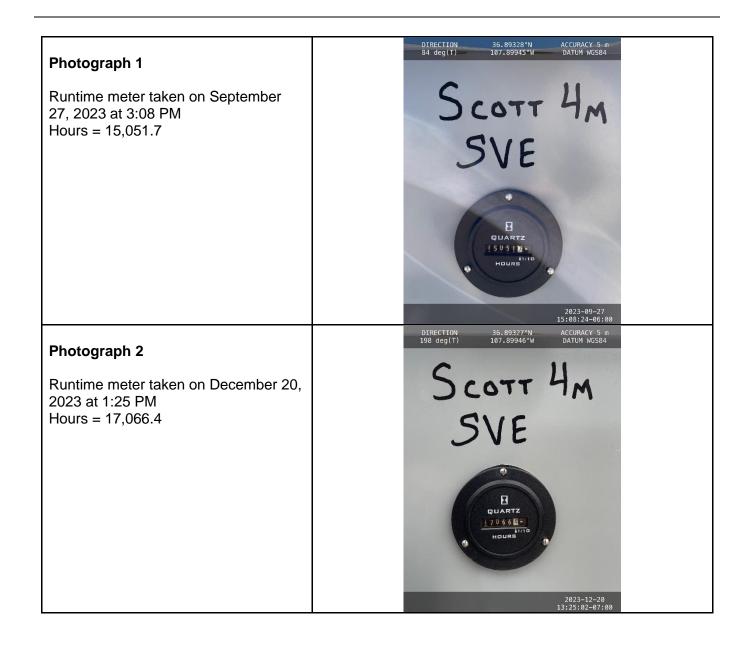




APPENDIX B

**Project Photographs** 

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





APPENDIX C

Laboratory Analytical Reports



Environment Testing

Eurofins Environment Testing South Central, LLC 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

December 12, 2023 Mitch Killough HILCORP ENERGY PO Box 4700 Farmington, NM 87499 TEL: (505) 564-0733

RE: Scott 4M

FAX:

OrderNo.: 2311C50

Dear Mitch Killough:

Eurofins Environment Testing South Central, LLC received 1 sample(s) on 11/28/2023 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please do not hesitate to contact Eurofins Albuquerque for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

**Analytical Report** 

### Hall Environmental Analysis Laboratory, Inc.

Lab Order 2311C50 Date Reported: 12/12/2023

CLIENT: HILCORP ENERGY		Client	Sample ID:	SVE-1	l		
<b>Project:</b> Scott 4M		Colle	ection Date:	11/27/	2023 12:40:00 PM		
Lab ID: 2311C50-001	Matrix: AIR	Rec	Received Date: 11/28/2023 6:45:00 AM				
Analyses	Result	RL Q	ual Units	DF	Date Analyzed		
EPA METHOD 8015D: GASOLINE RAM	NGE				Analyst: <b>JJP</b>		
Gasoline Range Organics (GRO)	860	25	µg/L	5	12/7/2023 1:30:49 PM		
Surr: BFB	538	15-412	S %Rec	5	12/7/2023 1:30:49 PM		
EPA METHOD 8260B: VOLATILES					Analyst: CCN		
Benzene	0.86	0.50	µg/L	5	12/6/2023 2:32:00 PM		
Toluene	11	0.50	µg/L	5	12/6/2023 2:32:00 PM		
Ethylbenzene	1.5	0.50	µg/L	5	12/6/2023 2:32:00 PM		
Methyl tert-butyl ether (MTBE)	ND	0.50	µg/L	5	12/6/2023 2:32:00 PM		
1,2,4-Trimethylbenzene	1.9	0.50	µg/L	5	12/6/2023 2:32:00 PM		
1,3,5-Trimethylbenzene	2.3	0.50	µg/L	5	12/6/2023 2:32:00 PM		
1,2-Dichloroethane (EDC)	ND	0.50	µg/L	5	12/6/2023 2:32:00 PM		
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	5	12/6/2023 2:32:00 PM		
Naphthalene	ND	1.0	µg/L	5	12/6/2023 2:32:00 PM		
1-Methylnaphthalene	ND	2.0	µg/L	5	12/6/2023 2:32:00 PM		
2-Methylnaphthalene	ND	2.0	µg/L	5	12/6/2023 2:32:00 PM		
Acetone	ND	5.0	μg/L	5	12/6/2023 2:32:00 PM		
Bromobenzene	ND	0.50	µg/L	5	12/6/2023 2:32:00 PM		
Bromodichloromethane	ND	0.50	µg/L	5	12/6/2023 2:32:00 PM		
Bromoform	ND	0.50	µg/L	5	12/6/2023 2:32:00 PM		
Bromomethane	ND	1.0	µg/L	5	12/6/2023 2:32:00 PM		
2-Butanone	ND	5.0	µg/L	5	12/6/2023 2:32:00 PM		
Carbon disulfide	ND	5.0	µg/L	5	12/6/2023 2:32:00 PM		
Carbon tetrachloride	ND	0.50	µg/L	5	12/6/2023 2:32:00 PM		
Chlorobenzene	ND	0.50	µg/L	5	12/6/2023 2:32:00 PM		
Chloroethane	ND	1.0	µg/L	5	12/6/2023 2:32:00 PM		
Chloroform	ND	0.50	µg/L	5	12/6/2023 2:32:00 PM		
Chloromethane	ND	0.50	µg/L	5	12/6/2023 2:32:00 PM		
2-Chlorotoluene	ND	0.50	μg/L	5	12/6/2023 2:32:00 PM		
4-Chlorotoluene	ND	0.50	µg/L	5	12/6/2023 2:32:00 PM		
cis-1,2-DCE	ND	0.50	µg/L	5	12/6/2023 2:32:00 PM		
cis-1,3-Dichloropropene	ND	0.50	µg/L	5	12/6/2023 2:32:00 PM		
1,2-Dibromo-3-chloropropane	ND	1.0	µg/L	5	12/6/2023 2:32:00 PM		
Dibromochloromethane	ND	0.50	µg/L	5	12/6/2023 2:32:00 PM		
Dibromomethane	ND	1.0	µg/L	5 5	12/6/2023 2:32:00 PM		
1,2-Dichlorobenzene	ND ND	0.50 0.50	µg/L	5 5	12/6/2023 2:32:00 PM 12/6/2023 2:32:00 PM		
1,3-Dichlorobenzene 1,4-Dichlorobenzene		0.50	µg/L	5 5	12/6/2023 2:32:00 PM		
	ND		µg/L	5 5			
Dichlorodifluoromethane	ND	0.50	µg/L	5 5	12/6/2023 2:32:00 PM 12/6/2023 2:32:00 PM		
1,1-Dichloroethane 1,1-Dichloroethene	ND ND	0.50 0.50	μg/L μg/L	5 5	12/6/2023 2:32:00 PM		

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

\* Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix

Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

% Recovery outside of standard limits. If undiluted results may be estimated. S

Analyte detected in the associated Method Blank в

Above Quantitation Range/Estimated Value Е

J Analyte detected below quantitation limits Р

Sample pH Not In Range

RL Reporting Limit Page 1 of 2

**CLIENT: HILCORP ENERGY** 

Analytical Report
Lab Order 2311C50

Date Reported: 12/12/2023

Hall	Environment	tal Anal	vsis La	aboratory	, Inc.

Client Sample ID: SVE-1 Collection Date: 11/27/2023 12:40:00 PM

Project:	Scott 4M		Collec	tion Date	: 11/27/	2023 12:40:00 PM		
Lab ID:	2311C50-001	Matrix: AIR	Rece	Received Date: 11/28/2023 6:45:00 AM				
Analyses		Result	RL Qua	al Units	DF	Date Analyzed		
EPA ME	THOD 8260B: VOLATILES					Analyst: CCM		
1,2-Dich	loropropane	ND	0.50	µg/L	5	12/6/2023 2:32:00 PM		
1,3-Dich	loropropane	ND	0.50	µg/L	5	12/6/2023 2:32:00 PM		
2,2-Dich	loropropane	ND	0.50	µg/L	5	12/6/2023 2:32:00 PM		
1,1-Dich	loropropene	ND	0.50	µg/L	5	12/6/2023 2:32:00 PM		
Hexachle	orobutadiene	ND	0.50	µg/L	5	12/6/2023 2:32:00 PM		
2-Hexan	one	ND	5.0	µg/L	5	12/6/2023 2:32:00 PM		
Isopropy	lbenzene	0.61	0.50	µg/L	5	12/6/2023 2:32:00 PM		
4-Isopro	pyltoluene	ND	0.50	µg/L	5	12/6/2023 2:32:00 PM		
4-Methyl	-2-pentanone	ND	5.0	µg/L	5	12/6/2023 2:32:00 PM		
Methyler	ne chloride	ND	1.5	µg/L	5	12/6/2023 2:32:00 PM		
n-Butylb	enzene	ND	1.5	µg/L	5	12/6/2023 2:32:00 PM		
n-Propyl	benzene	0.57	0.50	µg/L	5	12/6/2023 2:32:00 PM		
sec-Buty	lbenzene	ND	0.50	µg/L	5	12/6/2023 2:32:00 PM		
Styrene		ND	0.50	µg/L	5	12/6/2023 2:32:00 PM		
tert-Buty	lbenzene	ND	0.50	µg/L	5	12/6/2023 2:32:00 PM		
1,1,1,2-1	<b>Fetrachloroethane</b>	ND	0.50	µg/L	5	12/6/2023 2:32:00 PM		
1,1,2,2-1	Fetrachloroethane	ND	0.50	µg/L	5	12/6/2023 2:32:00 PM		
Tetrachle	oroethene (PCE)	ND	0.50	µg/L	5	12/6/2023 2:32:00 PM		
trans-1,2	2-DCE	ND	0.50	µg/L	5	12/6/2023 2:32:00 PM		
trans-1,3	3-Dichloropropene	ND	0.50	µg/L	5	12/6/2023 2:32:00 PM		
1,2,3-Tri	chlorobenzene	ND	0.50	µg/L	5	12/6/2023 2:32:00 PM		
1,2,4-Tri	chlorobenzene	ND	0.50	µg/L	5	12/6/2023 2:32:00 PM		
1,1,1-Tri	chloroethane	ND	0.50	µg/L	5	12/6/2023 2:32:00 PM		
1,1,2-Tri	chloroethane	ND	0.50	µg/L	5	12/6/2023 2:32:00 PM		
Trichloro	pethene (TCE)	ND	0.50	µg/L	5	12/6/2023 2:32:00 PM		
Trichloro	ofluoromethane	ND	0.50	µg/L	5	12/6/2023 2:32:00 PM		
1,2,3-Tri	chloropropane	ND	1.0	µg/L	5	12/6/2023 2:32:00 PM		
Vinyl chl	oride	ND	0.50	µg/L	5	12/6/2023 2:32:00 PM		
Xylenes,	Total	22	0.75	µg/L	5	12/6/2023 2:32:00 PM		
Surr: I	Dibromofluoromethane	93.4	70-130	%Rec	5	12/6/2023 2:32:00 PM		
Surr:	1,2-Dichloroethane-d4	95.2	70-130	%Rec	5	12/6/2023 2:32:00 PM		
Surr: 7	Toluene-d8	119	70-130	%Rec	5	12/6/2023 2:32:00 PM		
Surr: 4	4-Bromofluorobenzene	117	70-130	%Rec	5	12/6/2023 2:32:00 PM		

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

Value exceeds Maximum Contaminant Level. Sample Diluted Due to Matrix

D Sample Diluted Due to MatrixH Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits P Sample pH Not In Range

P Sample pH Not In Range RL Reporting Limit

Page 2 of 2

\*



## ANALYTICAL SUMMARY REPORT

December 11, 2023

Hall Environmer 4901 Hawkins S Albuquerque, Ni	t NE Ste D			
Work Order: Project Name:	B23111914 Not Indicated	Quote ID: B15626		
Energy Laborato	pries Inc Billings MT receiv	ved the following 1 sample for Ha	ll Environmen	tal on 11/29/2023 for analysis.
Lab ID	Client Sample ID	Collect Date Receive Date	Matrix	Test
B23111914-001	2311C50-001B, SVE-1	1 11/27/23 12:40 11/29/23	Air	Air Correction Calculations Appearance and Comments Calculated Properties GPM @ std cond,/1000 cu. ft., moist. Free Natural Gas Analysis Specific Gravity @ 60/60

The analyses presented in this report were performed by Energy Laboratories, Inc., 1120 S 27th St., 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.

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

Report Approved By:



#### LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client:Hall EnvironmentalProject:Not IndicatedLab ID:B23111914-001Client Sample ID:2311C50-001B, SVE-1

Report Date: 12/11/23 Collection Date: 11/27/23 12:40 DateReceived: 11/29/23 Matrix: Air

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
GAS CHROMATOGRAPHY ANALYSIS	REPORT						
Oxygen	21.40	Mol %		0.01		GPA 2261-95	12/05/23 11:07 / jrj
Nitrogen	77.69	Mol %		0.01		GPA 2261-95	12/05/23 11:07 / jrj
Carbon Dioxide	0.22	Mol %		0.01		GPA 2261-95	12/05/23 11:07 / jrj
Hydrogen Sulfide	<0.01	Mol %		0.01		GPA 2261-95	12/05/23 11:07 / jrj
Methane	0.66	Mol %		0.01		GPA 2261-95	12/05/23 11:07 / jrj
Ethane	0.03	Mol %		0.01		GPA 2261-95	12/05/23 11:07 / jrj
Propane	<0.01	Mol %		0.01		GPA 2261-95	12/05/23 11:07 / jrj
sobutane	<0.01	Mol %		0.01		GPA 2261-95	12/05/23 11:07 / jrj
n-Butane	<0.01	Mol %		0.01		GPA 2261-95	12/05/23 11:07 / jrj
Isopentane	<0.01	Mol %		0.01		GPA 2261-95	12/05/23 11:07 / jrj
n-Pentane	<0.01	Mol %		0.01		GPA 2261-95	12/05/23 11:07 / jrj
Hexanes plus	<0.01	Mol %		0.01		GPA 2261-95	12/05/23 11:07 / jrj
Propane	< 0.001	gpm		0.001		GPA 2261-95	12/05/23 11:07 / jrj
sobutane	< 0.001	gpm		0.001		GPA 2261-95	12/05/23 11:07 / jrj
n-Butane	< 0.001	gpm		0.001		GPA 2261-95	12/05/23 11:07 / jrj
sopentane	< 0.001	gpm		0.001		GPA 2261-95	12/05/23 11:07 / jrj
n-Pentane	< 0.001	gpm		0.001		GPA 2261-95	12/05/23 11:07 / jrj
Hexanes plus	< 0.001	gpm		0.001		GPA 2261-95	12/05/23 11:07 / jrj
GPM Total	< 0.001	gpm		0.001		GPA 2261-95	12/05/23 11:07 / jrj
GPM Pentanes plus	< 0.001	gpm		0.001		GPA 2261-95	12/05/23 11:07 / jrj
CALCULATED PROPERTIES							
Gross BTU per cu ft @ Std Cond. (HHV)	7			1		GPA 2261-95	12/05/23 11:07 / jrj
Net BTU per cu ft @ std cond. (LHV)	7			1		GPA 2261-95	12/05/23 11:07 / jrj
Pseudo-critical Pressure, psia	546			1		GPA 2261-95	12/05/23 11:07 / jrj
Pseudo-critical Temperature, deg R	240			1		GPA 2261-95	12/05/23 11:07 / jrj
Specific Gravity @ 60/60F	0.996			0.001		D3588-81	12/05/23 11:07 / jrj
Air, % - The analysis was not corrected for air.	97.76			0.01		GPA 2261-95	12/05/23 11:07 / 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.

Report Definitions: RL - Analyte Reporting Limit QCL - Quality Control Limit 12/05/23 11:07 / jrj



www.energylab.com

Billings, MT 406.252.6325 • Casper, WY 307.235.0515 of 31 Gillette, WY 307.686.7175 • Helena, MT 406.442.0711

Report Date: 12/11/23

## **QA/QC Summary Report**

Prepared by Billings, MT Branch

Client:	Hall Environmental	Work Order: B23111914
Chent.		WOIK Older. D23111914

< 0.01

0.01

Mol %

Mol %

Analyte Count Result Units **RL %REC Low Limit High Limit RPD RPDLimit** Qual GPA 2261-95 Batch: R413284 Method: Lab ID: LCS120523 11 Laboratory Control Sample Run: GCNGA-B 231205A 12/05/23 03:02 0.64 128 Oxygen Mol % 0.01 70 130 Nitrogen 6.32 Mol % 0.01 105 70 130 70 Carbon Dioxide 1.02 Mol % 103 0.01 130 70 Methane 74.5 Mol % 0.01 100 130 70 Ethane 6.01 Mol % 0.01 100 130 Propane 4.98 Mol % 0.01 101 70 130 Isobutane 1.82 Mol % 0.01 91 70 130 1.97 0.01 70 130 n-Butane Mol % 98 Isopentane 0.98 Mol % 0.01 98 70 130 n-Pentane 0.97 Mol % 0.01 97 70 130 Hexanes plus 0.77 Mol % 0.01 96 70 130 12 Sample Duplicate B23111914-001ADUP Lab ID: Run: GCNGA-B\_231205A 12/05/23 12:00 Oxygen 21.4 Mol % 0.01 0.2 20 77.6 0.1 20 Nitrogen Mol % 0.01 Carbon Dioxide 0.22 Mol % 0.01 0.0 20 Hydrogen Sulfide 20 < 0.01 Mol % 0.01 Methane 0.79 0.01 18 20 Mol % 0.0 Ethane 0.03 Mol % 0.01 20 20 Propane < 0.01 Mol % 0.01 20 Isobutane < 0.01 Mol % 0.01 n-Butane < 0.01 Mol % 0.01 20 Isopentane < 0.01 Mol % 0.01 20

0.01

0.01

**Qualifiers:** RL - Analyte Reporting Limit

n-Pentane

Hexanes plus

20

20

 Trust our People. Trust our Data. www.energylab.com Billings, MT 406.252.6325 • Casper, WY 307.235.0515 Gillette, WY 307.686.7175 • Helena, MT 406.442.0711

B23111914

# Work Order Receipt Checklist

## Hall Environmental

Login completed by:	Danielle N. Harris		Date R	eceived: 11/29/2023
Reviewed by:	lleprowse		Rece	eived by: cmj
Reviewed Date:	12/1/2023		Carrie	er name: FedEx
Shipping container/cooler in g	good condition?	Yes 🔽	No 🗌	Not Present
Custody seals intact on all sh	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	n relinquished and received?	Yes 🗹	No 🗌	
Chain of custody agrees with	sample labels?	Yes 🔽	No 🗌	
Samples in proper container/	bottle?	Yes 🗹	No 🗌	
Sample containers intact?		Yes 🗹	No 🗌	
Sufficient sample volume for	indicated test?	Yes 🗹	No 🗌	
All samples received within h (Exclude analyses that are co such as pH, DO, Res CI, Sul	onsidered field parameters	Yes 🗹	No 🗌	
Temp Blank received in all sh	hipping container(s)/cooler(s)?	Yes	No 🗹	Not Applicable
Container/Temp Blank tempe	erature:	9.2°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.

#### **Contact and Corrective Action Comments:**

None

Received by OCD: 1/11	/2024 10:21	:19 AM	
I			

ANALYTICAL COMMENTS

11/27/2023 12:40:00 PM 1 Natural Gas Analysis O2+CO2

# CONTAINERS

COLLECTION

DATE

MATRIX Air

CLIENT SAMPLE ID

1 2311C50-001B SVE-1

SAMPLE

ITEM

BOTTLE TYPE TEDLAR

B23119

(406) 252-6069

EMAIL FAX-

(406) 869-6253

ACCOUNT #

PHONE

Energy Laboratories

COMPANY

SUB CONTRATOR. Energy Labs - Billings

1120 South 27th Street

ADDRESS

CITY, STATE, ZIP, Billings, MT 59107

Website: www.hallenvironmental.com

Eurofins Environment Testing South Central, LLC

-OF:

CHAIN OF CUSTODY RECORD PAGE 1

Schurchneist Testing

💸 eurofins

.Albuquerque. NM 87109 TEL: 505-345-3975 FAX: 505-345-4107

4901 Hawkins NE

Relinquished By	Date 11/28/2023	Time: 9:33 AM	Received By.	Date.	Time:	REPORT	REPORT TRANSMITTAL DESIRED:	
Relimptished By	Date	Time,	Received By	Date:	Time:	HARDCOPY (extra cost)	EAX EMAIL	ONLINE
Relinmitched Ru	Denv	Ti an a		4		FO	FOR LAB USE ONLY	
	17410		fill Certific Jones Wager 0935	1429/25	09'35	Temp of samples	C Attempt to Cool ?	
TAT:	Standard	RUSH	Next BD 2nd BD	3rd BD				
						Comments:		

SPECIAL INSTRUCTIONS / COMMENTS

## Page 28 of 31

#### Released to Imaging: 4/2/2024 10:04:20 AM

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Page 29 of 31

#### Eurofins Environment Testing South Central. LLC 4901 Hawkins NE Albuquerque. NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

# Sample Log-In Check List

Client Name: HILCORP ENERGY Work Order Nu	mber: 2311C50		RcptNo: 1	
Received By: Tracy Casarrubias 11/28/2023 6:45:	00 AM			
Completed By: Tracy Casarrubias 11/28/2023 9:31:	55 AM			
Reviewed By: 71112823				
Chain of Custody				
1. Is Chain of Custody complete?	Yes 🗌	No 🗹	Not Present	
2. How was the sample delivered?	Courier			
<u>Log In</u>				
3. Was an attempt made to cool the samples?	Yes 🗌	No 🗹	NA 🗌	
4. Were all samples received at a temperature of $>0^{\circ}$ C to $6.0^{\circ}$ C	Yes 🗌	No 🗌	NA 🗹	
5. Sample(s) in proper container(s)?	Yes 🗹	No 🗌		
6. Sufficient sample volume for indicated test(s)?	Yes 🗹	No 🗍		
7 Are samples (except VOA and ONG) properly preserved?	Yes 🖌	No 🗌		
8. Was preservative added to bottles?	Yes	No 🗹	NA 🗌	
9. Received at least 1 vial with headspace <1/4" for AQ VOA?	Yes 🗋	No 🗌	NA 🗹	
10. Were any sample containers received broken?	Yes	No 🗹		
			# of preserved bottles checked	
11.Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes 🔽	No 🗌	for pH: (<2 or >12 unl	ess noted)
12. Are matrices correctly identified on Chain of Custody?	Yes 🔽	No 🗌	Adjusted?	
13. Is it clear what analyses were requested?	Yes 🗹	No 🗌	1	11/20/0
14. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes 🗹	No 🗌	Checked by 52M	11/28/2
Special Handling (if applicable) 15. Was client notified of all discrepancies with this order?	Yes 🗌	No 🗌	NA 🔽	
plane as well the second strengtheness and consistence		NO [_]	NA 🖭	
	ite:			
By Whom: Via Regarding:	a: 🗌 eMail 🗍 f	Phone 🗌 Fax	In Person	
Client Instructions: Mailing address and phone number a	are missing on COC	- TMC 11/28/21	3	
16. Additional remarks:	are masning on COC	- 11/20/20		
17. <u>Cooler Information</u>				
Cooler No         Temp °C         Condition         Seal Intact         Seal No           1         N/A         Good         Yes         Seal No	Seal Date	Signed By		

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Chain-of-Custody Record	Turn-Around Time:	
Client: H / Cor O	Standard 🗆 Rush	ANALYSIS LABORATORY
	ject Name:	www.hallenvironmental.com
Mailing Address:	Scott YM	4901 Hawkins NE - Albuquerque, NM 87109
	Project #:	Tel. 505-345-3975 Fax 505-345-4107
Phone #:		Analysis Request
email or Fax#: hrandon, Sin clair Ohilsorp. com	Project Manager:	<sup>⊅</sup> OS € ѕ (ОЫ
QA/QC Package:	Mitch Killouah	' 604' 081W3 5 6CB.
Accreditation:	Sampler: Brandon Sinclair On Ice: DYes DNO	2808/2 5808/2 504.1) 01 827 5 7 5 7 2 8 7 2 8 7 2 8 7 2 8 7 2 8 7 2 8 7 2 8 7 7 8 7 8
EDD (Type)	irs:	)(GF 310 310 310 (, , ) , ) , ) , ) , ) , ) , ) , ) , )
	Cooler Temp(Including CF): N/A (°C)	1150 estid Aeth 8 M 8 M 8 M 8 M 7 0 1 5 0 1 1 0
Date Time Matrix Sample Name	Container Preservative HEAL No. Type and # Type 7311C50	BTEX / BTEX / TPH:80 8081 P RCRA PAHs I RCRA () PAHs I () RCRA () 8250 () 8250 () 8250 () 701811 () 7018111 () 7018111 () 701811 () 701811 () 7018111 (
2151		
Date: Time: Relinquished by:	Received by: Vial Vial Date Time	Remarks:
Date: Time: Relinguished by:	Received by: Via: COUN- Date Time 6:45	
Released to Imaging: 4/2/2024 10:04:20 AM		This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

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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

Action 302578

CONDITIONS Operator: OGRID: HILCORP ENERGY COMPANY 372171 1111 Travis Street Action Number: Houston, TX 77002 302578 Action Type: [UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT)

#### CONDITIONS

Created By	Condition	Condition
		Date
michael.buchanan	Received for the Record: Content Satisfactory 1. Continue to conduct O&M as scheduled 2. Submit next report as scheduled, annually or biannually.	4/2/2024