

By NVelez at 2:21 pm, Oct 17, 2025

1. Continue O&M & sampling as stated in report. 2. Submit next quarterly report by January 15, 2026.

October 13, 2025

New Mexico Oil Conservation Division

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

Re: Third Quarter 2025 - SVE System Update

Sunray B 1B

San Juan County, New Mexico Hilcorp Energy Company

NMOCD Incident No: nAPP2212649502

To Whom it May Concern:

Ensolum, LLC (Ensolum), on behalf of Hilcorp Energy Company (Hilcorp), presents this Third Quarter 2025 -SVE System Update report summarizing the soil vapor extraction (SVE) system performance at the Sunray B 1B natural gas production well (Site) on land managed by the Bureau of Land Management (BLM) in Unit F, Section 15, Township 30 North, Range 10 West in San Juan County, New Mexico (Figure 1). After a temporary startup on August 29, 2023, followed by a month long shut down, the SVE system was put into full time operation on September 29, 2023, to remediate subsurface soil impacts resulting from a release of approximately 14 barrels (bbls) of natural gas condensate and 7 bbls of produced water. This report summarizes Site activities performed in July, August, and September of 2025.

SVE SYSTEM SPECIFICATIONS

The SVE system at the Site consists of a 3-phase, 5 horsepower Howden Roots 32 URAI rotary lobe blower capable of producing 112 cubic feet per minute (cfm) flow at 82 inches of water column (IWC) vacuum. The system is powered by a permanent power drop and is intended to run 24 hours per day. Three SVE wells were installed at the Site and are shown on Figure 2. SVE wells SVE01, SVE02, and SVE03 are screened at varying depths up to 25 feet below ground surface (bgs) to address residual soil impacts in the unsaturated zone. Based on diminished PID readings at SVE02 and SVE03, the wells were taken offline in 2024, and extraction efforts are currently focused on SVE01.

THIRD QUARTER 2025 ACTIVITIES

The initial startup of the Site SVE system was performed on August 29 and 30, 2023. Based on the New Mexico Oil Conservation Division (NMOCD) Conditions of Approval (COAs), dated February 10, 2023, field data measurements were collected from the system and included the following parameters: total system flow, estimated flow rates from the SVE well, photoionization detector (PID) measurements of volatile organic compounds (VOCs) from the SVE well, vacuum measurements from the SVE well, and oxygen/carbon dioxide measurements via hand-held analyzers from the SVE well. Field visits were conducted twice per month throughout the third guarter of 2025. Field parameters noted above were collected during each visit. Field notes taken during operations and maintenance (O&M) visits are presented in Appendix A. Between June 26 and September 29, 2025, the SVE system operated for 2,270.5 hours for a runtime efficiency of

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99.6 percent (%). Appendix B presents photographs of the runtime meter for calculating the third quarter of 2025 runtime efficiency. Table 1 presents the SVE system operational hours and calculated percentage runtime.

Based on the February 2023 COAs, vapor samples are being collected quarterly following the first year of operation from a sample port located between the SVE piping manifold and the SVE blower using a high vacuum air sampler. A vapor sample was collected on August 18, 2025. Prior to collection, the vapor sample was field screened with a PID for organic vapor monitoring (OVM). The vapor sample was collected directly into two 1-Liter Tedlar® bags and submitted to Eurofins Environment Testing in Albuquerque, New Mexico for analysis of total volatile petroleum hydrocarbons (TVPH – also known as total petroleum hydrocarbons – gasoline range organics (TPH-GRO)) following United States Environmental Protection Agency (EPA) Method 8015D, VOCs following EPA Method 8260B, and fixed gas analysis of oxygen and carbon dioxide following Gas Processors Association (GPA) Method 2261. A summary of field measurements and analytical results are presented in Tables 2 and 3, respectively. The full laboratory analytical report is attached as Appendix C. Oxygen and carbon dioxide levels over time are presented in Graphs 1 and 2, respectively.

Vapor sample data and measured influent flow rates are used to estimate total mass recovered and total emissions generated by the SVE system (Table 4). Based on these estimates, 1,991 pounds (1.00 ton) of TVPH have been removed by the system to date between system startup and August 18, 2025. Vapor samples will continue to be collected quarterly for the remainder of system operation.

DISCUSSION AND RECOMMENDATIONS

Bi-monthly (twice per month) O&M visits and quarterly sampling events 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). Deviations from regular 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 WY, 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



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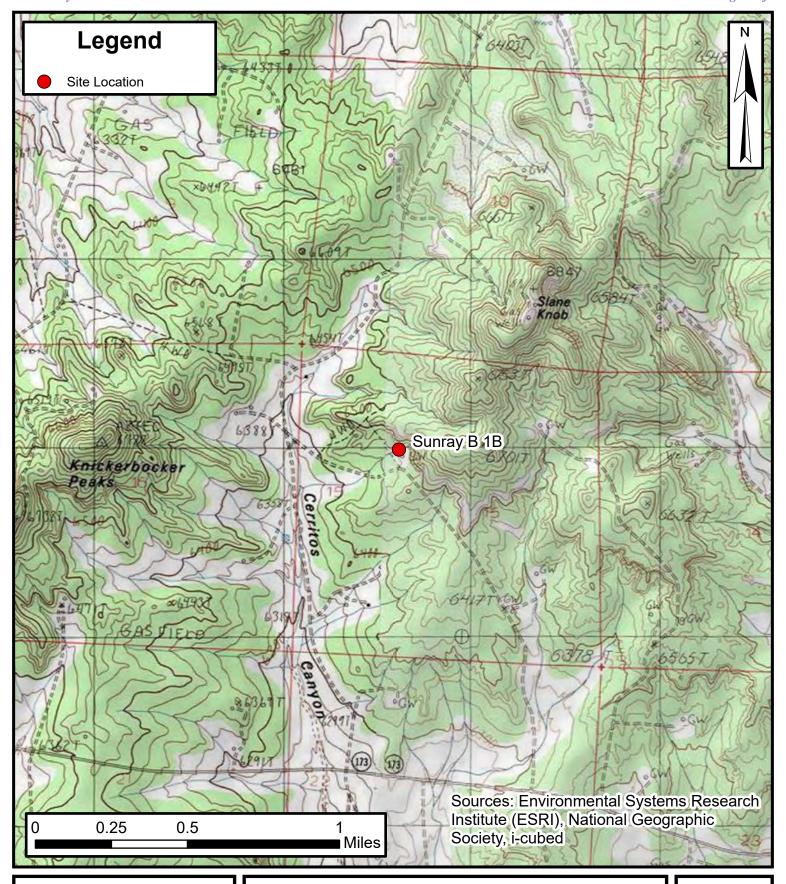
Attachments:

Figure 1	Site Location Map
Figure 2	SVE System Radius of Influence and Radius of Effect
Table 1	Soil Vapor Extraction System Runtime Calculations
Table 2	Soil Vapor Extraction System Field Measurements
Table 3	Soil Vapor Extraction System Air Analytical Results
Table 4	Soil Vapor Extraction System Mass Removal and Emissions
Graph 1	Oxygen vs Time
Graph 2	Carbon Dioxide vs Time
Appendix A Appendix B Appendix C Appendix D	Field Notes Project Photographs Laboratory Analytical Reports Correspondence





Figures





Site Location Map

Sunray B 1B Hilcorp Energy Company

> 36.8147621, -107.8746643 San Juan County, New Mexico

FIGURE

1





SVE System Radius of Influence and Radius of Effect

Sunray B 1B Hilcorp Energy Company

36.8147621, -107.8746643 San Juan County, New Mexico FIGURE

2



Tables & Graphs

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TABLE 1 SOIL VAPOR EXTRACTION SYSTEM RUNTIME CALCULATIONS

Sunray B 1B Hilcorp Energy Company San Juan County, New Mexico

Date	Total Operational Hours	Delta Hours	Days	Quarterly Percent Runtime	Cumulative Percent Runtime	
9/29/2023	126.8	Startup				
6/26/2025	15,075.6	372.4	16	97.0%	97.9%	
7/17/2025	15,581.0	505.4	21	100.3%	98.0%	
7/28/2025	15,845.0	264.0	11	100.0%	98.0%	
8/18/2025	16,334.7	489.7	21	97.2%	98.0%	
8/27/2025	16,553.0	218.3	9	101.1%	98.1%	
9/3/2025	16,720.5	167.5	7	99.7%	98.1%	
9/29/2025	17,346.1	625.6	26	100.3%	98.1%	
				3rd Qtr 2025 Runtime:	99.6%	

Ensolum 1 of 1



				TABLE 2							
		SOIL V	APOR EXTRACT	TION SYSTEM FI	ELD MEASUR	EMENTS					
			Hill	Sunray B 1B corp Energy Compa	anv						
San Juan County, New Mexico											
SVE Well ID	Date	PID (ppm)	Differential Pressure (IWC)	Flow Rate (acfm)	Flow Rate (scfm) ⁽¹⁾⁽²⁾	Vacuum (IWC)	Oxygen (%)	Carbon Dioxide (%)			
	8/29/2023	788	2.70	144	92	74.8					
_	8/30/2023	1,826				68.0	20.9	0.62			
-	9/29/2023	538	3.00	151	99	68.0	20.9	0.26			
-	10/6/2023 10/12/2023	431 356	3.00 5.30	151 201	101 127	60.5 80.0	20.9	0.00			
	10/12/2023	399	5.70	209	131	81.0	20.9	0.10			
ŀ	10/26/2023	165	6.50	223	146	68.0	20.9	0.10			
	10/31/2023	278	5.60	207	134	72.1					
	11/16/2023	378	6.90	230	153	61.2					
	11/28/2023	147	7.20	235	156	61.2					
	12/7/2023	205	7.00	231	157	54.4	19.6	0.02			
	12/13/2023	165	6.90	230	153	61.2	19.3	0.02			
-	12/20/2023	182	7.10	233	155	61.2					
-	12/28/2023	39 59	4.80 3.79	192 170	135 118	40.8 46.9					
}	1/19/2024 2/2/2024	143	3.65	167	116	47.6	20.9	0.06			
	2/14/2024	329	3.40	161	111	51.0	20.9	0.02			
 	2/23/2024	204	3.50	164	128	51.0					
	3/6/2024	101	3.30	159	125	47.6					
Ī	3/21/2024	86	3.54	164	129	42.5					
	4/9/2024	91	3.43	162	127	40.8					
	4/17/2024	99	3.25	158	124	16.3					
_	5/14/2024	53	4.32	182	143	61.2					
-	5/23/2024	57	4.35	182	143	61.2					
-	6/4/2024	134	4.12	177	139	61.2	-				
-	6/26/2024	35	4.04	176	138	61.2	-				
-	7/10/2024 7/26/2024	96 35	6.78 3.99	228 175	179 137	64.6 61.2					
Influent, All Wells	8/8/2024	23	3.77	170	133	61.2					
 	8/21/2024	32	3.75	169	133	61.2					
	9/6/2024	22	3.61	166	130	61.2					
Ī	9/19/2024	30	3.73	169	133	61.2					
	10/14/2024	130	3.98	174	137	69.4					
	10/29/2024	219	0.08	25	19	68.0					
	11/6/2024	241	0.11	29	23	68.0					
-	11/19/2024	58	0.08	25	19	68.0					
-	12/3/2024	93	0.07	23	18	68.0					
-	12/17/2024 1/8/2025	85 87	0.08	25 25	19 19	68.0 69.4					
-	1/25/2025	83	0.08	25	19	69.4					
 	2/6/2025	98	0.07	23	18	68.0					
	2/21/2025	76	0.08	25	19	68.0					
	3/11/2025	97	0.05	20	15	68.0					
	3/31/2025	75	0.12	30	24	68.0	-				
	4/11/2025	82	0.12	30	24	68.0					
	4/29/2025	94	0.13	32	25	68.0	1				
Ļ	5/9/2025	42				68.0					
ļ	5/21/2025	88	0.10	28	22	68.0	-				
-	6/10/2025 6/26/2025	77	0.08	25	19	68.0					
}	7/17/2025	84 81	0.11 0.57	29 66	23 52	68.0 105.4					
<u> </u>	7/17/2025	70	0.10	28	22	78.9					
ŀ	8/18/2025	74	0.21	40	31	68.0					
ļ.	8/27/2025	79	0.23	42	33	77.5					
ļ	9/3/2025	72	0.22	41	32	68.0	-				
Ī	9/29/2025	54	0.21	40	31	68.0					
1	8/29/2023	2,789			16	78.9					
ļ	8/30/2023	3,588			20		20.9	0.62			
Ţ	9/29/2023	1,312			10	76.2	20.9	0.18			
	10/6/2023	1,429			10	66.0	20.9				
SVE01	10/12/2023	2,450			9	76.0	20.9	0.18			
<u> </u>	10/19/2023	672			10	70.0	20.9	0.08			
Ļ	10/26/2023	420			10	68.0	20.9	0.08			
ļ-	10/31/2023	348				72.1	20.9	0.02			
	11/16/2023	688			8	78.9	19.8	0.06			



				TABLE 2								
		SOIL V	APOR EXTRACT	TION SYSTEM F	ELD MEASUR	EMENTS						
			100	Sunray B 1B								
	Hilcorp Energy Company San Juan County, New Mexico											
		DID						0 1 5: :1				
SVE Well ID	Date	PID (ppm)	Differential Pressure (IWC)	Flow Rate (acfm)	Flow Rate (scfm) ⁽¹⁾⁽²⁾	Vacuum (IWC)	Oxygen (%)	Carbon Dioxide (%)				
			` '									
	11/28/2023 12/7/2023	453 430			8	62.6 58.0	20.2 19.6	0.04				
	12/13/2023	405			10	59.8	19.3	0.02				
	12/20/2023				12	59.8						
	12/28/2023	20			9	49.0	19.3	0.04				
	1/19/2024	151			8	49.0	20.9	0.04				
	2/2/2024	345	0.60	68	48	38.0	20.9	0.04				
	2/14/2024	215	0.13	32	22	43.5	20.9	0.02				
	2/23/2024 3/6/2024	245 268	0.04	17	14 	32.6 40.0	20.9	0.02				
	3/21/2024	187	0.06	21	17	38.1	20.9	0.00				
	4/9/2024	174	0.04	17	14	38.1	20.9	0.02				
	4/17/2024	180	0.04	17	14	39.4	20.9	0.02				
	5/14/2024	134	0.06	21	17	54.4	20.9	0.03				
	5/23/2024	100	0.05	20	15	35.4	20.5	0.04				
	6/4/2024	213	0.08	25	19	54.4	20.9	0.04				
	6/26/2024	187	0.06	21	17	54.4	20.9	0.04				
	7/10/2024 7/26/2024	139 113	0.06	21 21	17 17	57.1 55.8	20.9	0.05 0.05				
	8/8/2024	94	0.06	21	17	57.1	20.9	0.05				
	8/21/2024	100	0.07	23	18	57.1	20.9	0.03				
	9/6/2024	82	0.07	23	18	57.1	20.9	0.05				
	9/19/2024	87	0.04	17	14	57.1	20.9	0.06				
SVE01	10/14/2024	95				69.4	20.9	0.07				
	10/29/2024	132	0.05	20	15	68.0	20.9	0.04				
	11/6/2024	183	0.06	21	17	68.0	20.9	0.06				
	11/19/2024	71	0.05	20	15	70.7	20.9	0.03				
	12/3/2024 12/17/2024	98 87	0.05 0.05	20 20	15 15	65.3 69.4	20.9	0.04				
	1/8/2025	85	0.05	20	15	70.7	20.9	0.04				
	1/25/2025	81	0.03	15	12	70.7	20.9	0.03				
	2/6/2025	95	0.02	12	10	70.7	20.9	0.03				
	2/21/2025	78	0.02	12	10	70.7						
	3/11/2025	98	0.04	17	14	68.0						
	3/31/2025	74	0.04	17	14	70.7	19.8	0.10				
	4/11/2025	83	0.07	23	18	68.0 68.0	20.9	0.20				
	4/29/2025 5/9/2025	96 46	0.06	25 	19 	68.0	21.0	0.10				
	5/21/2025	99	0.04	17	14	70.7	20.8	0.09				
	6/10/2025	88	0.04	17	14	70.7	20.9	0.12				
	6/26/2025	96	0.04	17	14	70.7	20.9	0.10				
	7/17/2025	84	0.27	45	36	103.4	20.9	0.14				
	7/28/2025	71	0.05	20	15	95.2	20.9	0.09				
	8/18/2025	80	0.21	40	31	68.0	20.9	0.15				
	8/27/2025	75	0.18	37	29	81.6	20.9	0.09				
	9/3/2025 9/29/2025	68 59	0.18 0.19	37 38	29 30	68.0 66.6	20.9	0.10 0.11				
			0.19					0.11				
	8/29/2023 8/30/2023	416 1,849			16 23	81.6	20.9	0.62				
	9/29/2023	403			13	73.4	20.9	0.62				
	10/6/2023	382			22	66.0	20.9					
	10/12/2023	540			16	72.0	20.9	0.10				
	10/19/2023	288			14	70.0	20.9	0.08				
	10/26/2023	95			10	72.0	20.9	0.04				
	10/31/2023	215			18	69.4	20.9	0.10				
SVE02	11/16/2023	515			15	62.6	19.8	0.02				
	11/28/2023 12/7/2023	93 55			19 18	59.8 56.0	20.2 19.6	0.02				
	12/1/2023	107			25	56.0 57.1	19.6	0.02				
	12/20/2023				24	54.4	19.5					
	12/28/2023	44			18	43.5	19.3	0.02				
	1/19/2024	38			16	43.5	20.9	0.04				
	2/2/2024	13	0.14	33	24	34.0	20.9	0.02				
	2/14/2024	75	0.08	25	18	24.5	20.9	0.03				
	2/23/2024	99	0.09	26	21	29.9	20.9	0.03				



				TABLE 2							
		SOIL V	APOR EXTRAC	TABLE 2 TION SYSTEM F	IELD MEASUR	EMENTS					
		JOIL V	AI OR EXTRAC	Sunray B 1B	ILLD MLASON	LINEITIO					
			Hil	corp Energy Comp	any						
San Juan County, New Mexico											
		PID	Differential		Flow Rate			Carbon Dioxide			
SVE Well ID	Date	(ppm)	Pressure (IWC)	Flow Rate (acfm)	(scfm) ⁽¹⁾⁽²⁾	Vacuum (IWC)	Oxygen (%)	(%)			
	3/6/2024	105				10.0	20.7	0.04			
	3/21/2024	25	0.12	30	24	27.2	20.9	0.03			
	4/9/2024	77	0.02	12	10	28.6	20.9	0.03			
	4/17/2024	71	0.02	12	10	15.9	20.9	0.03			
	5/14/2024	40	0.02	12	10	18.5	20.9	0.04			
	5/23/2024	64	0.02	12	10	5.4	20.8	0.04			
	6/4/2024	59	0.02	26	21	6.8	20.9	0.05			
SVE02	6/26/2024	19	0.03	9	7	6.8	20.9	0.03			
3VE02	7/10/2024	29	0.09	26	21	10.9	20.9	0.08			
	7/10/2024	35	0.09	26	21	43.5	20.9	0.08			
	8/8/2024	25	0.09	25	19	43.5	20.9	0.07			
	8/21/2024	36	0.08	20	15	43.5	20.9	0.06			
	9/6/2024	28	0.05	20	17	43.5	20.9	0.06			
	9/19/2024	35	0.06	21	17	43.5	20.9	0.05			
		35	0.06	21	Well Taken Offline		20.9	0.05			
	10/14/2024										
	8/29/2023	174			25	73.4					
	8/30/2023	426			>25		20.9	0.62			
	9/29/2023	248			>25	65.3	20.9	0.20			
	10/6/2023	162			40	52.0	20.9				
	10/12/2023	450			50	52.0	20.9	0.14			
	10/19/2023	131			<50	55.0	20.9	0.10			
	10/26/2023	88			>50	56.0	20.9	0.08			
	10/31/2023	89			>50	53.0	20.9	0.02			
	11/16/2023	258		-	>50	50.3	19.8	0.04			
	11/28/2023	148			>50	47.6	20.2	0.02			
	12/7/2023	45			>50	44.0	19.6	0.02			
	12/13/2023	175			>50	50.3	19.3	0.02			
	12/20/2023	-			>50	46.2					
	12/28/2023	34			>50	35.4	19.3	0.04			
	1/19/2024	31			36	35.4	20.9	0.08			
	2/2/2024	74	0.73	75	55	24.0	20.9	0.02			
SVE03	2/14/2024	54	0.88	82	61	23.1	20.9	0.06			
	2/23/2024	63	0.60	68	53	23.1	20.9	0.06			
	3/6/2024	125				24.0	20.5	0.06			
	3/21/2024	51	0.36	52	41	23.1	20.9	0.06			
	4/8/2024	55	0.73	75	59	23.1	20.9	0.07			
	4/17/2024	58	0.73	75	59	27.2	20.9	0.07			
	5/14/2024	37	1.02	88	69	35.4	20.9	0.07			
	5/23/2024	35	0.98	87	68	35.4	20.4	0.04			
	6/4/2024	42	0.79	78	61	34.0	20.9	0.06			
	6/26/2024	27	0.84	80	63	32.6	20.9	0.06			
	7/10/2024	35	0.82	79	62	42.2	20.9	0.11			
	7/26/2024	32	0.69	73	57	40.8	20.9	0.08			
	8/8/2024	28	0.67	72	56	43.5	20.9	0.08			
	8/21/2024	29	0.66	71	56	40.8	20.9	0.08			
	9/6/2024	26	0.59	67	53	40.8	20.9	0.08			
	9/19/2024	32	0.59	64	50	39.4	20.9	0.08			
	10/14/2024	SZ	0.34	04			20.8	0.07			
	10/14/2024				Well Taken Offline)					



TABLE 2 SOIL VAPOR EXTRACTION SYSTEM FIELD MEASUREMENTS Sunray B 1B Hilcorp Energy Company San Juan County, New Mexico Carbon Dioxide PID Differential SVE Well ID Date Flow Rate (acfm) Vacuum (IWC) Oxygen (%) (scfm)⁽¹⁾⁽²⁾ Pressure (IWC) (ppm) (%)

Notes:

(1): individual well flow rates in scfm estimated based on rotometer field measurements through 1/19/24; calculated from pitot tube differential pressure readings beginning 2/2/24

 $(2): total\ system\ flow\ rates\ in\ scfm\ calculated\ based\ on\ pitot\ tube\ differential\ pressure\ measurements$

IWC: inches of water column

PID: photoionization detector

ppm: parts per million

acfm: actual cubic feet per minute

scfm: standard cubic feet per minute

%: percent

--: not measured



TABLE 3 SOIL VAPOR EXTRACTION SYSTEM EMISSIONS ANALYTICAL RESULTS

Sunray B 1B Hilcorp Energy Company San Juan County, New Mexico

Sail Juail 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			
8/29/2023	788	18	190	6.8	58	5,900	18.38%	4.23%			
8/30/2023	1,826	10	230	<10	77	6,000	21.39%	0.87%			
9/29/2023	538	4.8	140	11	100	4,100	21.67%	0.36%			
10/6/2023	529	<2.0	48	<5.0	41	1,400	21.74%	0.18%			
10/12/2023	357	<2.0	47	<5.0	51	1,800	21.69%	0.22%			
10/19/2023	399	<5.0	29	<5.0	29	1,200	21.81%	0.16%			
10/26/2023	165	<5.0	26	<5.0	21	960	21.80%	0.15%			
10/31/2023	278	0.53	30	3.3	42	900	21.60%	0.17%			
11/16/2023	378	0.41	21	2.5	35	1,100	21.61%	0.10%			
11/28/2023	147	< 0.50	13	1.7	22	750	21.64%	0.10%			
12/13/2023	165	< 0.50	11	1.6	20	650	21.68%	0.10%			
12/28/2023	39	< 0.10	< 0.10	< 0.10	< 0.15	7.5	21.73%	0.05%			
1/19/2024	59	< 0.50	4.7	0.58	6.0	300	21.73%	0.05%			
3/6/2024	101	<5.0	<5.0	<5.0	<7.5	<250	22.19%	0.12%			
5/14/2024	53	<0.10	3.1	0.44	6.4	210	21.43%	0.13%			
7/26/2024	35	<0.20	2.4	0.28	4.1	180	21.79%	0.15%			
9/6/2024	22	< 0.50	< 0.50	< 0.50	< 0.75	<25	21.73%	0.05%			
11/19/2024	58	0.84	11	1.0	14	320	21.81%	0.14%			
2/6/2025	98	<0.50	< 0.50	<0.50	< 0.75	<25	21.90%	0.10%			
5/21/2025	88	3.0	17	0.86	14	270	21.72%	0.21%			
8/18/2025	74	< 0.50	18	< 0.50	8.1	370	21.82%	0.22%			

Notes:

Released to Imaging: 10/17/2025 2:44:30 PM

GRO: gasoline range hydrocarbons

μg/L: microgram per liter

PID: photoionization detector

ppm: parts per million

TVPH: total volatile petroleum hydrocarbons

%: percent

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

Ensolum 1 of 1



TABLE 4 SOIL VAPOR EXTRACTION SYSTEM MASS REMOVAL AND EMISSIONS Sunray B 1B Hilcorp Energy Company San Juan County, New Mexico

Date	PID (ppm)	Benzene (μg/L)	Toluene (μg/L)	Ethylbenzene (μg/L)	Total Xylenes (μg/L)	TVPH (μg/L)
8/29/2023	788	18	190	6.8	58	5,900
8/30/2023	1,826	10	230	10	77	6,000
9/29/2023	538	4.8	140	11	100	4,100
10/6/2023	529	2.0	48	5.0	41	1,400
10/12/2023	357	2.0	47	5.0	51	1,800
10/19/2023	399	5.0	29	5.0	29	1,200
10/26/2023	165	5.0	26	5.0	21	960
10/31/2023	278	0.53	30	3.3	42	900
11/16/2023	378	0.41	21	2.5	35	1,100
11/28/2023	147	0.50	13	1.7	22	750
12/13/2023	165	0.50	11	1.60	20	650
12/28/2023	39	0.10	0.10	0.10	0.15	7.5
1/19/2024	59	0.50	4.7	0.58	6.0	300
3/6/2024	101	5.0	5.0	5.0	7.5	250
5/14/2024	53	0.10	3.1	0.44	6.4	210
7/26/2024	35	0.20	2.4	0.28	4.1	180
9/6/2024	22	0.50	0.50	0.50	0.75	25
11/19/2024	58	0.84	11	1.0	14	320
2/6/2025	98	0.50	0.50	0.50	0.75	25
5/21/2025	88	3.0	17	0.86	14	270
8/18/2025	74	0.50	18	0.50	8.1	370
Average	295	3	40	3	27	1,272

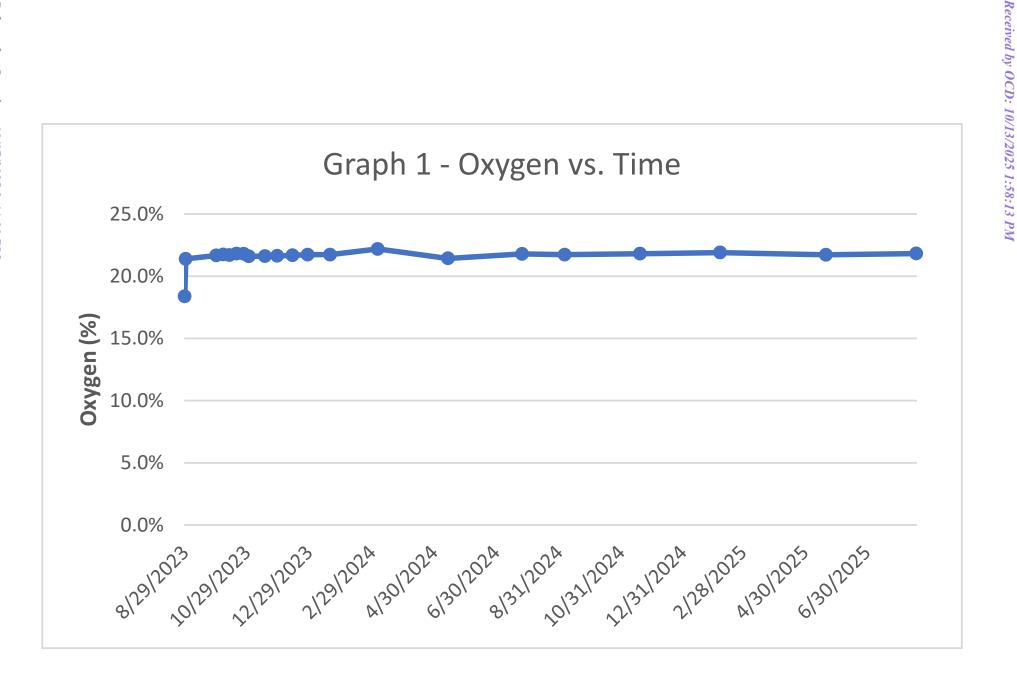
			74)	OU EXITACTION SUMM	iu. y			
Date	Flow Rate (scfm)	Total System Flow (cf)	Delta Flow (cf)	Benzene (lb/hr)	Toluene (lb/hr)	Ethylbenzene (lb/hr)	Total Xylenes (lb/hr)	TVPH (lb/hr)
9/29/2023	99.0			l	Jpdated System Startu	ip		
10/6/2023	101	1,015,656	1,015,656	0.00127	0.035	0.0030	0.026	1.03
10/12/2023	127	-			-		-	
10/19/2023	131	5,575,242	4,559,586	0.0015	0.017	0.0022	0.0152	0.56
10/26/2023	146	7,013,634	1,438,392	0.0026	0.0142	0.0026	0.0130	0.56
10/31/2023	134	7,760,550	746,916	0.00145	0.0147	0.0022	0.0165	0.49
11/16/2023	153	11,259,048	3,498,498	0.00025	0.0137	0.0016	0.0207	0.54
11/28/2023	156	13,876,104	2,617,056	0.00026	0.0098	0.0012	0.0165	0.53
12/13/2023	153	17,154,282	3,278,178	0.00029	0.0069	0.0010	0.0121	0.40
12/28/2023	135	19,794,882	2,640,600	0.00016	0.0030	0.0005	0.0054	0.18
1/19/2024	118	23,462,322	3,667,440	0.00014	0.0011	0.0002	0.0015	0.07
3/6/2024	125	31,920,822	8,458,500	0.00125	0.0022	0.0013	0.0031	0.12
5/14/2024	143	46,119,006	14,198,184	0.00128	0.0020	0.0014	0.0035	0.12
7/26/2024	137	60,469,482	14,350,476	0.00008	0.0014	0.0002	0.0027	0.10
9/6/2024	133	68,267,538	7,798,056	0.00018	0.0007	0.0002	0.0012	0.05
11/19/2024	19	70,128,360	1,860,822	0.00019	0.0016	0.0002	0.0021	0.05
2/6/2025	18	72,177,336	2,048,976	0.00005	0.0004	0.0001	0.0005	0.01
5/21/2025	22	75,459,120	3,281,784	0.00013	0.0007	0.0001	0.0006	0.01
8/18/2025	33	79,645,632	4,186,512	0.00018	0.0018	0.0001	0.0011	0.03
			Average	0.00066	0.007	0.0010	0.008	0.29

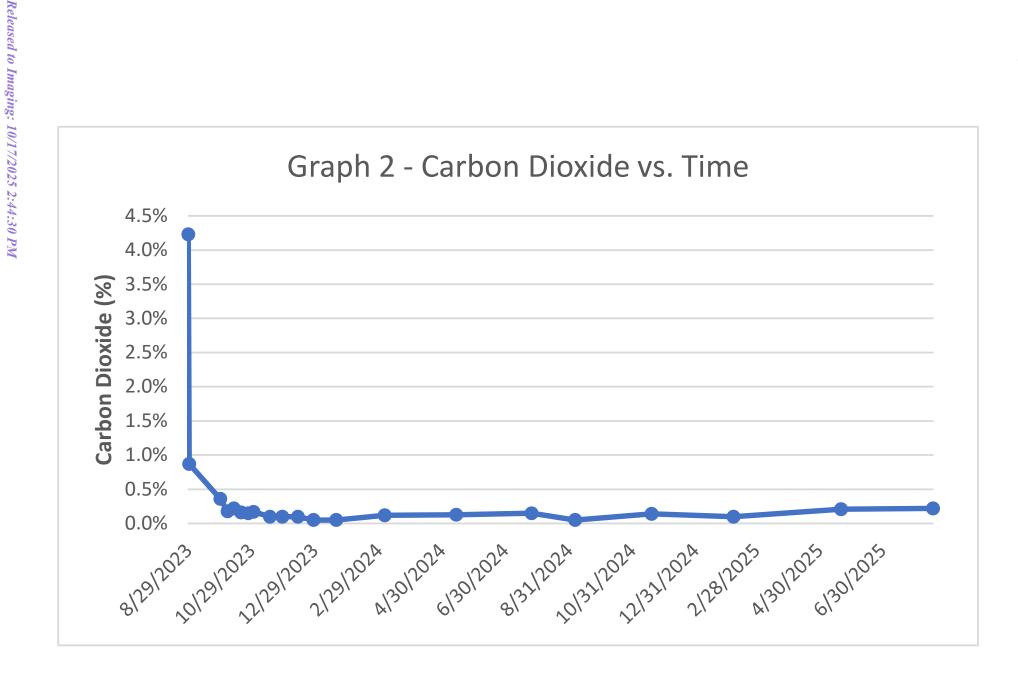
Mass Recovery

				made recovery					
Date	Total Operational Hours	Delta Hours	Benzene (pounds)	Toluene (pounds)	Ethylbenzene (pounds)	Total Xylenes (pounds)	TVPH (pounds)	TVPH (tons)	
9/29/2023	127		Updated System Startup						
10/6/2023	294	168	0.21	5.9	0.50	4.4	172	0.086	
10/12/2023	-				-				
10/19/2023	580	580	0.88	9.7	1.26	8.8	327	0.164	
10/26/2023	744	164	0.43	2.3	0.43	2.1	92	0.046	
10/31/2023	837	93	0.134	1.36	0.20	1.53	45	0.023	
11/16/2023	1,218	381	0.096	5.2	0.59	7.9	205	0.102	
11/28/2023	1,498	280	0.074	2.7	0.34	4.6	149	0.075	
12/13/2023	1,855	357	0.103	2.5	0.34	4.3	144	0.072	
12/28/2023	2,181	326	0.053	1.0	0.15	1.8	58	0.029	
1/19/2024	2,699	518	0.074	0.6	0.08	0.8	38	0.019	
3/6/2024	3,827	1,128	1.409	2.5	1.43	3.5	141	0.070	
5/14/2024	5,482	1,655	2.115	3.4	2.26	5.8	191	0.095	
7/26/2024	7,227	1,746	0.137	2.5	0.33	4.8	178	0.089	
9/6/2024	8,205	977	0.173	0.7	0.19	1.2	51	0.025	
11/19/2024	9,837	1,632	0.311	2.7	0.35	3.4	80	0.040	
2/6/2025	11,734	1,897	0.088	0.8	0.10	1.0	23	0.011	
5/21/2025	14,220	2,486	0.325	1.6	0.13	1.4	27	0.014	
8/18/2025	16,335	2,114	0.381	3.8	0.15	2.4	70	0.035	
	Total Ma	ss Recovery to Date	6.99	49	8.8	60	1,991	1.00	

Notes:

cf: cubic feet
scfm: standard cubic feet per minute
µg/L: micrograms per liter
lib/hr: pounds per hour
P/D: photoionization detector
ppm: parts per million
TVPH: total volatile petroleum hydrocarbons
-: not measured
gray: laboratory reporting limit used for calculating emissions

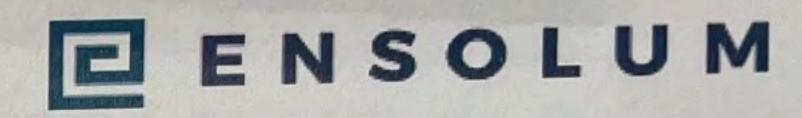




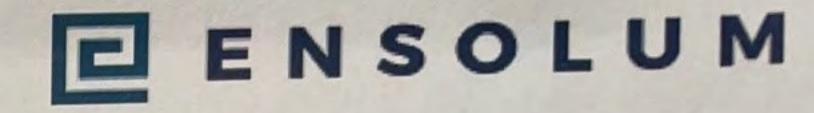


APPENDIX A

Field Notes



TIME ONSITE:	1-17	O&M PERSONNEL: TIME OFFSITE:		16	
		SVE SYSTEM - M	ONTHLY O&M		
SVE ALARMS:[KO TANK HIGH LEVEL			
WEEKLY MAINTENANCE:	Blower Bearing Grease Blower Oil Change	Check/Date			
SVE SYSTEM Blower Hours (take photo) Inlet Vacuum (IHG) Differential Pressure (IWC) Inlet PID Exhaust PID Inlet Temperature K/O Liguid Desired (Aller)	7,75	130 Y			
K/O Liquid Drained (gallons) SAMPLE ID: Analytes: OPERATING WELLS	Sample Bi-Monthly (ev	SVE SYSTEM S SAMPLE TIME: very other month) for TVPH (8	SAMPLING 3015), BTEX (8260), Fixed Gas	(CO2 AND O2)	
Change in Well Operation:					
WELLHEAD MEASUREMENT WELL ID SVE01 SVE02 SVE03	VACUUM (IHG)	PID HEADSPACE (PPM)	DIFF PRESSURE (IN W.C.)	OXYGEN (%)	CARBON DIOXIDE (%)
COMMENTS/OTHER MAINTE	NANCE:				



SUNRAY B 1B SVE SYSTEM

		O&M FO	DRM /		
TIME ONSITE:	7-28	O&M PERSONNEL: TIME OFFSITE:			
		SVE SYSTEM - M	ONTHLY O&M		
SVE ALARMS:		KO TANK HIGH LEVEL			
WEEKLY MAINTENANCE: E	Blower Bearing Co.	Check/Date			
JARTERLY MAINTENANCE: E	Blower Oil Change	V			
SVE SYSTEM	READING	TIME			
Blower Hours (take photo)	15845.0	1240			
Differential Pressure (IMC)	5.8				
Differential Pressure (IWC) Inlet PID					
Exhaust PID	28.3				
Inlet Temperature	60.3				
K/O Tank Liquid Level					
K/O Liquid Drained (gallons)					
		SVE SYSTEM :	SAMPLING		
SAMPLE ID:		SAMPLE TIME:			
Analytes:	Sample Bi-Monthly (ev	ery other month) for TVPH (8015), BTEX (8260), Fixed Gas	(CO2 AND O2)	
OPERATING WELLS					
Change in Well Operation:					
WELLHEAD MEASUREMENT	S				
WELL ID	VACUUM (IHG)		DIFF PRESSURE (IN W.C.)	OXYGEN (%)	CARBON DIOXIDE (%)
SVE01	7.0	71.1	0.05	20.9	900
SVE02					
SVE03					
COMMENTS/OTHER MAINTE	NANCE:				
Exhaust rep	placed 7.	-29			

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SUNRAY B 1B SVE SYSTEM O&M FORM

DATE: TIME ONSITE:	8-18	O&M PERSONNEL: TIME OFFSITE:	B Sinclair	
TIVIL ONOTIL.		_ TIME OFFSITE.		
		SVE SYSTEM - MO	ONTHLY O&M	
SVE ALARMS:[KO TANK HIGH LEVEL		
		Check/Date		
WEEKLY MAINTENANCE:	Blower Bearing Greas	e		
JARTERLY MAINTENANCE:	Blower Oil Change			
SVE SYSTEM	READING	TIME		
Blower Hours (take photo)		1143		
Inlet Vacuum (IHG)				
Differential Pressure (IWC)				
Inlet PID				
Exhaust PID				
erh inlet Temperature	150			
K/O Tank Liquid Level K/O Liquid Drained (gallons)				
100 Liquid Diamed (galions)				
		SVE SYSTEM	SAMPLING	
SAMPLE ID:	SVE-1	SAMPLE TIME:		
Analytes:	Sample Bi-Monthly (e		(8015), BTEX (8260), Fixed Gas (CO2 AND O2)	
OPERATING WELLS				

Change in Well Operation:

WELLHEAD MEASUREMENT	S				
WELL ID	VACUUM (IHG)	I PID HEADSPACE (PPM)	DIFF PRESSURE (IN W.C.)	OXYGEN (%)	CARBON DIOXIDE (%)
	**************************************	20 4	071	709	1480
SVE01	3.0	00.1	7,2		
SVE02	The second second				
SVF03					

COMMENTS/OTHER MAINTENANCE:

ENSOLUM

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DATE: TIME ONSITE:	8-27	O&M PERSONNEL TIME OFFSITE	B Since	lair	
		SVE SYSTEM - M	ONTHLY O&M		
SVE ALARMS:		KO TANK HIGH LEVEL			
WEEKLY MAINTENANCE: E	Blower Bearing Grease	Check/Date			
Blower Hours (take photo) Inlet Vacuum (IHG) Differential Pressure (IWC) Inlet PID Exhaust PID Inlet Temperature K/O Tank Liquid Level	READING 16553 5.7 0.23 78.5 39.6	TIME 1402			
K/O Liquid Drained (gallons) SAMPLE ID:		SVE SYSTEM SAMPLE TIME:	MEDICAL PROPERTY OF THE PROPER		
Analytes: S OPERATING WELLS	Sample Bi-Monthly (ev	ery other month) for TVPH (8015), BTEX (8260), Fixed G	as (CO2 AND O2)	
Change in Well Operation:					
WELLHEAD MEASUREMENTS WELL ID SVE01	VACUUM (IHG)	PID HEADSPACE (PPM)	DIFF PRESSURE (IN W.C.)	OXYGEN (%) 20.9	CARBON DIOXIDE (%)
SVE02 SVE03					
COMMENTS/OTHER MAINTEN	NANCE:				

ENSOLUM

STATE OF STA		O&M PERSONNEL TIME OFFSITE			
		SVE SYSTEM - M	ONTHLY O&M		
SVE ALARMS:		KO TANK HIGH LEVEL			
WELL		Check/Date			
WEEKLY MAINTENANCE: QUARTERLY MAINTENANCE:	Blower Bearing Greas Blower Oil Change	e V			
SVE SYSTEM Blower Hours (take photo)	READING	TIME			
Differential Pressure (IWC) Inlet PID	0.22	1250			
Exhaust PID Inlet Temperature K/O Tank Liquid Level	45:7				
K/O Liquid Drained (gallons)		SVE SYSTEM S	SAMPLING		
SAMPLE ID:		SAMPLE TIME:			
OPERATING WELLS	Sample BI-Monthly (ev	ery other month) for TVPH (3015), BTEX (8260), Fixed Gas	(CO2 AND O2)	
Change in Well Operation:					
WELLHEAD MEASUREMENT	s				
WELL ID	VACUUM (IHG)	PID HEADSPACE (PPM)	DIFF PRESSURE (IN W.C.)	OXYGEN (%)	CARBON DIOXIDE (%)
SVE01 SVE02	5.0	68.3	0.18	20.9	960
SVE03			Control of the same of the same		



DATE: TIME ONSITE:	9-29	O&M PERSONNEL: TIME OFFSITE:			
		SVE SYSTEM - MO	ONTHLY O&M		
SVE ALARMS:		KO TANK HIGH LEVEL			
WEEKLY MAINTENANCE: QUARTERLY MAINTENANCE:		Check/Date			
SVE SYSTEM Blower Hours (take photo) Inlet Vacuum (IHG) Differential Pressure (IWC)	READING 17.346, 1 5,0	TIME 1317			
Inlet PID Exhaust PID Inlet Temperature K/O Tank Liquid Level K/O Liquid Drained (gallons)	53.8				
		SVE SYSTEM :	SAMPLING		
SAMPLE ID: Analytes:	Sample Ri-Monthly (ev	SAMPLE TIME:	3015), BTEX (8260), Fixed Gas	(CO2 AND O2)	
OPERATING WELLS	Sample Brivionally (CV	ory outer monary for 1 vi i i (5010), B12X (0200), 11X00 000		
Change in Well Operation:					
WELLHEAD MEASUREMENTS WELL ID SVE01 SVE02 SVE03	VACUUM (IHG)	PID HEADSPACE (PPM)	DIFF PRESSURE (IN W.C.)	OXYGEN (%) 20.9	CARBON DIOXIDE (%)
COMMENTS/OTHER MAINTEN	NANCE:				



APPENDIX B

Project Photographs

PROJECT PHOTOGRAPHS

Sunray B 1B San Juan County, New Mexico Hilcorp Energy Company

Photograph 1

Runtime meter taken on June 26, 2025 at 12:18 PM Hours = 15,075.6



Photograph 2

Runtime meter taken on September 29, 2025 at 1:17 PM Hours = 17,346.1





APPENDIX C

Laboratory Analytical Reports

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 8/28/2025 2:08:13 PM

JOB DESCRIPTION

Sunray B 1B

JOB NUMBER

885-31301-1

Eurofins Albuquerque 4901 Hawkins NE Albuquerque NM 87109

Eurofins Albuquerque

Job Notes

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

Authorization

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

Page 2 of 24 8/28/2025

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12

Laboratory Job ID: 885-31301-1

Client: Hilcorp Energy Project/Site: Sunray B 1B

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Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	6
QC Sample Results	8
QC Association Summary	11
Lab Chronicle	12
Certification Summary	13
Subcontract Data	16
Chain of Custody	23
Receint Checklists	24

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Definitions/Glossary

Client: Hilcorp Energy Job ID: 885-31301-1

Project/Site: Sunray B 1B

Glossary

MDC

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)

LOD Limit of Detection (DoD/DOE)

LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

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)

Minimum Detectable Concentration (Radiochemistry)

 NEG
 Negative / Absent

 POS
 Positive / Present

 PQL
 Practical Quantitation Limit

PRES Presumptive
QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

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

TEF Toxicity Equivalent Factor (Dioxin)
TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

Eurofins Albuquerque

Case Narrative

Client: Hilcorp Energy

Job ID: 885-31301-1

Project: Sunray B 1B

Job ID: 885-31301-1 Eurofins Albuquerque

Job Narrative 885-31301-1

The analytical test results presented in this report meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page, unless otherwise noted. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable. Regulated compliance samples (e.g. SDWA, NPDES) must comply with associated agency requirements/permits.

- Matrix-specific batch QC (e.g., MS, MSD, SD) may not be reported when insufficient sample volume is available or when site-specific QC samples are not submitted. In such cases, a Laboratory Control Sample Duplicate (LCSD) may be analyzed to provide precision data for the batch.
- For samples analyzed using surrogate and/or isotope dilution analytes, any recoveries falling outside of established acceptance criteria are re-prepared and/or re-analyzed to confirm results, unless the deviation is due to sample dilution or otherwise explained in the case narrative.

Receipt

The sample was received on 8/19/2025 3:08 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice.

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.

GC/MS VOA

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

Gasoline Range Organics

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

Eurofins Albuquerque

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Matrix: Air

Client Sample Results

Client: Hilcorp Energy Job ID: 885-31301-1

Project/Site: Sunray B 1B

Client Sample ID: SVE-1

Date Collected: 08/18/25 12:00 Date Received: 08/19/25 15:08

Lab Sample ID: 885-31301-1

Method: SW846 8260B - Volatile	Organic Compounds (GC/I	VIS)				
Analyte	Result Qualifier	RL	Unit	D Prepared	Analyzed	Dil Fa
1,1,1,2-Tetrachloroethane	ND	0.50	ug/L		08/20/25 18:39	
1,1,1-Trichloroethane	ND	0.50	ug/L		08/20/25 18:39	
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L		08/20/25 18:39	
1,1,2-Trichloroethane	ND	0.50	ug/L		08/20/25 18:39	
1,1-Dichloroethane	ND	0.50	ug/L		08/20/25 18:39	
1,1-Dichloroethene	ND	0.50	ug/L		08/20/25 18:39	
1,1-Dichloropropene	ND	0.50	ug/L		08/20/25 18:39	
1,2,3-Trichlorobenzene	ND	0.50	ug/L		08/20/25 18:39	
1,2,3-Trichloropropane	ND	1.0	ug/L		08/20/25 18:39	
1,2,4-Trichlorobenzene	ND	0.50	ug/L		08/20/25 18:39	
1,2,4-Trimethylbenzene	1.0	0.50	ug/L		08/20/25 18:39	:
1,2-Dibromo-3-Chloropropane	ND	1.0	ug/L		08/20/25 18:39	:
1,2-Dibromoethane (EDB)	ND	0.50	ug/L		08/20/25 18:39	
1,2-Dichlorobenzene	ND	0.50	ug/L		08/20/25 18:39	
1,2-Dichloroethane (EDC)	ND	0.50	ug/L		08/20/25 18:39	
1,2-Dichloropropane	ND	0.50	ug/L		08/20/25 18:39	
1,3,5-Trimethylbenzene	1.1	0.50	ug/L		08/20/25 18:39	
1,3-Dichlorobenzene	ND	0.50	ug/L		08/20/25 18:39	
1,3-Dichloropropane	ND	0.50	ug/L		08/20/25 18:39	
1,4-Dichlorobenzene	ND	0.50	ug/L		08/20/25 18:39	
I-Methylnaphthalene	ND	2.0	ug/L		08/20/25 18:39	
2,2-Dichloropropane	ND	1.0	ug/L		08/20/25 18:39	
2-Butanone	ND	5.0	ug/L		08/20/25 18:39	
2-Chlorotoluene	ND	0.50	ug/L		08/20/25 18:39	
2-Hexanone	ND	5.0	ug/L		08/20/25 18:39	
2-Methylnaphthalene	ND	2.0	ug/L		08/20/25 18:39	
4-Chlorotoluene	ND	0.50	ug/L		08/20/25 18:39	
1-Isopropyltoluene	ND	0.50	ug/L		08/20/25 18:39	
4-Methyl-2-pentanone	ND	5.0	ug/L		08/20/25 18:39	
Acetone	ND	5.0	ug/L		08/20/25 18:39	
Benzene	ND	0.50	ug/L		08/20/25 18:39	
Bromobenzene	ND	0.50	ug/L		08/20/25 18:39	
Bromodichloromethane	ND	0.50	ug/L		08/20/25 18:39	
Dibromochloromethane	ND	0.50	ug/L ug/L		08/20/25 18:39	
Bromoform	ND	0.50	,,		08/20/25 18:39	
Bromomethane	ND ND	1.5	ug/L			
Carbon disulfide			ug/L		08/20/25 18:39	
	ND ND	5.0	ug/L		08/20/25 18:39	
Carbon tetrachloride	ND ND	0.50	ug/L		08/20/25 18:39	
Chlorobenzene	ND ND	0.50	ug/L		08/20/25 18:39	
Chloroethane	ND	1.0	ug/L		08/20/25 18:39	
Chloroform	ND	0.50	ug/L		08/20/25 18:39	
Chloromethane	ND	1.5	ug/L		08/20/25 18:39	
cis-1,2-Dichloroethene	ND	0.50	ug/L		08/20/25 18:39	
cis-1,3-Dichloropropene	ND	0.50	ug/L		08/20/25 18:39	
Dibromomethane	ND	0.50	ug/L		08/20/25 18:39	
Dichlorodifluoromethane	ND	0.50	ug/L		08/20/25 18:39	
Ethylbenzene	ND	0.50	ug/L		08/20/25 18:39	
Hexachlorobutadiene	ND	0.50	ug/L		08/20/25 18:39	

Eurofins Albuquerque

Client Sample Results

Client: Hilcorp Energy Job ID: 885-31301-1

Project/Site: Sunray B 1B

Date Received: 08/19/25 15:08

Client Sample ID: SVE-1 Lab Sample ID: 885-31301-1 Date Collected: 08/18/25 12:00

Matrix: Air

Sample Time: 0 Min Sample Container: Tedlar Bag 1L

Method: SW846 8260B - Volatile Analyte	•	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		0.50	ug/L			08/20/25 18:39	5
Methyl-tert-butyl Ether (MTBE)	ND		0.50	ug/L			08/20/25 18:39	5
Methylene Chloride	ND		1.5	ug/L			08/20/25 18:39	5
n-Butylbenzene	ND		1.5	ug/L			08/20/25 18:39	5
N-Propylbenzene	ND		0.50	ug/L			08/20/25 18:39	5
Naphthalene	ND		1.0	ug/L			08/20/25 18:39	5
sec-Butylbenzene	ND		0.50	ug/L			08/20/25 18:39	5
Styrene	ND		0.50	ug/L			08/20/25 18:39	5
tert-Butylbenzene	ND		0.50	ug/L			08/20/25 18:39	5
Tetrachloroethene (PCE)	ND		0.50	ug/L			08/20/25 18:39	5
Toluene	18		0.50	ug/L			08/20/25 18:39	5
trans-1,2-Dichloroethene	ND		0.50	ug/L			08/20/25 18:39	5
trans-1,3-Dichloropropene	ND		0.50	ug/L			08/20/25 18:39	5
Trichloroethene (TCE)	ND		0.50	ug/L			08/20/25 18:39	5
Trichlorofluoromethane	ND		0.50	ug/L			08/20/25 18:39	5
Vinyl chloride	ND		0.50	ug/L			08/20/25 18:39	5
Xylenes, Total	8.1		0.75	ug/L			08/20/25 18:39	5
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	81		70 - 130		-		08/20/25 18:39	5
Toluene-d8 (Surr)	101		70 - 130				08/20/25 18:39	5
4-Bromofluorobenzene (Surr)	94		70 - 130				08/20/25 18:39	5
Dibromofluoromethane (Surr)	80		70 - 130				08/20/25 18:39	5
- Method: SW846 8015D - Gasolin	e Range Organi	cs (GRO) (GC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	370		25	ug/L		<u> </u>	08/25/25 15:21	5
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac

15 - 150

111

08/25/25 15:21

4-Bromofluorobenzene (Surr)

Dil Fac

6

QC Sample Results

Client: Hilcorp Energy Job ID: 885-31301-1

RL

0.10

0.10

Unit

ug/L

ug/L

D

Prepared

Project/Site: Sunray B 1B

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

MB MB Result

ND

Qualifier

Lab Sample ID: MB 885-32817/6 Matrix: Air

Analysis Batch: 32817

1,1,1,2-Tetrachloroethane

1.1.1-Trichloroethane

Analyte

Acetone

Benzene

Bromoform

Bromomethane

Carbon disulfide

Chlorobenzene

Chloroethane

Chloromethane

Dibromomethane

Ethylbenzene

cis-1,2-Dichloroethene

cis-1,3-Dichloropropene

Dichlorodifluoromethane

Hexachlorobutadiene

Chloroform

Carbon tetrachloride

Bromobenzene

Bromodichloromethane

Dibromochloromethane

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

Analyzed

08/20/25 15:20

08/20/25 15:20

1,1,2,2-Tetrachloroethane ND 0.20 ug/L 08/20/25 15:20 ug/L 1,1,2-Trichloroethane ND 0.10 08/20/25 15:20 ND 1.1-Dichloroethane 0.10 ug/L 08/20/25 15:20 1,1-Dichloroethene ND 0.10 ug/L 08/20/25 15:20 1,1-Dichloropropene ND 0.10 ug/L 08/20/25 15:20 1,2,3-Trichlorobenzene ND 0.10 ug/L 08/20/25 15:20 1,2,3-Trichloropropane ND 0.20 ug/L 08/20/25 15:20 1,2,4-Trichlorobenzene ND 0.10 ug/L 08/20/25 15:20 1,2,4-Trimethylbenzene ND 0.10 ug/L 08/20/25 15:20 1,2-Dibromo-3-Chloropropane ND 0.20 ug/L 08/20/25 15:20 ug/L 1,2-Dibromoethane (EDB) ND 0.10 08/20/25 15:20 1,2-Dichlorobenzene ND 0.10 ug/L 08/20/25 15:20 ug/L 1,2-Dichloroethane (EDC) ND 0.10 08/20/25 15:20 1,2-Dichloropropane ND 0.10 ug/L 08/20/25 15:20 1,3,5-Trimethylbenzene ND 0.10 ug/L 08/20/25 15:20 08/20/25 15:20 1.3-Dichlorobenzene ND 0.10 ug/L 1,3-Dichloropropane ND 0.10 ug/L 08/20/25 15:20 ND 1,4-Dichlorobenzene 0.10 ug/L 08/20/25 15:20 1-Methylnaphthalene ND 0.40 ug/L 08/20/25 15:20 2,2-Dichloropropane ND 0.20 ug/L 08/20/25 15:20 ND 08/20/25 15:20 2-Butanone 1.0 ug/L ug/L ND 0.10 08/20/25 15:20 2-Chlorotoluene 2-Hexanone ND 1.0 ug/L 08/20/25 15:20 2-Methylnaphthalene ND 0.40 ug/L 08/20/25 15:20 4-Chlorotoluene ND 0.10 ug/L 08/20/25 15:20 ND 0.10 08/20/25 15:20 4-Isopropyltoluene ug/L 4-Methyl-2-pentanone ND 1.0 ug/L 08/20/25 15:20

1.0

0.10

0.10

0.10

0.10

0.10

0.30

1.0

0.10

0.10

0.20

0.10

0.30

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Eurofins Albuquerque

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QC Sample Results

Client: Hilcorp Energy Job ID: 885-31301-1

Project/Site: Sunray B 1B

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

Lab Sample ID: MB 885-32817/6 Matrix: Air

Analysis Batch: 32817

Client Sample ID: Method Blank

Prep Type: Total/NA

MB MB Analyte Result Qualifier RL Unit D Dil Fac Prepared Analyzed ND 0.10 08/20/25 15:20 Isopropylbenzene ug/L ug/L Methyl-tert-butyl Ether (MTBE) ND 0.10 08/20/25 15:20 Methylene Chloride ND 0.30 08/20/25 15:20 ug/L n-Butylbenzene ND 0.30 ug/L 08/20/25 15:20 ND N-Propylbenzene 0.10 ug/L 08/20/25 15:20 Naphthalene ND 0.20 ug/L 08/20/25 15:20 sec-Butylbenzene ND 0.10 ug/L 08/20/25 15:20 Styrene ND 0.10 ug/L 08/20/25 15:20 tert-Butylbenzene ND 0.10 ug/L 08/20/25 15:20 Tetrachloroethene (PCE) ND 0.10 ug/L 08/20/25 15:20 Toluene ND 0.10 ug/L 08/20/25 15:20 ND 0.10 08/20/25 15:20 trans-1,2-Dichloroethene ug/L ND 0.10 08/20/25 15:20 trans-1,3-Dichloropropene ug/L Trichloroethene (TCE) ND 0.10 ug/L 08/20/25 15:20 Trichlorofluoromethane ND 0.10 ug/L 08/20/25 15:20 ND Vinyl chloride 0.10 ug/L 08/20/25 15:20 Xylenes, Total ND 0.15 ug/L 08/20/25 15:20

MB MB

Surrogate	%Recovery Qualifier	Limits	Prepare	ed Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96	70 - 130		08/20/25 15:20	1
Toluene-d8 (Surr)	86	70 - 130		08/20/25 15:20	1
4-Bromofluorobenzene (Surr)	85	70 - 130		08/20/25 15:20	1
Dibromofluoromethane (Surr)	87	70 - 130		08/20/25 15:20	1

Lab Sample ID: LCS 885-32817/5

Matrix: Air

Analysis Batch: 32817

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

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,1-Dichloroethene	20.0	18.7		ug/L		93	70 - 130	
Benzene	20.0	21.1		ug/L		106	70 - 130	
Chlorobenzene	20.0	21.9		ug/L		109	70 - 130	
Toluene	20.0	21.8		ug/L		109	70 - 130	
Trichloroethene (TCE)	20.0	19.8		ug/L		99	70 - 130	

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	90		70 - 130
Toluene-d8 (Surr)	86		70 - 130
4-Bromofluorobenzene (Surr)	88		70 - 130
Dibromofluoromethane (Surr)	81		70 - 130

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QC Sample Results

Client: Hilcorp Energy Job ID: 885-31301-1

Project/Site: Sunray B 1B

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

Lab Sample ID: MB 885-33140/5 Client Sample ID: Method Blank

Matrix: Air
Analysis Batch: 33140

Prep Type: Total/NA

MB MB

Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac

Gasoline Range Organics [C6 - C10] ND 5.0 ug/L 08/25/25 13:45

 MB
 MB

 Surrogate
 %Recovery
 Qualifier
 Limits
 Prepared
 Analyzed
 Dil Fac

 4-Bromofluorobenzene (Surr)
 92
 15 - 150
 08/25/25 13:45
 1

Lab Sample ID: LCS 885-33140/4 Client Sample ID: Lab Control Sample

Matrix: Air
Analysis Batch: 33140

Prep Type: Total/NA

Spike LCS LCS %Rec

AnalyteAddedResultQualifierUnitD%RecLimitsGasoline Range Organics [C6 -50.044.7ug/L8970 - 130

C10]

LCS LCS

Surrogate%RecoveryQualifierLimits4-Bromofluorobenzene (Surr)19115 - 150

QC Association Summary

Client: Hilcorp Energy Job ID: 885-31301-1

Project/Site: Sunray B 1B

GC/MS VOA

Analysis Batch: 32817

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-31301-1	SVE-1	Total/NA	Air	8260B	
MB 885-32817/6	Method Blank	Total/NA	Air	8260B	
LCS 885-32817/5	Lab Control Sample	Total/NA	Air	8260B	

GC VOA

Analysis Batch: 33140

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-31301-1	SVE-1	Total/NA	Air	8015D	
MB 885-33140/5	Method Blank	Total/NA	Air	8015D	
LCS 885-33140/4	Lab Control Sample	Total/NA	Air	8015D	

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Lab Chronicle

Client: Hilcorp Energy Job ID: 885-31301-1

Project/Site: Sunray B 1B

Client Sample ID: SVE-1 Lab Sample ID: 885-31301-1

Date Collected: 08/18/25 12:00 Matrix: Air Date Received: 08/19/25 15:08

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260B			32817	RA	EET ALB	08/20/25 18:39
Total/NA	Analysis	8015D		5	33140	JP	EET ALB	08/25/25 15:21

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

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Accreditation/Certification Summary

Client: Hilcorp Energy Job ID: 885-31301-1

Project/Site: Sunray B 1B

Laboratory: Eurofins Albuquerque

Released to Imaging: 10/17/2025 2:44:30 PM

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

Authority	Progra	m	Identification Number	Expiration Date
New Mexico	State		NM9425, NM0901	02-27-26
• .	are included in this report, but bes not offer certification.	the laboratory is not certif	ied by the governing authority. This lis	st may include analytes
Analysis Method	Prep Method	Matrix	Analyte	
8015D		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-Chloroprop	oane
8260B		Air	1,2-Dibromoethane (EDB))
8260B		Air	1,2-Dichlorobenzene	
8260B		Air	1,2-Dichloroethane (EDC))
8260B		Air	1,2-Dichloropropane	
8260B		Air	1,3,5-Trimethylbenzene	
8260B		Air	1,3-Dichlorobenzene	
8260B		Air	1,3-Dichloropropane	
8260B		Air	1,4-Dichlorobenzene	
8260B		Air	1-Methylnaphthalene	
8260B		Air	2,2-Dichloropropane	
8260B		Air	2-Butanone	
8260B		Air	2-Chlorotoluene	
8260B		Air	2-Hexanone	
8260B		Air	2-Methylnaphthalene	
8260B		Air	4-Chlorotoluene	
8260B		Air	4-Isopropyltoluene	
8260B		Air	4-Methyl-2-pentanone	
8260B		Air	Acetone	
8260B		Air	Benzene	
8260B		Air	Bromobenzene	
8260B		Air	Bromodichloromethane	
8260B		Air	Bromoform	
8260B		Air	Bromomethane	
8260B		Air	Carbon disulfide	
8260B		Air	Carbon tetrachloride	
8260B		Air	Chlorobenzene	
8260B		Air	Chloroethane	
8260B		Air	Chloroform	
8260B		Air	Chloromethane	
8260B		Air	cis-1,2-Dichloroethene	
8260B		Air	cis-1,3-Dichloropropene	

Eurofins Albuquerque

Accreditation/Certification Summary

Client: Hilcorp Energy Job ID: 885-31301-1

Project/Site: Sunray B 1B

Laboratory: Eurofins Albuquerque (Continued)

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

hority	Progra	am	Identification Number	Expiration Date
	are included in this report, bu	t the laboratory is not certif	ied by the governing authority. This li	st may include analyte
Analysis Method	Prep Method	Matrix	Analyte	
8260B		Air	Dibromomethane	
8260B		Air	Dichlorodifluoromethane	
8260B		Air	Ethylbenzene	
8260B		Air	Hexachlorobutadiene	
8260B		Air	Isopropylbenzene	
8260B		Air	Methylene Chloride	
8260B		Air	Methyl-tert-butyl Ether (M	ITBE)
8260B		Air	Naphthalene	
8260B		Air	n-Butylbenzene	
8260B		Air	N-Propylbenzene	
8260B		Air	sec-Butylbenzene	
8260B		Air	Styrene	
8260B		Air	tert-Butylbenzene	
8260B		Air	Tetrachloroethene (PCE)	
8260B		Air	Toluene	
8260B		Air	trans-1,2-Dichloroethene	
8260B		Air	trans-1,3-Dichloropropen	е
8260B		Air	Trichloroethene (TCE)	
8260B		Air	Trichlorofluoromethane	
8260B		Air	Vinyl chloride	
8260B		Air	Xylenes, Total	
on	NELAI	0	NM100001	02-26-26

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

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

Eurofins Albuquerque

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Accreditation/Certification Summary

Client: Hilcorp Energy Job ID: 885-31301-1

Project/Site: Sunray B 1B

Laboratory: Eurofins Albuquerque (Continued)

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

ority	Progra	am	Identification Number Expiration	Date
	are included in this report, bu	ut the laboratory is not certif	ied by the governing authority. This list may include a	nalyte
Analysis Method	Prep Method	Matrix	Analyte	
8260B		Air	1-Methylnaphthalene	
8260B		Air	2,2-Dichloropropane	
8260B		Air	2-Butanone	
8260B		Air	2-Chlorotoluene	
8260B		Air	2-Hexanone	
8260B		Air	2-Methylnaphthalene	
8260B		Air	4-Chlorotoluene	
8260B		Air	4-Isopropyltoluene	
8260B		Air	4-Methyl-2-pentanone	
8260B		Air	Acetone	
8260B		Air	Benzene	
8260B		Air	Bromobenzene	
8260B		Air	Bromodichloromethane	
8260B		Air	Bromoform	
8260B		Air	Bromomethane	
8260B		Air	Carbon disulfide	
8260B		Air	Carbon tetrachloride	
8260B		Air	Chlorobenzene	
8260B		Air	Chloroethane	
8260B		Air	Chloroform	
8260B		Air	Chloromethane	
8260B		Air	cis-1,2-Dichloroethene	
8260B		Air	cis-1,3-Dichloropropene	
8260B		Air	Dibromochloromethane	
8260B		Air	Dibromomethane	
8260B		Air	Dichlorodifluoromethane	
8260B		Air		
8260B		Air	Ethylbenzene Hexachlorobutadiene	
8260B		Air	Isopropylbenzene	
8260B 8260B		Air	Methyl tert butyl Ether (MTRE)	
		Air	Methyl-tert-butyl Ether (MTBE)	
8260B		Air	Naphthalene n-Butylbenzene	
8260B		Air	•	
8260B		Air	N-Propylbenzene	
8260B		Air	sec-Butylbenzene	
8260B		Air	Styrene	
8260B		Air	tert-Butylbenzene	
8260B		Air	Tetrachloroethene (PCE)	
8260B		Air	Toluene	
8260B		Air	trans-1,2-Dichloroethene	
8260B		Air	trans-1,3-Dichloropropene	
8260B		Air	Trichloroethene (TCE)	
8260B		Air	Trichlorofluoromethane	
8260B		Air	Vinyl chloride	
8260B		Air	Xylenes, Total	

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ANALYTICAL SUMMARY REPORT

August 27, 2025

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

Work Order: B25081899 Quote ID: B15626

Project Name: Sunray B 1B 88501698

Energy Laboratories Inc Billings MT received the following 1 sample for Eurofins TestAmerica - Albuquerque on 8/20/2025 for analysis.

Lab ID	Client Sample ID	Collect Date Receive	Date Matrix	Test
B25081899-001	SVE-1 (885-31301-1)	08/18/25 12:00 08/20)/25 Air	Air Correction Calculations Appearance and Comments Calculated Properties GPM @ std cond,/1000 cu. ft., moist. Free Natural Gas Analysis Specific Gravity @ 60/60

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

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

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

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

ge 1 of 7 8/28/2025

Billings, MT 406.252.6325 . Casper, WY 307.235.0515 Gillette, WY 307.686.7175 . Helena, MT 406.442.0711

Report Date: 08/27/25

LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client: Eurofins TestAmerica - Albuquerque

Project: Sunray B 1B 88501698 B25081899-001 Lab ID:

Collection Date: 08/18/25 12:00 DateReceived: 08/20/25 Client Sample ID: SVE-1 (885-31301-1) Matrix: Air

					MCL/		
Analyses	Result	Units	Qualifiers	RL	QCL	Method	Analysis Date / By
GAS CHROMATOGRAPHY ANALYSIS	REPORT						
Oxygen	21.82	Mol %		0.01		GPA 2261-13	08/22/25 09:34 / jrj
Nitrogen	77.95	Mol %		0.01		GPA 2261-13	08/22/25 09:34 / jrj
Carbon Dioxide	0.22	Mol %		0.01		GPA 2261-13	08/22/25 09:34 / jrj
Hydrogen Sulfide	< 0.01	Mol %		0.01		GPA 2261-13	08/22/25 09:34 / jrj
Methane	<0.01	Mol %		0.01		GPA 2261-13	08/22/25 09:34 / jrj
Ethane	< 0.01	Mol %		0.01		GPA 2261-13	08/22/25 09:34 / jrj
Propane	<0.01	Mol %		0.01		GPA 2261-13	08/22/25 09:34 / jrj
sobutane	< 0.01	Mol %		0.01		GPA 2261-13	08/22/25 09:34 / jrj
n-Butane	<0.01	Mol %		0.01		GPA 2261-13	08/22/25 09:34 / jrj
sopentane	< 0.01	Mol %		0.01		GPA 2261-13	08/22/25 09:34 / jrj
n-Pentane	< 0.01	Mol %		0.01		GPA 2261-13	08/22/25 09:34 / jrj
Hexanes plus	0.01	Mol %		0.01		GPA 2261-13	08/22/25 09:34 / jrj
Propane	< 0.001	gpm		0.001		GPA 2261-13	08/22/25 09:34 / jrj
sobutane	< 0.001	gpm		0.001		GPA 2261-13	08/22/25 09:34 / jrj
n-Butane	< 0.001	gpm		0.001		GPA 2261-13	08/22/25 09:34 / jrj
sopentane	< 0.001	gpm		0.001		GPA 2261-13	08/22/25 09:34 / jrj
n-Pentane	< 0.001	gpm		0.001		GPA 2261-13	08/22/25 09:34 / jrj
Hexanes plus	0.004	gpm		0.001		GPA 2261-13	08/22/25 09:34 / jrj
GPM Total	0.004	gpm		0.001		GPA 2261-13	08/22/25 09:34 / jrj
GPM Pentanes plus	0.004	gpm		0.001		GPA 2261-13	08/22/25 09:34 / jrj
CALCULATED PROPERTIES							
Gross BTU per cu ft @ Std Cond. (HHV)	ND			1		GPA 2261-13	08/22/25 09:34 / jrj
Net BTU per cu ft @ std cond. (LHV)	ND			1		GPA 2261-13	08/22/25 09:34 / jrj
Pseudo-critical Pressure, psia	546			1		GPA 2261-13	08/22/25 09:34 / jrj
Pseudo-critical Temperature, deg R	239			1		GPA 2261-13	08/22/25 09:34 / jrj
Specific Gravity @ 60/60F	0.999			0.001		D3588-17	08/22/25 09:34 / jrj
Air, % - The analysis was not corrected for air.	99.70			0.01		GPA 2261-13	08/22/25 09:34 / jrj

COMMENTS

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

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

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

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

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

MCL - Maximum Contaminant Level

ND - Not detected at the Reporting Limit (RL)

08/22/25 09:34 / jrj

Work Order: B25081899



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

Report Date: 08/27/25

QA/QC Summary Report

Prepared by Billings, MT Branch

Analyte		Count Res	ult Units	s RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method:	GPA 2261-13								Batch:	R447995
Lab ID:	B25082122-001ADUP	12 Sample D	uplicate			Run: GC78	90_250822A		08/22	/25 12:07
Oxygen		2	2.0 Mol %	6 0.01				3.5	20	
Nitrogen		7	7.6 Mol %	6 0.01				1.0	20	
Carbon [Dioxide	0	.39 Mol %	6 0.01				0.0	20	
Hydroge	n Sulfide	<0	.01 Mol %	6 0.01					20	
Methane		<0	.01 Mol %	6 0.01					20	
Ethane		<0	.01 Mol %	6 0.01					20	
Propane		<0	.01 Mol %	6 0.01					20	
Isobutan	е	<0	.01 Mol %	6 0.01					20	
n-Butane)	<0	.01 Mol %	6 0.01					20	
Isopenta	ne	<0	.01 Mol %	6 0.01					20	
n-Pentar	ne	<0	.01 Mol %	6 0.01					20	
Hexanes	plus	0	.01 Mol %	6 0.01				0.0	20	
Lab ID:	LCS082225	11 Laborator	y Control Sa	mple		Run: GC78	90_250822A		08/22	/25 12:59
Oxygen		0	.64 Mol %	6 0.01	130	70	130			
Nitrogen		6	.51 Mol %	6 0.01	110	70	130			
Carbon [Dioxide	0	.97 Mol %	6 0.01	97	70	130			
Methane		7	6.0 Mol %	6 0.01	99	70	130			
Ethane		6	.01 Mol %	6 0.01	99	70	130			
Propane		5	.00 Mol %	6 0.01	100	70	130			
Isobutan	е	1	.71 Mol %	6 0.01	86	70	130			
n-Butane	•	1	.99 Mol %	6 0.01	100	70	130			
Isopenta	ne	0	.49 Mol %	6 0.01	98	70	130			
n-Pentar	ne	0	.50 Mol %	6 0.01	100	70	130			
Hexanes	plus	0	.19 Mol %	6 0.01	92	70	130			

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)

Gillette, WY 307.686.7175 . Helena, MT 406.442.0711

Work Order Receipt Checklist

Eurofins TestAmerica - Albuquerque B25081899

Login completed by:	Danielle N. Harris		Date l	Received: 8/20/2025
Reviewed by:	gmccartney		Red	ceived by: EAH
Reviewed Date:	8/21/2025		Carı	rier name: FedEx NDA
Shipping container/cooler in o	good condition?	Yes 🗸	No 🗌	Not Present
Custody seals intact on all sh	nipping 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	nipping container(s)/cooler(s)?	Yes	No ✓	Not Applicable
Container/Temp Blank tempe	erature:	22.2°C No Ice		
Containers requiring zero hea bubble that is <6mm (1/4").	adspace have no headspace or	Yes	No 🗌	No VOA vials submitted
Water - pH acceptable upon	receipt?	Yes	No 🗌	Not Applicable

Standard Reporting Procedures:

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

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

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

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

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

Contact and Corrective Action Comments:

None

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Laboratory Certifications and Accreditations

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

	Agency	Number
	Alaska	17-023
	California	3087
	Colorado	MT00005
	Department of Defense (DoD)/ISO17025	ADE-2588
Billings, MT	Florida (Primary NELAP)	E87668
	Idaho	MT00005
d	Louisiana	05079
ANAB	Montana	CERT0044
NSF National Accommission Brians	Nebraska	NE-OS-13-04
TESTING LABORIATORY	Nevada	NV-C24-00250
ACCRY.	North Dakota	R-007
A CONTRACTOR OF THE PARTY OF TH	National Radon Proficiency	109383-RMP
100	Oregon	4184
A CORNEO	South Dakota	ARSD 74:04:07
	Texas	TX-C24-00302
	US EPA Region VIII	Reciprocal
	USDA Soil Permit	P330-20-00170
	Washington	C1039
	Alaska	20-006
	California	3021
	Colorado	WY00002
	Florida (Primary NELAP)	E87641
	Idaho	WY00002
and the second	Louisiana	05083
asper, WY	Montana	CERTO002
SHO ACCOUNT	Nebraska	NE-OS-08-04
	Nevada	NV-C24-00245
FREDERICHT.	North Dakota	R-125
	Oregon	WY200001
	South Dakota	WY00002
	Texas	T104704181-23-21
	US EPA Region VIII	WY00002
	USNRC License	49-26846-01
	Washington	C1012
illette, WY	US EPA Region VIII	WY00006
	Colorado	MT00945
lelena, MT	Montana	CERT0079
Constitution of Artists	Nevada	NV-C24-00119
	US EPA Region VIII	Reciprocal
	USDA Soil Permit	P330-20-00090

ge 5 of 7 8/28/2025

Eurofins Albuquerque

4901 Hawkins NE

Albuquerque, NM 87109

Chain of Custody Record



eurofins

Phone: 505-345-3975 Fax: 505-345-4107											L	24.5						
Client Information (Sub Contract Lab)	Sampler: N/A			G	b PM; arcia,	Mich	ielle					Carrier Tra N/A		o(s):		COC No: 885-6182.1		
Client Contact: Shipping/Receiving	Phone: N/A						cia@et					State of Or New Mex				Page: Page 1 of 1		
Company: Energy Laboratories, Inc.							ations Re				xico					Job #: 885-31301-1		
Address: 1120 South 27th Street,	Due Date Request 8/26/2025	ed:							Ana	lysis	Rec	uested				Preservation -	Codes:	
City: Billings State, Zip:	TAT Requested (d	lays): N/A	4															
MT, 59101 Phone:	PO #:																	
406-252-6325(Tel) Email:	N/A WO#:				No.					1								
N/A	N/A				es or	r No	Sases								52			
Project Name: Sunray B 1B	Project #: 88501698				le (Y	o se,	- Fixed Gases								contain			
Site: N/A	SSOW#: N/A				Samp	SD (Yes or No)	to a								of co	Other: N/A		
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, 8=solid, O=waste/oil BT=Tissue, A=	eld Filte	rm MS/M	SUB - Subcontract								Total Number		I Instructions/	/Note:
		><		ition Code		X				45"					X			
SVE-1 (885-31301-1)	8/18/25	12:00 Mountain	G	Air			х		1						1	See Attached	nstructions	
																B250	31899	
									0									
					Н	H												
Note: Since laboratory accreditations are subject to change, Eurofins En laboratory does not currently maintain accreditation in the State of Origin accreditation status should be brought to Eurofins Environment Testing:	listed above for analysis/tesi	s/matrix being	analyzed, the	samples mus	st be sh	nipped	back to	the Euro	fins Env	ironmer	nt Testin	g South Ce	ntral, LL	C laborate	ory or othe	er instructions wil	be provided. Any	v changes to
Possible Hazard Identification						San				e may				les are		d longer than	1 month)	
Unconfirmed Deliverable Requested: I, II, III, IV, Other (specify)	Primary Deliver	able Rank	2		_	Sper	Retui	rn To C		Requir		sposal By	Lab		Archiv	ve For	Months	
	, , , , , , , , , , , , , , , , , , , ,							, , , , , ,		, - 4-11			d of Shi	nmont				
Empty Kit Relinquished by: Relinquished by:	Date/Time/ /a /	Date:		Company	1110	ne:	Received	bv:		_		Wedic		ate/Time:			Company	
The Mello	D/11/4	75	1430					-		_								
Relinquished by:	Date/Time:			Company		ľ	Received	i by:	51-	In	411	11		ite/Time:			Company	
Relinquished by:	Date/Time:			Company		F	Received	by:	best	ht	C	phon	Da	te/Time:	0/25	1015	Company	Г
Custody Seal No.: 'XYes ∆ No			WHE			C	Cooler Te	emperati	ure(s) °C	and Ot	her Re	narks;						

Ver: 10/10/2024







Received by OCD: 10/13/2025 1:58:13 PM

ICOC No: 885-6182

Containers

 Count
 Container Type

 1
 Tedlar Bag 1L

Preservative

None

Subcontract Method Instructions

Sample IDs	Method	Method Description	Method Comments
1	SUBCONTRACT	SUB - Subcontract - Fixed Gases	Fixed Gases









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N) ->

Chain-of-Custody Record

Client: H:lcorp	☑ Standard □ Rush	ANALYSTS LADO
$-\alpha$	Project Name:	ANALYSIS LABO
Mailing Address:		www.hallenvironmental.com
	Synray B 1B Project #: /	4901 Hawkins NE - Albuquerque, NM 87 Tel. 505-345-3975 Fax 505-345-410 885-31301 COC
Phone #:	-	Tel. 505-345-3975 Fax 505-345-410 Analysis Request
	Project Manager:	
email or Fax#: brandon. 5 inclair 6 hilora QA/QC Package:	n.	s (8021) 0 / MRO) 0 / MRO) 0 / MRO) 0 / MRO) 0 / MRO) 0 / MRO)
☐ Standard ☐ Level 4 (Full Validation)	Mitch Killough	
Accreditation: Az Compliance	Sampler: Brandon Sinclair	SS/8082 SS/8082 SS/8082 SO4.1) O or 8270 IS SO2 VPH
□ NELAC □ Other	On Ice:	J / J S S S S S S S S S
□ EDD (Type)	# of Coolers:	MTBE / NTBE / Sticides// Sticides/
	Cooler Temp(including cF): (°C)	Serricoliffication (1975)
	Container Preservative HEAL No.	BTEX / MTBE / TMI TPH:8015D(GRO / DI 8081 Pesticides/808; EDB (Method 504.1) PAHS by 8310 or 827 RCRA 8 Metals CI, F, Br, NO ₃ , NO ₂ 8250 (VOA) Total Coliform (Prese F; Xed gas Oz 8015 TVPF
Date Time Matrix Sample Name	Type and # Type	2008 BBT TP BBT
8-18 1200 air SVE-1	2 Tedlor	
Date Time. Relinquished by	Received by Via. Date Time 8/18/25 / 703	Remarks:
Date. Time Relinquished by	Received by Via Date Time	
8 w/ 180 / chia		
If necessary, sambles submitted to Hall Environmental may be su	bcontracted to other accredited laboratories. This serves as notice of this	is possibility Any sub-contracted data will be clearly notated on the analytical report

Turn-Around Time:

Login Sample Receipt Checklist

Client: Hilcorp Energy Job Number: 885-31301-1

Login Number: 31301 List Source: Eurofins Albuquerque

List Number: 1

Creator: McQuiston, Steven

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

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

General Information Phone: (505) 629-6116

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

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

CONDITIONS

Action 514683

CONDITIONS

Operator:	OGRID:
HILCORP ENERGY COMPANY	372171
1111 Travis Street	Action Number:
Houston, TX 77002	514683
	Action Type:
	[REPORT] Alternative Remediation Report (C-141AR)

CONDITIONS

Cre	eated	Condition	Condition Date
Ву			
n۱	/elez	1. Continue O&M & sampling as stated in report. 2. Submit next quarterly report by January 15, 2026.	10/17/2025