

REVIEWED

By NVelez at 11:13 am, Oct 25, 2024

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

October 2, 2024

New Mexico Oil Conservation Division

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

Re: Third Quarter 2024 – SVE System Update

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 2024 –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 2024.

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 are currently in operation 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.

THIRD QUARTER 2024 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 each SVE well, photoionization detector (PID) measurements of volatile organic compounds (VOCs) from each SVE well, vacuum measurements from each SVE well, and oxygen/carbon dioxide measurements via hand-held analyzers from each SVE well. Field visits were conducted bi-weekly throughout the third quarter of 2024. Field parameters noted above were collected during each visit. Field notes taken during operations and maintenance (O&M) visits are presented in Appendix A. Throughout third quarter 2024, vacuum extraction was performed on all Site SVE wells in order to induce flow in impacted soil zones. Between June 26 and September 19, 2024, the SVE system operated for 2,004.9 hours for a runtime efficiency of 98 percent (%). Appendix B presents photographs of the

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runtime meter for calculating the third quarter 2024 runtime efficiency. Table 1 presents the SVE system operational hours and calculated percentage runtime.

Based on the February 2023 COAs, vapor samples are required to be collected every other month from the second through the fourth quarter of operation from a sample port located between the SVE piping manifold and the SVE blower using a high vacuum air sampler. Vapor samples were collected on July 26 and September 6, 2024. Prior to collection, the vapor samples were field screened with a PID for organic vapor monitoring (OVM). The vapor samples were collected directly into two 1-Liter Tedlar® bags and submitted to Hall Environmental Analysis Laboratory (now 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 reports are attached as Appendix C. Oxygen and carbon dioxide levels over time are presented in Graphs 1 and 2, respectively. Vapor samples will be collected quarterly for the remainder of system operation.

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, 1,791 pounds (0.90 tons) of TVPH have been removed by the system to date between system startup and September 6, 2024.

DISCUSSION AND RECOMMENDATIONS

Based on the third quarter 2024 individual extraction well PID readings, adjustments will be made in the fourth quarter 2024 to focus vacuum extraction on SVE01 only, in order to maximize mass removal.

Bi-weekly 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 WA & TX) Senior Managing Geologist (970) 903-1607

shyde@ensolum.com

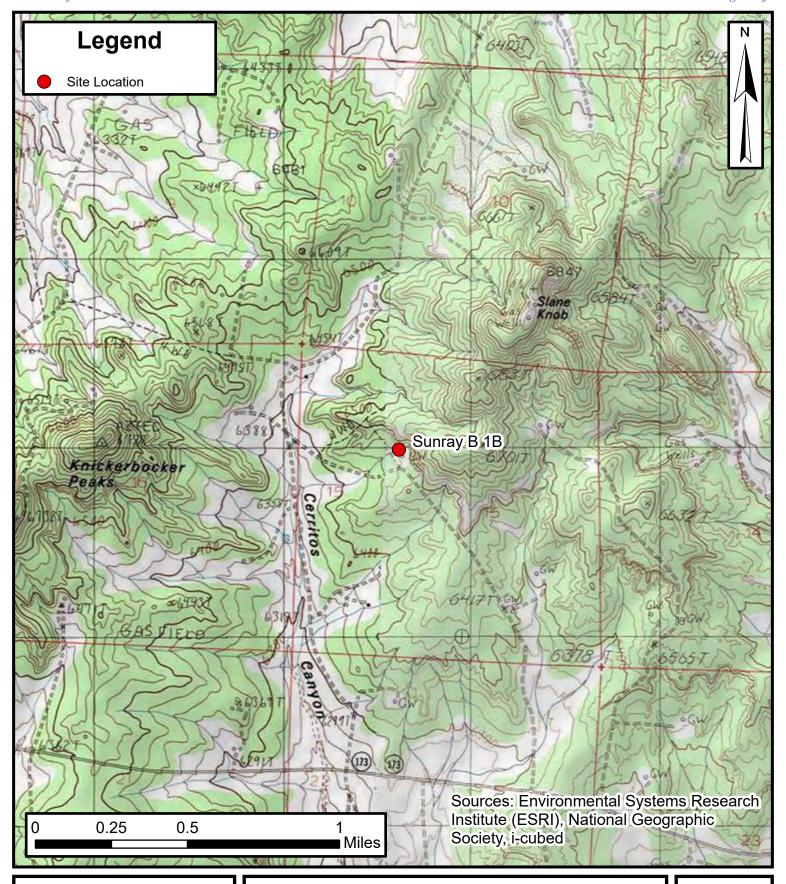
Daniel R. Moir, PG (licensed in WY & TX) Senior Managing Geologist (303) 887-2946 dmoir@ensolum.com

Attachments:

Figure 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	Field Notes
Appendix B	Project Photographs
Appendix C	Laboratory Analytical Reports



Figures



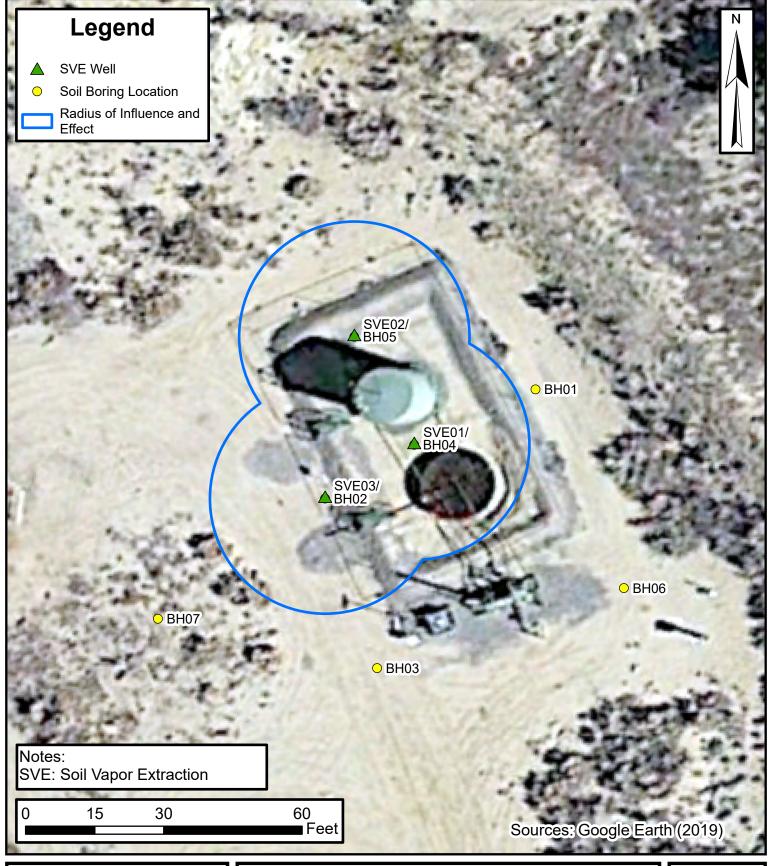


Site Location Map

Sunray B 1B Hilcorp Energy Company

> 36.8147621, -107.8746643 San Juan County, New Mexico

FIGURE





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



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		Sta	artup	
12/28/2023	2,181.4	2,054.6	90	95%	95%
3/21/2024	4,185.4	2,004.0	84	99%	97%
6/26/2024	6,514.1	2,328.7	97	100%	98%
9/19/2024	8,519.0	2,004.9	85	98%	98%

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TABLE 2 SOIL VAPOR EXTRACTION SYSTEM FIELD MEASUREMENTS Sunray B 1B **Hilcorp Energy Company** San Juan County, New Mexico Differential Flow Rate Carbon Dioxide PID SVE Well ID Date Flow Rate (acfm) Vacuum (IWC) Oxygen (%) (scfm)⁽¹⁾⁽²⁾ Pressure (IWC) (mag) (%) 788 2.70 92 8/29/2023 144 74.8 8/30/2023 1,826 68.0 20.9 0.62 3.00 151 20.9 9/29/2023 538 99 68.0 0.26 10/6/2023 431 3.00 151 101 60.5 20.9 0.00 356 201 127 0.00 10/12/2023 5.30 80.0 20.9 10/19/2023 399 5.70 209 131 81.0 20.9 0.10 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 4.80 192 135 40.8 1/19/2024 59 3.79 170 118 46.9 20.9 0.06 2/2/2024 143 3.65 167 116 47.6 20.9 0.02 Influent, All Wells 2/14/2024 329 3.40 161 111 51.0 2/23/2024 204 3.50 164 128 51.0 101 3.30 159 125 47.6 3/6/2024 --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 61.2 134 177 139 6/4/2024 4.12 61.2 --6/26/2024 35 4.04 176 138 61.2 7/10/2024 96 6.78 228 179 64.6 7/26/2024 35 3.99 175 137 61.2 23 3.77 170 133 61.2 8/8/2024 8/21/2024 32 3.75 169 133 61.2 22 166 130 61.2 9/6/2024 3.61 --9/19/2024 30 3.73 169 133 61.2 2,789 16 78.9 8/29/2023 8/30/2023 3,588 ----20 20.9 0.62 9/29/2023 1,312 10 76.2 20.9 0.18 10/6/2023 1,429 10 66.0 20.9 10/12/2023 2,450 9 76.0 20.9 0.18 10/19/2023 672 10 70.0 20.9 0.08 10/26/2023 420 10 68.0 20.9 0.08 10/31/2023 348 72.1 20.9 0.02 8 11/16/2023 688 78.9 19.8 0.06 11/28/2023 453 8 62.6 20.2 0.04 12/7/2023 430 8 58.0 19.6 0.02 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 SVE01 151 1/19/2024 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 245 0.04 17 14 32.6 20.9 0.02 3/6/2024 268 40.0 20.7 0.00 --17 0.06 21 3/21/2024 187 38.1 20.9 0.02 17 14 4/9/2024 174 0.04 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 139 0.06 21 17 57.1 20.9 0.05

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8/8/2024

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TABLE 2 SOIL VAPOR EXTRACTION SYSTEM FIELD MEASUREMENTS Sunray B 1B **Hilcorp Energy Company** San Juan County, New Mexico Differential Flow Rate Carbon Dioxide PID **SVE Well ID** Date Flow Rate (acfm) Vacuum (IWC) Oxygen (%) (scfm)⁽¹⁾⁽²⁾ Pressure (IWC) (mag) (%) 18 0.04 8/21/2024 100 0.07 20.9 23 57.1 SVE01 9/6/2024 82 0.07 23 18 57.1 20.9 0.05 9/19/2024 17 20.9 87 0.04 14 57.1 0.06 8/29/2023 416 16 81.6 8/30/2023 1,849 23 20.9 0.62 9/29/2023 403 13 73.4 20.9 0.12 382 22 66.0 20.9 10/6/2023 ----10/12/2023 540 16 72.0 20.9 0.10 10/19/2023 20.9 288 14 70.0 0.08 10/26/2023 95 10 72.0 20.9 0.04 10/31/2023 18 69.4 0.10 215 20.9 11/16/2023 515 15 62.6 19.8 0.02 11/28/2023 93 19 59.8 20.2 0.02 12/7/2023 55 18 56.0 19.6 0.02 107 25 57.1 19.3 0.00 12/13/2023 12/20/2023 24 54.4 44 19.3 0.02 12/28/2023 18 43.5 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 SVE02 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 3/6/2024 105 10.0 20.7 0.04 25 30 0.12 24 27.2 20.9 0.03 3/21/2024 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 0.04 20.8 6/4/2024 59 0.09 26 21 6.8 20.9 0.05 19 0.01 9 7 6.8 20.9 0.03 6/26/2024 7/10/2024 29 0.09 26 21 10.9 20.9 0.08 35 0.09 26 21 20.9 0.07 7/26/2024 43.5 8/8/2024 25 0.08 25 19 43.5 20.9 0.06 20 20.9 8/21/2024 36 0.05 15 43.5 0.06 9/6/2024 28 0.06 21 17 43.5 20.9 0.05 9/19/2024 35 0.06 21 17 43.5 20.9 0.05 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 SVE03 12/28/2023 34 >50 35.4 19.3 0.04 1/19/2024 31 36 35.4 20.9 0.08

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TABLE 2 SOIL VAPOR EXTRACTION SYSTEM FIELD MEASUREMENTS Sunray B 1B Hilcorp Energy Company San Juan County, New Mexico Differential Flow Rate Carbon Dioxide PID SVE Well ID Date Flow Rate (acfm) Vacuum (IWC) Oxygen (%) (scfm)⁽¹⁾⁽²⁾ Pressure (IWC) (ppm) (%) 7/10/2024 0.82 62 0.11 35 20.9 79 42.2 7/26/2024 32 0.69 73 57 40.8 20.9 0.08 8/8/2024 28 72 56 20.9 0.08 0.67 43.5 SVE03 8/21/2024 29 0.66 71 56 40.8 20.9 0.08 26 0.59 67 53 40.8 20.9 0.08 9/6/2024 9/19/2024 32 0.54 64 50 39.4 20.9 0.07

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

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%

Notes:

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GRO: gasoline range hydrocarbons

μg/L: microgram per liter

PID: photoionization detector

ppm: parts per million

TVPH: total volatile petroleum hydrocarbons

%: percen

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

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

Laboratory Analysis

			Laboratory Analysis			
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
Average	346	3	47	4	31	1,514

Vapor Extraction Summary

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	pdated System Startu	р		
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
			Average	0.00082	0.009	0.0013	0.011	0.37

Mass Recovery

Date	Total Operational Hours	Delta Hours	Benzene (pounds)	Toluene (pounds)	Ethylbenzene (pounds)	Total Xylenes (pounds)	TVPH (pounds)	TVPH (tons)
9/29/2023	127			·	Jpdated System Startu	ip		•
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
	Total Ma	ss Recovery to Date	5.89	40	8.1	51	1,791	0.90

Notes:

cf: cubic feet

scfm: standard cubic feet per minute

μg/L: micrograms per liter lb/hr: pounds per hour

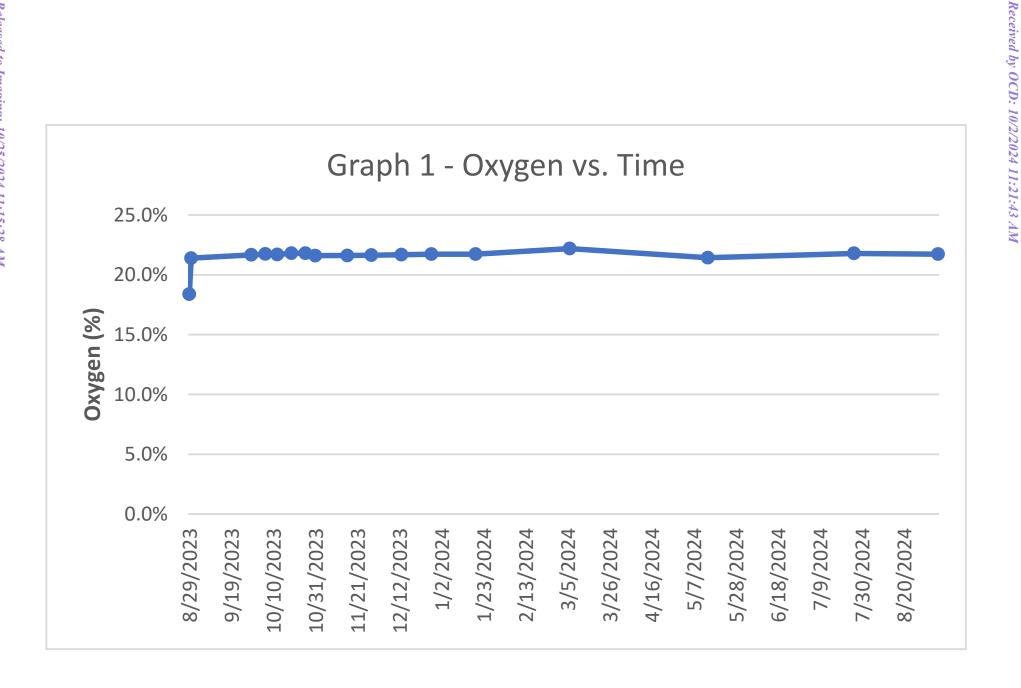
PID: photoionization detector

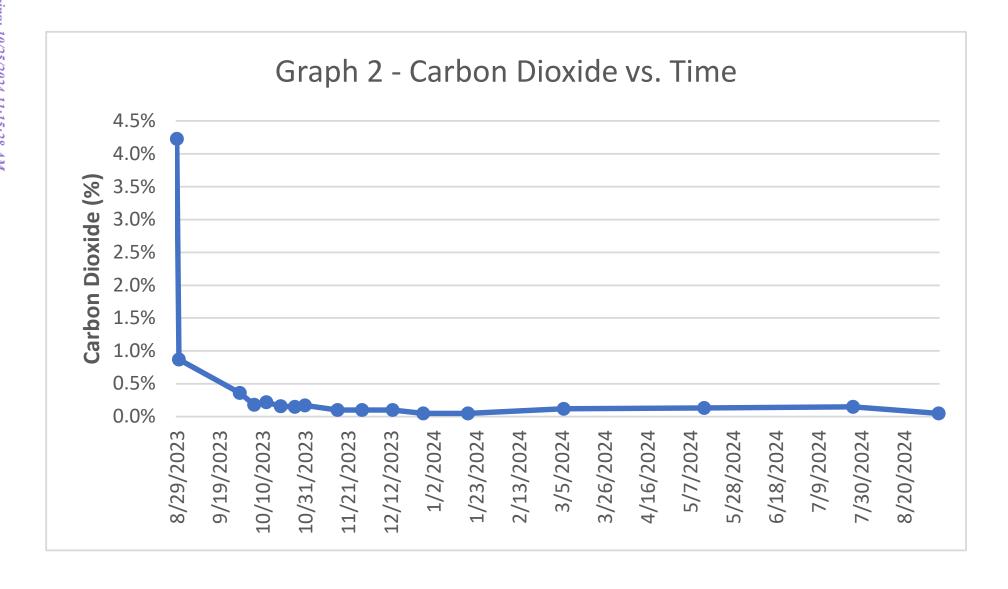
ppm: parts per million

TVPH: total volatile petroleum hydrocarbons

--: not measured

gray: laboratory reporting limit used for calculating emissions







APPENDIX A

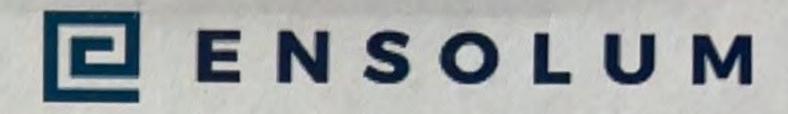
Field Notes

SUNRAY B 1B SVE SYSTEM O&M FORM

TIME ONSITE: O&M PERSONNEL: B Sinclair SVE SYSTEM - MONTHLY O&M SVE ALARMS: KO TANK HIGH LEVEL WEEKLY MAINTENANCE: Blower Bearing Grease

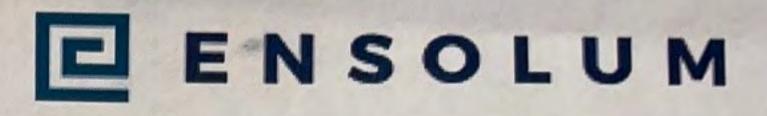
PUARTERLY MAINTENANCE: Blower Oil Change Check/Date SVE SYSTEM READING Blower Hours (take photo) TIME Inlet Vacuum (IHG) Differential Pressure (IWC) Inlet PID Exhaust PID exheast Inlet Temperature K/O Tank Liquid Level K/O Liquid Drained (gallons) **SVE SYSTEM SAMPLING** SAMPLE ID: SAMPLE TIME: Analytes: Sample Bi-Monthly (every other month) for TVPH (8015), BTEX (8260), Fixed Gas (CO2 AND O2) OPERATING WELLS Change in Well Operation: WELLHEAD MEASUREMENTS **WELL ID** VACUUM (IHG) PID HEADSPACE (PPM) DIFF PRESSURE (IN W.C.) OXYGEN (%) CARBON DIOXIDE (%) SVE01 20 , SVE02 SVE03 COMMENTS/OTHER MAINTENANCE: * Ran out of grease

DB	Ton	ck/Tools	-	1	T
1500-	Onsite	for	04M	repairs	
System	n runnin	y upon	arrival		
Fixed	1/2 1/cl	Rota	meter	i, rep	ace
					1
flad +	to sem	ove h	eat w	rap Ins	u lcc
below	unio	it no	000	Tan Co	
					-
Reglace	d all	tubre	y on	pitot +	-
Reglace	d all	tubri	y on	pitot +	-
Reglace	d all	tubri	y on	pitot +	-
Reglace	d all	tubri	y on	pitot +	-



SUNRAY B 1B SVE SYSTEM O&M FORM

WEEKLY MAINTENANCE: Blower Bearing Grease ARTERLY MAINTENANCE: Blower Oil Change SVE SYSTEM Blower Hours (take photo) Inlet Vacuum (HG) Differential Pressure (WC) Sve System Sample ID Schaust PID S			SVE SYSTEM - MO	ONTHLY O&M		
ARTERLY MAINTENANCE: Blower Oil Change SVE SYSTEM READING TIME Blower Hours (take photo) Inlet Vacuum (IHG) Differential Pressure (IWC) Inlet PID Exhaust PID E	SVE ALARMS:		KO TANK HIGH LEVEL			
Blower Hours (take photo) Inlet Vacuum (IHG) Differential Pressure (IWC) Inlet PID SAMPLE Temperature K/O Tank Liquid Level K/O Liquid Drained (gallons) SVE SYSTEM SAMPLING SAMPLE TIME: I O O Analytes: Sample Bi-Monthly (every other month) for TVPH (8015), BTEX (8260), Fixed Gas (CO2 AND O2) OPERATING WELLS Change in Well Operation: WELL ID VACUUM (IHG) PID HEADSPACE (PPM) DIFF PRESSURE (IN W.C.) OXYGEN (%) CARBON DIOXIDE (V.C.) SVE01 SVE02 SVE02 SVE03	WEEKLY MAINTENANCE: B	OWOr Dooning O	Check/Date			
Inlet PID Sthaust PID STAND ST	Blower Hours (take photo) Inlet Vacuum (IHG)	READING 7227.4 4.5	TIME 1130			
SVE SYSTEM SAMPLING SAMPLE ID: SAMPLE TIME: 1200 Analytes: Sample Bi-Monthly (every other month) for TVPH (8015), BTEX (8260), Fixed Gas (CO2 AND O2) OPERATING WELLS Change in Well Operation: WELL HEAD MEASUREMENTS WELL ID VACUUM (IHG) PID HEADSPACE (PPM) DIFF PRESSURE (IN W.C.) OXYGEN (%) CARBON DIOXIDE (%) SVE01 SVE02 SVE03 31.7 0.69 20.9 34.0	Exhaust PID Exhaust PID Inlet PID Exhaust PID K/O Tank Liquid Level	53,1				
WELLHEAD MEASUREMENTS WELL ID VACUUM (IHG) PID HEADSPACE (PPM) DIFF PRESSURE (IN W.C.) OXYGEN (%) CARBON DIOXIDE (%) SVE01 9 540	Analytes:	SVE-I Sample Bi-Monthly (ev	SAMPLE TIME:	1200	(CO2 AND O2)	
WELLHEAD MEASUREMENTS WELL ID VACUUM (IHG) PID HEADSPACE (PPM) DIFF PRESSURE (IN W.C.) OXYGEN (%) CARBON DIOXIDE (%) SVE01 4,1 112.6 0.06 20.9 540 SVE02 3.2 35.3 0.09 20.9 660 SVE03 3,0 31.7 0.69 20.9 20.9 20.9	Change in Well Operation:					0.0
SVE01 4,1 112.6 0.06 20.9 39.0 SVE02 3.2 35.3 0.09 20.9 660 SVE03 3,0 31.7 0.69 20.9 20.9		VACUUM (IHG)	PID HEADSPACE (PPM)	DIFF PRESSURE (IN W.C.)		CARBON DIOXIDE (X)
TO THE MAINTENANCE:		3.2	35.3	0.09	20.9	660
COMMENTS/OTHER MAINTERVITOE	SVE01 SVE02					



SUNRAY B 1B SVE SYSTEM O&M FORM

	3. 7.7
SVE ALARMS: KO TANK HIGH LEVEL	
AINTENANCE: Blower Bearing Grease AINTENANCE: Blower Oil Change	
YSTEM READING TIME	
rs (take photo) 7540.3 1144 t Vacuum (IHG) 4.5 Pressure (IWC) 3.77	
Inlet PID 23,2	
Exhaust PID 48.4 Het Temperature 162.5 ank Liquid Level	
Orained (gallons)	
SVE SYSTEM SAMPLING	
SAMPLE ID: SAMPLE TIME:	2)
Analytes: Sample Bi-Monthly (every other month) for TVPH (8015), BTEX (8260), Fixed Gas (CO2 AND O2 RATING WELLS	
Vell Operation:	
	PP
MEASUREMENTS VACUUM (IHG) PID HEADSPACE (PPM) DIFF PRESSURE (IN W.C.) OXYGEN ((%) CARBON DIOXIDE (%)
	7 750
1501 47 491 20,0	7 360
	720

		SUNRAY B 1B SV O&M FOR			
TIME ONSITE:	8-21		B Sinclair		
SVE ALABASE F		SVE SYSTEM - MON	NTHLY O&M		
SVE ALARMS:[KO TANK HIGH LEVEL			
WEEKLY MAINTENANCE: JARTERLY MAINTENANCE:	Dlawar Day	Check/Date			
SVE SYSTEM Blower Hours (take photo) Inlet Vacuum (IHG) Differential Pressure (IWC)	y c	TIME			
Exhaust PID Exhaust PID Met Temperature K/O Tank Liquid Level	32.Z 99.Z 162.5				
K/O Liquid Drained (gallons)					
SAMPLE ID:		SVE SYSTEM SA SAMPLE TIME:	MPLING		
Analytes:	Sample Bi-Monthly (eve	ery other month) for TVPH (801	5), BTEX (8260), Fixed Gas	(CO2 AND O2)	
OPERATING WELLS					
Change in Well Operation:					
WELLHEAD MEASUREMENT	S	L DID LIEADODACE (DDM) L D	IEE DDECCUDE (IN IN C.)		ppn
WELL ID SVE01	VACUUM (IHG)	PID HEADSPACE (PPM) D	IFF PRESSURE (IN W.C.)	OXYGEN (%)	CARBON DIOXIDE (X)
SVE01	3,2	33.7	0.05	20.9	388
SVE03	3.0	29.2	0.66	20.9	760
COMMENTS/OTHER MAINTE	NANCE:				

SUNRAY B 1B SVE SYSTEM O&M FORM

DATE:	9-6	O&M PERSONN TIME OFFSI	EL: B Sincl	lair	
		SVE SYSTEM	- MONTHLY O&M		
SVE ALARMS:[KO TANK HIGH LEVEL			
WEEKLY MAINTENANCE: E		Check/Date			
Blower Hours (take photo) Inlet Vacuum (IHG) Differential Pressure (IWC) Inlet PID	READING 8204.6 4.5 3.61	TIME 856			
Exhaust PID ext iniet Temperature K/O Tank Liquid Level K/O Liquid Drained (gallons)	130				
		SVE SYSTE	M SAMPLING		
SAMPLE ID: Analytes: S OPERATING WELLS	Sample Bi-Monthly (eve	SAMPLE TIN ry other month) for TVP	IE: 0915 H (8015), BTEX (8260), Fixe	d Gas (CO2 AND O2)	
Change in Well Operation:					
WELLHEAD MEASUREMENTS WELL ID	VACUUM (IHG)	PID HEADSPACE (PP	M) DIFF PRESSURE (IN W	.C.) OXYGEN (%)	CARBON DIOXIDE (%)
SVE01 SVE02 SVE03	3.2	27.6 25.5	0.07	20.9	520 820
· New blow	ver ; nst	elled			

SUNRAY B 1B SVE SYSTEM O&M FORM

DATE: TIME ONSITE:		O&M PERSONNEL TIME OFFSITE		inclair	
		SVE SYSTEM - M	IONTHLY O&M		
SVE ALARMS:		KO TANK HIGH LEVEL			
WEEKLY MAINTENANCE: QUARTERLY MAINTENANCE:	Blower Bearing Grosse	Check/Date			
Blower Hours (take photo) Inlet Vacuum (IHG) Differential Pressure (IWC) Inlet PID Exhaust PID Exhaust PID Volet Temperature K/O Tank Liquid Level K/O Liquid Drained (gallons)	3.73	TIME 1948			
		SVE SYSTEM	SAMPLING		
SAMPLE ID: Analytes: OPERATING WELLS	Sample Bi-Monthly (eve	SAMPLE TIME: ery other month) for TVPH (8015), BTEX (8260), Fix	ed Gas (CO2 AND O2)	
Change in Well Operation:					
WELLHEAD MEASUREMENT					
WELL ID	VACUUM (IHG)	PID HEADSPACE (PPM)	DIFF PRESSURE (IN V	V.C.) OXYGEN (%)	CARBON DIOXIDE (%)
SVE01 SVE02	4.2	87.3	0.04	20.9	560
SVE02 SVE03	7 0	37.6	0.06	20.9	540
COMMENTS/OTHER MAINTEI			0.59	20.9	720



APPENDIX B

Project Photographs

PROJECT PHOTOGRAPHS

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

Photograph 1

Runtime meter taken on March 21, 2024 at 2:00 PM Hours = 6,514.1



Photograph 2

Runtime meter taken on September 19, 2024 at 10:48 AM Hours = 8,519.0





APPENDIX C

Laboratory Analytical Reports

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 8/13/2024 10:50:48 AM

JOB DESCRIPTION

Sunray B 1B

JOB NUMBER

885-8823-1

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

Generated 8/13/2024 10:50:48 AM

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

Page 2 of 25 8/13/2024

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Laboratory Job ID: 885-8823-1

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

Table of Contents

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Client Sample Results	6
QC Sample Results	8
QC Association Summary	14
Lab Chronicle	15
Certification Summary	16
Subcontract Data	19
Chain of Custody	24
Receint Checklists	25

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Definitions/Glossary

Job ID: 885-8823-1 Client: Hilcorp Energy Project/Site: Sunray B 1B

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.						
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis						
%R	Percent Recovery						
CFL	Contains Free Liquid						
CFU	Colony Forming Unit						
CNF	Contains No Free Liquid						
DER	Duplicate Error Ratio (normalized absolute difference)						
Dil Fac	Dilution Factor						
DL	Detection Limit (DoD/DOE)						

Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample DL, RA, RE, IN DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin) LOD Limit of Detection (DoD/DOE) LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level" MDA Minimum Detectable Activity (Radiochemistry) MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit ML Minimum Level (Dioxin) Most Probable Number MPN MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent POS Positive / Present

PQL **Practical Quantitation Limit**

PRES Presumptive QC **Quality Control**

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

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

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

TNTC Too Numerous To Count

Eurofins Albuquerque

Case Narrative

Client: Hilcorp Energy Job ID: 885-8823-1 Project: Sunray B 1B

Job ID: 885-8823-1 Eurofins Albuquerque

Job Narrative 885-8823-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these
 situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise
 specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The sample was received on 7/30/2024 7:15 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.7°C.

Subcontract Work

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

Gasoline Range Organics

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

GC/MS VOA

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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Client: Hilcorp Energy Job ID: 885-8823-1

Project/Site: Sunray B 1B

Chlorobenzene

Released to Imaging: 10/25/2024 11:15:28 AM

Chloroethane

Chloroform

Client Sample ID: SVE-1 Lab Sample ID: 885-8823-1

Date Collected: 07/26/24 12:00 Matrix: Air

Date Received: 07/30/24 07:15
Sample Container: Tedlar Bag 1L

Method: SW846 8015M/D - Non	Method: SW846 8015M/D - Nonhalogenated Organics using GC/MS -Modified (Gasoline Range Organics)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac		
Gasoline Range Organics [C6 - C10]	180		10	ug/L			08/05/24 14:05	2		

Method: SW846 8260B - Volati	le Organic Co	ompounds (GC/MS))				
Analyte	Result Q	ualifier RL	Unit	D	Prepared	Analyzed	Dil Fa
1,1,1,2-Tetrachloroethane	ND	0.20	ug/L			08/05/24 14:05	

, , ,	• • • •	*			_
1,1,1-Trichloroethane	ND	0.20	ug/L	08/05/24 14:05	2
1,1,2,2-Tetrachloroethane	ND	0.40	ug/L	08/05/24 14:05	2
1,1,2-Trichloroethane	ND	0.20	ug/L	08/05/24 14:05	2
1,1-Dichloroethane	ND	0.20	ug/L	08/05/24 14:05	2
1,1-Dichloroethene	ND	0.20	ug/L	08/05/24 14:05	2
1,1-Dichloropropene	ND	0.20	ug/L	08/05/24 14:05	2
1,2,3-Trichlorobenzene	ND	0.20	ug/L	08/05/24 14:05	2
1,2,3-Trichloropropane	ND	0.40	ug/L	08/05/24 14:05	2
1,2,4-Trichlorobenzene	ND	0.20	ug/L	08/05/24 14:05	2
1,2,4-Trimethylbenzene	0.34	0.20	ug/L	08/05/24 14:05	2
1,2-Dibromo-3-Chloropropane	ND	0.40	ug/L	08/05/24 14:05	2
1,2-Dibromoethane (EDB)	ND	0.20	ug/L	08/05/24 14:05	2
1,2-Dichlorobenzene	ND	0.20	ug/L	08/05/24 14:05	2
1,2-Dichloroethane (EDC)	ND	0.20	ug/L	08/05/24 14:05	2
1,2-Dichloropropane	ND	0.20	ug/L	08/05/24 14:05	2
1,3,5-Trimethylbenzene	0.43	0.20	ug/L	08/05/24 14:05	2
1,3-Dichlorobenzene	ND	0.20	ug/L	08/05/24 14:05	2
1,3-Dichloropropane	ND	0.20	ug/L	08/05/24 14:05	2
1,4-Dichlorobenzene	ND	0.20	ug/L	08/05/24 14:05	2
1-Methylnaphthalene	ND	0.80	ug/L	08/05/24 14:05	2
2,2-Dichloropropane	ND	0.40	ug/L	08/05/24 14:05	2
2-Butanone	ND	2.0	ug/L	08/05/24 14:05	2
2-Chlorotoluene	ND	0.20	ug/L	08/05/24 14:05	2
2-Hexanone	ND	2.0	ug/L	08/05/24 14:05	2
2-Methylnaphthalene	ND	0.80	ug/L	08/05/24 14:05	2
4-Chlorotoluene	ND	0.20	ug/L	08/05/24 14:05	2
4-Isopropyltoluene	ND	0.20	ug/L	08/05/24 14:05	2
4-Methyl-2-pentanone	ND	2.0	ug/L	08/05/24 14:05	2
Acetone	ND	2.0	ug/L	08/05/24 14:05	2
Benzene	ND	0.20	ug/L	08/05/24 14:05	2
Bromobenzene	ND	0.20	ug/L	08/05/24 14:05	2
Bromodichloromethane	ND	0.20	ug/L	08/05/24 14:05	2
Dibromochloromethane	ND	0.20	ug/L	08/05/24 14:05	2
Bromoform	ND	0.20	ug/L	08/05/24 14:05	2
Bromomethane	ND	0.60	ug/L	08/05/24 14:05	2
Carbon disulfide	ND	2.0	ug/L	08/05/24 14:05	2
Carbon tetrachloride	ND	0.20	ug/L	08/05/24 14:05	2
				00/05/04 44 05	_

Eurofins Albuquerque

08/05/24 14:05

08/05/24 14:05

08/05/24 14:05

0.20

0.40

0.20

ug/L

ug/L

ug/L

ND

ND

ND

2

2

2

2

3

4

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10

4.0

Job ID: 885-8823-1

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

1,2-Dichloroethane-d4 (Surr)

4-Bromofluorobenzene (Surr)

Dibromofluoromethane (Surr)

Toluene-d8 (Surr)

Client Sample ID: SVE-1

Lab Sample ID: 885-8823-1

Matrix: Air

Date Collected: 07/26/24 12:00 Date Received: 07/30/24 07:15 Sample Container: Tedlar Bag 1L

C: AIr

Method: SW846 8260B - Vola Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND	0.60	ug/L			08/05/24 14:05	2
cis-1,2-Dichloroethene	ND	0.20	ug/L			08/05/24 14:05	2
cis-1,3-Dichloropropene	ND	0.20	ug/L			08/05/24 14:05	2
Dibromomethane	ND	0.20	ug/L			08/05/24 14:05	2
Dichlorodifluoromethane	ND	0.20	ug/L			08/05/24 14:05	2
Ethylbenzene	0.28	0.20	ug/L			08/05/24 14:05	2
Hexachlorobutadiene	ND	0.20	ug/L			08/05/24 14:05	2
Isopropylbenzene	ND	0.20	ug/L			08/05/24 14:05	2
Methyl-tert-butyl Ether (MTBE)	ND	0.20	ug/L			08/05/24 14:05	2
Methylene Chloride	ND	0.60	ug/L			08/05/24 14:05	2
n-Butylbenzene	ND	0.60	ug/L			08/05/24 14:05	2
N-Propylbenzene	ND	0.20	ug/L			08/05/24 14:05	2
Naphthalene	ND	0.40	ug/L			08/05/24 14:05	2
sec-Butylbenzene	ND	0.20	ug/L			08/05/24 14:05	2
Styrene	ND	0.20	ug/L			08/05/24 14:05	2
tert-Butylbenzene	ND	0.20	ug/L			08/05/24 14:05	2
Tetrachloroethene (PCE)	ND	0.20	ug/L			08/05/24 14:05	2
Toluene	2.4	0.20	ug/L			08/05/24 14:05	2
trans-1,2-Dichloroethene	ND	0.20	ug/L			08/05/24 14:05	2
trans-1,3-Dichloropropene	ND	0.20	ug/L			08/05/24 14:05	2
Trichloroethene (TCE)	ND	0.20	ug/L			08/05/24 14:05	2
Trichlorofluoromethane	ND	0.20	ug/L			08/05/24 14:05	2
Vinyl chloride	ND	0.20	ug/L			08/05/24 14:05	2
Xylenes, Total	4.1	0.30	ug/L			08/05/24 14:05	2
Surrogate	%Recovery Qualifier	Limits			Prepared	Analyzed	Dil Fac

70 - 130

70 - 130

70 - 130

70 - 130

101

107

106

103

08/05/24 14:05

08/05/24 14:05

08/05/24 14:05

08/05/24 14:05

2

2

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Type: Total/NA

QC Sample Results

Client: Hilcorp Energy Job ID: 885-8823-1

Project/Site: Sunray B 1B

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

Lab Sample ID: MB 885-9786/4 **Matrix: Air**

Analysis Batch: 9786

7 mary or 2 decom or co	МВ	МВ						
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0	ug/L		<u> </u>	08/05/24 13:40	1
	МВ	MB						

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 91 52 - 172 08/05/24 13:40 4-Bromofluorobenzene (Surr)

Lab Sample ID: LCS 885-9786/3

Matrix: Air

Analysis Batch: 9786

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics [C6 -	500	534		ug/L		107	70 - 130	

C10]

LCS LCS

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

Lab Sample ID: 885-8823-1 DU

Matrix: Air

Analysis Batch: 9786

•	Sample	Sample	DU	DU					RPD
Analyte	Result	Qualifier	Result	Qualifier	Unit	D	RPI)	Limit
Gasoline Range Organics [C6 -	180		175		ug/L			4	20

C10]

DU DU

Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 98 52 - 172

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

MR MR

Released to Imaging: 10/25/2024 11:15:28 AM

Analysis Batch: 9723

Lab Sample ID: MB 885-9723/31	Client Sample ID: Method Blank
Matrix: Air	Prep Type: Total/NA

	IVID IVID						
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND —	0.10	ug/L			08/05/24 13:40	1
1,1,1-Trichloroethane	ND	0.10	ug/L			08/05/24 13:40	1
1,1,2,2-Tetrachloroethane	ND	0.20	ug/L			08/05/24 13:40	1
1,1,2-Trichloroethane	ND	0.10	ug/L			08/05/24 13:40	1
1,1-Dichloroethane	ND	0.10	ug/L			08/05/24 13:40	1
1,1-Dichloroethene	ND	0.10	ug/L			08/05/24 13:40	1
1,1-Dichloropropene	ND	0.10	ug/L			08/05/24 13:40	1
1,2,3-Trichlorobenzene	ND	0.10	ug/L			08/05/24 13:40	1
1,2,3-Trichloropropane	ND	0.20	ug/L			08/05/24 13:40	1
1,2,4-Trichlorobenzene	ND	0.10	ug/L			08/05/24 13:40	1
1,2,4-Trimethylbenzene	ND	0.10	ug/L			08/05/24 13:40	1
1,2-Dibromo-3-Chloropropane	ND	0.20	ug/L			08/05/24 13:40	1
1,2-Dibromoethane (EDB)	ND	0.10	ug/L			08/05/24 13:40	1
1,2-Dichlorobenzene	ND	0.10	ug/L			08/05/24 13:40	1

Eurofins Albuquerque

Client Sample ID: SVE-1

Prep Type: Total/NA

Dil Fac

QC Sample Results

Client: Hilcorp Energy Job ID: 885-8823-1

RL

Unit

Project/Site: Sunray B 1B

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

MB MB

Result Qualifier

Lab Sample ID: MB 885-9723/31

Matrix: Air

Analyte

Toluene

trans-1,2-Dichloroethene

trans-1,3-Dichloropropene

Released to Imaging: 10/25/2024 11:15:28 AM

Trichloroethene (TCE)

Trichlorofluoromethane

Analysis Batch: 9723

Client Sample ID: Method Blank

Prepared

Prep Type: Total/NA

Analyzed

Allalyte	Result Qualifier	NL	Ollit	D Flepaleu	Allalyzeu	DII Fac
1,2-Dichloroethane (EDC)	ND -	0.10	ug/L		08/05/24 13:40	1
1,2-Dichloropropane	ND	0.10	ug/L		08/05/24 13:40	1
1,3,5-Trimethylbenzene	ND	0.10	ug/L		08/05/24 13:40	1
1,3-Dichlorobenzene	ND	0.10	ug/L		08/05/24 13:40	1
1,3-Dichloropropane	ND	0.10	ug/L		08/05/24 13:40	1
1,4-Dichlorobenzene	ND	0.10	ug/L		08/05/24 13:40	1
1-Methylnaphthalene	ND	0.40	ug/L		08/05/24 13:40	1
2,2-Dichloropropane	ND	0.20	ug/L		08/05/24 13:40	1
2-Butanone	ND	1.0	ug/L		08/05/24 13:40	1
2-Chlorotoluene	ND	0.10	ug/L		08/05/24 13:40	1
2-Hexanone	ND	1.0	ug/L		08/05/24 13:40	1
2-Methylnaphthalene	ND	0.40	ug/L		08/05/24 13:40	1
4-Chlorotoluene	ND	0.10	ug/L		08/05/24 13:40	1
4-Isopropyltoluene	ND	0.10	ug/L		08/05/24 13:40	1
4-Methyl-2-pentanone	ND	1.0	ug/L		08/05/24 13:40	1
Acetone	ND	1.0	ug/L		08/05/24 13:40	1
Benzene	ND	0.10	ug/L		08/05/24 13:40	1
Bromobenzene	ND	0.10	ug/L		08/05/24 13:40	1
Bromodichloromethane	ND	0.10	ug/L		08/05/24 13:40	1
Dibromochloromethane	ND	0.10	ug/L		08/05/24 13:40	1
Bromoform	ND	0.10	ug/L		08/05/24 13:40	1
Bromomethane	ND	0.30	ug/L		08/05/24 13:40	1
Carbon disulfide	ND	1.0	ug/L		08/05/24 13:40	1
Carbon tetrachloride	ND	0.10	ug/L		08/05/24 13:40	1
Chlorobenzene	ND	0.10	ug/L		08/05/24 13:40	1
Chloroethane	ND	0.20	ug/L		08/05/24 13:40	1
Chloroform	ND	0.10	ug/L		08/05/24 13:40	1
Chloromethane	ND	0.30	ug/L		08/05/24 13:40	1
cis-1,2-Dichloroethene	ND	0.10	ug/L		08/05/24 13:40	1
cis-1,3-Dichloropropene	ND	0.10	ug/L		08/05/24 13:40	1
Dibromomethane	ND	0.10	ug/L		08/05/24 13:40	1
Dichlorodifluoromethane	ND	0.10	ug/L		08/05/24 13:40	1
Ethylbenzene	ND	0.10	ug/L		08/05/24 13:40	1
Hexachlorobutadiene	ND	0.10	ug/L		08/05/24 13:40	1
Isopropylbenzene	ND	0.10	ug/L		08/05/24 13:40	1
Methyl-tert-butyl Ether (MTBE)	ND	0.10	ug/L		08/05/24 13:40	1
Methylene Chloride	ND	0.30	ug/L		08/05/24 13:40	1
n-Butylbenzene	ND	0.30	ug/L		08/05/24 13:40	1
N-Propylbenzene	ND	0.10	ug/L		08/05/24 13:40	1
Naphthalene	ND	0.20	ug/L		08/05/24 13:40	1
sec-Butylbenzene	ND	0.10	ug/L		08/05/24 13:40	1
Styrene	ND	0.10	ug/L		08/05/24 13:40	1
tert-Butylbenzene	ND	0.10	ug/L		08/05/24 13:40	1
Tetrachloroethene (PCE)	ND	0.10	ug/L		08/05/24 13:40	1

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08/05/24 13:40

08/05/24 13:40

08/05/24 13:40

08/05/24 13:40 08/05/24 13:40

0.10

0.10

0.10

0.10

0.10

ug/L

ug/L

ug/L

ug/L

ug/L

ND

ND

ND

ND

ND

Client: Hilcorp Energy Job ID: 885-8823-1
Project/Site: Sunray B 1B

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

ND

Lab Sample ID: MB 885-9723/31

Matrix: Air

Analyte

Vinyl chloride

Xylenes, Total

Analysis Batch: 9723

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

ug/L

MB MB Surrogate %Recovery Qualifier Limits Prepared Dil Fac Analyzed 1,2-Dichloroethane-d4 (Surr) 106 70 - 130 08/05/24 13:40 08/05/24 13:40 Toluene-d8 (Surr) 96 70 - 130 97 4-Bromofluorobenzene (Surr) 70 - 130 08/05/24 13:40 Dibromofluoromethane (Surr) 108 70 - 130 08/05/24 13:40

0.15

Lab Sample ID: MB 885-9723/8

Matrix: Air

Analysis Batch: 9723

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

08/05/24 13:40

MB MB Qualifier Dil Fac **Analyte** Result RL Unit D Prepared Analyzed $\overline{\mathsf{ND}}$ 1.0 08/05/24 13:40 1,1,1,2-Tetrachloroethane ug/L 08/05/24 13:40 1,1,1-Trichloroethane ND 1.0 ug/L 1,1,2,2-Tetrachloroethane ND 2.0 ug/L 08/05/24 13:40 ug/L 1.1.2-Trichloroethane ND 08/05/24 13:40 1.0 1,1-Dichloroethane ND 1.0 ug/L 08/05/24 13:40 ND 1.0 ug/L 1.1-Dichloroethene 08/05/24 13:40 ND 1.0 08/05/24 13:40 1,1-Dichloropropene ug/L ND 1,2,3-Trichlorobenzene 1.0 ug/L 08/05/24 13:40 1,2,3-Trichloropropane ND 2.0 ug/L 08/05/24 13:40 1,2,4-Trichlorobenzene ND 08/05/24 13:40 1.0 ug/L 1,2,4-Trimethylbenzene ND 1.0 ug/L 08/05/24 13:40 1,2-Dibromo-3-Chloropropane ND 2.0 ug/L 08/05/24 13:40 ND 1,2-Dibromoethane (EDB) 1.0 ug/L 08/05/24 13:40 1,2-Dichlorobenzene ND 1.0 ug/L 08/05/24 13:40 ND 1,2-Dichloroethane (EDC) 1.0 ug/L 08/05/24 13:40 1,2-Dichloropropane ND 1.0 ug/L 08/05/24 13:40 ND ug/L 1,3,5-Trimethylbenzene 1.0 08/05/24 13:40 ND ug/L 08/05/24 13:40 1,3-Dichlorobenzene 1.0 ND 1.3-Dichloropropane 10 ug/L 08/05/24 13:40 1,4-Dichlorobenzene ND 1.0 ug/L 08/05/24 13:40 ND ug/L 08/05/24 13:40 1-Methylnaphthalene 40 2,2-Dichloropropane ND 2.0 ug/L 08/05/24 13:40 ug/L 2-Butanone ND 10 08/05/24 13:40 ND ug/L 2-Chlorotoluene 1.0 08/05/24 13:40 2-Hexanone ND 10 ug/L 08/05/24 13:40 2-Methylnaphthalene ND 4.0 ug/L 08/05/24 13:40 4-Chlorotoluene ND 1.0 ug/L 08/05/24 13:40 ND 4-Isopropyltoluene 1.0 ug/L 08/05/24 13:40 4-Methyl-2-pentanone ND 10 ug/L 08/05/24 13:40 Acetone ND 10 ug/L 08/05/24 13:40 Benzene ND 1.0 ug/L 08/05/24 13:40 Bromobenzene ND 1.0 ug/L 08/05/24 13:40 Bromodichloromethane ND 1.0 ug/L 08/05/24 13:40 Dibromochloromethane ND 1.0 ug/L 08/05/24 13:40

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Released to Imaging: 10/25/2024 11:15:28 AM

Client: Hilcorp Energy Job ID: 885-8823-1

Project/Site: Sunray B 1B

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

Lab Sample ID: MB 885-9723/8 **Matrix: Air**

Analysis Batch: 9723

Client Sample ID: Method Blank

Prep Type: Total/NA

MB MB Analyte Result Qualifier RL Unit Prepared Analyzed Dil Fac Bromoform ND 10 ug/L 08/05/24 13:40 Bromomethane ND 3.0 ug/L 08/05/24 13:40 Carbon disulfide ND 10 08/05/24 13:40 ug/L Carbon tetrachloride ND 1.0 ug/L 08/05/24 13:40 Chlorobenzene ND 1.0 ug/L 08/05/24 13:40 2.0 Chloroethane ND ug/L 08/05/24 13:40 Chloroform ND 1.0 ug/L 08/05/24 13:40 ug/L Chloromethane ND 3.0 08/05/24 13:40 08/05/24 13:40 cis-1,2-Dichloroethene ND 1.0 ug/L cis-1,3-Dichloropropene ND 1.0 ug/L 08/05/24 13:40 Dibromomethane ug/L ND 1.0 08/05/24 13:40 Dichlorodifluoromethane ND 1.0 ug/L 08/05/24 13:40 Ethylbenzene ND ug/L 08/05/24 13:40 1.0 ND ug/L Hexachlorobutadiene 1.0 08/05/24 13:40 1 Isopropylbenzene ND 1.0 ug/L 08/05/24 13:40 ND ug/L Methyl-tert-butyl Ether (MTBE) 1.0 08/05/24 13:40 ug/L Methylene Chloride ND 3.0 08/05/24 13:40 n-Butylbenzene ND 3.0 ug/L 08/05/24 13:40 N-Propylbenzene ND 1.0 ug/L 08/05/24 13:40 Naphthalene ND 2.0 ug/L 08/05/24 13:40 sec-Butylbenzene ND 1.0 ug/L 08/05/24 13:40 Styrene ND 1.0 ug/L 08/05/24 13:40 tert-Butylbenzene ND 1.0 ug/L 08/05/24 13:40 Tetrachloroethene (PCE) ND 1.0 ug/L 08/05/24 13:40 ND ug/L Toluene 1.0 08/05/24 13:40 trans-1,2-Dichloroethene ND 1.0 ug/L 08/05/24 13:40 trans-1,3-Dichloropropene ND 1.0 ug/L 08/05/24 13:40 Trichloroethene (TCE) ND 1.0 ug/L 08/05/24 13:40

мв мв

ND

ND

ND

Surrogate	%Recovery Q	Qualifier	Limits	Prepared	Analyzed	Dil Fac	
1,2-Dichloroethane-d4 (Surr)	106		70 - 130		08/05/24 13:40	1	
Toluene-d8 (Surr)	96		70 - 130		08/05/24 13:40	1	
4-Bromofluorobenzene (Surr)	97		70 - 130		08/05/24 13:40	1	
Dibromofluoromethane (Surr)	108		70 - 130		08/05/24 13:40	1	

1.0

1.0

1.5

ug/L

ug/L

ug/L

Lab Sample ID: LCS 885-9723/4

Matrix: Air

Analysis Batch: 9723

Trichlorofluoromethane

Vinyl chloride

Xylenes, Total

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

08/05/24 13:40

08/05/24 13:40

08/05/24 13:40

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,1-Dichloroethene	20.1	21.4		ug/L		106	70 - 130	
Benzene	20.1	23.0		ug/L		115	70 - 130	
Chlorobenzene	20.1	21.2		ug/L		105	70 - 130	
Toluene	20.2	20.8		ug/L		103	70 - 130	
Trichloroethene (TCE)	20.2	22.2		ug/L		110	70 - 130	

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Client: Hilcorp Energy Job ID: 885-8823-1

Limits

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

Lab Sample ID: LCS 885-9723/4

Matrix: Air

Analysis Batch: 9723

Project/Site: Sunray B 1B

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

LCS LCS %Recovery Qualifier Surrogate 1,2-Dichloroethane-d4 (Surr) 106

70 - 130 Toluene-d8 (Surr) 96 70 - 130 98 70 - 130 4-Bromofluorobenzene (Surr) Dibromofluoromethane (Surr) 108 70 - 130

Client Sample ID: SVE-1 Lab Sample ID: 885-8823-1 DU **Matrix: Air**

Analysis Batch: 9723

Released to Imaging: 10/25/2024 11:15:28 AM

Prep Type: Total/NA

Sample Sample DU DU **RPD** Result Qualifier Result Qualifier Unit **RPD** Limit Analyte 1.1.1.2-Tetrachloroethane ND ND NC 20 ug/L 1,1,1-Trichloroethane ND ND ug/L NC 20 1,1,2,2-Tetrachloroethane ND ND ug/L NC 20 ND ND NC 1,1,2-Trichloroethane ug/L 20 1,1-Dichloroethane ND ND ug/L NC 20 1,1-Dichloroethene ND ND ug/L NC 20 ND 1,1-Dichloropropene ND ug/L NC 20 NΩ ND ug/L NC 20 1,2,3-Trichlorobenzene 1,2,3-Trichloropropane ND ND ug/L NC 20 ND ND ug/L NC 20 1,2,4-Trichlorobenzene 1,2,4-Trimethylbenzene 0.34 0.340 20 ug/L 1 ug/L ND ND NC 20 1,2-Dibromo-3-Chloropropane 1,2-Dibromoethane (EDB) ND ND ug/L NC 20 1,2-Dichlorobenzene ND ND NC 20 ug/L ND ND NC 1,2-Dichloroethane (EDC) ug/L 20 1,2-Dichloropropane ND ND ug/L NC 20 0.414 1,3,5-Trimethylbenzene 0.43 ug/L 3 20 ND ND ug/L NC 20 1,3-Dichlorobenzene ND ND NC 1,3-Dichloropropane ug/L 20 1,4-Dichlorobenzene ND ND ug/L NC 20 ND NC 1-Methylnaphthalene ND ug/L 20 2,2-Dichloropropane ND ND ug/L NC 20 ug/L ND ND 2-Butanone NC. 20 2-Chlorotoluene ND ND ug/L NC 20 ug/L ND ND NC 20 2-Hexanone 2-Methylnaphthalene ND ND ug/L NC 20 4-Chlorotoluene ND ND ug/L NC 20 ND ND ug/L NC 4-Isopropyltoluene 20 4-Methyl-2-pentanone ND ND ug/L NC 20 ug/L Acetone ND ND NC 20 Benzene ND ND ug/L NC 20 ND ND NC 20 Bromobenzene ug/L Bromodichloromethane ND ND ug/L NC 20 Dibromochloromethane ND ND ug/L NC 20 Bromoform ND ND ug/L NC 20 ND NC Bromomethane ND ug/L 20 Carbon disulfide ND ND ug/L NC 20 Carbon tetrachloride ND ND ug/L NC 20

Client: Hilcorp Energy Job ID: 885-8823-1 Project/Site: Sunray B 1B

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

Lab Sample ID: 885-8823-1 DU

Matrix: Air

Analysis Batch: 9723

Client Sample ID: SVE-1

Prep Type: Total/NA

-	Sample	Sample	DU	DU				RPD
Analyte	Result	Qualifier	Result	Qualifier	Unit	D	RPD	Limit
Chlorobenzene	ND		ND		ug/L		NC	20
Chloroethane	ND		ND		ug/L		NC	20
Chloroform	ND		ND		ug/L		NC	20
Chloromethane	ND		ND		ug/L		NC	20
cis-1,2-Dichloroethene	ND		ND		ug/L		NC	20
cis-1,3-Dichloropropene	ND		ND		ug/L		NC	20
Dibromomethane	ND		ND		ug/L		NC	20
Dichlorodifluoromethane	ND		ND		ug/L		NC	20
Ethylbenzene	0.28		0.265		ug/L		7	20
Hexachlorobutadiene	ND		ND		ug/L		NC	20
Isopropylbenzene	ND		ND		ug/L		NC	20
Methyl-tert-butyl Ether (MTBE)	ND		ND		ug/L		NC	20
Methylene Chloride	ND		ND		ug/L		NC	20
n-Butylbenzene	ND		ND		ug/L		NC	20
N-Propylbenzene	ND		ND		ug/L		NC	20
Naphthalene	ND		ND		ug/L		NC	20
sec-Butylbenzene	ND		ND		ug/L		NC	20
Styrene	ND		ND		ug/L		NC	20
tert-Butylbenzene	ND		ND		ug/L		NC	20
Tetrachloroethene (PCE)	ND		ND		ug/L		NC	20
Toluene	2.4		2.36		ug/L		4	20
trans-1,2-Dichloroethene	ND		ND		ug/L		NC	20
trans-1,3-Dichloropropene	ND		ND		ug/L		NC	20
Trichloroethene (TCE)	ND		ND		ug/L		NC	20
Trichlorofluoromethane	ND		ND		ug/L		NC	20
Vinyl chloride	ND		ND		ug/L		NC	20
Xylenes, Total	4.1		3.91		ug/L		4	20

DU DU

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	101		70 - 130
Toluene-d8 (Surr)	107		70 - 130
4-Bromofluorobenzene (Surr)	106		70 - 130
Dibromofluoromethane (Surr)	106		70 - 130

Released to Imaging: 10/25/2024 11:15:28 AM

QC Association Summary

Client: Hilcorp Energy

Job ID: 885-8823-1

Project/Site: Sunray B 1B

GC/MS VOA

Analysis Batch: 9723

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-8823-1	SVE-1	Total/NA	Air	8260B	
MB 885-9723/31	Method Blank	Total/NA	Air	8260B	
MB 885-9723/8	Method Blank	Total/NA	Air	8260B	
LCS 885-9723/4	Lab Control Sample	Total/NA	Air	8260B	
885-8823-1 DU	SVE-1	Total/NA	Air	8260B	

Analysis Batch: 9786

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-8823-1	SVE-1	Total/NA	Air	8015M/D	
MB 885-9786/4	Method Blank	Total/NA	Air	8015M/D	
LCS 885-9786/3	Lab Control Sample	Total/NA	Air	8015M/D	
885-8823-1 DU	SVE-1	Total/NA	Air	8015M/D	

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Lab Chronicle

Client: Hilcorp Energy Job ID: 885-8823-1

Project/Site: Sunray B 1B

Client Sample ID: SVE-1 Lab Sample ID: 885-8823-1

Date Collected: 07/26/24 12:00 Matrix: Air Date Received: 07/30/24 07:15

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8015M/D		2	9786	CM	EET ALB	08/05/24 14:05
Total/NA	Analysis	8260B		2	9723	CM	EET ALB	08/05/24 14:05

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

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Client: Hilcorp Energy Job ID: 885-8823-1

Project/Site: Sunray B 1B

Laboratory: Eurofins Albuquerque

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

Authority	Progr	am	Identification Number	Expiration Date
New Mexico	State		NM9425, NM0901	02-26-25
The fall accidents are all the				:to . This list was
	s are included in this repo does not offer certificatior		not certified by the governing author	ity. This list may include analytes
Analysis Method	Prep Method	Matrix	Analyte	
8015M/D		Air	Gasoline Range Organic	s [C6 - C10]
8260B		Air	1,1,1,2-Tetrachloroethan	e
8260B		Air	1,1,1-Trichloroethane	
8260B		Air	1,1,2,2-Tetrachloroethan	e
8260B		Air	1,1,2-Trichloroethane	
8260B		Air	1,1-Dichloroethane	
8260B		Air	1,1-Dichloroethene	
8260B		Air	1,1-Dichloropropene	
8260B		Air	1,2,3-Trichlorobenzene	
8260B		Air	1,2,3-Trichloropropane	
8260B		Air	1,2,4-Trichlorobenzene	
8260B		Air	1,2,4-Trimethylbenzene	
8260B		Air	1,2-Dibromo-3-Chloropro	ppane
8260B		Air	1,2-Dibromoethane (EDE	3)
8260B		Air	1,2-Dichlorobenzene	
8260B		Air	1,2-Dichloroethane (EDC	C)
8260B		Air	1,2-Dichloropropane	
8260B		Air	1,3,5-Trimethylbenzene	
8260B		Air	1,3-Dichlorobenzene	
8260B		Air	1,3-Dichloropropane	
8260B		Air	1,4-Dichlorobenzene	
8260B		Air	1-Methylnaphthalene	
8260B		Air	2,2-Dichloropropane	
8260B		Air	2-Butanone	
8260B		Air	2-Chlorotoluene	
8260B		Air	2-Hexanone	
8260B		Air	2-Methylnaphthalene	
8260B		Air	4-Chlorotoluene	
8260B		Air	4-Isopropyltoluene	
8260B		Air	4-Methyl-2-pentanone	
8260B		Air	Acetone	
8260B		Air	Benzene	
8260B		Air	Bromobenzene	
8260B		Air	Bromodichloromethane	
8260B		Air	Bromoform	
8260B		Air	Bromomethane	
8260B		Air	Carbon disulfide	
8260B		Air	Carbon tetrachloride	
8260B		Air	Chlorobenzene	
8260B		Air	Chloroethane	
8260B		Air	Chloroform	
8260B		Air	Chloromethane	
8260B		Air	cis-1,2-Dichloroethene	
8260B		Air	cis-1,3-Dichloropropene	
8260B		Air	Dibromochloromethane	

Client: Hilcorp Energy Job ID: 885-8823-1

Project/Site: Sunray B 1B

Laboratory: Eurofins Albuquerque (Continued)

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

Authority	Progra	am	Identification Number Expiration Date
,	•	•	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
8260B		Air	Dibromomethane
8260B		Air	Dichlorodifluoromethane
8260B		Air	Ethylbenzene
8260B		Air	Hexachlorobutadiene
8260B		Air	Isopropylbenzene
8260B		Air	Methylene Chloride
8260B		Air	Methyl-tert-butyl Ether (MTBE)
8260B		Air	Naphthalene
8260B		Air	n-Butylbenzene
8260B		Air	N-Propylbenzene
8260B		Air	sec-Butylbenzene
8260B		Air	Styrene
8260B		Air	tert-Butylbenzene
8260B		Air	Tetrachloroethene (PCE)
8260B		Air	Toluene
8260B		Air	trans-1,2-Dichloroethene
8260B		Air	trans-1,3-Dichloropropene
8260B		Air	Trichloroethene (TCE)
8260B		Air	Trichlorofluoromethane
8260B		Air	Vinyl chloride
8260B		Air	Xylenes, Total
Oregon	NELAF	•	NM100001 02-26-25

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

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

Eurofins Albuquerque

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Client: Hilcorp Energy Job ID: 885-8823-1

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
The following analyte:	s are included in this repo	rt. but the laboratory is i	not certified by the governing authority. This list may include anal
	does not offer certification	•	, 3 3 , , ,
Analysis Method	Prep Method	Matrix	Analyte
8260B		Air	1-Methylnaphthalene
8260B		Air	2,2-Dichloropropane
8260B		Air	2-Butanone
8260B		Air	2-Chlorotoluene
8260B		Air	2-Hexanone
8260B		Air	2-Methylnaphthalene
8260B		Air	4-Chlorotoluene
8260B		Air	4-Isopropyltoluene
8260B		Air	4-Methyl-2-pentanone
8260B		Air	Acetone
8260B		Air	Benzene
8260B		Air	Bromobenzene
8260B		Air	Bromodichloromethane
8260B		Air	Bromoform
8260B		Air	Bromomethane
8260B		Air	Carbon disulfide
8260B		Air	Carbon tetrachloride
8260B		Air	Chlorobenzene
8260B		Air	Chloroethane
8260B		Air	Chloroform
8260B		Air	Chloromethane
8260B		Air	cis-1,2-Dichloroethene
8260B		Air	cis-1,3-Dichloropropene
8260B		Air	Dibromochloromethane
8260B		Air	Dibromomethane
8260B		Air	Dichlorodifluoromethane
8260B		Air	Ethylbenzene
8260B		Air	Hexachlorobutadiene
8260B		Air	Isopropylbenzene
8260B		Air	Methylene Chloride
8260B		Air	Methyl-tert-butyl Ether (MTBE)
8260B		Air	Naphthalene
8260B		Air	n-Butylbenzene
8260B		Air	N-Propylbenzene
8260B		Air	sec-Butylbenzene
8260B		Air	Styrene
8260B		Air	tert-Butylbenzene
8260B		Air	Tetrachloroethene (PCE)
8260B		Air	Toluene
8260B		Air	trans-1,2-Dichloroethene
8260B		Air	trans-1,3-Dichloropropene
8260B		Air	Trichloroethene (TCE)
8260B		Air	Trichlorofluoromethane
8260B		Air	Vinyl chloride
8260B		Air	Xylenes, Total

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ANALYTICAL SUMMARY REPORT

August 08, 2024

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

Work Order: B24072579 Quote ID: B15626

Project Name: Sunray B 1B, 88501698

Energy Laboratories Inc Billings MT received the following 1 sample for Hall Environmental on 7/31/2024 for analysis.

Lab ID	Client Sample ID	Collect Date Receive Date	Matri x	Test
B24072579-001	SVE-1 (885-8823-1)	07/26/24 12:00 07/31/24	Air	Air Correction Calculations Appearance and Comments Calculated Properties GPM @ std cond,/1000 cu. ft., moist Free Natural Gas Analysis Specific Gravity @ 60/60

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

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

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

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

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LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client: Hall Environmental Project: Sunray B 1B, 88501698 Lab ID: B24072579-001

Client Sample ID: SVE-1 (885-8823-1)

Report Date: 08/08/24 Collection Date: 07/26/24 12:00 DateReceived: 07/31/24 Matrix: Air

					MCL/		
Analyses	Result	Units	Qualifiers	RL	QCL	Method	Analysis Date / By
GAS CHROMATOGRAPHY ANALYSIS	REPORT						
Oxygen	21.79	Mol %		0.01		GPA 2261-95	08/01/24 10:42 / jrj
Nitrogen	78.04	Mol %		0.01		GPA 2261-95	08/01/24 10:42 / jrj
Carbon Dioxide	0.15	Mol %		0.01		GPA 2261-95	08/01/24 10:42 / jrj
Hydrogen Sulfide	<0.01	Mol %		0.01		GPA 2261-95	08/01/24 10:42 / jrj
Methane	<0.01	Mol %		0.01		GPA 2261-95	08/01/24 10:42 / jrj
Ethane	<0.01	Mol %		0.01		GPA 2261-95	08/01/24 10:42 / jrj
Propane	<0.01	Mol %		0.01		GPA 2261-95	08/01/24 10:42 / jrj
Isobutane	<0.01	Mol %		0.01		GPA 2261-95	08/01/24 10:42 / jrj
n-Butane	<0.01	Mol %		0.01		GPA 2261-95	08/01/24 10:42 / jrj
Isopentane	<0.01	Mol %		0.01		GPA 2261-95	08/01/24 10:42 / jrj
n-Pentane	<0.01	Mol %		0.01		GPA 2261-95	08/01/24 10:42 / jrj
Hexanes plus	0.02	Mol %		0.01		GPA 2261-95	08/01/24 10:42 / jrj
Propane	< 0.001	gpm		0.001		GPA 2261-95	08/01/24 10:42 / jrj
Isobutane	< 0.001	gpm		0.001		GPA 2261-95	08/01/24 10:42 / jrj
n-Butane	< 0.001	gpm		0.001		GPA 2261-95	08/01/24 10:42 / jrj
Isopentane	< 0.001	gpm		0.001		GPA 2261-95	08/01/24 10:42 / jrj
n-Pentane	< 0.001	gpm		0.001		GPA 2261-95	08/01/24 10:42 / jrj
Hexanes plus	0.008	gpm		0.001		GPA 2261-95	08/01/24 10:42 / jrj
GPM Total	0.008	gpm		0.001		GPA 2261-95	08/01/24 10:42 / jrj
GPM Pentanes plus	0.008	gpm		0.001		GPA 2261-95	08/01/24 10:42 / jrj
CALCULATED PROPERTIES							
Gross BTU per cu ft @ Std Cond. (HHV)	1			1		GPA 2261-95	08/01/24 10:42 / jrj
Net BTU per cu ft @ std cond. (LHV)	1			1		GPA 2261-95	08/01/24 10:42 / jrj
Pseudo-critical Pressure, psia	545			1		GPA 2261-95	08/01/24 10:42 / jrj
Pseudo-critical Temperature, deg R	239			1		GPA 2261-95	08/01/24 10:42 / jrj
Specific Gravity @ 60/60F	0.999			0.001		D3588-81	08/01/24 10:42 / jrj
Air, % - The analysis was not corrected for air.	99.54			0.01		GPA 2261-95	08/01/24 10:42 / jrj

COMMENTS

08/01/24 10:42 / jrj

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

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

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

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

RL - Analyte Reporting Limit Report **Definitions:**

QCL - Quality Control Limit

MCL - Maximum Contaminant Level

ND - Not detected at the Reporting Limit (RL)

Trust our People. Trust our Data.

0.02

Mol %

www.energylab.com



0.0

20

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QA/QC Summary Report

Prepared by Billings, MT Branch

Client:	Hall Environmental				Work Order:	B2407	2579	Repor	t Date:	: 08/08/24	
Analyte		Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method:	GPA 2261-95									Batch:	R426411
Lab ID:	LCS080124	11 Lab	oratory Co	ntrol Sample	Э		Run: GCNG	GA-B_240801A		08/01/	/24 03:36
Oxygen			0.63	Mol %	0.01	126	70	130			
Nitrogen			5.96	Mol %	0.01	99	70	130			
Carbon D	Dioxide		1.00	Mol %	0.01	101	70	130			
Methane			75.1	Mol %	0.01	100	70	130			
Ethane			6.06	Mol %	0.01	101	70	130			
Propane			5.04	Mol %	0.01	102	70	130			
Isobutan	е		1.40	Mol %	0.01	70	70	130			
n-Butane	•		2.01	Mol %	0.01	100	70	130			
Isopenta	ne		1.00	Mol %	0.01	100	70	130			
n-Pentan	ne		1.04	Mol %	0.01	104	70	130			
Hexanes	plus		0.79	Mol %	0.01	99	70	130			
Lab ID:	B24072579-001ADUP	12 Saı	mple Duplic	ate			Run: GCNG	SA-B_240801A		08/01	/24 11:31
Oxygen			21.8	Mol %	0.01				0.2	20	
Nitrogen			78.0	Mol %	0.01				0.1	20	
Carbon D	Dioxide		0.15	Mol %	0.01				0.0	20	
Hydrogei	n Sulfide		<0.01	Mol %	0.01					20	
Methane			< 0.01	Mol %	0.01					20	
Ethane			< 0.01	Mol %	0.01					20	
Propane			<0.01	Mol %	0.01					20	
Isobutan	е		<0.01	Mol %	0.01					20	
n-Butane	•		<0.01	Mol %	0.01					20	
Isopenta	ne		<0.01	Mol %	0.01					20	
n-Pentan	ne		<0.01	Mol %	0.01					20	

0.01

Qualifiers:

Hexanes plus

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)



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Work Order Receipt Checklist

Hall Environmental B24072579

Login completed by:	Danielle N. Harris	Date Received: 7/31/2024					
Reviewed by:	gmccartney		Red	ceived by: KLP			
Reviewed Date:	8/7/2024		Carr	ier name: FedEx NDA			
Shipping container/cooler in g	good condition?	Yes ✓	No 🗌	Not Present			
Custody seals intact on all sh	ipping container(s)/cooler(s)?	Yes ✓	No 🗌	Not Present			
Custody seals intact on all sa	mple bottles?	Yes	No 🗌	Not Present ✓			
Chain of custody present?		Yes ✓	No 🗌				
Chain of custody signed when	n relinquished and received?	Yes ✓	No 🗌				
Chain of custody agrees with	sample labels?	Yes ✓	No 🗌				
Samples in proper container/b	pottle?	Yes ✓	No 🗌				
Sample containers intact?		Yes ✓	No 🗌				
Sufficient sample volume for i	indicated test?	Yes ✓	No 🗌				
All samples received within ho (Exclude analyses that are co such as pH, DO, Res Cl, Sulf	nsidered field parameters	Yes ✓	No 🗌				
Temp Blank received in all sh	ipping container(s)/cooler(s)?	Yes	No 🗸	Not Applicable			
Container/Temp Blank temper	rature:	20.5°C No Ice					
Containers requiring zero hea bubble that is <6mm (1/4").	dspace have no headspace or	Yes	No 🗌	No VOA vials submitted			
Water - pH acceptable upon r	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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Billings

Login Sample Receipt Checklist

Client: Hilcorp Energy Job Number: 885-8823-1

Login Number: 8823 List Source: Eurofins Albuquerque

List Number: 1

Creator: McQuiston, Steven

ordator: moduloton, otovon		
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.	True	
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	
s 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	

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 9/24/2024 4:06:26 PM

JOB DESCRIPTION

Sunray B 1B

JOB NUMBER

885-11321-1

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

Generated 9/24/2024 4:06:26 PM

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

Page 2 of 25 9/24/2024

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Client: Hilcorp Energy Laboratory Job ID: 885-11321-1 Project/Site: Sunray B 1B

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Most Probable Number

Not Calculated

Negative / Absent

Positive / Present

Presumptive Quality Control

Method Quantitation Limit

Practical Quantitation Limit

Relative Error Ratio (Radiochemistry)

Toxicity Equivalent Factor (Dioxin)

Too Numerous To Count

Toxicity Equivalent Quotient (Dioxin)

Reporting Limit or Requested Limit (Radiochemistry)

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

Not Detected at the reporting limit (or MDL or EDL if shown)

Definitions/Glossary

Client: Hilcorp Energy Job ID: 885-11321-1

Project/Site: Sunray B 1B

Glossary

MPN

MQL

NC

ND

NEG

POS

PQL

PRES

QC RER

RL

RPD

TEF

TEQ

TNTC

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

Case Narrative

Client: Hilcorp Energy Job ID: 885-11321-1 Project: Sunray B 1B

Job ID: 885-11321-1 **Eurofins Albuquerque**

> Job Narrative 885-11321-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The sample was received on 9/7/2024 7:40 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 19.3°C.

Subcontract Work

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

Gasoline Range Organics

Method 8015D GRO MS: Reanalysis was performed for sampleSVE-1 (885-11321-1), (885-11320-A-1 ^5) and (885-11320-A-1 DU) 24 hours outside of hold time for GRO C6-C10 only. Initial analysis for 8260B was within hold times but no GRO QC was run on that date. 885-11320, 885-11321, and 85-11322 were run on day zero.

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

GC/MS VOA

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

Client Sample Results

Client: Hilcorp Energy Job ID: 885-11321-1

Project/Site: Sunray B 1B

Client Sample ID: SVE-1 Lab Sample ID: 885-11321-1 Date Collected: 09/06/24 09:15

Matrix: Air

Date Received: 09/07/24 07:40 Sample Container: Tedlar Bag 1L

	Method: SW846 8015M/D - Nonhalogenated C	Organics using GC/MS -I	Modified (Gasoline I	Range Organics)
--	--	-------------------------	----------------------	-----------------

Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		25	ug/L			09/20/24 12:39	5

Surrogate	%Recovery Qua	alifier Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorohenzene (Surr)	87	52 172		00/20/24 12:30	5

I	Method: SW846 8260B	- Volatile	Organic Com	nounds	(GC/MS)	١
ı	Michiga. Stroto 0200D	- Volatile	Organic Com	poullus	(CC/IVIC)	,

Analyte	Result Qualifier	RL	Unit	D Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND ND	0.50	ug/L		09/16/24 16:02	5
1,1,1-Trichloroethane	ND	0.50	ug/L		09/16/24 16:02	5
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L		09/16/24 16:02	5
1,1,2-Trichloroethane	ND	0.50	ug/L		09/16/24 16:02	5
1,1-Dichloroethane	ND	0.50	ug/L		09/16/24 16:02	5
1,1-Dichloroethene	ND	0.50	ug/L		09/16/24 16:02	5
1,1-Dichloropropene	ND	0.50	ug/L		09/16/24 16:02	5
1,2,3-Trichlorobenzene	ND	0.50	ug/L		09/16/24 16:02	5
1,2,3-Trichloropropane	ND	1.0	ug/L		09/16/24 16:02	5
1,2,4-Trichlorobenzene	ND	0.50	ug/L		09/16/24 16:02	5
1,2,4-Trimethylbenzene	ND	0.50	ug/L		09/16/24 16:02	5
1,2-Dibromo-3-Chloropropane	ND	1.0	ug/L		09/16/24 16:02	5
1,2-Dibromoethane (EDB)	ND	0.50	ug/L		09/16/24 16:02	5
1,2-Dichlorobenzene	ND	0.50	ug/L		09/16/24 16:02	5
1,2-Dichloroethane (EDC)	ND	0.50	ug/L		09/16/24 16:02	5
1,2-Dichloropropane	ND	0.50	ug/L		09/16/24 16:02	5
1,3,5-Trimethylbenzene	ND	0.50	ug/L		09/16/24 16:02	5
1,3-Dichlorobenzene	ND	0.50	ug/L		09/16/24 16:02	5
1,3-Dichloropropane	ND	0.50	ug/L		09/16/24 16:02	5
1,4-Dichlorobenzene	ND	0.50	ug/L		09/16/24 16:02	5
1-Methylnaphthalene	ND	2.0	ug/L		09/16/24 16:02	5
2,2-Dichloropropane	ND	1.0	ug/L		09/16/24 16:02	5
2-Butanone	ND	5.0	ug/L		09/16/24 16:02	5
2-Chlorotoluene	ND	0.50	ug/L		09/16/24 16:02	5
2-Hexanone	ND	5.0	ug/L		09/16/24 16:02	5
2-Methylnaphthalene	ND	2.0	ug/L		09/16/24 16:02	5
4-Chlorotoluene	ND	0.50	ug/L		09/16/24 16:02	5
4-Isopropyltoluene	ND	0.50	ug/L		09/16/24 16:02	5
4-Methyl-2-pentanone	ND	5.0	ug/L		09/16/24 16:02	5
Acetone	ND	5.0	ug/L		09/16/24 16:02	5
Benzene	ND	0.50	ug/L		09/16/24 16:02	5
Bromobenzene	ND	0.50	ug/L		09/16/24 16:02	5
Bromodichloromethane	ND	0.50	ug/L		09/16/24 16:02	5
Dibromochloromethane	ND	0.50	ug/L		09/16/24 16:02	5
Bromoform	ND	0.50	ug/L		09/16/24 16:02	5
Bromomethane	ND	1.5	ug/L		09/16/24 16:02	5
Carbon disulfide	ND	5.0	ug/L		09/16/24 16:02	5
Carbon tetrachloride	ND	0.50	ug/L		09/16/24 16:02	5
Chlorobenzene	ND	0.50	ug/L		09/16/24 16:02	5
Chloroethane	ND	1.0	ug/L		09/16/24 16:02	5
Chloroform	ND	0.50	ug/L		09/16/24 16:02	5
Chloromethane	ND	1.5	ug/L		09/16/24 16:02	5

Job ID: 885-11321-1

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

Client Sample ID: SVE-1

Lab Sample ID: 885-11321-1

Prepared

Analyzed

09/16/24 16:02

09/16/24 16:02

09/16/24 16:02

09/16/24 16:02

Dil Fac

5

5

5

5

Date Collected: 09/06/24 09:15 Date Received: 09/07/24 07:40 Sample Container: Tedlar Bag 1L Matrix: Air

Analyte	Result Qualifier	RL	Unit	D Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND ND	0.50	ug/L		09/16/24 16:02	5
cis-1,3-Dichloropropene	ND	0.50	ug/L		09/16/24 16:02	5
Dibromomethane	ND	0.50	ug/L		09/16/24 16:02	5
Dichlorodifluoromethane	ND	0.50	ug/L		09/16/24 16:02	5
Ethylbenzene	ND	0.50	ug/L		09/16/24 16:02	5
Hexachlorobutadiene	ND	0.50	ug/L		09/16/24 16:02	5
Isopropylbenzene	ND	0.50	ug/L		09/16/24 16:02	5
Methyl-tert-butyl Ether (MTBE)	ND	0.50	ug/L		09/16/24 16:02	5
Methylene Chloride	ND	1.5	ug/L		09/16/24 16:02	5
n-Butylbenzene	ND	1.5	ug/L		09/16/24 16:02	5
N-Propylbenzene	ND	0.50	ug/L		09/16/24 16:02	5
Naphthalene	ND	1.0	ug/L		09/16/24 16:02	5
sec-Butylbenzene	ND	0.50	ug/L		09/16/24 16:02	5
Styrene	ND	0.50	ug/L		09/16/24 16:02	5
tert-Butylbenzene	ND	0.50	ug/L		09/16/24 16:02	5
Tetrachloroethene (PCE)	ND	0.50	ug/L		09/16/24 16:02	5
Toluene	ND	0.50	ug/L		09/16/24 16:02	5
trans-1,2-Dichloroethene	ND	0.50	ug/L		09/16/24 16:02	5
trans-1,3-Dichloropropene	ND	0.50	ug/L		09/16/24 16:02	5
Trichloroethene (TCE)	ND	0.50	ug/L		09/16/24 16:02	5
Trichlorofluoromethane	ND	0.50	ug/L		09/16/24 16:02	5
Vinyl chloride	ND	0.50	ug/L		09/16/24 16:02	5
Xylenes, Total	ND	0.75	ug/L		09/16/24 16:02	5

Limits

70 - 130

70 - 130

70 - 130

70 - 130

%Recovery Qualifier

90

102

102

102

Eurofins Albuquerque	
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Surrogate

Toluene-d8 (Surr)

1,2-Dichloroethane-d4 (Surr)

4-Bromofluorobenzene (Surr)

Dibromofluoromethane (Surr)

Client: Hilcorp Energy Job ID: 885-11321-1

Project/Site: Sunray B 1B

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

Lab Sample ID: MB 885-12775/4 Client Sample ID: Method Blank Matrix: Air Prep Type: Total/NA

Analysis Batch: 12775

MB MB Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac Gasoline Range Organics [C6 - C10] ND 5.0 ug/L 09/20/24 11:25

MB MB

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 52 - 172 4-Bromofluorobenzene (Surr) 87 09/20/24 11:25

Lab Sample ID: LCS 885-12775/3 Client Sample ID: Lab Control Sample Prep Type: Total/NA

Matrix: Air

Analysis Batch: 12775

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit %Rec Limits 4250 4700 ug/L 111 70 - 130 Gasoline Range Organics [C6 -

C10]

LCS LCS Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 52 - 172 94

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

Lab Sample ID: MB 885-12295/1006 Client Sample ID: Method Blank Prep Type: Total/NA

Matrix: Air

Analysis Batch: 12295

Released to Imaging: 10/25/2024 11:15:28 AM

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.10	ug/L			09/16/24 12:46	1
1,1,1-Trichloroethane	ND		0.10	ug/L			09/16/24 12:46	1
1,1,2,2-Tetrachloroethane	ND		0.20	ug/L			09/16/24 12:46	1
1,1,2-Trichloroethane	ND		0.10	ug/L			09/16/24 12:46	1
1,1-Dichloroethane	ND		0.10	ug/L			09/16/24 12:46	1
1,1-Dichloroethene	ND		0.10	ug/L			09/16/24 12:46	1
1,1-Dichloropropene	ND		0.10	ug/L			09/16/24 12:46	1
1,2,3-Trichlorobenzene	ND		0.10	ug/L			09/16/24 12:46	1
1,2,3-Trichloropropane	ND		0.20	ug/L			09/16/24 12:46	1
1,2,4-Trichlorobenzene	ND		0.10	ug/L			09/16/24 12:46	1
1,2,4-Trimethylbenzene	ND		0.10	ug/L			09/16/24 12:46	1
1,2-Dibromo-3-Chloropropane	ND		0.20	ug/L			09/16/24 12:46	1
1,2-Dibromoethane (EDB)	ND		0.10	ug/L			09/16/24 12:46	1
1,2-Dichlorobenzene	ND		0.10	ug/L			09/16/24 12:46	1
1,2-Dichloroethane (EDC)	ND		0.10	ug/L			09/16/24 12:46	1
1,2-Dichloropropane	ND		0.10	ug/L			09/16/24 12:46	1
1,3,5-Trimethylbenzene	ND		0.10	ug/L			09/16/24 12:46	1
1,3-Dichlorobenzene	ND		0.10	ug/L			09/16/24 12:46	1
1,3-Dichloropropane	ND		0.10	ug/L			09/16/24 12:46	1
1,4-Dichlorobenzene	ND		0.10	ug/L			09/16/24 12:46	1
1-Methylnaphthalene	ND		0.40	ug/L			09/16/24 12:46	1
2,2-Dichloropropane	ND		0.20	ug/L			09/16/24 12:46	1
2-Butanone	ND		1.0	ug/L			09/16/24 12:46	1
2-Chlorotoluene	ND		0.10	ug/L			09/16/24 12:46	1
2-Hexanone	ND		1.0	ug/L			09/16/24 12:46	1

Client: Hilcorp Energy Job ID: 885-11321-1

Project/Site: Sunray B 1B

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

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Lab Sample ID: MB 885-12295/1006 Matrix: Air

Analysis Batch: 12295

Client Sample ID: Method Blank

Prep Type: Total/NA

Analysis	MB	MR	DI	11		Duamanad	Amalumad	Dil Fac
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		0.40	ug/L			09/16/24 12:46	1
4-Chlorotoluene	ND		0.10	ug/L			09/16/24 12:46	
4-Isopropyltoluene	ND		0.10	ug/L			09/16/24 12:46	1
4-Methyl-2-pentanone	ND		1.0	ug/L			09/16/24 12:46	1
Acetone	ND		1.0	ug/L			09/16/24 12:46	
Benzene	ND		0.10	ug/L			09/16/24 12:46	1
Bromobenzene	ND		0.10	ug/L			09/16/24 12:46	1
Bromodichloromethane	ND		0.10	ug/L			09/16/24 12:46	1
Dibromochloromethane	ND		0.10	ug/L			09/16/24 12:46	1
Bromoform	ND		0.10	ug/L			09/16/24 12:46	1
Bromomethane	ND		0.30	ug/L			09/16/24 12:46	1
Carbon disulfide	ND		1.0	ug/L			09/16/24 12:46	1
Carbon tetrachloride	ND		0.10	ug/L			09/16/24 12:46	1
Chlorobenzene	ND		0.10	ug/L			09/16/24 12:46	1
Chloroethane	ND		0.20	ug/L			09/16/24 12:46	1
Chloroform	ND		0.10	ug/L			09/16/24 12:46	1
Chloromethane	ND		0.30	ug/L			09/16/24 12:46	1
cis-1,2-Dichloroethene	ND		0.10	ug/L			09/16/24 12:46	1
cis-1,3-Dichloropropene	ND		0.10	ug/L			09/16/24 12:46	1
Dibromomethane	ND		0.10	ug/L			09/16/24 12:46	1
Dichlorodifluoromethane	ND		0.10	ug/L			09/16/24 12:46	1
Ethylbenzene	ND		0.10	ug/L			09/16/24 12:46	1
Hexachlorobutadiene	ND		0.10	ug/L			09/16/24 12:46	1
Isopropylbenzene	ND		0.10	ug/L			09/16/24 12:46	1
Methyl-tert-butyl Ether (MTBE)	ND		0.10	ug/L			09/16/24 12:46	1
Methylene Chloride	ND		0.30	ug/L			09/16/24 12:46	1
n-Butylbenzene	ND		0.30	ug/L			09/16/24 12:46	1
N-Propylbenzene	ND		0.10	ug/L			09/16/24 12:46	1
Naphthalene	ND		0.20	ug/L			09/16/24 12:46	1
sec-Butylbenzene	ND		0.10	ug/L			09/16/24 12:46	1
Styrene	ND		0.10	ug/L			09/16/24 12:46	1
tert-Butylbenzene	ND		0.10	ug/L			09/16/24 12:46	1
Tetrachloroethene (PCE)	ND		0.10	ug/L			09/16/24 12:46	1
Toluene	ND		0.10	ug/L			09/16/24 12:46	1
trans-1,2-Dichloroethene	ND		0.10	ug/L			09/16/24 12:46	1
trans-1,3-Dichloropropene	ND		0.10	ug/L			09/16/24 12:46	1
Trichloroethene (TCE)	ND		0.10	ug/L			09/16/24 12:46	1
Trichlorofluoromethane	ND.		0.10	ug/L			09/16/24 12:46	1
Vinyl chloride	ND		0.10	ug/L			09/16/24 12:46	· · · · · · · · · · · · · · · · · · ·
Xylenes, Total	ND		0.15	ug/L			09/16/24 12:46	1
-				ŭ				
	MB	MB						

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	90		70 - 130		09/16/24 12:46	1
Toluene-d8 (Surr)	100		70 - 130		09/16/24 12:46	1
4-Bromofluorobenzene (Surr)	99		70 - 130		09/16/24 12:46	1
Dibromofluoromethane (Surr)	102		70 - 130		09/16/24 12:46	1

Client: Hilcorp Energy Job ID: 885-11321-1

Project/Site: Sunray B 1B

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

Lab Sample ID: MB 885-12295/6

Analysis Batch: 12295

Matrix: Air

Client Sample ID: Method Blank

Prep Type: Total/NA

ac	
1	6
1	
1	
1	
1	8
1	
1	q
1	
1	
1	

	МВ	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
1,1,1,2-Tetrachloroethane	ND		1.0	ug/L			09/16/24 12:46	
1,1,1-Trichloroethane	ND		1.0	ug/L			09/16/24 12:46	•
1,1,2,2-Tetrachloroethane	ND		2.0	ug/L			09/16/24 12:46	
1,1,2-Trichloroethane	ND		1.0	ug/L			09/16/24 12:46	•
1,1-Dichloroethane	ND		1.0	ug/L			09/16/24 12:46	•
1,1-Dichloroethene	ND		1.0	ug/L			09/16/24 12:46	
1,1-Dichloropropene	ND		1.0	ug/L			09/16/24 12:46	•
1,2,3-Trichlorobenzene	ND		1.0	ug/L			09/16/24 12:46	
1,2,3-Trichloropropane	ND		2.0	ug/L			09/16/24 12:46	
1,2,4-Trichlorobenzene	ND		1.0	ug/L			09/16/24 12:46	
1,2,4-Trimethylbenzene	ND		1.0	ug/L			09/16/24 12:46	
1,2-Dibromo-3-Chloropropane	ND		2.0	ug/L			09/16/24 12:46	
1,2-Dibromoethane (EDB)	ND		1.0	ug/L			09/16/24 12:46	
1,2-Dichlorobenzene	ND		1.0	ug/L			09/16/24 12:46	
1,2-Dichloroethane (EDC)	ND		1.0	ug/L			09/16/24 12:46	
1,2-Dichloropropane	ND		1.0	ug/L			09/16/24 12:46	
1,3,5-Trimethylbenzene	ND		1.0	ug/L			09/16/24 12:46	
1,3-Dichlorobenzene	ND		1.0	ug/L			09/16/24 12:46	
1,3-Dichloropropane	ND		1.0	ug/L			09/16/24 12:46	
1,4-Dichlorobenzene	ND		1.0	ug/L			09/16/24 12:46	
1-Methylnaphthalene	ND		4.0	ug/L			09/16/24 12:46	
2,2-Dichloropropane	ND		2.0	ug/L			09/16/24 12:46	
2-Butanone	ND		10	ug/L			09/16/24 12:46	
2-Chlorotoluene	ND		1.0	ug/L			09/16/24 12:46	
2-Hexanone	ND		10	ug/L ug/L			09/16/24 12:46	
2-Methylnaphthalene	ND		4.0	ug/L			09/16/24 12:46	
4-Chlorotoluene	ND		1.0	ug/L			09/16/24 12:46	
4-Isopropyltoluene	ND		1.0				09/16/24 12:46	
• • •	ND ND		10	ug/L			09/16/24 12:46	
4-Methyl-2-pentanone	ND ND		10	ug/L			09/16/24 12:46	
Acetone				ug/L				
Benzene	ND		1.0	ug/L			09/16/24 12:46	
Bromobenzene	ND		1.0	ug/L			09/16/24 12:46	
Bromodichloromethane	ND		1.0	ug/L			09/16/24 12:46	
Dibromochloromethane	ND		1.0	ug/L			09/16/24 12:46	
Bromoform	ND		1.0	ug/L			09/16/24 12:46	
Bromomethane	ND		3.0	ug/L			09/16/24 12:46	
Carbon disulfide	ND		10	ug/L			09/16/24 12:46	
Carbon tetrachloride	ND		1.0	ug/L			09/16/24 12:46	
Chlorobenzene	ND		1.0	ug/L			09/16/24 12:46	
Chloroethane	ND		2.0	ug/L			09/16/24 12:46	
Chloroform	ND		1.0	ug/L			09/16/24 12:46	
Chloromethane	ND		3.0	ug/L			09/16/24 12:46	
cis-1,2-Dichloroethene	ND		1.0	ug/L			09/16/24 12:46	
cis-1,3-Dichloropropene	ND		1.0	ug/L			09/16/24 12:46	
Dibromomethane	ND		1.0	ug/L			09/16/24 12:46	
Dichlorodifluoromethane	ND		1.0	ug/L			09/16/24 12:46	
Ethylbenzene	ND		1.0	ug/L			09/16/24 12:46	
Hexachlorobutadiene	ND		1.0	ug/L			09/16/24 12:46	

ug/L

ug/L

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

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

MB MB

Lab Sample ID: MB 885-12295/6

Matrix: Air

Analysis Batch: 12295

Client Sample ID: Method Blank

Prep Type: Total/NA

Job ID: 885-11321-1

Dil Fac

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND ND	1.0	ug/L			09/16/24 12:46	1
Methyl-tert-butyl Ether (MTBE)	ND	1.0	ug/L			09/16/24 12:46	1
Methylene Chloride	ND	3.0	ug/L			09/16/24 12:46	1
n-Butylbenzene	ND	3.0	ug/L			09/16/24 12:46	1
N-Propylbenzene	ND	1.0	ug/L			09/16/24 12:46	1
Naphthalene	ND	2.0	ug/L			09/16/24 12:46	1
sec-Butylbenzene	ND	1.0	ug/L			09/16/24 12:46	1
Styrene	ND	1.0	ug/L			09/16/24 12:46	1
tert-Butylbenzene	ND	1.0	ug/L			09/16/24 12:46	1
Tetrachloroethene (PCE)	ND	1.0	ug/L			09/16/24 12:46	1
Toluene	ND	1.0	ug/L			09/16/24 12:46	1
trans-1,2-Dichloroethene	ND	1.0	ug/L			09/16/24 12:46	1
trans-1,3-Dichloropropene	ND	1.0	ug/L			09/16/24 12:46	1
Trichloroethene (TCE)	ND	1.0	ug/L			09/16/24 12:46	1
Trichlorofluoromethane	ND	1.0	ug/L			09/16/24 12:46	1

MB MB

ND

ND

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	90	70 - 130		09/16/24 12:46	1
Toluene-d8 (Surr)	100	70 - 130		09/16/24 12:46	1
4-Bromofluorobenzene (Surr)	99	70 - 130		09/16/24 12:46	1
Dibromofluoromethane (Surr)	102	70 - 130		09/16/24 12:46	1

1.0

1.5

Lab Sample ID: STOBLK 885-12295/49

Released to Imaging: 10/25/2024 11:15:28 AM

Matrix: Air

Vinyl chloride

Xylenes, Total

Analysis Batch: 12295

Client Sample ID: Method Blank

09/16/24 12:46

09/16/24 12:46

Prep Type: Total/NA

Analysis Batch: 12295							
	STOBLK S	TOBLK					
Analyte	Result Q	ualifier RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND ND	1.0	ug/L			09/17/24 06:38	1
1,1,1-Trichloroethane	ND	1.0	ug/L			09/17/24 06:38	1
1,1,2,2-Tetrachloroethane	ND	2.0	ug/L			09/17/24 06:38	1
1,1,2-Trichloroethane	ND	1.0	ug/L			09/17/24 06:38	1
1,1-Dichloroethane	ND	1.0	ug/L			09/17/24 06:38	1
1,1-Dichloroethene	ND	1.0	ug/L			09/17/24 06:38	1
1,1-Dichloropropene	ND	1.0	ug/L			09/17/24 06:38	1
1,2,3-Trichlorobenzene	ND	1.0	ug/L			09/17/24 06:38	1
1,2,3-Trichloropropane	ND	2.0	ug/L			09/17/24 06:38	1
1,2,4-Trichlorobenzene	ND	1.0	ug/L			09/17/24 06:38	1
1,2,4-Trimethylbenzene	ND	1.0	ug/L			09/17/24 06:38	1
1,2-Dibromo-3-Chloropropane	ND	2.0	ug/L			09/17/24 06:38	1
1,2-Dibromoethane (EDB)	ND	1.0	ug/L			09/17/24 06:38	1
1,2-Dichlorobenzene	ND	1.0	ug/L			09/17/24 06:38	1
1,2-Dichloroethane (EDC)	ND	1.0	ug/L			09/17/24 06:38	1
1,2-Dichloropropane	ND	1.0	ug/L			09/17/24 06:38	1
1,3,5-Trimethylbenzene	ND	1.0	ug/L			09/17/24 06:38	1
1,3-Dichlorobenzene	ND	1.0	ug/L			09/17/24 06:38	1
1,3-Dichloropropane	ND	1.0	ug/L			09/17/24 06:38	1
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Client: Hilcorp Energy Job ID: 885-11321-1

Project/Site: Sunray B 1B

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

Lab Sample ID: STOBLK 885-12295/49

Matrix: Air

Client Sample ID: Method Blank

Prep Type: Total/NA

	D!! F	5
t	Dil Fac	
:38	1	6

	STOBLK	STOBLK						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		1.0	ug/L			09/17/24 06:38	1
1-Methylnaphthalene	ND		4.0	ug/L			09/17/24 06:38	1
2,2-Dichloropropane	ND		2.0	ug/L			09/17/24 06:38	1
2-Butanone	ND		10	ug/L			09/17/24 06:38	1
2-Chlorotoluene	ND		1.0	ug/L			09/17/24 06:38	1
2-Hexanone	ND		10	ug/L			09/17/24 06:38	1
2-Methylnaphthalene	ND		4.0	ug/L			09/17/24 06:38	1
4-Chlorotoluene	ND		1.0	ug/L			09/17/24 06:38	1
4-Isopropyltoluene	ND		1.0	ug/L			09/17/24 06:38	1
4-Methyl-2-pentanone	ND		10	ug/L			09/17/24 06:38	1
Acetone	ND		10	ug/L			09/17/24 06:38	1
Benzene	ND		1.0	ug/L			09/17/24 06:38	1
Bromobenzene	ND		1.0	ug/L			09/17/24 06:38	1
Bromodichloromethane	ND		1.0	ug/L			09/17/24 06:38	1
Dibromochloromethane	ND		1.0	ug/L			09/17/24 06:38	1
Bromoform	ND		1.0	ug/L			09/17/24 06:38	1
Bromomethane	ND		3.0	ug/L			09/17/24 06:38	1
Carbon disulfide	ND		10	ug/L			09/17/24 06:38	1
Carbon tetrachloride	ND		1.0	ug/L			09/17/24 06:38	1
Chlorobenzene	ND		1.0	ug/L			09/17/24 06:38	1
Chloroethane	ND		2.0	ug/L			09/17/24 06:38	1
Chloroform	ND		1.0	ug/L			09/17/24 06:38	1
Chloromethane	ND		3.0	ug/L			09/17/24 06:38	1
cis-1,2-Dichloroethene	ND		1.0	ug/L			09/17/24 06:38	·
cis-1,3-Dichloropropene	ND		1.0	ug/L			09/17/24 06:38	1
Dibromomethane	ND		1.0	ug/L			09/17/24 06:38	
Dichlorodifluoromethane	ND		1.0	ug/L			09/17/24 06:38	
Ethylbenzene	ND		1.0	ug/L			09/17/24 06:38	1
Hexachlorobutadiene	ND		1.0	ug/L			09/17/24 06:38	1
Isopropylbenzene	ND						09/17/24 06:38	
	ND ND		1.0 1.0	ug/L			09/17/24 06:38	1
Methyl-tert-butyl Ether (MTBE)	ND ND			ug/L				1
Methylene Chloride			3.0	ug/L			09/17/24 06:38	:
n-Butylbenzene	ND ND		3.0	ug/L			09/17/24 06:38 09/17/24 06:38	1
N-Propylbenzene			1.0	ug/L				1
Naphthalene	ND		2.0	ug/L			09/17/24 06:38	1
sec-Butylbenzene	ND		1.0	ug/L			09/17/24 06:38	1
Styrene	ND		1.0	ug/L			09/17/24 06:38	1
tert-Butylbenzene	ND		1.0	ug/L			09/17/24 06:38	
Tetrachloroethene (PCE)	ND		1.0	ug/L			09/17/24 06:38	1
Toluene	ND		1.0	ug/L			09/17/24 06:38	1
trans-1,2-Dichloroethene	ND		1.0	ug/L			09/17/24 06:38	1
trans-1,3-Dichloropropene	ND		1.0	ug/L			09/17/24 06:38	1
Trichloroethene (TCE)	ND		1.0	ug/L			09/17/24 06:38	1
Trichlorofluoromethane	ND		1.0	ug/L			09/17/24 06:38	1
Vinyl chloride	ND		1.0	ug/L			09/17/24 06:38	1
Xylenes, Total	ND		1.5	ug/L			09/17/24 06:38	1

Client: Hilcorp Energy Job ID: 885-11321-1

Project/Site: Sunray B 1B

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

Lab Sample ID: STOBLK 885-12295/49

Matrix: Air

Analysis Batch: 12295

Client Sample ID: Method Blank

Prep Type: Total/NA

STOBLK STOBLK %Recovery Qualifier Dil Fac Surrogate Limits Prepared Analyzed 1,2-Dichloroethane-d4 (Surr) 93 70 - 130 09/17/24 06:38 Toluene-d8 (Surr) 101 70 - 130 09/17/24 06:38 70 - 130 4-Bromofluorobenzene (Surr) 99 09/17/24 06:38 Dibromofluoromethane (Surr) 103 70 - 130 09/17/24 06:38

Lab Sample ID: LCS 885-12295/5 **Client Sample ID: Lab Control Sample** Matrix: Air

Prep Type: Total/NA

Analysis Batch: 12295 LCS LCS %Rec Spike Added Result Qualifier Analyte Unit %Rec Limits 1,1-Dichloroethene 20.1 22.0 ug/L 109 70 - 130 Benzene 20.1 23.4 ug/L 117 70 - 130 Chlorobenzene 20.1 22.9 ug/L 114 70 - 130 Toluene 20.2 22.7 ug/L 112 70 - 130 20.2 22.3 Trichloroethene (TCE) ug/L 110 70 - 130

LCS LCS Surrogate %Recovery Qualifier Limits 1,2-Dichloroethane-d4 (Surr) 90 70 - 130 Toluene-d8 (Surr) 101 70 - 130 70 - 130 4-Bromofluorobenzene (Surr) 101 99 70 - 130 Dibromofluoromethane (Surr)

QC Association Summary

Client: Hilcorp Energy Job ID: 885-11321-1

Project/Site: Sunray B 1B

GC/MS VOA

Analysis Batch: 12295

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-11321-1	SVE-1	Total/NA	Air	8260B	
MB 885-12295/1006	Method Blank	Total/NA	Air	8260B	
MB 885-12295/6	Method Blank	Total/NA	Air	8260B	
STOBLK 885-12295/49	Method Blank	Total/NA	Air	8260B	
LCS 885-12295/5	Lab Control Sample	Total/NA	Air	8260B	

Analysis Batch: 12775

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-11321-1	SVE-1	Total/NA	Air	8015M/D	
MB 885-12775/4	Method Blank	Total/NA	Air	8015M/D	
LCS 885-12775/3	Lab Control Sample	Total/NA	Air	8015M/D	

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Lab Chronicle

Client: Hilcorp Energy Job ID: 885-11321-1

Project/Site: Sunray B 1B

Client Sample ID: SVE-1 Lab Sample ID: 885-11321-1

Date Collected: 09/06/24 09:15

Date Received: 09/07/24 07:40

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8015M/D		5	12775	СМ	EET ALB	09/20/24 12:39
Total/NA	Analysis	8260B		5	12295	CM	EET ALB	09/16/24 16:02

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

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Client: Hilcorp Energy Job ID: 885-11321-1

Project/Site: Sunray B 1B

Laboratory: Eurofins Albuquerque

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

thority	Progra	am	Identification Number	Expiration Date
w Mexico	State		NM9425, NM0901	02-26-25
The following analytes	are included in this report. bu	it the laboratory is not certif	ied by the governing authority. This lis	t mav include analyte
	oes not offer certification.	,	, , ,	, ,
Analysis Method	Prep Method	Matrix	Analyte	
8015M/D		Air	Gasoline Range Organics	[C6 - C10]
8260B		Air	1,1,1,2-Tetrachloroethane	
8260B		Air	1,1,1-Trichloroethane	
8260B		Air	1,1,2,2-Tetrachloroethane	
8260B		Air	1,1,2-Trichloroethane	
8260B		Air	1,1-Dichloroethane	
8260B		Air	1,1-Dichloroethene	
8260B		Air	1,1-Dichloropropene	
8260B		Air	1,2,3-Trichlorobenzene	
8260B		Air	1,2,3-Trichloropropane	
8260B		Air	1,2,4-Trichlorobenzene	
8260B		Air	1,2,4-Trimethylbenzene	
8260B		Air	1,2-Dibromo-3-Chloroprop	ane
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 8260B		Air	Bromobenzene Bromodichloromethane	
		Air		
8260B		Air	Bromoform	
8260B		Air	Bromomethane	
8260B		Air	Carbon disulfide	
8260B		Air	Carbon tetrachloride	
8260B		Air	Chlorobenzene	
8260B		Air	Chloroethane	
8260B		Air	Chloroform	
00000				

Air

Air

Air

Air

Eurofins Albuquerque

Chloromethane

cis-1,2-Dichloroethene

cis-1,3-Dichloropropene

Dibromochloromethane

3

4

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8260B

8260B

8260B

8260B

Client: Hilcorp Energy Job ID: 885-11321-1

Project/Site: Sunray B 1B

Laboratory: Eurofins Albuquerque (Continued)

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

thority	Progra	am	Identification Number	Expiration Date
	are included in this report, bu	it the laboratory is not certif	ied by the governing authority. This l	ist may include analyte
Analysis Method	Prep Method	Matrix	Analyte	
8260B	1 Tep Metriod	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	
egon	NELA	o	NM100001	02-26-25

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

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

Eurofins Albuquerque

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Client: Hilcorp Energy Job ID: 885-11321-1

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	

Eurofins Albuquerque

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Billings, MT 406.252.6325 • Casper, WY 307.235.0515

Gillette, WY 307.686.7175 . Helena, MT 406.442.0711

September 24, 2024

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

B24090797 Quote ID: B15626 Work Order:

Project Name: Sunray B 1B, 88501698

Energy Laboratories Inc Billings MT received the following 1 sample for Hall Environmental on 9/10/2024 for analysis.

0,	J	ŭ	•		•
Lab ID	Client Sample ID	Collect Date	Receive Date	Matri x	Test
B24090797-001	SVE-1 (885-11321-1)	09/06/24 9:15	09/10/24	Air	Air Correction Calculations Appearance and Comments Calculated Properties GPM @ std cond,/1000 cu. ft., moist. Free Natural Gas Analysis Specific Gravity @ 60/60

ANALYTICAL SUMMARY REPORT

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.

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

Report Date: 09/24/24

LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client: Hall Environmental Project: Sunray B 1B, 88501698 Lab ID: B24090797-001

Collection Date: 09/06/24 09:15 DateReceived: 09/10/24 Client Sample ID: SVE-1 (885-11321-1) Matrix: Air

					MCL/		
Analyses	Result	Units	Qualifiers	RL	QCL	Method	Analysis Date / By
GAS CHROMATOGRAPHY ANALYSIS	REPORT						
Oxygen	21.73	Mol %		0.01		GPA 2261-95	09/18/24 10:39 / jrj
Nitrogen	78.17	Mol %		0.01		GPA 2261-95	09/18/24 10:39 / jrj
Carbon Dioxide	0.05	Mol %		0.01		GPA 2261-95	09/18/24 10:39 / jrj
Hydrogen Sulfide	<0.01	Mol %		0.01		GPA 2261-95	09/18/24 10:39 / jrj
Methane	<0.01	Mol %		0.01		GPA 2261-95	09/18/24 10:39 / jrj
Ethane	<0.01	Mol %		0.01		GPA 2261-95	09/18/24 10:39 / jrj
Propane	<0.01	Mol %		0.01		GPA 2261-95	09/18/24 10:39 / jrj
Isobutane	<0.01	Mol %		0.01		GPA 2261-95	09/18/24 10:39 / jrj
n-Butane	<0.01	Mol %		0.01		GPA 2261-95	09/18/24 10:39 / jrj
Isopentane	<0.01	Mol %		0.01		GPA 2261-95	09/18/24 10:39 / jrj
n-Pentane	<0.01	Mol %		0.01		GPA 2261-95	09/18/24 10:39 / jrj
Hexanes plus	0.05	Mol %		0.01		GPA 2261-95	09/18/24 10:39 / jrj
Propane	< 0.001	gpm		0.001		GPA 2261-95	09/18/24 10:39 / jrj
Isobutane	< 0.001	gpm		0.001		GPA 2261-95	09/18/24 10:39 / jrj
n-Butane	< 0.001	gpm		0.001		GPA 2261-95	09/18/24 10:39 / jrj
Isopentane	< 0.001	gpm		0.001		GPA 2261-95	09/18/24 10:39 / jrj
n-Pentane	< 0.001	gpm		0.001		GPA 2261-95	09/18/24 10:39 / jrj
Hexanes plus	0.021	gpm		0.001		GPA 2261-95	09/18/24 10:39 / jrj
GPM Total	0.021	gpm		0.001		GPA 2261-95	09/18/24 10:39 / jrj
GPM Pentanes plus	0.021	gpm		0.001		GPA 2261-95	09/18/24 10:39 / jrj
CALCULATED PROPERTIES							
Gross BTU per cu ft @ Std Cond. (HHV)	2			1		GPA 2261-95	09/18/24 10:39 / jrj
Net BTU per cu ft @ std cond. (LHV)	2			1		GPA 2261-95	09/18/24 10:39 / jrj
Pseudo-critical Pressure, psia	545			1		GPA 2261-95	09/18/24 10:39 / jrj
Pseudo-critical Temperature, deg R	239			1		GPA 2261-95	09/18/24 10:39 / jrj
Specific Gravity @ 60/60F	0.999			0.001		D3588-81	09/18/24 10:39 / jrj
Air, % - The analysis was not corrected for air.	99.29			0.01		GPA 2261-95	09/18/24 10:39 / jrj
COMMENTS							

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)

09/18/24 10:39 / jrj



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

QA/QC Summary Report

Prepared by Billings, MT Branch

Client:	Hall Environmental	Work Order: B24090797	Report Date: 09/24/24

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www.energylab.com

Analyte		Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method:	GPA 2261-95									Batch:	R429106
Lab ID:	LCS091824	11 Lab	oratory Co	ntrol Sample			Run: GCNG	GA-B_240918A		09/18/	/24 02:55
Oxygen			0.63	Mol %	0.01	126	70	130			
Nitrogen			6.09	Mol %	0.01	101	70	130			
Carbon D	Dioxide		0.99	Mol %	0.01	100	70	130			
Methane			74.6	Mol %	0.01	100	70	130			
Ethane			6.05	Mol %	0.01	101	70	130			
Propane			5.08	Mol %	0.01	103	70	130			
Isobutan	е		1.71	Mol %	0.01	85	70	130			
n-Butane	•		2.00	Mol %	0.01	100	70	130			
Isopenta	ne		1.02	Mol %	0.01	102	70	130			
n-Pentan	e		1.00	Mol %	0.01	100	70	130			
Hexanes	plus		0.79	Mol %	0.01	99	70	130			
Lab ID:	B24090800-001ADUP	12 Sa	mple Duplic	ate			Run: GCNG	SA-B_240918A		09/18/	/24 03:44
Oxygen			22.1	Mol %	0.01				0.1	20	
Nitrogen			77.6	Mol %	0.01				0.1	20	
Carbon D	Dioxide		0.21	Mol %	0.01				0.0	20	
Hydroger	n Sulfide		<0.01	Mol %	0.01					20	
Methane			<0.01	Mol %	0.01					20	
Ethane			<0.01	Mol %	0.01					20	
Propane			<0.01	Mol %	0.01					20	
Isobutan	е		<0.01	Mol %	0.01					20	
n-Butane	•		<0.01	Mol %	0.01					20	
Isopenta	ne		<0.01	Mol %	0.01					20	
n-Pentan	e		<0.01	Mol %	0.01					20	

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)

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

Work Order Receipt Checklist

Hall Environmental

B24090797

_ogin completed by:	Danielle N. Harris		Date	Received: 9/10/2024
Reviewed by:	cjones		Re	eceived by: KLP
Reviewed Date:	9/16/2024		Car	rrier name: FedEx NDA
Shipping container/cooler in		Yes ✓	No 🗌	Not Present
•	hipping container(s)/cooler(s)?	Yes ✓	No 🗌	Not Present
Custody seals intact on all s	ample bottles?	Yes	No 🗌	Not Present ✓
Chain of custody present?		Yes ✓	No 🗌	
Chain of custody signed who	en relinquished and received?	Yes 🗸	No 🗌	
Chain of custody agrees with	h sample labels?	Yes √	No 🗌	
Samples in proper container	/bottle?	Yes √	No 🗌	
Sample containers intact?		Yes ✓	No 🗌	
Sufficient sample volume for	r indicated test?	Yes ✓	No 🗌	
All samples received within I Exclude analyses that are c such as pH, DO, Res CI, Su	considered field parameters	Yes √	No 🗌	
Гетр Blank received in all s	hipping container(s)/cooler(s)?	Yes	No 🗹	Not Applicable
Container/Temp Blank temp	erature:	20.3°C No Ice		
Containers requiring zero he bubble that is <6mm (1/4").	eadspace have no headspace or	Yes	No 🗌	No VOA vials submitted ✓
Vater - 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

Environment Testing

💸 eurofins

Chain of Custody Record

Special Instructions/Note: Bulgota See Attached Instructions Job #: 885-11321-1 COC No: 885-1886.1 Page: Page 1 of 1 Total Number of containers State of Origin New Mexico Analysis Requested Carcia, Michelle
Garcia, Michelle
E-Mail:
Smitchelle garcia@et.eurofinsus.com
NELAP - Oregon; State - New Mexico SUB (Fixed Gases)/ Fixed Gases Perform MS/MSD (Yes or No) Matrix (w-water, S-solid, O-wastaloil Preservation Code: Air Type (C=comp, Sample G=grab) O Sample Mountain Time 09:15 Due Date Requested: 9/16/2024 TAT Requested (days): Sample Date 9/6/24 Project #: 88501698 SSOW# #OM Client Information (Sub Contract Lab) Sample Identification - Client ID (Lab ID) Energy Laboratories, Inc. 1120 South 27th Street SVE-1 (885-11321-1) Shipping/Receiving 406-252-6325(Tel) Project Name: Sunray B 1B MT, 59101 Billings

Note: Since laboratory accreditations are subject to change. Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratory or other instructions will be provided. Any changes to laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC. Months company Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Return To Client Disposal By Lab Mont 093 Archive For Date/Time: Date/Time: fethod of Shipment Disposal By Lab Show Black Special Instructions/QC Requirements Received by BBM eceived by: Received by: Company Sompany Primary Deliverable Rank: 2 Date/19999/94 (Date/Time. Unconfirmed Deliverable Requested: I, II, III, IV, Other (specify) Custody Seal No. Possible Hazard Identification Empty Kit Relinquished by: Custody Seals Intact:
A Yes A No Industrial by: elinquished by: d bensing

Phone: 505-345-3975 Fax: 505-345-4107

Albuquerque, NM 87109

4901 Hawkins NE

Login Sample Receipt Checklist

Client: Hilcorp Energy Job Number: 885-11321-1

Login Number: 11321 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	

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

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 389245

CONDITIONS

Operator:	OGRID:
HILCORP ENERGY COMPANY	372171
1111 Travis Street	Action Number:
Houston, TX 77002	389245
	Action Type:
	[REPORT] Alternative Remediation Report (C-141AR)

CONDITIONS

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