

REVIEWED

By NVelez at 2:07 pm, Feb 07, 2025

1. Continue further actions as stated in report.

2. Submit next quarterly report by April 15, 2025.

January 10, 2025

Mr. Nelson Velez, Environmental Specialist – Advanced New Mexico Oil Conservation Division – District 3 1000 Rio Brazos Road Aztec, New Mexico 87410

Re: Status Report – 4th Quarter 2024 Fifield 5 No. 1 (SE ¼, SW ¼, Sec. 5, T29N, R11W) Hilcorp Energy Company San Juan County, New Mexico OCD Incident No. NVF1718155324

Dear Mr. Velez:

On behalf of Hilcorp Energy Company (Hilcorp), Timberwolf Environmental, LLC (Timberwolf) presents this report to document activities conducted during the 4th quarter of 2024 (4Q24) at the Fifield 5 No. 1 (Site). The Site is a plugged well site in northeast San Juan County, New Mexico (Figures 1 through 3).

Environmental Setting and Site Geology

The area immediately surrounding the Site consists of sparse vegetative cover comprised primarily of scrub brush. Area topography consists of ridges divided by shallow valleys with intermittent streams that flow south into the San Juan River. The Site is situated east of an unnamed mesa, with an average Site elevation of approximately 5,786 feet (ft). The nearest waterway is an unnamed intermittent stream located approximately 1,350 ft west of the Site. The intermittent stream empties into the San Juan River, approximately 3.4 miles south of the Site.

According to the U.S. Department of Agriculture – Natural Resources Conservation Service (USDA-NRCS), the Site soil consists of the Gypsiorthids-Badland-Stumble complex, with 5 to 30 percent slopes. The surface layer consists of sandy loam, underlain by lithic bedrock encountered between 16 to 20 inches below ground surface (bgs). Native salinity of the soil is very slightly saline to slightly saline (2.0 to 4.0 millimhos per centimeter (mmhos/cm)).



Timberwolf Project No. HEC-190009

HEC-190009 January 10, 2025 Page 2

Site History

Release Event

The Fifield 5 No. 1 well has been plugged and all surface equipment removed from the Site; however, Hilcorp's Hali Meador #005R is located immediately west of the Site and remains active. Historically, the Site has consisted of a wellhead, line heater, and separator with the associated below-grade tank (BGT) for produced water, sales meter, and tank battery comprised of one above-ground storage tank (AST) and one BGT. On approximately 06/01/17, removal and closure of the BGT revealed historical contamination beneath the BGT. All surface equipment was removed, and the well was plugged and abandoned.

Investigation and Site Characterization

Initial assessment efforts were conducted by Rule Engineering, LLC (Rule), a subcontractor of ConocoPhillips Company (ConocoPhillips). Hilcorp acquired the property in 2017 and Rule conducted additional assessments in 2018. All findings by Rule Engineering are documented in Timberwolf's *Site Characterization and Remedial Action Plan*, dated February 28, 2019. The initial assessment identified the following constituents of concern (COCs): benzene, toluene, ethylbenzene, and xylene (BTEX) and total petroleum hydrocarbons (TPH).

On March 20, 2019, additional borings were installed at the Site to delineate petroleum hydrocarbon impacts vertically and horizontally in soil. All findings are documented in Timberwolf's *Site Characterization Report and Remedial Action Plan*, dated June 14, 2019.

Remediation – SVE System

In 2019, Hilcorp installed a soil vapor extraction (SVE) system to treat impacted soil related to historical pit tank releases. The SVE system is comprised of 18 SVE wells, 6 vent wells, and an SVE trailer (housing: control valves, flow and vacuum gauges, manifolds, fluid-air separator, automated controls, and a vacuum pump). The system remained inoperative while awaiting a power source.

In September 2021, Hilcorp installed a power source for the SVE system. The power source is a skidmounted gas-fired motor with a pulley and belt drive apparatus to transfer power to a vacuum pump. The new vacuum pump was plumbed into the existing SVE trailer; the automation system was bypassed so that all legs remained open.

Work conducted at this Site is documented in the following reports:

- Site Characterization and Remedial Action Plan, dated 02/28/19
- Site Characterization and Remedial Action Plan, dated 07/14/19
- Status Report 1st Quarter 2020, dated 09/20/21
- Status Report 2nd Quarter 2020, dated 09/27/21
- Status Report 3rd Quarter 2020, dated 09/27/21
- Status Report 4th Quarter 2020, dated 09/27/21
- *Status Report 1^{sr} Quarter 2021*, dated 09/27/21



HEC-190009 January 10, 2025 Page 3

- *Status Report 2nd Quarter 2021,* dated 09/27/21
- *Status Report 3rd Quarter 2021,* dated 11/01/21
- Status Report 4th Quarter 2021, dated 01/29/22
- *Status Report 1^{sr} Quarter 2022,* dated 04/15/22
- *Status Report 2nd Quarter 2022,* dated 07/14/22
- *Status Report 3rd Quarter 2022,* dated 10/14/22
- Status Report 4th Quarter 2022, dated 01/13/23
- *Status Report 1st Quarter 2023,* dated 04/14/23
- *Status Report 2nd Quarter 2023*, dated 07/13/23
- *Status Report 3rd Quarter 2023*, dated 10/11/23
- *Status Report* 4th Quarter 2023, dated 01/08/24
- Status Report 1st Quarter 2024, dated 04/11/24
- *Status Report 2nd Quarter 2024*, dated 07/09/24
- Status Report 3rd Quarter 2024, dated 10/07/24

SVE System Operations

The SVE system is equipped with four independent legs (i.e., Leg 1, Leg 2, Leg 3, and Leg 4). Leg 1 provides vacuum to the shallow wells and Legs 2, 3, and 4 provide vacuum extraction to the deep SVE wells. System automation was incorporated in April 2024; automation was activated on 04/19/24 and programmed to oscillate between Legs 1, 2, 3, and 4 every 6 hours for continuous 24-hr operations. The SVE wells were configured as shown in Figure 4. Programmed runtimes are presented in Table 1 below.

Leg	SVE Wells and Location	Scheduled Runtime	
Leg 1	Shallow SVE Wells S1, S2, S3 and S4 Central and Western side of treatment zone	6 hours	
Leg 2	Deep SVE Wells W1, W5, W6, and W7 Central and Western side of treatment zone	6 hours	
Leg 3	Deep SVE Wells W8, W11, W12 and W13 Southern side of treatment zone	6 hours	
Leg 4	Deep SVE Wells W3 W4 W9 W10 and W14		

SVE - soil vapor extraction

Shallow Well Screen Interval – 7 to 10 ft. Deep Well Screen Interval – 25 to 35 ft.

Water and condensate are recovered with a moisture separator, which is fitted with a 1-inch PVC pipe to transfer recovered fluids to an open-top tank fitted with bird netting. 4 gallons of water and/or condensate were recovered during 4Q24 operation and maintenance (O&M) events and sampling period. SVE system runtime for 4Q24 is documented in Table 2 below.



Page 4 of 52

HEC-190009 January 10, 2025 Page 4

Date	Hour Meter
09/24/2024	6,933
10/10/2024	7,318
10/24/2024	7,650
11/13/2024	8,133
11/20/2024	8,299
12/04/2024	Inoperable
12/20/2024	364
Total Runtime	N/A

Table 2. System Runtime

An hour meter failure occurred on or before 12/04/24; Hilcorp personnel replaced the hour meter on 12/05/24. Additional maintenance during the quarter included replacement of the alternator to restore power to the system's automation on 12/19. Due to the hour meter failure, Cygnet telemetry data was used to verify system runtime for the quarter. Cygnet data showed a total of 6 hours of downtime during the quarter, but otherwise verified continuous operation throughout the quarter. Photographs of relevant meter readings are documented in the attached Photographic Log.

The total hours available during this period were 2,208 hours; considering the 6 hours of verified downtime yields a runtime percentage (%) of 99.7 for 4Q24.

During 4Q24, Hilcorp personnel conducted six (6) operational checks for the quarter. Additionally, one (1) maintenance event was conducted to perform the following activities:

- Installed a new alternator
- Restore power to hour meter

A field log of O&M events and maintenance performed is provided in the attached Table A-1.

Collection and Analysis of Quarterly Soil-Gas Sample

On 11/20/24, a composite soil-gas sample was collected from the SVE system's four Legs. A vacuum pump was connected to the SVE trailer's sampling port, which is situated downstream of the 4-leg manifold and upstream of the air-water separator. The sampling port valve was opened once the pump was activated to purge air within the tubing between the sampling port and Tedlar[®] bag. After purging, the Tedlar[®] bag valve was opened to collect the air sample.

The soil-gas sample (i.e., SVE-1) was transported to Eurofins Albuquerque, located in Albuquerque, New Mexico. Eurofins Albuquerque analyzed the sample for volatile organic compounds (VOCs) and subcontracted other gas analyses to Energy Laboratories in Billings, Montana. All sample transfers were conducted under proper chain-of-custody protocol.

The sample was analyzed for VOCs using EPA Method 8260B, Organic Compounds (GC) by GPA 2261-95, and Gasoline Range Organics by EPA Method 8015D. The laboratory report and chain-of-custody documents are attached.



HEC-190009 January 10, 2025 Page 5

Laboratory results of constituents that exceeded laboratory detection limits are presented in Table 3; analytical results of all constituents are presented in the attached Table A-2.

Constituents	SVE-1			
Volatile Organic Compounds (mg/m ³)				
Benzene	3.3			
Ethylbenzene	2.3			
Isopropyl benzene	0.39			
N-Propyl benzene	0.45			
Toluene	20			
Total Xylenes	31			
1,2-Dichloropropane	0.84			
1,1,2-Trichloroethane	1.1			
1,2,3-Trichloropropane	0.42			
1,2,4-Trimethylbenzene	2.0			
1,3,5-Trimethylbenzene	1.9			
2-Chlorotoluene	0.43			
Gasoline Range (mg/m³)				
TPH (GC-MS) Low Fraction (i.e., GRO)	920			
Gases (Mol %)				
Oxygen	18.92			
Carbon Dioxide	0.09			

Table 3. Quarterly Soil-Gas Analysis – 11/20/24

mg/m³ – milligrams per cubic meter, equivalent to ug/L

TPH - total petroleum hydrocarbons

GC-MS – gas chromatography-mass spectrometry

GRO – gasoline range organics

Mol % – mole percent

Mass Removal

Timberwolf used the laboratory results from the soil-gas analysis (as reported in Table 3), flow rates, and runtimes to calculate constituent mass removal. Mass removal of GRO, BTEX, and associated recovered volumes for 4Q24 are presented in Table 4 below.



HEC-190009 January 10, 2025 Page 6

Table 4. Mass Removal and Associated Volume – 4Q24

Constituent	Mass Removal (kg) ¹	Total Mass Removed (Ibs) ²	Recovered Volume (bbl)
GRO	252.29	555.04	2.06
Benzene	0.90	1.99	0.01
Toluene	5.48	12.07	0.04
Ethylbenzene	0.63	1.39	0.01
Xylenes	8.50	18.70	0.07

¹ Calculation = minutes ran * CFM * Concentration (mg/m³) * 1 M³/35.3147 ft³ *1 g/1000 mg * 1 kg/1000 g

² Calculation = [Mass Removal] * 2.2 lbs/kg

GRO = from TPH (GC/MS) Low Fraction (i.e., gasoline range organics)

kg – kilograms

lbs – pounds

bbl – barrel

Assumptions: • API Gravity = 52

• Concentrations of VOCs in soil-gas vapors have remained static throughout the quarter

 Runtime calculations based on hour meter readings from 09/24/24 to 12/20/24 and Cygnet telemetry data.

Summary

System runtime during 4Q24 was 99.7% based on Cygnet telemetry data for the quarter. Cygnet telemetry showed continuous operation, except for three separate 2-hour downtime events (6 hours total). System maintenance included replacing the hour meter on 12/05/24, and replacing the alternator to restore power to the system's automation on 12/19/24.

During 4Q24, four gallons of water and/or condensate were recovered during O&M events. Additionally, mass removal calculations indicated the following recovery during the quarter:

- 2.06 bbl of GRO
- 1.99 lbs of benzene
- 12.07 lbs of toluene
- 1.39 lbs of ethylbenzene
- 18.70 lbs of xylenes.

Further Actions - 1st Quarter 2025

During 1Q25, the following activities are planned for the Site:

- Conduct bi-weekly Site O&M to ensure proper system function and drain any water/condensate accumulation in the moisture separator as needed
- A Site visit by Timberwolf personnel to ensure system automation is functioning properly
- Collect a quarterly soil-gas sample for laboratory analysis
- Prepare a 1Q25 status report.



Received by OCD: 1/14/2025 8:35:48 AM

HEC-190009 January 10, 2025 Page 7

If you have any questions regarding this report, please call us at (979) 324-2139.

Sincerely, Timberwolf Environmental, LLC

Josh Swaringen Staff Scientist

for short

Jim Foster President

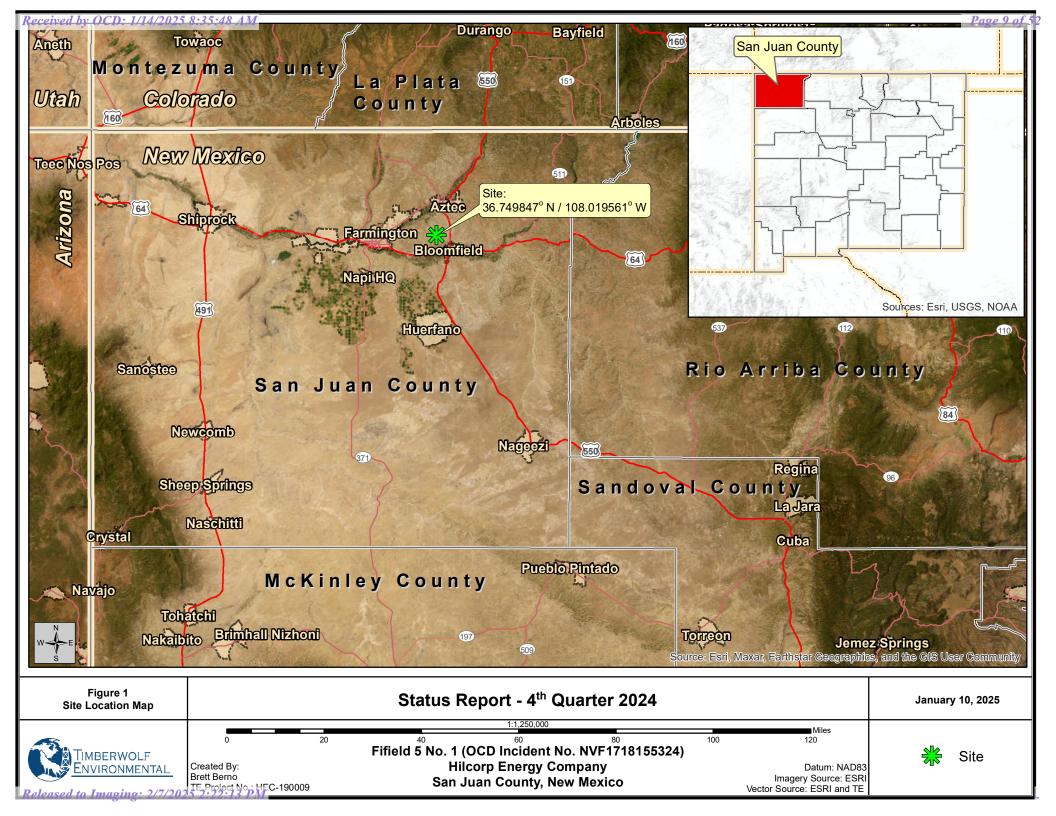
Attachments: Figures Attached Tables Photographic Log Laboratory Report and Chain-of-Custody Documents

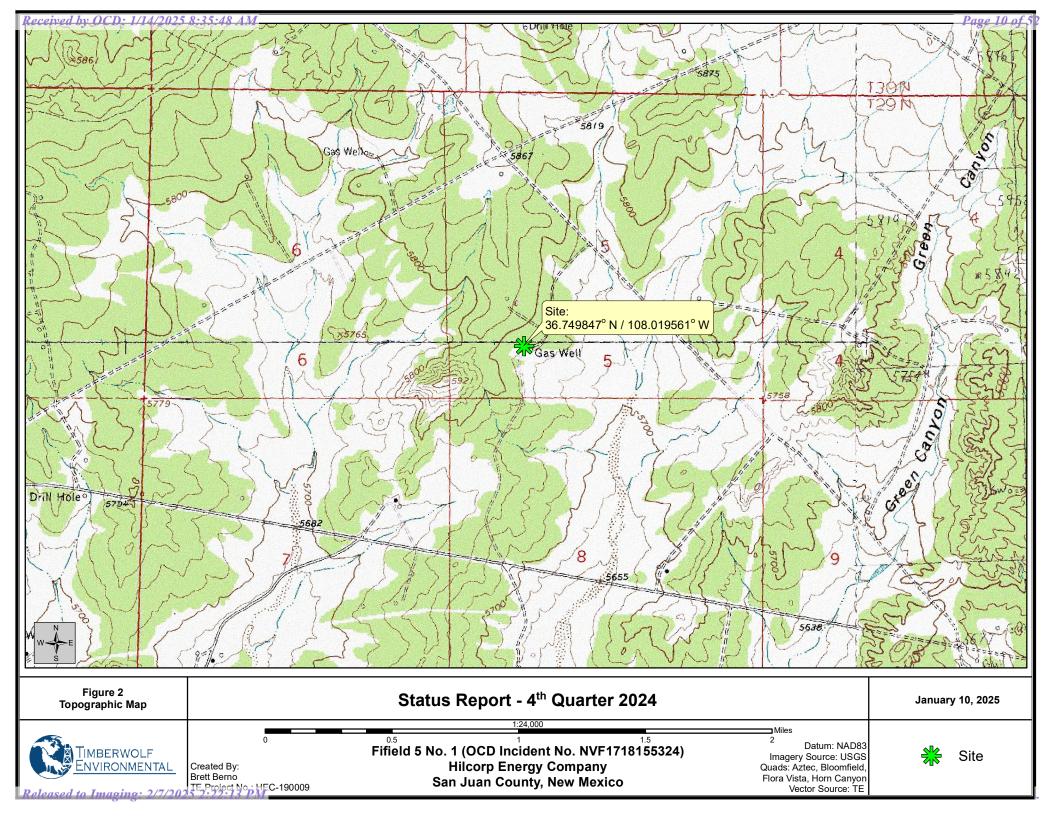
cc: Mitch Killough, Hilcorp Energy Company

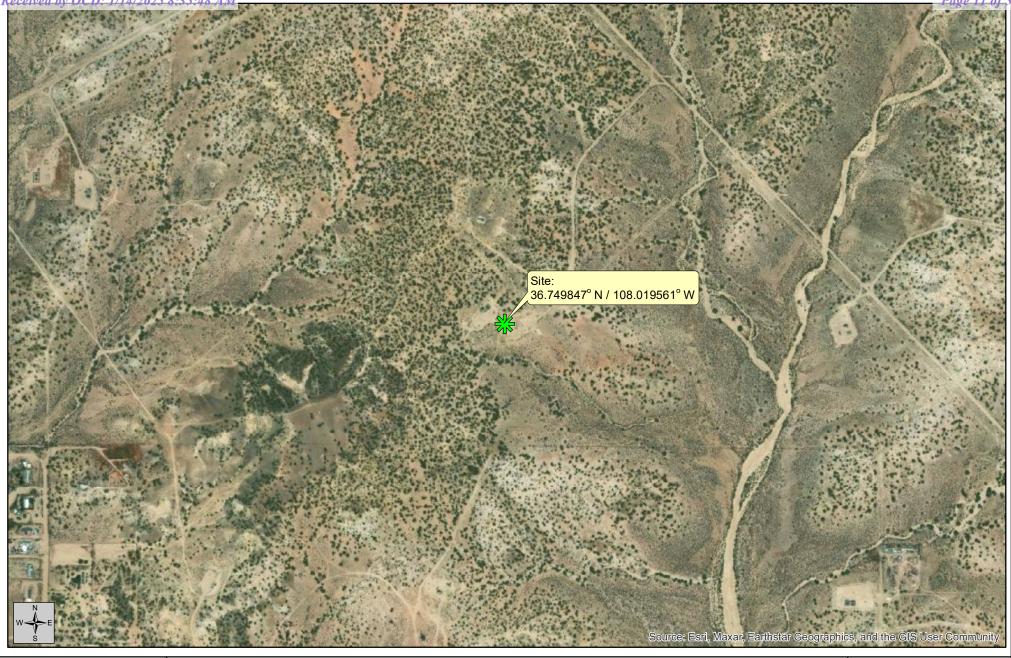


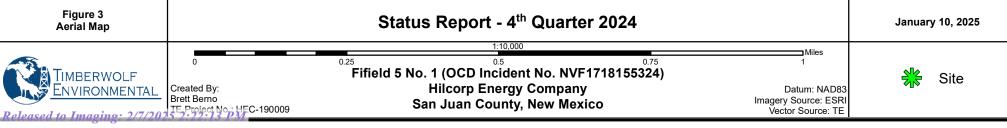
.

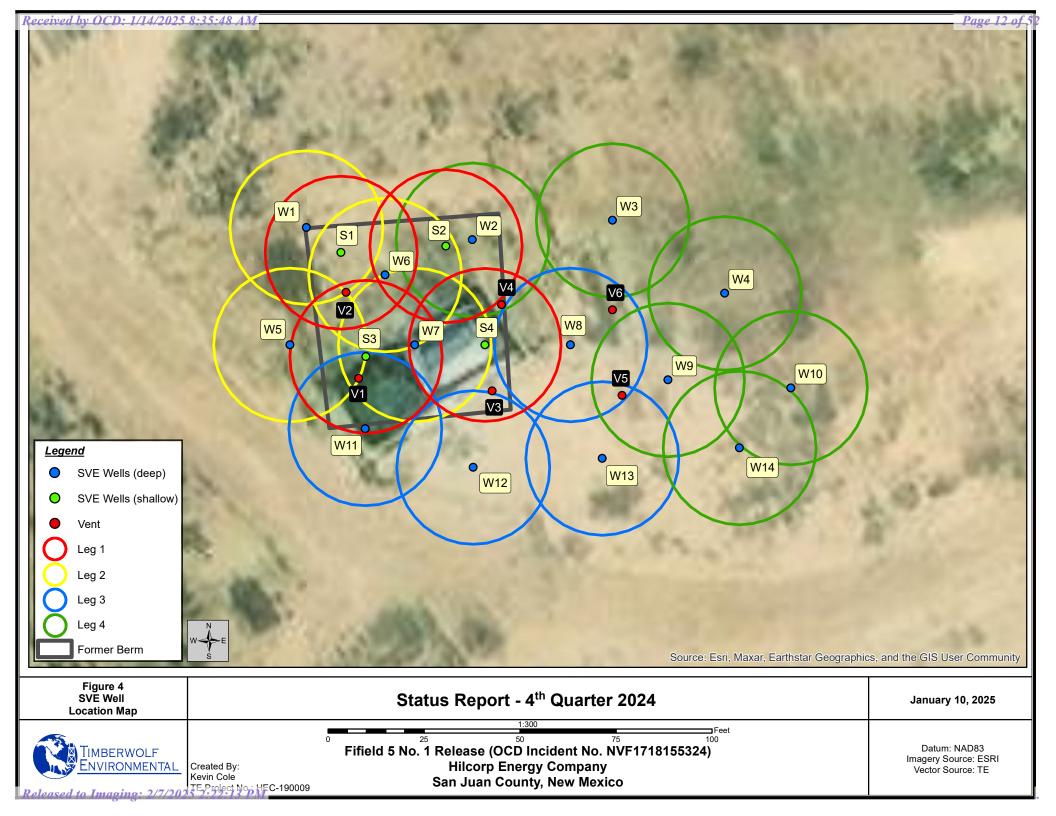
Figures











Attached Tables

Table A-1. Operation and Maintenance EventsStatus Report - 4th Quarter 2024Fifield 5 No. 1 (OCD Incident No. NVF1718155324)San Juan County, New Mexico

Date	Hour Meter (hrs)	Water/Condenstate Recovered (gal)	Maintenance Performed	
09/24/24	6,933	0	Brandon Sinclair with Hilcorp performed SVE system O&M checks.	
10/10/24	7,318	0	Brandon Sinclair with Hilcorp performed SVE system O&M checks.	
10/24/24	7,650	0	Brandon Sinclair with Hilcorp performed SVE system O&M checks.	
11/13/24	8,133	0	Brandon Sinclair with Hilcorp performed SVE system O&M checks.	
11/20/24	8,299	4	Brandon Sinclair with Hilcorp performed SVE system O&M checks; Control Unit off on arrival due to tripped breaker.	
12/04/24		0	• Brandon Sinclair with Hilcorp performed SVE system O&M checks; Hour meter inopera motor still running.	
12/20/24	364	0	 Brandon Sinclair with Hilcorp performed SVE system O&M checks; Wire from meter wrapped around spark plug, to power the meter. Alternator replaced yesterday, but unit still isn't receiving power to the automation. 	



Table A-2. Soil-Gas Analysis - 11/20/24 Status Report - 4th Quarter 2024 Fifield 5 No. 1 (OCD Incident No. NVF1718155324) San Juan County, New Mexico

Volatiles (µg/m ³) Acetone < 2,000 Benzene 3,300 Bromodichloromethane < 200 Bromoform < 200 Bromoform < 200 Bromoform < 200 Bromomethane < 600 Carbon disulfide < 2,000 Carbon tetrachloride < 200 Chlorobenzene < 200 Chlorobenzene < 200 Chlorofm < 200 Chloroform < 200 Chlorotoluene 430 Dibromochloromethane < 200 1,2-Dibromoethane < 200 1,2-Dibromoethane < 200 1,2-Dibromoethane < 200 1,2-Dichlorobenzene < 200 1,3-Dichlorobenzene < 200 1,1-Dichlorobenzene < 200 1,1-Dichlorobenzene < 200 1,1-Dichlorobenzene < 200 1,1-Dichloropenpene < 200 cis-1,2-Dichloropopane < 200 1,1-Dichloropropane < 200 trans-1,3-Dic	Constituents	SVE-1
Benzene 3,300 Bromodichloromethane < 200 Bromoform < 200 Bromomethane < 600 Carbon disulfide < 2,000 Carbon disulfide < 2,000 Carbon disulfide < 200 Chlorobenzene < 200 Chlorobenzene < 200 Chloromethane < 400 Chloromethane < 600 2-Chioroteluene 430 Dibromothlarne < 200 1,2-Dichoromethane < 200 1,2-Dichorobenzene < 200 1,2-Dichlorobenzene < 200 1,2-Dichlorobenzene < 200 1,2-Dichlorobenzene < 200 1,2-Dichlorobenzene < 200 1,1-Dichlorobenzene < 200 1,1-Dichloropethane < 200 1,2-Dichloropropane <	Volatiles (μg/m³)	
Bromodichloromethane < 200	Acetone	< 2,000
Bromoform < 200	Benzene	3,300
Bromomethane < 600	Bromodichloromethane	< 200
Carbon disulfide < 2,000	Bromoform	< 200
Carbon tetrachloride < 200	Bromomethane	< 600
Chlorobenzene < 200	Carbon disulfide	< 2,000
Chloroethane < 400	Carbon tetrachloride	< 200
Chloroform < 200	Chlorobenzene	< 200
Chloromethane < 600	Chloroethane	< 400
2-Chlorotoluene 430 Dibromochloromethane < 200	Chloroform	< 200
Dibromochloromethane < 200	Chloromethane	< 600
1,2-Dibromoethane < 200	2-Chlorotoluene	430
1.2-Dichlorobenzene < 200	Dibromochloromethane	< 200
1,3-Dichlorobenzene < 200	1,2-Dibromoethane	< 200
1,4-Dichlorobenzene < 200	1,2-Dichlorobenzene	< 200
1,2-Dichloroethane < 200	1,3-Dichlorobenzene	< 200
1,1-Dichloroethane < 200	1,4-Dichlorobenzene	< 200
1,1-Dichloroethene < 200	1,2-Dichloroethane	< 200
1,1-Dichloroethene < 200	1,1-Dichloroethane	< 200
cis-1,2-Dichloroethene (cis-1,2-DCE)< 200trans-1,2-Dichloroethene (trans-1,2-DCE)< 200	1,1-Dichloroethene	< 200
trans-1,2-Dichloroethene (trans-1,2-DCE) < 200	1,1-Dichloropropene	< 200
1,2-Dichloropropane8401,2-Dibromo-3-Chloropropane< 400	cis-1,2-Dichloroethene (cis-1,2-DCE)	< 200
1,2-Dibromo-3-Chloropropane< 400cis-1,3-Dichloropropene< 200	trans-1,2-Dichloroethene (trans-1,2-DCE)	< 200
1,2-Dibromo-3-Chloropropane< 400cis-1,3-Dichloropropene< 200	1,2-Dichloropropane	840
trans-1,3-Dichloropropene< 200Ethylbenzene2,300Trichlorofluoromethane< 200		< 400
Ethylbenzene2,300Trichlorofluoromethane< 200	cis-1,3-Dichloropropene	< 200
Trichlorofluoromethane< 200Dichlorodifluoromethane< 200	trans-1,3-Dichloropropene	< 200
Dichlorodifluoromethane< 200Hexachloro-1,3-butadiene< 200	Ethylbenzene	2,300
Dichlorodifluoromethane< 200Hexachloro-1,3-butadiene< 200		< 200
Isopropylbenzene390Methylene Chloride< 600		
Methylene Chloride< 600n-Propylbenzene4502-Butanone (MEK)< 200	Hexachloro-1,3-butadiene	< 200
Methylene Chloride< 600n-Propylbenzene4502-Butanone (MEK)< 200		390
n-Propylbenzene4502-Butanone (MEK)< 200		
2-Butanone (MEK)< 2004-Methyl-2-pentanone (MIBK)< 2000		
4-Methyl-2-pentanone (MIBK)< 2000Methyl-tert-butyl Ether (MTBE)< 2,000		< 200
Methyl-tert-butyl Ether (MTBE) < 2,000		
	Naphthalene	< 400



Table A-2. Soil-Gas Analysis - 11/20/24
Status Report - 4th Quarter 2024
Fifield 5 No. 1 (OCD Incident No. NVF1718155324)
San Juan County, New Mexico

Constituents	SVE-1		
Styrene	< 200		
1,1,1,2-Tetrachloroethane	< 200		
1,1,2,2-Tetrachloroethane	< 400		
Toluene	20,000		
1,1,1-Trichloroethane	< 200		
1,1,2-Trichloroethane	1,100		
1,2,3- Trichloropropane	420		
1,2,4-Trichlorobenzene	< 200		
1,2,4-Trimethylbenzene	2,000		
1,3,5-Trimethylbenzene	1,900		
Vinyl chloride	< 200		
Total Xylenes	31,000		
Gasoline Range (μg/m³)			
Gasoline Range Organics (GRO)	920,000		
Gases (Mol %)			
Oxygen	18.92		
Carbon Dioxide	0.09		
Methane	< 0.01		

µg/m³ – micrograms per cubic meter

Mol % - mole percent



.

Photographic Log



PHOTOGRAPHIC LOG

Project No.:	HEC-190009		Client:	Hilcorp Energy Company
Project Name:	Fifield 5 No. 1		Site Location:	San Juan County, New Mexico
Task Description:		- 4th Quarter 2024	Date:	October – December, 2024
Photo No.:1Direction:N/AComments:View of hour meteron 09/24/24.		169 deg(T)	36.74984°N ACC 108.01961°W DA	CURACY 5 m TUM WGS84
		GAS TACH		024-09-24 04:41-06:00
Photo No.: 2 Direction:		DIRECTION 149 deg(T)	36.74987°N 108.01969°W	ACCURACY 5 m DATUM WGS84
N/A Comments: View of hour meter on 10/10/24.		C C C C C C C C C C C C C C C C C C C	Tach H & HOURMETER	2024-10-10 16:29:26-06:00

.



PHOTOGRAPHIC LOG

Project No.:	HEC-190009		Client:	Hilcorp Energy Company
Project Name:	Fifield 5 No. 1		Site Location:	San Juan County, New Mexico
Task Description:		- 4th Quarter 2024	Date:	October – December, 2024
Photo No.:		DIRECTION		ACCURACY 5 m
3		143 deg(T)	108.01958°W	DATUM WGS84
	1			100
Direction: N/A		and the second second		
	-		And the second s	and the second
Comments:			·	and the second sec
View of hour meter				
on 10/24/24.			List of the wall	
			4 O martin	
		Quarter SELEC	Iny-	
			Tach	
			Iach	
		VI ST	1031	
		CACTIC		
		GAS TACK	H& HOURMETER	
		JA	10	
			Contraction of the local distance of the loc	
				JE STATISTICS
				A Starten Start
		and the second se	and the second of	
		for many	1:	2024-10-24 2:52:48-06:00
Photo No.:				
4		DIRECTION 162 deg(T)	36.74981°N / 108.01959°W	ACCURACY 4 m DATUM WGS84
-	-	A 244 4	a state of the second	
Direction:				Contract of the second s
N/A		and the second sec	and the second	and a second
Comments:				
View of hour meter				
on 11/13/24.			and an	And and a second se
		U. Revenant SEL	ECT INY	
			lac	-6
			Iac	
			and the second second	
		VIEW		
		GAS TA	CH & HOURMETE	ER
			Martin .	
			NO CONTRACTO	
			1	2024-11-13 5:46:51-07:00
	<u> </u>			

.



PHOTOGRAPHIC LOG

Project No.:	HEC-190009		Client:	Hilcorp Energy Company
Project Name:	Fifield 5 No. 1		Site Location:	San Juan County, New Mexico
Task Description:		- 4th Quarter 2024	Date:	October – December, 2024
Photo No.: 5		DIRECTION 169 deg(T)	36.74980°N / 108.01963°W	ACCURACY 4 m DATUM WGS84
5		105 009(1)	100.01905 W	DATOR NOOT
Direction:		The second s	and the second s	
N/A				
Comments: View of hour meter on 11/20/2024.				
		9		2024-11-20 5:27:37-07:00
Photo No.:		DIRECTION	36.74981°N	ACCURACY 4 m
6		113 deg(T)	108.01957°W	DATUM WGS84
Direction: N/A				
Comments: View of hour meter on 12/04/24 – Inoperable.			ACH & HOURMETER	2024-12-04 3:36:12-07:00

•



PHOTOGRAPHIC LOG

HEC-190009		Client:	Hilcorp E	nergy Company
				County, New Mexico
		_		- December, 2024
			ACCURACY 4 m	
	150 deg(1)	00.01938 W	DATOM W0384	
	Dissection of		Carlos Carlos Carlos Carlos Carlos	
		A		
	· · · · · · · · · · · · · · · · · · ·	and and a		
			50	
	Quarter SELECT	liny-	K	
	Activ			
		Tag		
	IUI IUI	-		
			- Par ·	
	GAS TACH &	& HOURMETER		
	A			
	. It		and the second second	
			The second	
-	E		i idinali	
	10 11	No. of the local division of the local divis	State of the second	
		100 C	5-35-22	
	Alexand and a second	8 A. H.		
			2024-12-20	
			14:27:38-07:00	3
1	History Values			
	History Values	1		
	Attribute Name	Configured Attr	ribute Value	
	Attribute Name Site.Service	SJBU.UIS_1		
	Attribute Name Site.Service Long Point ID	SJBU.UIS_1 WIH10031_EVPS		
	Attribute Name Site.Service	SJBU.UIS_1		
	Attribute Name Site.Service Long Point ID Facility ID Uniform Data Code Units	SJBU.UIS_1 WIH10031_EVPS WIH10031 EVPS <none></none>	6	
	Attribute Name Site.Service Long Point ID Facility ID Uniform Data Code Units Description	SJBU.UIS_1 WIH10031_EVPS WIH10031 EVPS <none> Enviro SVE Statu</none>	5	
	Attribute Name Site.Service Long Point ID Facility ID Uniform Data Code Units	SJBU.UIS_1 WIH10031_EVPS WIH10031 EVPS <none></none>	5 III III III III III III III III III I	
	Attribute Name Site.Service Long Point ID Facility ID Uniform Data Code Units Description Point Scheme	SJBU.UIS_1 WIH10031_EVPS VIH10031 EVPS (none> Enviro SVE Statu COP Enhanced ()	5	
	Attribute Name Site.Service Long Point ID Facility ID Uniform Data Code Units Description	SJBU.UIS_1 WIH10031_EVPS VIH10031 EVPS (none> Enviro SVE Statu COP Enhanced ()	5	
	Attribute Name Site.Service Long Point ID Facility ID Uniform Data Code Units Description Point Scheme Timestamp (descendin 1/9/2025 04:30:58.376	SJBU.UIS_1 WIH10031_EVP3 WIH10031 EVPS <none> Enviro SVE Statu COP Enhanced (; g) Value Po ON Un</none>	S ≡ s 2) v int State ^ nreliable	
	Attribute Name Site.Service Long Point ID Facility ID Uniform Data Code Units Description Point Scheme Timestamp (descendin 1/9/2025 04:30:58.376 12/17/2024 14:25:25.8	SJBU.UIS_1 WIH10031_EVP3 VIH10031 EVPS <none> Enviro SVE Statu COP Enhanced (;</none>	S ≡ s 2) v int State ^ rreliable umeration Norm	
	Attribute Name Site.Service Long Point ID Facility ID Uniform Data Code Units Description Point Scheme Timestamp (descendin 12/17/2024 14:25:25.8 12/17/2024 12:25:35.9	SJBU.UIS_1 WIH10031_EVPS VIH10031 EVPS (none> Enviro SVE Statu COP Enhanced (;	S ≡ s 2) v wint State ^ wreliable umeration Norm umeration Alarm	
	Attribute Name Site.Service Long Point ID Facility ID Uniform Data Code Units Description Point Scheme Timestamp (descendin 12/17/2024 14:25:25.8 12/17/2024 12:25:35.9 11/29/2024 12:25:31.8	SJBU.UIS_1 WIH10031_EVPS VIH10031 EVPS (none> Enviro SVE Statu COP Enhanced () 9) Value Po 0 0 Un 28 ON En 73 OFF En 57 ON En	S ≡ IS 2) ✓ int State ^ Incliable umeration Norm umeration Norm	
	Attribute Name Site.Service Long Point ID Facility ID Uniform Data Code Units Description Point Scheme Timestamp (descendin 1/9/2025 04:30:58:376 12/17/2024 14:25:25.8 12/17/2024 14:25:35.9 11/29/2024 12:25:31.8 11/29/2024 10:25:26.6	SJBU.UIS_1 WIH10031_EVPS VIH10031 EVPS (none) Enviro SVE Statu COP Enhanced (2 0 0 0 0 0 0 0 0 0 0 0 0 0	S ≡ is 2) ✓ int State ^ ireliable umeration Norm umeration Norm umeration Alarm	
	Attribute Name Site.Service Long Point ID Facility ID Uniform Data Code Units Description Point Scheme Timestamp (descendin 1/9/2025 04:30:58:376 12/17/2024 14:25:25.8 12/17/2024 14:25:35.9 11/29/2024 12:25:31.8 11/29/2024 10:25:26.6 11/28/2024 18:25:34.9	SJBU.UIS_1 WIH10031_EVPS VIH10031 EVPS (none> Enviro SVE Statu COP Enhanced (2 0 0 0 0 0 0 0 0 0 0 0 0 0	S ≡ is 2) ✓ int State ^ ireliable umeration Norm umeration Alarm umeration Norm umeration Norm	
	Attribute Name Site.Service Long Point ID Facility ID Uniform Data Code Units Description Point Scheme Timestamp (descendin 1/9/2025 04:30:58.376 12/17/2024 14:25:25.8 12/17/2024 12:25:35.9 11/29/2024 12:25:31.8 11/29/2024 10:25:26.6 11/28/2024 14:30:58.3 11/28/2024 14:30:58.3	SJBU.UIS_1 WIH10031_EVPS (none) Enviro SVE Statu COP Enhanced (i 0) Value Po 0N Un 28 ON En 13 OFF En 57 ON En 46 OFF En 95 ON En 18 ON Un	S ≡ s 2) ✓ vint State ^ ureliable // umeration Norm umeration Alarm umeration Norm umeration Norm umeration Norm	
	Attribute Name Site.Service Long Point ID Facility ID Uniform Data Code Units Description Point Scheme Timestamp (descendin 1/9/2025 04:30:58:376 12/17/2024 14:25:25.8 12/17/2024 14:25:35.9 11/29/2024 12:25:31.8 11/29/2024 10:25:26.6 11/28/2024 18:25:34.9	SJBU.UIS_1 WIH10031_EVPS (none) Enviro SVE Statu CDP Enhanced (i 0) Value 9) Value 73 OFF 73 OFF 95 ON 97 OFF 13 OFF 146 OFF 18 ON 18 ON 10 ON	S ≡ is 2) ✓ int State ^ ireliable umeration Norm umeration Alarm umeration Norm umeration Norm	
	Attribute Name Site.Service Long Point ID Facility ID Uniform Data Code Units Description Point Scheme Timestamp (descendin 1/9/2025 04:30:58.376 12/17/2024 14:25:25.8 12/17/2024 12:25:31.8 11/29/2024 12:25:34.9 11/28/2024 18:25:34.9 11/28/2024 14:30:58.3 11/21/2024 12:25:46.6	SJBU.UIS_1 WIH10031_EVPS (none) Enviro SVE Statu COP Enhanced (COP Enhan	6	
	Attribute Name Site.Service Long Point ID Facility ID Uniform Data Code Units Description Point Scheme Timestamp (descendin 1/9/2025 04:30:58.376 12/17/2024 12:25:35.9 11/29/2024 12:25:31.8 11/29/2024 12:25:34.9 11/28/2024 14:30:58.3 11/28/2024 14:30:58.3 11/21/2024 12:25:46.6 11/20/2024 12:25:29.5	SJBU.UIS_1 WIH10031_EVPS (none) Enviro SVE Statu COP Enhanced (COP Enhan	6	
	Attribute Name Site.Service Long Point ID Facility ID Uniform Data Code Units Description Point Scheme Timestamp (descendin 1/9/2025 04:30:58.376 12/17/2024 14:25:25.6 11/29/2024 12:25:31.8 11/29/2024 12:25:34.9 11/28/2024 14:30:58.3 11/28/2024 14:30:58.3 11/22/2024 12:25:26.5 11/20/2024 12:25:26.5 11/20/2024 12:25:26.3 11/7/2024 11:37:51.18 11/7/2024 10:31:19.09	SJBU.UIS_1 WIH10031_EVPS VIH10031 EVPS COP Enhanced (COP	is 2) ✓ int State ^ vreliable umeration Norm umeration Alarm umeration Norm umeration Norm	
	Attribute Name Site.Service Long Point ID Facility ID Uniform Data Code Units Description Point Scheme Timestamp (descendin 1/9/2025 04:30:58.376 12/17/2024 14:25:25.6 12/27/2024 12:25:31.8 11/29/2024 12:25:26.6 11/28/2024 12:25:26.6 11/28/2024 12:25:26.5 11/20/2024 12:25:26.5 11/20/2024 12:25:26.5 11/20/2024 12:25:26.5 11/20/2024 11:37:51.18 11/7/2024 10:31:19.09 11/3/2024 20:25:26.69	SJBU.UIS_1 WIH10031_EVPS VIH10031 EVPS COP Enhanced (COP	is 2) ✓ int State ^ urefiable umeration Norm umeration Alarm umeration Norm umeration Norm	
	Attribute Name Site.Service Long Point ID Facility ID Uniform Data Code Units Description Point Scheme Timestamp (descendin 12/17/2024 14:25:25.8 12/17/2024 14:25:35.9 11/29/2024 12:25:31.8 11/29/2024 12:25:31.8 11/29/2024 12:25:45.9 11/28/2024 14:30:58.3 11/21/2024 12:25:45.9 11/20/2024 12:25:26.5 11/20/2024 12:25:26.5 11/20/2024 12:25:26.5 11/20/2024 10:25:26.5 11/20/2024 10:31:19.09 11/3/2024 00:25:26.69 11/3/2024 18:31:18.72	SJBU.UIS_1 WIH10031_EVP3 VIH10031 EVPS Cone> Enviro SVE Statu COP Enhanced (; COP En	is 22) ✓ int State ^ int State ^ int State ^ umeration Norm umeration Alarm umeration Norm umeration Norm	
	Attribute Name Site.Service Long Point ID Facility ID Uniform Data Code Units Description Point Scheme Timestamp (descendin 1/9/2025 04:30:58.376 12/17/2024 14:25:25.6 12/27/2024 12:25:31.8 11/29/2024 12:25:26.6 11/28/2024 12:25:26.6 11/28/2024 12:25:26.5 11/20/2024 12:25:26.5 11/20/2024 12:25:26.5 11/20/2024 12:25:26.5 11/20/2024 11:37:51.18 11/7/2024 10:31:19.09 11/3/2024 20:25:26.69	SJBU.UIS_1 WIH10031_EVPS VIH10031 EVPS Enviro SVE Statu COP Enhanced (;	is 2) ✓ int State ^ urefiable umeration Norm umeration Alarm umeration Norm umeration Norm	
	Fifield 5 No. 1	Fifield 5 No. 1 Status Report – 4th Quarter 2024 DIRECTION 3 156 deg(T) 1 Status Select	Fifield 5 No. 1 Site Locatio Status Report – 4th Quarter 2024 Date: DIRECTION 36,74983°N 156 deg(T) 36,01958°W Image: Select Transformed Select Tra	Fifield 5 No. 1 Site Location: San Juan Status Report – 4th Quarter 2024 Date: October – DIRECTION 36.74983°N ACCURACY 4 m 156 deg(T) 36.74983°N ACCURACY 4 m DATUM W6584 DATUM W6584

.

Laboratory Report and Chain-of-Custody Documents

Received by OCD: 1/14/2025 8:35:48 AM



Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Mitch Killough Hilcorp Energy PO BOX 4700 Farmington, New Mexico 87499 Generated 12/9/2024 5:33:49 PM

JOB DESCRIPTION

Fifield 5 #1

JOB NUMBER

885-15769-1

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

Juhelle (parica

(505)345-3975

Generated 12/9/2024 5:33:49 PM

Authorized for release by Michelle Garcia, Project Manager michelle.garcia@et.eurofinsus.com

Laboratory Job ID: 885-15769-1

Page 25 of 52

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	6
QC Sample Results	8
QC Association Summary	16
Lab Chronicle	17
Certification Summary	18
Subcontract Data	21
Chain of Custody	28
Receipt Checklists	29

Definitions/Glossary

Client: Hilcorp Energy Project/Site: Fifield 5 #1

QC

RER

RL RPD

TEF

TEQ

TNTC

Job ID: 885-15769-1

Project/Site:	Fifield 5 #1	
Glossary		3
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	5
CFU	Colony Forming Unit	5
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	0
DLC	Decision Level Concentration (Radiochemistry)	ŏ
EDL	Estimated Detection Limit (Dioxin)	
LOD	Limit of Detection (DoD/DOE)	9
LOQ	Limit of Quantitation (DoD/DOE)	
MCL	EPA recommended "Maximum Contaminant Level"	
MDA	Minimum Detectable Activity (Radiochemistry)	
MDC	Minimum Detectable Concentration (Radiochemistry)	
MDL	Method Detection Limit	
ML	Minimum Level (Dioxin)	
MPN	Most Probable Number	
MQL	Method Quantitation Limit	
NC	Not Calculated	
ND	Not Detected at the reporting limit (or MDL or EDL if shown)	
NEG	Negative / Absent	
POS	Positive / Present	
PQL	Practical Quantitation Limit	

Presumptive

Quality Control

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

Case Narrative

Job ID: 885-15769-1

Job ID: 885-15769-1

Eurofins Albuquerque

Page 27 of 52

Job Narrative 885-15769-1

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 11/22/2024 6:15 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 1.2°C.

Subcontract Work

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

Gasoline Range Organics

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

GC/MS VOA

Method 8260B: The CCVIS and method blank (MB) for analytical batch 885-16626 contained Methylene Chloride above the reporting limit (RL). This compound is considered a common laboratory contaminant associated with DI system maintenance. The associated samples were ND or below reporting limits for the affected analyte and therefore not re-analyzed except for 885-15869-1, which was reanalyzed to confirm the hit. Reporting limits were raised accordingly for the MB.

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

Job ID: 885-15769-1

Lab Sample ID: 885-15769-1

Matrix: Air

5

Client: Hilcorp Energy Project/Site: Fifield 5 #1

Client Sample ID: SVE-1 Date Collected: 11/20/24 15:30 Date Paceived: 11/22/24 06:15

Date Re	ceived: 11/2	22/24 06	:15
Sample	Container:	Tedlar	Bag 1L

Method: SW846 8015M/D - No Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	920		10	ug/L		-	11/22/24 16:38	2
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		52 - 172			•	11/22/24 16:38	- 2
Method: SW846 8260B - Vola			ds (GC/MS)					
Analyte		Qualifier	RL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.20	ug/L			11/22/24 16:38	2
1,1,1-Trichloroethane	ND		0.20	ug/L			11/22/24 16:38	2
1,1,2,2-Tetrachloroethane	ND		0.40	ug/L			11/22/24 16:38	2
1,1,2-Trichloroethane	1.1		0.20	ug/L			11/22/24 16:38	2
1,1-Dichloroethane	ND		0.20	ug/L			11/22/24 16:38	2
1,1-Dichloroethene	ND		0.20	ug/L			11/22/24 16:38	2
1,1-Dichloropropene	ND		0.20	ug/L			11/22/24 16:38	2
1,2,3-Trichlorobenzene	ND		0.20	ug/L			11/22/24 16:38	2
1,2,3-Trichloropropane	0.42		0.40	ug/L			11/22/24 16:38	2
1,2,4-Trichlorobenzene	ND		0.20	ug/L			11/22/24 16:38	2
1,2,4-Trimethylbenzene	2.0		0.20	ug/L			11/22/24 16:38	2
1,2-Dibromo-3-Chloropropane	ND		0.40	ug/L			11/22/24 16:38	2
1,2-Dibromoethane (EDB)	ND		0.20	ug/L			11/22/24 16:38	2
1,2-Dichlorobenzene	ND		0.20	ug/L			11/22/24 16:38	2
1,2-Dichloroethane (EDC)	ND		0.20	ug/L			11/22/24 16:38	2
1,2-Dichloropropane	0.84		0.20	ug/L			11/22/24 16:38	2
1,3,5-Trimethylbenzene	1.9		0.20	ug/L			11/22/24 16:38	2
1,3-Dichlorobenzene	ND		0.20	ug/L			11/22/24 16:38	2
1,3-Dichloropropane	ND		0.20	ug/L			11/22/24 16:38	2
1,4-Dichlorobenzene	ND		0.20	ug/L			11/22/24 16:38	2
1-Methylnaphthalene	ND		0.80	ug/L			11/22/24 16:38	2
2,2-Dichloropropane	ND		0.40	ug/L			11/22/24 16:38	2
2-Butanone	ND		2.0	ug/L			11/22/24 16:38	2
2-Chlorotoluene	0.43		0.20	ug/L			11/22/24 16:38	2
2-Hexanone	ND		2.0	ug/L			11/22/24 16:38	2
2-Methylnaphthalene	ND		0.80	ug/L			11/22/24 16:38	2
4-Chlorotoluene	ND		0.20	ug/L			11/22/24 16:38	2
4-Isopropyltoluene	ND		0.20	ug/L			11/22/24 16:38	2
4-Methyl-2-pentanone	ND		2.0	ug/L			11/22/24 16:38	2
Acetone	ND		2.0	ug/L			11/22/24 16:38	2
Benzene	3.3		0.20	ug/L			11/22/24 16:38	2
Bromobenzene	ND		0.20	ug/L			11/22/24 16:38	2
Bromodichloromethane	ND		0.20	ug/L			11/22/24 16:38	2
Dibromochloromethane	ND		0.20	ug/L			11/22/24 16:38	2
Bromoform	ND		0.20	ug/L			11/22/24 16:38	2
Bromomethane	ND		0.60	ug/L			11/22/24 16:38	2
Carbon disulfide	ND		2.0	ug/L			11/22/24 16:38	2
Carbon tetrachloride	ND		0.20	ug/L			11/22/24 16:38	2
Chlorobenzene	ND		0.20	ug/L			11/22/24 16:38	2
Chloroethane	ND		0.40	ug/L			11/22/24 16:38	2
Chloroform	ND		0.20	ug/L			11/22/24 16:38	2

Eurofins Albuquerque

Released to Imaging: 2/7/2025 2:22:13 PM

Client: Hilcorp Energy

Project/Site: Fifield 5 #1

Client Sample ID: SVE-1

Date Collected: 11/20/24 15:30

Job ID: 885-15769-1

Lab Sample ID: 885-15769-1

5-15769-1 Matrix: Air

Date Received: 11/22/24 06:15	
Sample Container: Tedlar Bag 1L	
Method: SW846 8260B - Volatile Organic Compounds (GC/MS)	(Continued

Analyte	_	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		0.60	ug/L			11/22/24 16:38	2
cis-1,2-Dichloroethene	ND		0.20	ug/L			11/22/24 16:38	2
cis-1,3-Dichloropropene	ND		0.20	ug/L			11/22/24 16:38	2
Dibromomethane	ND		0.20	ug/L			11/22/24 16:38	2
Dichlorodifluoromethane	ND		0.20	ug/L			11/22/24 16:38	2
Ethylbenzene	2.3		0.20	ug/L			11/22/24 16:38	2
Hexachlorobutadiene	ND		0.20	ug/L			11/22/24 16:38	2
Isopropylbenzene	0.39		0.20	ug/L			11/22/24 16:38	2
Methyl-tert-butyl Ether (MTBE)	ND		0.20	ug/L			11/22/24 16:38	2
Methylene Chloride	ND		0.60	ug/L			11/22/24 16:38	2
n-Butylbenzene	ND		0.60	ug/L			11/22/24 16:38	2
N-Propylbenzene	0.45		0.20	ug/L			11/22/24 16:38	2
Naphthalene	ND		0.40	ug/L			11/22/24 16:38	2
sec-Butylbenzene	ND		0.20	ug/L			11/22/24 16:38	2
Styrene	ND		0.20	ug/L			11/22/24 16:38	2
tert-Butylbenzene	ND		0.20	ug/L			11/22/24 16:38	2
Tetrachloroethene (PCE)	ND		0.20	ug/L			11/22/24 16:38	2
Toluene	20		2.0	ug/L			11/26/24 12:15	20
trans-1,2-Dichloroethene	ND		0.20	ug/L			11/22/24 16:38	2
trans-1,3-Dichloropropene	ND		0.20	ug/L			11/22/24 16:38	2
Trichloroethene (TCE)	ND		0.20	ug/L			11/22/24 16:38	2
Trichlorofluoromethane	ND		0.20	ug/L			11/22/24 16:38	2
Vinyl chloride	ND		0.20	ug/L			11/22/24 16:38	2
Xylenes, Total	31		0.30	ug/L			11/22/24 16:38	2
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		70 - 130		-		11/22/24 16:38	2
1,2-Dichloroethane-d4 (Surr)	95		70 - 130				11/26/24 12:15	20
Toluene-d8 (Surr)	124		70 - 130				11/22/24 16:38	2
Toluene-d8 (Surr)	103		70 - 130				11/26/24 12:15	20
4-Bromofluorobenzene (Surr)	111		70 - 130				11/22/24 16:38	2
4-Bromofluorobenzene (Surr)	97		70 - 130				11/26/24 12:15	20

70 - 130

70 - 130

97

99

11/22/24 16:38

11/26/24 12:15

2

20

Released to Imaging: 2/7/2025 2:22:13 PM

Dibromofluoromethane (Surr)

Dibromofluoromethane (Surr)

Job ID: 885-15769-1

Client Sample ID: Method Blank

Client: Hilcorp Energy Project/Site: Fifield 5 #1

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

Lab Sample ID: MB 885-1659 Matrix: Air Analysis Batch: 16598	98/4						CI	ient Sam	ple ID: Metho Prep Type: T	
	MB	MB								
Analyte	Result	Qualifier	RL		Unit)	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0		ug/L				11/22/24 14:38	1
	MB	MB								
Surrogate	%Recovery	Qualifier	Limits					Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	80		52 - 172						11/22/24 14:38	1
Lab Sample ID: LCS 885-165 Matrix: Air Analysis Batch: 16598	598/3					Clier	nt Sa	ample ID:	Lab Control	
			Spike	LCS	LCS				%Rec	
Analyte			Added	Result	Qualifier	Unit	D) %Rec	Limits	
Gasoline Range Organics [C6 - C10]			4250	4260		ug/L		100	70 - 130	
	LCS LC	s								
Surrogate	%Recovery Qu	alifier	Limits							
4-Bromofluorobenzene (Surr)	87		52 - 172							

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

Lab Sample ID: MB 885-16467/1006

Matrix: Air							Prep Type: To	otal/NA
Analysis Batch: 16467	МВ	МВ						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.10	ug/L			11/22/24 14:38	1
1,1,1-Trichloroethane	ND		0.10	ug/L			11/22/24 14:38	1
1,1,2,2-Tetrachloroethane	ND		0.20	ug/L			11/22/24 14:38	1
1,1,2-Trichloroethane	ND		0.10	ug/L			11/22/24 14:38	1
1,1-Dichloroethane	ND		0.10	ug/L			11/22/24 14:38	1
1,1-Dichloroethene	ND		0.10	ug/L			11/22/24 14:38	1
1,1-Dichloropropene	ND		0.10	ug/L			11/22/24 14:38	1
1,2,3-Trichlorobenzene	ND		0.10	ug/L			11/22/24 14:38	1
1,2,3-Trichloropropane	ND		0.20	ug/L			11/22/24 14:38	1
1,2,4-Trichlorobenzene	ND		0.10	ug/L			11/22/24 14:38	1
1,2,4-Trimethylbenzene	ND		0.10	ug/L			11/22/24 14:38	1
1,2-Dibromo-3-Chloropropane	ND		0.20	ug/L			11/22/24 14:38	1
1,2-Dibromoethane (EDB)	ND		0.10	ug/L			11/22/24 14:38	1
1,2-Dichlorobenzene	ND		0.10	ug/L			11/22/24 14:38	1
1,2-Dichloroethane (EDC)	ND		0.10	ug/L			11/22/24 14:38	1
1,2-Dichloropropane	ND		0.10	ug/L			11/22/24 14:38	1
1,3,5-Trimethylbenzene	ND		0.10	ug/L			11/22/24 14:38	1
1,3-Dichlorobenzene	ND		0.10	ug/L			11/22/24 14:38	1
1,3-Dichloropropane	ND		0.10	ug/L			11/22/24 14:38	1
1,4-Dichlorobenzene	ND		0.10	ug/L			11/22/24 14:38	1
1-Methylnaphthalene	ND		0.40	ug/L			11/22/24 14:38	1
2,2-Dichloropropane	ND		0.20	ug/L			11/22/24 14:38	1
2-Butanone	ND		1.0	ug/L			11/22/24 14:38	1
2-Chlorotoluene	ND		0.10	ug/L			11/22/24 14:38	1
2-Hexanone	ND		1.0	ug/L			11/22/24 14:38	1

Eurofins Albuquerque

Released to Imaging: 2/7/2025 2:22:13 PM

Client: Hilcorp Energy Project/Site: Fifield 5 #1

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

ND

109

93

91

108

%Recovery

MB MB

Qualifier

Lab Sample ID: MB 885-16467/1006 Matrix: Air

Analysis E

Dibromomethane

Ethvlbenzene

Dichlorodifluoromethane

Methyl-tert-butyl Ether (MTBE)

Hexachlorobutadiene

Isopropylbenzene

Methylene Chloride

n-Butylbenzene

Naphthalene

Styrene

Toluene

N-Propylbenzene

sec-Butylbenzene

tert-Butylbenzene

Tetrachloroethene (PCE)

trans-1,2-Dichloroethene

trans-1,3-Dichloropropene

1,2-Dichloroethane-d4 (Surr)

4-Bromofluorobenzene (Surr)

Dibromofluoromethane (Surr)

Trichloroethene (TCE)

Trichlorofluoromethane

Vinyl chloride

Xylenes, Total

Surrogate

Toluene-d8 (Surr)

Client Sam	ple ID: Method Blank
	Prep Type: Total/NA

Analysis Batch: 16467								
	MB	МВ						
Analyte F	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		0.40	ug/L			11/22/24 14:38	1
4-Chlorotoluene	ND		0.10	ug/L			11/22/24 14:38	1
4-Isopropyltoluene	ND		0.10	ug/L			11/22/24 14:38	1
4-Methyl-2-pentanone	ND		1.0	ug/L			11/22/24 14:38	1
Acetone	ND		1.0	ug/L			11/22/24 14:38	1
Benzene	ND		0.10	ug/L			11/22/24 14:38	1
Bromobenzene	ND		0.10	ug/L			11/22/24 14:38	1
Bromodichloromethane	ND		0.10	ug/L			11/22/24 14:38	1
Dibromochloromethane	ND		0.10	ug/L			11/22/24 14:38	1
Bromoform	ND		0.10	ug/L			11/22/24 14:38	1
Bromomethane	ND		0.30	ug/L			11/22/24 14:38	1
Carbon disulfide	ND		1.0	ug/L			11/22/24 14:38	1
Carbon tetrachloride	ND		0.10	ug/L			11/22/24 14:38	1
Chlorobenzene	ND		0.10	ug/L			11/22/24 14:38	1
Chloroethane	ND		0.20	ug/L			11/22/24 14:38	1
Chloroform	ND		0.10	ug/L			11/22/24 14:38	1
Chloromethane	ND		0.30	ug/L			11/22/24 14:38	1
cis-1,2-Dichloroethene	ND		0.10	ug/L			11/22/24 14:38	1
cis-1,3-Dichloropropene	ND		0.10	ug/L			11/22/24 14:38	1

0.10

0.10

0.10

0.10

0.10

0.10

0.30

0.30

0.10

0.20

0.10

0.10

0.10

0.10

0.10

0.10

0.10

0.10

0 10

0.10

0.15

Limits

70 - 130

70 - 130

70 - 130

70 - 130

ug/L

6

Job ID: 885-15769-1

1

1

1

1

1

1

1

1

1

1

1

1

1

1

1

1

1

1

1

1

1

1

1

1

1

Dil Fac

11/22/24 14:38

11/22/24 14:38

11/22/24 14:38

11/22/24 14:38

11/22/24 14:38

11/22/24 14:38

11/22/24 14:38

11/22/24 14:38

11/22/24 14:38

11/22/24 14:38

11/22/24 14:38

11/22/24 14:38

11/22/24 14:38

11/22/24 14:38

11/22/24 14:38

11/22/24 14:38

11/22/24 14:38

11/22/24 14:38

11/22/24 14:38

11/22/24 14:38

11/22/24 14:38

Analyzed

11/22/24 14:38

11/22/24 14:38

11/22/24 14:38

11/22/24 14:38

Prepared

Eurofins Albuquerque

Released to Imaging: 2/7/2025 2:22:13 PM

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

MB MB

Lab Sample ID: MB 885-16467/6 Matrix: Air

Analysis Batch: 16467

Job	ID:	885-	157	69-1

Page 32 of 52

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

6

	Qualifier R			Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane ND	1.	•			11/22/24 14:38	1
1,1,1-Trichloroethane ND	1.	0			11/22/24 14:38	1
1,1,2,2-Tetrachloroethane ND	2.	0 ug/	/L		11/22/24 14:38	1
1,1,2-Trichloroethane ND	1.	0 ug/	/L		11/22/24 14:38	1
1,1-Dichloroethane ND	1.	0 ug/	/L		11/22/24 14:38	1
1,1-Dichloroethene ND	1.	0 ug/	/L		11/22/24 14:38	1
1,1-Dichloropropene ND	1.	0 ug/	/L		11/22/24 14:38	1
1,2,3-Trichlorobenzene ND	1.	0 ug/	/L		11/22/24 14:38	1
1,2,3-Trichloropropane ND	2.	0 ug/	/L		11/22/24 14:38	1
1,2,4-Trichlorobenzene ND	1.	0 ug/	L.		11/22/24 14:38	1
1,2,4-Trimethylbenzene ND	1.	0 ug/	/L		11/22/24 14:38	1
1,2-Dibromo-3-Chloropropane ND	2.	0 ug/	/L		11/22/24 14:38	1
1,2-Dibromoethane (EDB) ND	1.	0 ug/	/L		11/22/24 14:38	1
1,2-Dichlorobenzene ND	1.	0 ug/	/L		11/22/24 14:38	1
1,2-Dichloroethane (EDC) ND	1.				11/22/24 14:38	1
1,2-Dichloropropane ND	1.	0 ug/	L		11/22/24 14:38	1
1,3,5-Trimethylbenzene ND	1.	0 ug/	/L		11/22/24 14:38	1
1,3-Dichlorobenzene ND	1.				11/22/24 14:38	1
1,3-Dichloropropane ND	1.	0 ug/	/L		11/22/24 14:38	1
1,4-Dichlorobenzene ND	1.				11/22/24 14:38	1
1-Methylnaphthalene ND	4.				11/22/24 14:38	1
2,2-Dichloropropane ND	2.				11/22/24 14:38	1
2-Butanone ND	1	0			11/22/24 14:38	1
2-Chlorotoluene ND	1.	0			11/22/24 14:38	1
2-Hexanone ND					11/22/24 14:38	1
2-Methylnaphthalene ND	4.	0			11/22/24 14:38	1
4-Chlorotoluene ND		0			11/22/24 14:38	1
4-Isopropyltoluene ND	 1.				11/22/24 14:38	1
4-Methyl-2-pentanone ND	1.				11/22/24 14:38	1
Acetone ND	1	0			11/22/24 14:38	1
Benzene ND		- J.			11/22/24 14:38	1
Bromobenzene ND	1.				11/22/24 14:38	1
Bromodichloromethane ND	1.	0			11/22/24 14:38	1
Dibromochloromethane ND	 1. ا				11/22/24 14:38	1
Bromoform ND		•			11/22/24 14:38	-
	1.	0				1
Bromomethane ND	3.	· · · · · · · · · · · · · · · · · · ·			11/22/24 14:38	1
Carbon disulfide ND	1	e e			11/22/24 14:38	1
Carbon tetrachloride ND	1.	0			11/22/24 14:38	1
Chlorobenzene ND	1.				11/22/24 14:38	1
Chloroethane ND	2.	-			11/22/24 14:38	1
Chloroform ND	1.	0			11/22/24 14:38	1
Chloromethane ND	3.	· · · · · · · · · · · · · · · · · · ·	/L		11/22/24 14:38	1
cis-1,2-Dichloroethene ND	1.	0			11/22/24 14:38	1
cis-1,3-Dichloropropene ND	1.	0			11/22/24 14:38	1
Dibromomethane ND	1.	0 ug/	/L		11/22/24 14:38	1
Dichlorodifluoromethane ND	1.	0	/L		11/22/24 14:38	1
Ethylbenzene ND	1.	0 ug/	/L		11/22/24 14:38	1
Hexachlorobutadiene ND	1.	0 ug/	/L		11/22/24 14:38	1

Eurofins Albuquerque

RL

1.0

1.0

3.0

3.0

1.0

2.0

1.0

1.0

1.0

1.0

1.0

1.0

1.0

1.0

1.0

1.0

1.5

Client: Hilcorp Energy Project/Site: Fifield 5 #1

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

MB MB

Qualifier

Result

ND

Lab Sample ID: MB 885-16467/6

Matrix: Air Analysis Batch: 16467

Methyl-tert-butyl Ether (MTBE)

Analyte

Isopropylbenzene

Methylene Chloride

n-Butylbenzene

Naphthalene

Styrene

Toluene

N-Propylbenzene

sec-Butylbenzene

tert-Butylbenzene

Tetrachloroethene (PCE)

trans-1,2-Dichloroethene

trans-1,3-Dichloropropene

Trichloroethene (TCE)

Trichlorofluoromethane

Vinyl chloride

Xylenes, Total

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

Analyzed

11/22/24 14:38

11/22/24 14:38

11/22/24 14:38

11/22/24 14:38

11/22/24 14:38

11/22/24 14:38

11/22/24 14:38

11/22/24 14:38

11/22/24 14:38

11/22/24 14:38

11/22/24 14:38

11/22/24 14:38

11/22/24 14:38

11/22/24 14:38

11/22/24 14:38

11/22/24 14:38

11/22/24 14:38

D

Prepared

Unit

ug/L

5769-1	
703-1	
Blank tal/NA	
Dil Fac	5
1	
	6
1	
1	
1	
1	2
1	0
1	0
1	9
1	
1	
1	
1	
1	

1 1 1 1 1

1

1

1 1

	MB	MB				
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109		70 - 130		11/22/24 14:38	1
Toluene-d8 (Surr)	93		70 - 130		11/22/24 14:38	1
4-Bromofluorobenzene (Surr)	91		70 - 130		11/22/24 14:38	1
Dibromofluoromethane (Surr)	108		70 - 130		11/22/24 14:38	1

Lab Sample ID: LCS 885-16467/4 Matrix: Air Analysis Batch: 16467

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

· ····· ·······················	Spike	LCS	LCS				%Rec
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
1,1-Dichloroethene	20.1	20.0		ug/L		99	70 - 130
Benzene	20.1	22.3		ug/L		111	70 - 130
Chlorobenzene	20.1	19.6		ug/L		98	70 - 130
Toluene	20.2	19.6		ug/L		97	70 - 130
Trichloroethene (TCE)	20.2	20.1		ug/L		100	70 - 130

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	113		70 - 130
Toluene-d8 (Surr)	94		70 - 130
4-Bromofluorobenzene (Surr)	94		70 - 130
Dibromofluoromethane (Surr)	107		70 - 130

Lab Sample ID: MB 885-16626/1006 Matrix: Air Analysis Batch: 16626

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.10	ug/L			11/26/24 11:51	1
1,1,1-Trichloroethane	ND		0.10	ug/L			11/26/24 11:51	1

Eurofins Albuquerque

Prep Type: Total/NA

Client Sample ID: Method Blank

Job ID: 885-15769-1

Released to Imaging: 2/7/2025 2:22:13 PM

Client: Hilcorp Energy Project/Site: Fifield 5 #1

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

ND

0.476

Lab Sample ID: MB 885-16626/1006 Matrix: Air

Analysis Batch: 16626

Bromoform

Bromomethane

Carbon disulfide

Chlorobenzene

Chloromethane

Dibromomethane

Ethylbenzene

cis-1,2-Dichloroethene

cis-1,3-Dichloropropene

Dichlorodifluoromethane

Methyl-tert-butyl Ether (MTBE)

Hexachlorobutadiene

Isopropylbenzene

Methylene Chloride

Chloroethane

Chloroform

Carbon tetrachloride

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

Job ID: 885-15769-1

Analysis Batch: 16626	MB MB						
Analyte	Result Qualifier	RL	Unit	D Prepared	Analyzed	Dil Fac	
1,1,2,2-Tetrachloroethane	ND	0.20	ug/L		11/26/24 11:51	1	
1,1,2-Trichloroethane	ND	0.10	ug/L		11/26/24 11:51	1	
1,1-Dichloroethane	ND	0.10	ug/L		11/26/24 11:51	1	
1,1-Dichloroethene	ND	0.10	ug/L		11/26/24 11:51	1	
1,1-Dichloropropene	ND	0.10	ug/L		11/26/24 11:51	1	
I,2,3-Trichlorobenzene	ND	0.10	ug/L		11/26/24 11:51	1	
1,2,3-Trichloropropane	ND	0.20	ug/L		11/26/24 11:51	1	
,2,4-Trichlorobenzene	ND	0.10	ug/L		11/26/24 11:51	1	
1,2,4-Trimethylbenzene	ND	0.10	ug/L		11/26/24 11:51	1	F
,2-Dibromo-3-Chloropropane	ND	0.20	ug/L		11/26/24 11:51	1	
,2-Dibromoethane (EDB)	ND	0.10	ug/L		11/26/24 11:51	1	
,2-Dichlorobenzene	ND	0.10	ug/L		11/26/24 11:51	1	
,2-Dichloroethane (EDC)	ND	0.10	ug/L		11/26/24 11:51	1	
,2-Dichloropropane	ND	0.10	ug/L		11/26/24 11:51	1	
,3,5-Trimethylbenzene	ND	0.10	ug/L		11/26/24 11:51	1	
,3-Dichlorobenzene	ND	0.10	ug/L		11/26/24 11:51	1	
,3-Dichloropropane	ND	0.10	ug/L		11/26/24 11:51	1	
,4-Dichlorobenzene	ND	0.10	ug/L		11/26/24 11:51	1	
-Methylnaphthalene	ND	0.40	ug/L		11/26/24 11:51	1	
,2-Dichloropropane	ND	0.20	ug/L		11/26/24 11:51	1	
-Butanone	ND	1.0	ug/L		11/26/24 11:51	1	
2-Chlorotoluene	ND	0.10	ug/L		11/26/24 11:51	1	
-Hexanone	ND	1.0	ug/L		11/26/24 11:51	1	
-Methylnaphthalene	ND	0.40	ug/L		11/26/24 11:51	1	
-Chlorotoluene	ND	0.10	ug/L		11/26/24 11:51	1	
-Isopropyltoluene	ND	0.10	ug/L		11/26/24 11:51	1	
-Methyl-2-pentanone	ND	1.0	ug/L		11/26/24 11:51	1	
Acetone	ND	1.0	ug/L		11/26/24 11:51	1	
enzene	ND	0.10	ug/L		11/26/24 11:51	1	
Bromobenzene	ND	0.10	ug/L		11/26/24 11:51	1	
Bromodichloromethane	ND	0.10	ug/L		11/26/24 11:51	1	
Dibromochloromethane	ND	0.10	ug/L		11/26/24 11:51	1	

ug/L

1

1

1

1

1

1

1

1

1

1

1

1

1

1

1

1

1

0.10

0.30

1.0

0.10

0.10

0.20

0.10

0.30

0.10

0.10

0.10

0.10

0.10

0.10

0.10

0.10

0.30

12/9/2024

11/26/24 11:51

11/26/24 11:51

11/26/24 11:51

11/26/24 11:51

11/26/24 11:51

11/26/24 11:51

11/26/24 11:51

11/26/24 11:51

11/26/24 11:51

11/26/24 11:51

11/26/24 11:51

11/26/24 11:51

11/26/24 11:51

11/26/24 11:51

11/26/24 11:51

11/26/24 11:51

11/26/24 11:51

Eurofins Albuquerque

Client: Hilcorp Energy Project/Site: Fifield 5 #1

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

Lab Sample ID: MB 885-16626/1006 Matrix: Air

Analysis Batch: 16626

	MB	MB							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	2
n-Butylbenzene	ND		0.30	ug/L			11/26/24 11:51	1	
N-Propylbenzene	ND		0.10	ug/L			11/26/24 11:51	1	
Naphthalene	ND		0.20	ug/L			11/26/24 11:51	1	
sec-Butylbenzene	ND		0.10	ug/L			11/26/24 11:51	1	
Styrene	ND		0.10	ug/L			11/26/24 11:51	1	
tert-Butylbenzene	ND		0.10	ug/L			11/26/24 11:51	1	
Tetrachloroethene (PCE)	ND		0.10	ug/L			11/26/24 11:51	1	
Toluene	ND		0.10	ug/L			11/26/24 11:51	1	
trans-1,2-Dichloroethene	ND		0.10	ug/L			11/26/24 11:51	1	
trans-1,3-Dichloropropene	ND		0.10	ug/L			11/26/24 11:51	1	
Trichloroethene (TCE)	ND		0.10	ug/L			11/26/24 11:51	1	
Trichlorofluoromethane	ND		0.10	ug/L			11/26/24 11:51	1	
Vinyl chloride	ND		0.10	ug/L			11/26/24 11:51	1	
Xylenes, Total	ND		0.15	ug/L			11/26/24 11:51	1	
	МВ	MB							

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	110		70 - 130		11/26/24 11:51	1
Toluene-d8 (Surr)	94		70 - 130		11/26/24 11:51	1
4-Bromofluorobenzene (Surr)	90		70 - 130		11/26/24 11:51	1
Dibromofluoromethane (Surr)	110		70 - 130		11/26/24 11:51	1

Lab Sample ID: MB 885-16626/6 Matrix: Air Analysis Batch: 16626

MB MB Analvte **Result Qualifier** RL Unit D Prepared Analyzed Dil Fac 1,1,1,2-Tetrachloroethane ND 1.0 ug/L 11/26/24 11:51 1 ND 1.0 ug/L 11/26/24 11:51 1,1,1-Trichloroethane 1 ND 2.0 1,1,2,2-Tetrachloroethane ug/L 11/26/24 11:51 1 1,1,2-Trichloroethane ND 1.0 ug/L 11/26/24 11:51 1 1,1-Dichloroethane ND ug/L 1.0 11/26/24 11:51 1 1,1-Dichloroethene ND 1.0 ug/L 11/26/24 11:51 1 ND 1,1-Dichloropropene 1.0 ug/L 11/26/24 11:51 1 1,2,3-Trichlorobenzene ND 1.0 ug/L 11/26/24 11:51 1,2,3-Trichloropropane ND 2.0 ug/L 11/26/24 11:51 1 1,2,4-Trichlorobenzene ND 1.0 ug/L 11/26/24 11:51 1 1,2,4-Trimethylbenzene ND 1.0 ug/L 11/26/24 11:51 1 1,2-Dibromo-3-Chloropropane ND 2.0 ug/L 11/26/24 11:51 1 1,2-Dibromoethane (EDB) ND 1.0 ug/L 11/26/24 11:51 1 1,2-Dichlorobenzene ND 1.0 ug/L 11/26/24 11:51 1 1,2-Dichloroethane (EDC) ND 1.0 ug/L 11/26/24 11:51 1 ND 1,2-Dichloropropane 1.0 ug/L 11/26/24 11:51 1 1,3,5-Trimethylbenzene ND ug/L 11/26/24 11:51 1.0 1 1,3-Dichlorobenzene ND 1.0 ug/L 11/26/24 11:51 1 1,3-Dichloropropane ND 1.0 ug/L 11/26/24 11:51 1 ND 1,4-Dichlorobenzene 1.0 ug/L 11/26/24 11:51 1 1-Methylnaphthalene ND 4.0 ug/L 11/26/24 11:51 1 2,2-Dichloropropane ND 2.0 ug/L 11/26/24 11:51 1

Eurofins Albuquerque

Page 35 of 52

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

Client Sample ID: Method Blank

Prep Type: Total/NA

Job ID: 885-15769-1

Released to Imaging: 2/7/2025 2:22:13 PM

RL

10

1.0

10

4.0

Unit

ug/L

ug/L

ug/L

ug/L

D

Prepared

Client: Hilcorp Energy Project/Site: Fifield 5 #1

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

MB MB

ND

ND

ND

ND

Result Qualifier

Lab Sample ID: MB 885-16626/6

Matrix: Air Analysis Batch: 16626

Analyte

2-Butanone

2-Hexanone

2-Chlorotoluene

2-Methylnaphthalene

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

Job ID: 885-15769-1

le ID: Methoo Prep Type: T		
Analyzed	Dil Fac	5
11/26/24 11:51	1	6
11/26/24 11:51	1	U
11/26/24 11:51	1	
11/26/24 11:51	1	
11/26/24 11:51	1	•
11/26/24 11:51	1	ð
11/26/24 11:51	1	0
11/26/24 11:51	1	9
11/26/24 11:51	1	
11/26/24 11:51	1	
11/26/24 11:51	1	
11/26/24 11:51	1	
11/26/24 11:51	1	
11/26/24 11:51	1	
11/26/24 11:51	1	
11/26/24 11:51	1	
11/26/24 11:51	1	
11/26/24 11:51	1	
11/26/24 11:51	1	
11/26/24 11:51	1	

	NB		4.0	ug/L		11/20/24 11:01	
4-Chlorotoluene	ND		1.0	ug/L		11/26/24 11:51	1
4-Isopropyltoluene	ND		1.0	ug/L		11/26/24 11:51	1
4-Methyl-2-pentanone	ND		10	ug/L		11/26/24 11:51	1
Acetone	ND		10	ug/L		11/26/24 11:51	1
Benzene	ND		1.0	ug/L		11/26/24 11:51	1
Bromobenzene	ND		1.0	ug/L		11/26/24 11:51	1
Bromodichloromethane	ND		1.0	ug/L		11/26/24 11:51	1
Dibromochloromethane	ND		1.0	ug/L		11/26/24 11:51	1
Bromoform	ND		1.0	ug/L		11/26/24 11:51	1
Bromomethane	ND		3.0	ug/L		11/26/24 11:51	1
Carbon disulfide	ND		10	ug/L		11/26/24 11:51	1
Carbon tetrachloride	ND		1.0	ug/L		11/26/24 11:51	1
Chlorobenzene	ND		1.0	ug/L		11/26/24 11:51	1
Chloroethane	ND		2.0	ug/L		11/26/24 11:51	1
Chloroform	ND		1.0	ug/L		11/26/24 11:51	1
Chloromethane	ND		3.0	ug/L		11/26/24 11:51	1
cis-1,2-Dichloroethene	ND		1.0	ug/L		11/26/24 11:51	1
cis-1,3-Dichloropropene	ND		1.0	ug/L		11/26/24 11:51	1
Dibromomethane	ND		1.0	ug/L		11/26/24 11:51	1
Dichlorodifluoromethane	ND		1.0	ug/L		11/26/24 11:51	1
Ethylbenzene	ND		1.0	ug/L		11/26/24 11:51	1
Hexachlorobutadiene	ND		1.0	ug/L		11/26/24 11:51	1
Isopropylbenzene	ND		1.0	ug/L		11/26/24 11:51	1
Methyl-tert-butyl Ether (MTBE)	ND		1.0	ug/L		11/26/24 11:51	1
Methylene Chloride	ND		4.8	ug/L		11/26/24 11:51	1
n-Butylbenzene	ND		3.0	ug/L		11/26/24 11:51	1
N-Propylbenzene	ND		1.0	ug/L		11/26/24 11:51	1
Naphthalene	ND		2.0	ug/L		11/26/24 11:51	1
sec-Butylbenzene	ND		1.0	ug/L		11/26/24 11:51	1
Styrene	ND		1.0	ug/L		11/26/24 11:51	1
tert-Butylbenzene	ND		1.0	ug/L		11/26/24 11:51	1
Tetrachloroethene (PCE)	ND		1.0	ug/L		11/26/24 11:51	1
Toluene	ND		1.0	ug/L		11/26/24 11:51	1
trans-1,2-Dichloroethene	ND		1.0	ug/L		11/26/24 11:51	1
trans-1,3-Dichloropropene	ND		1.0	ug/L		11/26/24 11:51	1
Trichloroethene (TCE)	ND		1.0	ug/L		11/26/24 11:51	1
Trichlorofluoromethane	ND		1.0	ug/L		11/26/24 11:51	1
Vinyl chloride	ND		1.0	ug/L		11/26/24 11:51	1
Xylenes, Total	ND		1.5	ug/L		11/26/24 11:51	1
	MR	МВ					
Surrogate	%Recovery		Limits		Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)			70 - 130			11/26/24 11:51	1
Toluene-d8 (Surr)	94		70 - 130			11/26/24 11:51	1
4-Bromofluorobenzene (Surr)	90		70 - 130			11/26/24 11:51	1

Eurofins Albuquerque

Released to Imaging: 2/7/2025 2:22:13 PM

QC Sample Results

Page 37 of 52

Job ID: 885-15769-1

Client: Hilcorp Energy Project/Site: Fifield 5 #1

Dibromofluoromethane (Surr)

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

109

Lab Sample ID: MB 885-16626/6 **Client Sample ID: Method Blank** Matrix: Air Prep Type: Total/NA Analysis Batch: 16626 MB MB Limits Surrogate %Recovery Qualifier Dil Fac Prepared Analyzed 6 Dibromofluoromethane (Surr) 110 70 - 130 11/26/24 11:51 1 Lab Sample ID: LCS 885-16626/5 **Client Sample ID: Lab Control Sample** Prep Type: Total/NA Matrix: Air Analysis Batch: 16626 Spike LCS LCS %Rec Added **Result Qualifier** Limits Analyte Unit D %Rec 1,1-Dichloroethene 20.1 17.3 ug/L 86 70 - 130 Benzene 20.1 21.9 ug/L 109 70 - 130 Chlorobenzene 20.1 20.1 ug/L 100 70 - 130 Toluene 20.2 96 70 - 130 19.4 ug/L Trichloroethene (TCE) 20.2 19.8 ug/L 98 70 - 130 LCS LCS %Recovery Qualifier Limits Surrogate 1,2-Dichloroethane-d4 (Surr) 112 70 - 130 70 - 130 Toluene-d8 (Surr) 94 4-Bromofluorobenzene (Surr) 92 70 - 130

70 - 130

QC Association Summary

Client: Hilcorp Energy Project/Site: Fifield 5 #1

GC/MS VOA

LCS 885-16626/5

Lab Control Sample

Analysis Batch: 16467

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch	
885-15769-1	SVE-1	Total/NA	Air	8260B		
MB 885-16467/1006	Method Blank	Total/NA	Air	8260B		2
MB 885-16467/6	Method Blank	Total/NA	Air	8260B		
LCS 885-16467/4	Lab Control Sample	Total/NA	Air	8260B		
Analysis Batch: 165	98				7	1
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch	
885-15769-1	SVE-1	Total/NA	Air	8015M/D	8	ł
MB 885-16598/4	Method Blank	Total/NA	Air	8015M/D		
LCS 885-16598/3	Lab Control Sample	Total/NA	Air	8015M/D		
Analysis Batch: 166	26				4	
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch	
885-15769-1	SVE-1	Total/NA	Air	8260B	1	
MB 885-16626/1006	Method Blank	Total/NA	Air	8260B		
MB 885-16626/6	Method Blank	Total/NA	Air	8260B		

Total/NA

Air

Job ID: 885-15769-1

8260B

Matrix: Air

Lab Chronicle

Client: Hilcorp Energy Project/Site: Fifield 5 #1 Job ID: 885-15769-1

Lab Sample ID: 885-15769-1

Client Sample ID: SVE-1 Date Collected: 11/20/24 15:30 Date Received: 11/22/24 06:15

_	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8015M/D		2	16598	СМ	EET ALB	11/22/24 16:38
Total/NA	Analysis	8260B		2	16467	СМ	EET ALB	11/22/24 16:38
Total/NA	Analysis	8260B		20	16626	СМ	EET ALB	11/26/24 12:15

Laboratory References:

= , 1120 South 27th Street, Billings, MT 59101, TEL (406)252-6325

EET ALB = Eurofins Albuquerque, 4901 Hawkins NE, Albuquerque, NM 87109, TEL (505)345-3975

Accreditation/Certification Summary

Client: Hilcorp Energy Project/Site: Fifield 5 #1 Job ID: 885-15769-1

thority	Progr	am	Identification Number Expiration Date
w Mexico	State		NM9425, NM0901 02-26-25
The following analytes	s are included in this repo	ort but the laboratory is r	not certified by the governing authority. This list may include analytes
• •	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
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
8260B		Air	Bromodichloromethane
8260B		Air	Bromodichioromethane 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

Accreditation/Certification Summary

Client: Hilcorp Energy Project/Site: Fifield 5 #1

Laboratory: Eurofins Albuquerque (Continued)

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

	Progra	am	Identification Number Expiration Date
• •	s are included in this repo does not offer certification		not certified by the governing authority. This list may include analytes
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
Ion	NELAI	2	NM100001 02-26-25

Oregon

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

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

Job ID: 885-15769-1

Page 41 of 52

Accreditation/Certification Summary

Client: Hilcorp Energy Project/Site: Fifield 5 #1

Laboratory: Eurofins Albuquerque (Continued)

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

ity	Progr	am	Identification Number Expiration Date
	s are included in this repo does not offer certificatior	-	not certified by the governing authority. This list may include analytes
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

Job ID: 885-15769-1

5 6

9



ANALYTICAL SUMMARY REPORT

December 03, 2024

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

Work Order: B24111819 Quote ID: B15626

Project Name: 88501698, Fifield 5 #1

Energy Laboratories Inc Billings MT received the following 1 sample for Hall Environmental on 11/25/2024 for analysis.

Lab ID	Client Sample ID	Collect Date Receive Date	Matrix	Test
B24111819-001	SVE-1 (885-15769-1)	11/20/24 15:30 11/25/24	Air	Air Correction Calculations Appearance and Comments Calculated Properties GPM @ std cond,/1000 cu. ft., mois Free Natural Gas Analysis Specific Gravity @ 60/60

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

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

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

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





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

LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

 Client:
 Hall Environmental

 Project:
 88501698, Fifield 5 #1

 Lab ID:
 B24111819-001

 Client Sample ID:
 SVE-1 (885-15769-1)

 Report Date:
 12/03/24

 Collection Date:
 11/20/24 15:30

 DateReceived:
 11/25/24

 Matrix:
 Air

					MCL/		
Analyses	Result	Units	Qualifiers I	RL	QCL	Method	Analysis Date / By
GAS CHROMATOGRAPHY ANALYSIS	REPORT						
Oxygen	-	Mol %	0).01		GPA 2261-13	11/27/24 11:28 / jrj
Nitrogen	80.98	Mol %).01		GPA 2261-13	11/27/24 11:28 / jrj
Carbon Dioxide		Mol %		0.01		GPA 2261-13	11/27/24 11:28 / jrj
Hydrogen Sulfide	<0.01	Mol %	0	0.01		GPA 2261-13	11/27/24 11:28 / jrj
Methane	<0.01	Mol %	0	0.01		GPA 2261-13	11/27/24 11:28 / jrj
Ethane	<0.01	Mol %	0	0.01		GPA 2261-13	11/27/24 11:28 / jrj
Propane	<0.01	Mol %	0	0.01		GPA 2261-13	11/27/24 11:28 / jrj
Isobutane	<0.01	Mol %	0	0.01		GPA 2261-13	11/27/24 11:28 / jrj
n-Butane	<0.01	Mol %	0	0.01		GPA 2261-13	11/27/24 11:28 / jrj
Isopentane	<0.01	Mol %	0	0.01		GPA 2261-13	11/27/24 11:28 / jrj
n-Pentane	<0.01	Mol %	0	0.01		GPA 2261-13	11/27/24 11:28 / jrj
Hexanes plus	0.01	Mol %	0	0.01		GPA 2261-13	11/27/24 11:28 / jrj
Propane	< 0.001	gpm	0.	.001		GPA 2261-13	11/27/24 11:28 / jrj
Isobutane	< 0.001	gpm	0.	.001		GPA 2261-13	11/27/24 11:28 / jrj
n-Butane	< 0.001	gpm	0.	.001		GPA 2261-13	11/27/24 11:28 / jrj
Isopentane	< 0.001	gpm	0.	.001		GPA 2261-13	11/27/24 11:28 / jrj
n-Pentane	< 0.001	gpm	0.	.001		GPA 2261-13	11/27/24 11:28 / jrj
Hexanes plus	0.004	gpm	0.	.001		GPA 2261-13	11/27/24 11:28 / jrj
GPM Total	0.004	gpm	0.	.001		GPA 2261-13	11/27/24 11:28 / jrj
GPM Pentanes plus	0.004	gpm	0.	.001		GPA 2261-13	11/27/24 11:28 / jrj
CALCULATED PROPERTIES							
Gross BTU per cu ft @ Std Cond. (HHV)	ND			1		GPA 2261-13	11/27/24 11:28 / jrj
Net BTU per cu ft @ std cond. (LHV)	ND			1		GPA 2261-13	11/27/24 11:28 / jrj
Pseudo-critical Pressure, psia	538			1		GPA 2261-13	11/27/24 11:28 / jrj
Pseudo-critical Temperature, deg R	237			1		GPA 2261-13	11/27/24 11:28 / jrj
Specific Gravity @ 60/60F	0.994		0.	.001		D3588-81	11/27/24 11:28 / jrj
Air, % - The analysis was not corrected for air.	86.43		0	0.01		GPA 2261-13	11/27/24 11:28 / jrj

COMMENTS

11/27/24 11:28 / jrj

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

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

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

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

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

10



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

QA/QC Summary Report

Prepared by Billings, MT Branch

Work Order: B24111819

Report Date: 12/03/24

WORKC	Didel: D24111019							Кероі	i Date.	. 12/03/24	
Analyte		Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method:	GPA 2261-13									Batch:	R433211
Lab ID:	B24111819-001ADUP	12 Samp	ole Duplic	ate			Run: GCNC	GA-B_241127A		11/27	/24 12:17
Oxygen			19.0	Mol %	0.01				0.4	20	
Nitrogen			80.9	Mol %	0.01				0.1	20	
Carbon D	Dioxide		0.09	Mol %	0.01				0.0	20	
Hydrogen	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	
Isobutane	e		<0.01	Mol %	0.01					20	
n-Butane			<0.01	Mol %	0.01					20	
Isopentar	ne		<0.01	Mol %	0.01					20	
n-Pentane	e		<0.01	Mol %	0.01					20	
Hexanes	plus		0.01	Mol %	0.01				0.0	20	
Lab ID:	LCS112724	11 Labo	ratory Co	ntrol Sample			Run: GCNG	GA-B_241127A		11/27	/24 14:06
Oxygen			0.62	Mol %	0.01	124	70	130			
Nitrogen			5.95	Mol %	0.01	99	70	130			
Carbon D	Dioxide		1.00	Mol %	0.01	101	70	130			
Methane			74.8	Mol %	0.01	100	70	130			
Ethane			6.02	Mol %	0.01	100	70	130			
Propane			5.05	Mol %	0.01	102	70	130			
Isobutane	e		1.69	Mol %	0.01	84	70	130			
n-Butane			2.00	Mol %	0.01	100	70	130			
Isopentar	ne		1.02	Mol %	0.01	102	70	130			
n-Pentane	e		1.01	Mol %	0.01	101	70	130			
Hexanes	plus		0.81	Mol %	0.01	101	70	130			

ENERGY LABORATORIES



Work Order Receipt Checklist

Trust our People. Trust our Data.

www.energylab.com

Hall Environmental

Login completed by:	Crystal M. Jones		Date	Received: 11/25/2024
Reviewed by:	tjones		Re	ceived by: SAY
Reviewed Date:	11/27/2024		Car	rier name: FedEx NDA
Shipping container/cooler in	good condition?	Yes 🖌	No 🗌	Not Present
Custody seals intact on all s	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 whe	en relinquished and received?	Yes 🗹	No 🗌	
Chain of custody agrees with	n sample labels?	Yes 🗹	No 🗌	
Samples in proper container	/bottle?	Yes 🗹	No 🗌	
Sample containers intact?		Yes 🗹	No 🗌	
Sufficient sample volume for	indicated test?	Yes 🗹	No 🗌	
All samples received within h (Exclude analyses that are c such as pH, DO, Res CI, Su	onsidered field parameters	Yes 🗹	No 🗌	
Temp Blank received in all s	hipping container(s)/cooler(s)?	Yes	No 🗹	Not Applicable
Container/Temp Blank tempe	erature:	7.7°C No Ice		
Containers requiring zero he bubble that is <6mm (1/4").	adspace have no headspace or	Yes	No 🗌	No VOA vials submitted
Water - pH acceptable upon	receipt?	Yes	No 🗌	Not Applicable

Standard Reporting Procedures:

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

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

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

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

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

Contact and Corrective Action Comments:

None

Billings, MT 406.252.6325 • Casper, WY 307.235.0515

Gillette, WY 307.686.7175 • Helena, MT 406.442.0711

B24111819



Trust our People. Trust our Data. www.energylab.com

Laboratory Certifications and Accreditations

	Agency	Number
	Alaska	17-023
	California	3087
	Colorado	MT00005
	Department of Defense (DoD)/ISO17025	ADE-2588
Billings, MT	Florida (Primary NELAP)	E87668
_	Idaho	MT00005
d	Louisiana	05079
ANAB	Montana	CERT0044
ANSI National Accreditation Board	Nebraska	NE-OS-13-04
ISO/IEC 17025 TESTING LABORATORY	Nevada	NV-C24-00250
NCOR	North Dakota	R-007
SURP CORE	National Radon Proficiency	109383-RMP
TNI	Oregon	4184
480RATOR	South Dakota	ARSD 74:04:07
	Texas	TX-C24-00302
	US EPA Region VIII	Reciprocal
	USDA Soil Permit	P330-20-00170
	Washington	C1039
	Alaska	20-006
	California	3021
	Colorado	WY00002
	Florida (Primary NELAP)	E87641
	Idaho	WY00002
C	Louisiana	05083
Casper, WY	Montana	CERT0002
AND ACCREDIA	Nebraska	NE-OS-08-04
	Nevada	NV-C24-00245
1ABORATORY	North Dakota	R-125
	Oregon	WY200001
	South Dakota	WY00002
	Texas	T104704181-23-21
	US EPA Region VIII	WY00002
	USNRC License	49-26846-01
	Washington	C1012
Gillette, WY	US EPA Region VIII	WY00006
	Colorado	MT00945
Helena, MT	Montana	CERT0079
•	Nevada	NV-C24-00119
	US EPA Region VIII	Reciprocal
	USDA Soil Permit	P330-20-00090

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

Client Information (Sub Contract Lab) Client Contact: Shipping/Receiving Company: Energy Laboratories, Inc. Address:								144	N				Environment Testing
Clean Contact: Shipping/Receiving company: Tenergy Laboratories, Inc. Address: 1120 South 27th Street,	Sampler: N/A			Lab PM Garcia	Lab PM: Garcia Michelle				Carrier Tracking No(s) N/A	king No(s):		COC No: 885-2922 1	
Company: Company: Energy Laboratories, Inc. Address: 1120 South 27th Street,	Phone: N/A			E-Mail:	E-Mail: michelle cercie@et eurofineue com	Plat al mofin	mon allar		State of Origin: New Mevico	iui c		Page: Darie 1 of 1	
Energy Laboratories, Inc. Address: 1120 South 27th Street,					Accreditations Required (See note):	s Required (See note):			3		Job #:	
Address: 1120 South 27th Street,					NELAP - (regon; St	ate - New	Mexico				885-15769-1	
	Due Date Requested: 12/3/2024	9					Analy	Analysis Requested	uested			Preservation Codes	Codes:
City: Billiores	TAT Requested (days):	ys): N/A							_				
State, Zp: MT 5910:													
Phone: Phone: A per second Trail	PO #				(<u>A</u> 1020	- 10	
	# OM				(0)						5		
Project Name: Freiglict Kame:	Project #:				s or l						19nis:		
	SSOW#:				ey) de						noo lo	Other:	
	- CON			Matrix	SW/S						per c		
	20 80 90 90 90	Sample	Sample Type (C=comp,		eld Filter M mone IB (Fixed						muN Isto		
Sample Identification - Client ID (Lab ID)	Sample Date		G=grab) Preserval	Preservation Code:									Special Instructions/Note:
SVE-1 (885-15769-1)	11/20/24	15:30	Ð	Air	×							See Attached Instructions	Instructions
		Mountain										Dauli i eig	0101
									-			11470	1 10
										2			
									_				
Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory 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 places will be provided. Any changes to laboratoria 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 aboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC.	ment Testing South Centr d above for analysis/tests. 1 Central, LLC attention im	al, LLC places /matrix being a mediately. If a	s the ownershi analyzed, the t	ip of method, an samples must bu tocreditations ar	alyte & accre e shipped bac e current to d	k to the Eurc ate, return th	oliance upor ofins Envirol	i our subcon ment Testir hain of Cust	tract laborati g South Cer ody attesting	ories. This : ntral, LLC lal to said corr	ample shipm poratory or of pliance to Eu	hent is forwarded ther instructions v urofins Environme	under chain-of-custody. ill be provided. Any cha nt Testing South Centra
Possible Hazard Identification					Sample	Disposa	I (A fee I	nay be as	sessed if	samples	are retain	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)	n 1 month)
Unconfirmed	Drimon, Dolinova	o Donly, O			[]	Return To Client	Client		Disposal By Lab	Lab	Arct	Archive For	Months
Deliverable Requested: 1, 11, 111, 1V, Other (specify)	Primary Deliverable Kank: 2	DIE KANK. 2			special	special instructions/QC Requirements	US/CC Ke	duiremen					
Empty Kit Relinquished by:		Date:			Time:				Method	Method of Shipment	tt:		
Relinquished by	Date/Time: Date/2	this fit	35	Company	Rec	Received by:				Date/Time	:ew		Company
Relinquished by:		-		Company	Rec	Received by:				Date/Time	me:		Company
Relinquished by:	Date/Time:			Company	Red	Redeived by:				Date/Time:	DC. 211	0125	5 Company R.) Inc.
Custody Seals Intact: Custody Seal No .:					Coo	er T	emperature(s) °C and Other Remarks:	d Other Rei	narks:)

Page 48 of 52

ö	2
Z	292
ŏ	32-
2	80

Container Type Tedlar Bag 1L Containers Count 1

Preservative None

Subcontract Method Instructions

ample IDs	Method	Method Description	Method Comments
	SUBCONTRACT	SUB (Fixed Gases)/ Fixed Gases	Fixed Gases

Received	by	OCD:	1/14/2	2025	8:35	:48 AM

Page 28 of 29

Client: Hilcorp Energy

Login Number: 15769 List Number: 1 Creator: Casarrubias, Tracy

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

12

Job Number: 885-15769-1

List Source: Eurofins Albuquerque

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

General Information Phone: (505) 629-6116

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

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

CONDITIONS

Operator:	OGRID:	
HILCORP ENERGY COMPANY	372171	
1111 Travis Street	Action Number:	
Houston, TX 77002	420344	
	Action Type:	
	[REPORT] Alternative Remediation Report (C-141AR)	

COND	TIONS	
Creat By	d Condition	Condition Date
nvel	SVE reviewed: 1. Continue further actions as stated in report. 2. Submit next quarterly report by April 15, 2025.	2/7/2025

CONDITIONS

Page 52 of 52

Action 420344