SCS ENGINEERS

March 24, 2025 File No. 23212007.13

Ms. Maria Lammers Ohio EPA Southwest District Office 401 East Fifth Street Dayton, Ohio 45402-2911 Submitted Electronically

Subject: Village of St. Bernard Landfill First Semi-Annual 2025 Monitoring Report

Dear Ms. Lammers:

Enclosed please find the results of the first semi-annual gas monitoring performed on behalf of the Village of St. Bernard at the closed St. Bernard Landfill on March 21, 2025.

No combustible gas concentrations at or above the compliance threshold were detected at any of the probes in the compliance monitoring network. One probe, MP-9, was watered-in. A bar punch was performed adjacent to that probe on the residence site and no combustible gas concentration at or above the compliance threshold was detected.

It is anticipated that the next semi-annual monitoring event will be performed in September 2025.

Should you have any questions or comments, please contact the undersigned.

Sincerely,

Randall C. mills

Randall C. Mills, P.G. Senior Project Scientist SCS Engineers

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James J. Walsh, P.E. Principal SCS Engineers

RCM/JJW

cc: Tim Werdmann, Village of St. Bernard Jonathan Stuchell, Village of St. Bernard Chuck DeJonckheere, R.S., Hamilton County Public Health

Encl.

AS MONITORI	ING REPORT	•												
ity: Closed St. Bernard Landfill							partly cloudy, windy							
Thanhitten e cunty					•			58	degrees F			Relative Humidity:	29 percent	
te of				•	essure:		29.98 inches HG					Odors Present? None		
Sampling: 3/21/25				Comments:										
Gas meter make and model: GEM 5000 Date of last calibration: 03-21-2025 Calibration was performed in: Field							Calibrati factory	on gas:	CH4 15%, 0	<u>CO2 15%</u>	<u>. O2 11.</u>	0%		
Sampling Time	Initial CH4 (% by volume)	Contin		Current Conditions of the Probe	Pressure (inches water)	Depth to water (FT) below TOC		Probe Depth (FT below TOC)	Length of screen (FT)	Is screened interval flooded? (check one) Yes No		Comments		
14:20	0		Х	no issues	-0.004	10.26	unknown	12.53	unknown		Х			
Sampling Time	Initial CH4 (% by volume)		gency	Current Conditions of the Probe	Pressure (inches water)	Depth to water (FT) below GS	As-built Top of Screen Depth (FT below GS)	Probe Depth (FT below GS)	Length of screen (FT)	Is screened interval flooded? (check one) Yes No		Commonito		
15.17	0		v		0.07	2.71	2	14	11	163	r	Comments		
	0		л	no issues	0.07	2.71	3	14	11		л	* flush-mount protective casing filled with wa	ater. Bailed to remove water to	
15:07	0				0	2.06	2	15	13		Х	access the probe quick connect.		
14:57	0		Х	no issues	0.03	6.12	4	14	10		Х			
14:41			х	watered in*		1.24	2	12	10	х		* flush-mount protective casing filled with wa access the probe quick connect.	ater. Bailed to remove water to	
14:26	0		Х	no issues	0.02	5.04	2	12	10		Х			
14:33	0		Х	no issues	0.03	8.88	3	13	10		Х			
	-													
				1										
•	Closed St. Bern Hamilton Coun ke and model: libration: Sampling Time 14:20 Sampling Time 15:17 15:07 14:57 14:57 14:41 14:26	Closed St. Bernard Landfill Hamilton County 3/21/25 ke and model: libration: 03-21 libration: 03-21 Sampling Initial CH4 (% by volume) 14:20 0 15:17 0 15:07 0 14:57 0 14:41 14:26	3/21/25 Sampling Time GEM 500 Sampling Time Initial CH4 (% by volume) Conting (check Yes) 14:20 0 0 0 15:17 0 0 0 15:07 0 0 0 14:57 0 1 1 14:26 0 0 0	Sampling Time Initial CH4 (% by volume) Contingency (check one) Yes 14:20 0 X 15:17 0 X 15:07 0 X 14:57 0 X 15:17 0 X 14:20 0 X 15:17 0 X 14:26 0 X	Closed St. Bernard Landfill Weather cond Hamilton County 3/21/25 Meather cond 3/21/25 Comments: Comments: ke and model: GEM 5000 Gements: libration: 03-21-2025 Calibration v Sampling Time Initial CH4 (% by volume) Contingency (check one) Yes Current Conditions of the Probe 14:20 0 X no issues Sampling Time Initial CH4 (% by volume) Contingency (check one) Yes Current Conditions of the Probe 14:20 0 X no issues 15:07 0 X no issues 15:07 0 X no issues 14:57 0 X no issues 14:26 0 X no issues	Closed St. Bernard Landfill Weather conditions: Ambient air temperature: Barometric pressure: Comments: 3/21/25 GEM 5000 ke and model: GEM 5000 libration: 03-21-2025 Calibration was performed Contingency (check one) Yes Current Conditions of the Probe Pressure (inches water) 14:20 0 X no issues -0.004 Sampling Time Initial CH4 (% by volume) Contingency (check one) Yes Current Conditions of the Probe Pressure (inches water) 14:20 0 X no issues -0.004 14:20 0 X no issues -0.004 14:57 0 X no issues 0.07 15:07 0 X no issues 0.03 14:57 0 X no issues 0.03 14:41 X X watered in* 14:26	Closed St. Bernard Landfill Weather conditions: Ambient air temperature: Barometric pressure: Comments: 3/21/25 3/21/25 ke and model: GEM 5000 libration: 03-21-2025 Calibration was performed in: Field 3/321/25 Calibration was performed in: Field Ibration: 03-21-2025 Calibration was performed in: Depth to water (FT) 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Hamilton County Weather conditions: Ambient air temperature: Barometric pressure: Comments: partly cloudy, windy 3/21/25 3/21/25 St. Bernard Landfill St. Bernard Landfill St. Bernard Landfill 3/21/25 3/21/25 Comments: 29.98 inches HG Comments: Comments: Calibration was performed in: Calibration gas: CH4 15%, CO2 15% Sampling Time Initial CH4 (% by volume) Contingency (check one) Yes No Current Conditions of the Probe Pressure (inches water) Depth to water (FT) below TOC Probe Depth (FT below TOC) Length of screen (FT) Is screen integration of screen (FT) 14:20 0 X no issues -0.004 10.26 unknown 12.53 unknown 15 screen integration of screen (FT) Frobe Depth (FT below GS) Is screen (FT) Is</td><td>Closed St. Bernard Landfill Hamilton County Ambient air temperature: Barometric pressure: Comments: partly cloudy, windy 3/21/25 St. Bernard Landfill Ambient air temperature: Barometric pressure: Comments: St. Bernard Landfill 3/21/25 GEM 5000 Comments: 29.98 inches HG Vest and model: GEM 5000 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Name: Rondell C. mille

Affiliation: SCS Engineers

EXPLOSIVE GAS MO	NITORING RE	EPORT								
Facility:	Closed St. Bernard Landfill									
County:	Hamilton				Ambient air temperatur Barometric pressu	res (deg. F):	58 Relativ	Relative humidity (%): 29		
Date of sampling:	3/21/2025				Barometric pressu	98	Odors present?: none			
					Comments:					
Gas meter make and mo	GEM 5000						ration gas: CH4 15%, CO2 15%, O2 11%			
							ate of last calib		3/21/2025	
						Calibration P	erformed in:	Field 📩	Factory	
Punchbar station identification	Sampling	InitialContinSamplingCH4 % by(chec)TimevolumeYes			Donth of numerica	Con	nments			
BP-9	15:31	0	168	X	Depth of punchbar 33"		Col	liments		
DI -9	15.51	0		Λ	55					
	+									

Name: Conclut Conclut Affiliation: SCS Engineers