

March 8, 2024
File No. 23212007.12

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 2024 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 7, 2024.

No combustible gas concentrations at or above the compliance threshold were detected at any of the probes in the compliance monitoring network. Two probes were watered-in. Bar punches were performed adjacent to the probes on the residence site and no combustible gas concentrations at or above the compliance threshold were detected.

It is anticipated that the next semi-annual monitoring event will be performed in September 2024.

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

Sincerely,



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



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

RCM/JJW

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

Encl.



EXPLOSIVE GAS MONITORING REPORT

Facility: closed St. Bernard Landfill
 County: Hamilton County
 Date of Sampling: 03-7-2024

Weather conditions: overcast, moderate breeze
 Ambient air temperature: 53 degrees F
 Barometric pressure: 30.09 inches HG
 Comments: _____

Relative Humidity: 61 percent
 Odors Present? None

Gas meter make and model: GEM 5000 Calibration gas: CH4 15%, CO2 15%, O2 4.0%
 Date of last calibration: 03-7-2024 Calibration was performed in: Field factory

Stick-up Probe Identification	Sampling Time	Initial CH4 (% by volume)	Contingency (check one)		Current Conditions of the Probe	Pressure (inches water)	Depth to water (FT) below TOC	As-built Top of Screen Depth (FT below TOC)	Probe Depth (FT below TOC)	Length of screen (FT)	Is screened interval flooded? (check one)		Comments
			Yes	No							Yes	No	
MP-1	10:38	0		X	no issues	-0.02	12.04	unknown	12.53	unknown		X	
Flush Mount Probe Identification	Sampling Time	Initial CH4 (% by volume)	Contingency (check one)		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)		Comments
MP-7E	11:02	0		X	no issues	-0.03	1.98	3	14	11	X		Bar punch performed.
MP-7H	10:55	0		X	no issues *	0.03	3.74	2	15	13		X	* flush-mount protective casing filled with water.
MP-8F	11:08	0		X	no issues	-0.03	6.90	4	14	10		X	
MP-9	11:20	0		X	no issues *	5.71	1.60	2	12	10	X		* flush-mount protective casing filled with water. Bar punch performed.
MP-16	10:47	0		X	no issues	-0.01	4.56	2	12	10		X	
MP-17	11:28	0		X	no issues	-0.08	10.57	3	13	10		X	

Name: *Randall C. Miller*
 Affiliation: SCS Engineers

EXPLOSIVE GAS MONITORING REPORT

Facility: closed St. Bernard Landfill

County: Hamilton Ambient air temperatures: 53 Relative humidity: 61

Date of sampling: 3/7/2024 Barometric pressure: 30.09 Odors present?: none

Comments: _____

Gas meter make and model: GEM 5000 Calibration gas: CH4 15%, CO2 15%, O2 4.0%

Date of last calibration: 3/7/2024

Calibration Performed in: Field Factory

Punchbar station identification	Sampling Time	Initial CH ₄ % by volume	Contingency (check one)		Depth of punchbar	Comments
			Yes	No		
MP-7E	15:58	0		x	36 inches	
MP-9	16:03	0		x	33 inches	

Name: *Randall C. Mills*
 Affiliation: SCS Engineers