

March 3, 2021  
File No. 23212007.09

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 2021 and Quarterly Blower Shutdown Test Monitoring Report

Dear Ms. Lammers:

Enclosed please find the results of the semi-annual gas monitoring performed on behalf of the Village of St. Bernard at the closed St. Bernard Landfill on March 2, 2021. This event also serves as a quarterly monitoring event for the extended blower shutdown test.

No combustible gas concentrations at or above the compliance threshold were detected at any of the probes in the compliance monitoring network.

It is anticipated that the next semi-annual monitoring event will be performed in September 2021. The next blower shutdown test monitoring event is tentatively scheduled for the first full week in June 2021.

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

Encl.



## Compliance Probe Monitoring Form for St. Bernard Landfill

Date: <u>03/02/21</u>	Sampler: <u>Randall Mills</u>
Instrument: <u>GEM 5000</u>	Weather: <u>Clear, windy</u>
Calibration Prior to Sampling: <u>Yes</u>	Ambient Air Temperature (°F): <u>45</u>
Calibration Gas: <u>CH<sub>4</sub> 15%, CO<sub>2</sub> 15%, O<sub>2</sub> 4%</u>	Barometric Pressure (in Hg): <u>30.26</u>
Recalibration: <u>No</u>	Relative Humidity (%): <u>34</u>

Probe ID	Start Time	Stop Time	Gas Pressure (inches water)	Initial CH <sub>4</sub> (%) by Volume)	Sustained CH <sub>4</sub> (% by Volume)	Depth to Water Level (feet below ground surface)	Depth to Top of Screen (feet below ground surface)	Open Screen <sup>#</sup> (feet)
MP-1	14:01	14:02	0.01	0	0	9.31	not known	
MP-7E	14:35	14:36	-0.13	0	0.1	2.38	2	0.4
MP-7H	14:42	14:43	0.02	0.1	0.1	3.18	2	1.2
MP-8F	14:28	14:29	-0.08	0	0.1	5.98	2	4.0
MP-9	14:21	14:22	1.13	0	0	3.66	2	1.7
MP-16	14:06	14:07	0	0	0	4.81	2	2.8
MP-17	14:12	14:13	0	0	0	11.01	2	9.8

Notes: The 0.1 percent methane readings are likely due to the GEM changing temperature.  
 Between the MP-7E and MP-7H readings, ambient air read 0.1 percent methane.

Signature: *Randall C. Mills*

<sup>#</sup> A zero or negative value indicates that the probe is watered in.