

September 8, 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  
Second Semi-Annual 2021 and Quarterly Blower Shutdown Test Monitoring Report

Dear Ms. Lammers:

Enclosed please find the results of the second semi-annual gas monitoring performed on behalf of the Village of St. Bernard at the closed St. Bernard Landfill on September 8, 2021. This event also serves as a quarterly monitoring event for the extended blower shutdown test.

An exceedance of the compliance threshold level (5% by volume combustible gas) was detected at MP-7E, but the exceedance was not verified by the validation resampling. An exceedance of the compliance threshold level was detected at MP-9 and the exceedance was verified by the validation resampling. Contingency monitoring will be implemented for MP-9, beginning with weekly monitoring. No combustible gas concentrations at or above the compliance threshold were detected at any of the other probes in the compliance monitoring network.

It is anticipated that the next semi-annual monitoring event will be performed in March 2022. The next blower shutdown test quarterly monitoring event is tentatively scheduled for the first full week in December 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  
St Bernard Fire Department  
St Bernard Police Department

Encl.



## Compliance Probe Monitoring Form for St. Bernard Landfill

Date: <u>09/08/21</u>	Sampler: <u>Randall Mills</u>
Instrument: <u>GEM 5000</u>	Weather: <u>overcast, light breeze</u>
Calibration Prior to Sampling: <u>Yes</u>	Ambient Air Temperature (°F): <u>73</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>29.82</u>
Recalibration: <u>No</u>	Relative Humidity (%): <u>80</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	9:12	9:13	0.02	0	0	9.28	not known	
MP-7E	9:54	9:55	-0.53	5.6	5.6	7.30	2	5.3
MP-7H	10:06	10:07	-0.01	0.1	0	5.07	2	3.1
MP-8F	9:48	9:49	0.02	0.1	0	8.05	2	6.0
MP-9	9:36	9:37	-0.01	2.3	9.2	7.39	2	5.4
MP-16	9:22	9:23	0.01	0	0	8.33	2	6.3
MP-17	9:29	9:30	-0.06	0	0	>11.79	2	9.8
MP-7E validation	9:59	10:00	0.29	4.7	4.4	--	--	--
MP-9 validation	9:40	9:41	0	9.0	8.8	--	--	--

Notes:

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Signature: *Randall C. Mills*

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