

November 4, 2020
File No. 23212007.08

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 2020 Probe Monitoring Results
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 November 3, 2020. This event also serves as a monthly monitoring event for the 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 noted that the quick connect was missing from MP-1. A replacement quick connect was installed and the probe was monitored. Combustible gas has not been detected in MP-1 since at least 2012.

It is anticipated that the next semi-annual monitoring event will be performed in March 2021. The next blower shutdown test monitoring event is tentatively scheduled for the first full week in December 2020.

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>11/03/20</u>	Sampler: <u>Randall Mills</u>
Instrument: <u>GEM 5000</u>	Weather: <u>clear, light to moderate breeze</u>
Calibration Prior to Sampling: <u>Yes</u>	Ambient Air Temperature (°F): <u>63</u>
Calibration Gas: <u>CH₄ 15%, CO₂ 15%, O₂ 4%</u>	Barometric Pressure (in Hg): <u>30.12</u>
Recalibration: <u>No</u>	Relative Humidity (%): <u>35</u>

Probe ID	Start Time	Stop Time	Gas Pressure (inches water)	Initial CH ₄ (%) by Volume)	Sustained CH ₄ (% by Volume)	Depth to Water Level (feet below ground surface)	Depth to Top of Screen (feet below ground surface)	Open Screen [#] (feet)
MP-1	15:02	15:03	0	0	0	9.26	not known	
MP-7E	14:34	14:35	-0.01	0	0	7.53	2	5.5
MP-7H	14:29	14:30	-0.10	0	0	5.39	2	3.4
MP-8F	14:39	14:40	0	0	0	8.66	2	6.7
MP-9	14:44	14:45	0.01	0	0	7.50	2	5.5
MP-16	14:56	14:57	0.01	0	0	5.28	2	3.3
MP-17	14:50	14:51	-0.01	0	0	>11.77	2	9.8

Notes: Quick connect missing from MP-1. Installed replacement & monitored.

Signature: *Randall C. Mills*

[#] A zero or negative value indicates that the probe is watered in.