

SCS ENGINEERS

December 18, 2017
File No. 23212007.05

Ms. Tracy Buchanan
Ohio EPA Southwest District Office
401 East Fifth Street
Dayton, Ohio 45402-2911

Submitted Electronically

Subject: Village of St. Bernard Landfill
Quarterly Probe Monitoring Results

Dear Ms. Buchanan:

Enclosed please find the results of the quarterly gas monitoring performed on behalf of the Village of St. Bernard at the closed St. Bernard Landfill on December 8, 2017.

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

It is anticipated that the next quarterly monitoring event will be performed during the first full week in March 2018.

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
John Estep, Village of St. Bernard
Chuck DeJonckheere, R.S., Hamilton County Public Health

Attachment

Compliance Probe Monitoring Form for St. Bernard Landfill

Date: <u>12/08/17</u>	Sampler: <u>Randall Mills</u>
Instrument: <u>GEM 5000</u>	Weather: <u>partly cloudy, windy</u>
Calibration Prior to Sampling: <u>Yes</u>	Ambient Air Temperature (°F): <u>31</u>
Calibration Gas: <u>CH₄ 15%, CO₂ 15%, O₂ 4%</u>	Barometric Pressure (in Hg): <u>30.11</u>
Recalibration: <u>No</u>	Relative Humidity (%): <u>40</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	13:06	13:07	-0.02	0	0	9.27	not known	
MP-7E	13:44	13:45	0.02	0	0	7.53	3	4.5
MP-7H	13:51	13:52	-0.01	0.1	0.1	4.53	2	2.5
MP-8F	13:38	13:39	-0.21	0	0	8.13	4	4.1
MP-9	13:32	13:33	0.05	0	0	6.75	2	4.8
MP-10	13:27	13:28	0.59	0.5	0.5	4.55	2	2.5
MP-16	13:13	13:14	-0.02	0	0	5.20	2	3.2
MP-17	13:19	13:20	-0.07	0	0	dry to 11.73	2	9.8
BP-1	14:42	14:43	--	0	0	--	--	--

Notes:

Signature: *Randall C. Mills*

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