

SCS ENGINEERS

November 17, 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
MP-10 Contingency Probe Monitoring Results, November 15 & 17, 2017

Dear Ms. Buchanan:

Enclosed please find the results of the contingency gas monitoring at MP-10 performed on behalf of the Village of St. Bernard at the closed St. Bernard Landfill on November 15 & 17, 2017.

MP-10 had a sustained reading of 0.9 percent combustible gas on November 15, 2017. MP-10 had a sustained reading of 0.4 percent combustible gas on November 17, 2017. Contingency monitoring will therefore be discontinued at MP-10 and quarterly monitoring will resume.. A final report for the contingency monitoring will be prepared and submitted under separate cover.

Per our discussion on October 12, 2017, we agreed to perform a bar punch to demonstrate that the exceedance at MP-10 is localized, does not extend towards 437 Bank Avenue (the Kistner residence), and therefore does not present a risk to the occupied structure(s) in the vicinity of MP-10. A bar punch reading was performed at BP-1, located in the southwest corner of 437 Bank Avenue. No combustible gas was detected at BP-1 on November 15, 2017 or November 17, 2017.

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

Sincerely,



Randall C. Mills, P.G.
Senior Project Professional
SCS ENGINEERS



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

cc: Chuck DeJonckheere, Hamilton County Public Health
Nick Schapman, GHD
John Estep, Mayor, Village of St. Bernard

Enclosures

Compliance Probe Monitoring Form for St. Bernard Landfill

Date: <u>11/15/17</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>40</u>
Calibration Gas: <u>CH₄ 15%, CO₂ 15%, O₂ 4%</u>	Barometric Pressure (in Hg): <u>30.09</u>
Recalibration: <u>No</u>	Relative Humidity (%): <u>89</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							not known	
MP-7E							3	
MP-7H							2	
MP-8F							4	
MP-9							2	
MP-10	10:07	10:08	0.16	0.9	0.9	4.45	2	2.4
MP-16							2	
MP-17							2	
						--	--	--
						--	--	--
BP-1	10:32	10:33	--	0	0			

Notes:

Signature: *Randall C. Mills*

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

Compliance Probe Monitoring Form for St. Bernard Landfill

Date: <u>11/17/17</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>42</u>
Calibration Gas: <u>CH₄ 15%, CO₂ 15%, O₂ 4%</u>	Barometric Pressure (in Hg): <u>30.25</u>
Recalibration: <u>No</u>	Relative Humidity (%): <u>70</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							not known	
MP-7E							3	
MP-7H							2	
MP-8F							4	
MP-9							2	
MP-10	10:56	10:57	0.86	0.4	0.4	4.38	2	2.4
MP-16							2	
MP-17							2	
						--	--	--
						--	--	--
BP-1	12:07	12:08	--	0	0			

Notes:

Signature: *Randall C. Mills*

* A zero or negative value indicates that the probe is watered in.