

## SCS ENGINEERS

November 10, 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 8 & 10, 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 8 & 10, 2017.

MP-10 had a sustained reading of 0 percent combustible gas on November 8, 2017. MP-10 had a sustained reading of 0 percent combustible gas on November 10, 2017. Contingency monitoring will therefore continue at MP-10 until sufficient readings below 5 percent have been recorded to end contingency monitoring.

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 8, 2017 or November 10, 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>11/08/17</u>	Sampler: <u>Randall Mills</u>
Instrument: <u>GEM 5000</u>	Weather: <u>clear, moderate breeze</u>
Calibration Prior to Sampling: <u>Yes</u>	Ambient Air Temperature (°F): <u>54</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>30.24</u>
Recalibration: <u>No</u>	Relative Humidity (%): <u>52</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# (feet)
MP-1							not known	
MP-7E							3	
MP-7H							2	
MP-8F							4	
MP-9							2	
MP-10 first reading	15:09	15:10	-1.45	0	0	4.09	2	2.1
MP-16							2	
MP-17							2	
MP-10 verification						--	--	--
MP-10 purge						--	--	--
BP-1	15:26	15:27	--	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>11/10/17</u>	Sampler: <u>Randall Mills</u>
Instrument: <u>GEM 5000</u>	Weather: <u>a few high clouds, moderate breeze</u>
Calibration Prior to Sampling: <u>Yes</u>	Ambient Air Temperature (°F): <u>37</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>30.53</u>
Recalibration: <u>No</u>	Relative Humidity (%): <u>41</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# (feet)
MP-1							not known	
MP-7E							3	
MP-7H							2	
MP-8F							4	
MP-9							2	
MP-10	14:10	14:11	0.02	0	0	4.36	2	2.4
MP-16							2	
MP-17							2	
						--	--	--
						--	--	--
BP-1	14:21	14:22	--	0	0			

Notes:


Signature: *Randall C. Mills*

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