

## SCS ENGINEERS

September 27, 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, September 27, 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 September 27, 2017.

MP-10 had a sustained reading of 45.4 percent combustible gas. The verification reading had a sustained reading of 43.7 percent. Contingency monitoring will therefore continue to be implemented for MP-10.

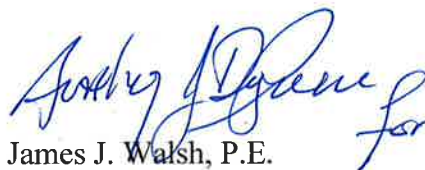
Following the initial and verification sampling for this contingency monitoring event, MP-10 was pumped for 30 minutes, at a rate of approximately 550 cc/min., using the GEM 2000. Approximately 25 casing volumes were removed from MP-10 and the combustible gas concentration was 6.6 percent. The falling methane concentration during the 30 minute purge indicates that the elevated concentration of methane is present in a small area, i.e. only a small volume of soil gas with an elevated concentration of methane is present.

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>09/27/17</u>	Sampler: <u>Randall Mills</u>
Instrument: <u>GEM 2000</u>	Weather: <u>clear, light breeze</u>
Calibration Prior to Sampling: <u>Yes</u>	Ambient Air Temperature (°F): <u>88</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>29.96</u>
Recalibration: <u>No</u>	Relative Humidity (%): <u>48</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	11:23	11:24	0	44.9	45.4	5.09	2	3.1
MP-16							2	
MP-17							2	
MP-10 verification	11:25	11:26	0	45.0	43.7	--	--	--
MP-10 purge	11:30	12:00	0	42.2	6.6	--	--	--

Notes:


Signature: *Randall C. Mills*

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