

## SCS ENGINEERS

September 14, 2016  
File No. 23212007.04

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

Subject: Village of St. Bernard Landfill  
Contingency Monitoring at MP-10

Dear Ms. Buchanan:

This letter is intended to meet the 7-day reporting requirements contained in OAC 3745-27-12 (E)(5)(g)(i). The steps taken on behalf of the Village of St. Bernard at the closed St. Bernard Landfill to ensure the protection of human health and the environment include:

- The gas extraction system was checked to ensure it was working.
- The vacuum was increased in the EW-4S and EW-3S segments of the collection system by decreasing the vacuum applied to the other segments. The EW-4S segment is the segment immediately adjacent to MP-10F. The EW-3S segment is located to the west of the EW-4S segment and MP-10.

No additional monitors are proposed at this time. All the adjacent residences are equipped with combustible gas alarms. The existing permanent monitors are sufficiently closely spaced that additional monitors are not needed.

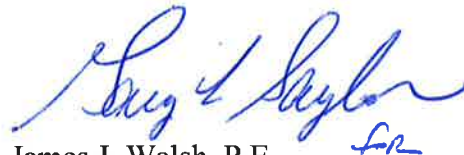
Enclosed please find the results of the initial contingency gas monitoring performed at MP-10 on September 14, 2016. Combustible gas concentrations above the compliance threshold were still detected at MP-10.

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>09/14/16</u>	Sampler: <u>Randall Mills</u>
Instrument: <u>GEM 5000</u>	Weather: <u>clear, calm</u>
Calibration Prior to Sampling: <u>Yes</u>	Ambient Air Temperature (°F): <u>63</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>30.19</u>
Recalibration: <u>No</u>	Relative Humidity (%): <u>100</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	8:46	8:47	-0.02	48.2	48.4	4.53	2	2.5
MP-16							2	
MP-17							2	
MP-10	8:51	8:52	0.02	37.3	43.0	--	--	--

Notes:

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Signature: *Randall C. Mills*

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