

## SCS ENGINEERS

November 26, 2014  
File No. 23212007.02

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

Subject: Village of St. Bernard Landfill  
Probe Monitoring Results, November 25, 2014

Dear Ms. Buchanan:

Enclosed please find the results of the gas monitoring performed on behalf of the Village of St. Bernard at the closed St. Bernard Landfill on November 25, 2014.

Combustible gas concentrations above the compliance threshold were detected at MP-9. MP-9 had an initial concentration of 14.2 percent and a sustained concentration of 15.4 percent. The immediate verification sample at MP-9 had an initial concentration of 15.8 percent and a sustained concentration of 16.2 percent. None of the other compliance probes that are monitored weekly had combustible gas concentrations above the threshold limit.

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 Health Dept.  
Nick Schapman, CRA  
Bill Burkhardt, Mayor, Village of St. Bernard

Enclosures

## Compliance Probe Monitoring Form for St. Bernard Landfill

Date: <u>11/25/2014</u>	Sampler: <u>Randall Mills</u>
Instrument: <u>GEM 5000</u>	Weather: <u>partly cloudy, moderate breeze</u>
Calibration Prior to Sampling: <u>Yes</u>	Ambient Air Temperature (°F): <u>40</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>30.14</u>
Recalibration: <u>No</u>	Relative Humidity (%): <u>63</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	11:29	11:30	0.02	0	0	-	3	
MP-7F*						-	3	
MP-7G*						-	2	
MP-7H*						-	2	
MP-8D	11:22	11:23	0.02	0	0	-	4	
MP-8E*						-	4	
MP-8F	11:26	11:27	0	0	0	-	4	
MP-8G*						-	4	
MP-9	11:16	11:17	0.03	14.2	15.4	-	2	
MP-10	11:14	11:15	0.39	0	0	-	2	
MP-15*						-	2	
MP-16	11:10	11:11	0.01	0	0	-	2	
MP-17*						-	3	
MP-9	11:19	11:20	0.04	15.8	16.2			

Notes: Next monthly round of monitoring of all compliance probe and water level measurements is scheduled for the first full week in December.

Verified blower is running.

\* Probe monitored on monthly schedule.

Signature: *Randall C. Mills*

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