Submitted Electronically

## SCS ENGINEERS

August 9, 2017 File No. 23212007.05

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

Subject: Village of St. Bernard Landfill

MP-10 Contingency Probe Monitoring Results, August 9, 2017

Dear Ms. Buchanan:

Enclosed please find the results of the contingency gas monitoring performed at MP-10 on behalf of the Village of St. Bernard at the closed St. Bernard Landfill on August 9, 2017.

MP-10 had a sustained reading of 7.9 percent combustible gas. The verification reading had a sustained reading of 7.5 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 5000. Approximately 25 casing volumes were removed from MP-10 and the combustible gas concentration was 0.6 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

Nick Schapman, GHD

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Chuck DeJonckheere, Hamilton County Public Health

John Estep, Mayor, Village of St. Bernard

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Enclosures

James J. Walsh, P.E.

Principal

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## Compliance Probe Monitoring Form for St. Bernard Landfill

Date:	08/09/17				Sampler:	Randall Mills			
nstrument GEM 5000					Weather: clear, light breeze				
Calibration Prior to Sampling: Yes					Ambient Air Temperature (°F): 61				
Calibration Gas: CH <sub>4</sub> 15%, CO <sub>2</sub> 15%, O <sub>2</sub> 4%					Barometric Pressure (in Hg): 30.23			30.23	
Recalibration: No					Relative Humidity (%): 91				
1004.2.30110.1010.1010.									
Probe ID	Start Time	Stop Time	Gas Pressure (inches water)	Initial CH₄ (% 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 <sup>#</sup> (feet)	
MP-1							not known		
MP-7E							3		
MP-7H				W			2		
MP-8F						Y.	4		
MP-9							2		
MP-10 first reading	8:42	8:43	0	7.7	7.9	4.82	2	2.8	
MP-16							2		
MP-17	0.45	0.40	0.04	7.0	7.5	Lat. 7 Ave.	2		
MP-10 verification	8:45	8:46	0.01	7.8 6.3	7.5 0.6				
MP-10 purge	8:48	9:18	0	6.3	0.6				
Notes:									
Notes.									
Signature: Rankell C. Mille									

<sup>#</sup> A zero or negative value indicates that the probe is watered in