SCS ENGINEERS

October 26, 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, October 25, 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 October 25, 2017.

MP-10 had a sustained reading of 51.6 percent combustible gas. The verification reading had a sustained reading of 51.4 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 5.5 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.

A bar punch reading was performed at BP-1, located in the southwest corner of 437 Bank Avenue property (the Kistner residence.) No combustible gas was detected at BP-1.

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

andell C. Mills

John Estep, Mayor, Village of St. Bernard

Enclosures

Compliance Probe Monitoring Form for St. Bernard Landfill

Date:	10/25/17				Sampler: Randall Mills			
Instrument	GEM 5000				Weather: cloudy, moderate breeze			
Calibration Prior to Sampling: Yes					Ambient Air Ter	mperature (°F):		51
Calibration Gas:	CH ₄ 15%, CO ₂ 15%, O ₂ 4%			Barometric Pressure (in Hg):			29.82	
Recalibration:	n: No				Relative Humidity (%): 50			50
Probe ID	Start Time	Stop Time	Gas Pressure (inches water)	Initial CH₄ (% by Volume)	Sustained CH ₄ (% 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	15:12	15:13	0.03	50.1	51.6	4.67	2	2.7
MP-16							2	
MP-17				54.0	F4.4		2	
MP-10 verification	15:15	15:16	-0.71	51.8	51.4 5.5	22		
MP-10 purge	15:19	15:20	0.03	40.1	5.5			
BP-1	16:01	16:02	==	0	0	7.3 J. 12		
Notes:								
Signature: Randell Cmille								

^{*} A zero or negative value indicates that the probe is watered in.