Submitted Electronically

## SCS ENGINEERS

August 29, 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 29, 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 29, 2017.

MP-10 had a sustained reading of 25.9 percent combustible gas. The verification reading had a sustained reading of 25.0 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 2.6 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

Candall C. Mills

Enclosures

## Compliance Probe Monitoring Form for St. Bernard Landfill

Date:	08/29/17				Sampler:	Randall Mills		
Instrument						Weather: mostly cloudy, calm		
Calibration Prior to S	Sampling	12	Yes		Ambient Air Ter	mperature (°F):		68
Calibration Gas:				D <sub>2</sub> 4%	Barometric Pressure (in Hg):		30.04	
Recalibration: No			<del>_</del>	Relative Humidity (%):		93		
5. Tellistica mantati i talive va uve a						, ,		
							Depth to	
							Top of	
_						Depth to	Screen	
· .			Gas			Water Level	(feet	
			Pressure			(feet below	below	Open
	Start	Stop	(inches	Initial CH₄ (%	Sustained CH₄	ground	ground	Screen#
Probe ID	Time	Time	water)	by Volume)	(% by Volume)	surface)	surface)	(feet)
MP-1							not known	
MP-7E							3	
MP-7H							2	
MP-8F							4	
MP-9							2	
MP-10 first reading	9:00	9:01	-0.01	25.4	25.9	5.01	2	3.0
MP-16						4:	2	
MP-17		Ē.					2	
MP-10 verification	9:03	9:04	0	25.6	25.0	33	2.5	
MP-10 purge	9:07	9:37	0.01	22.8	2.6	**		
Notes:								
4								
Signature: Randell	( milla							
Signature:	C,719000							1)

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