SCS ENGINEERS

July 12, 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, July 12, 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 July 12, 2017.

MP-10 had a sustained reading of 38.0 percent combustible gas. The verification reading had a sustained reading of 38.0 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 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.

Walsh, P.E.

SCS ENGINEERS

Principal

Should you have any questions or comments, please contact the undersigned.

Sincerely,

Randall C. Mills, P.G. Senior Project Professional

SCS ENGINEERS

Chuck DeJonckheere, Hamilton County Public Health

Nick Schapman, GHD

John Estep, Mayor, Village of St. Bernard

andall C. Mills

Enclosures

cc:

Compliance Probe Monitoring Form for St. Bernard Landfill

Date:	07/12/17				Sampler:	Randall Mills		
Instrument GEM 5000					Weather: clear, becoming overcast, calm			alm
Calibration Prior to S	Sampling	J :	Yes		Ambient Air Ter	nperature (°F):		70
Calibration Gas:	CH ₄ 15%, CO ₂ 15%, O ₂ 4			D ₂ 4%	Barometric Pressure (in Hg): Relative Humidity (%):			29.99
Recalibration:	No							59
Probe ID	Start Time	Stop Time	Gas Pressure (inches water)	Initial CH ₄ (% 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	-3.0
MP-7H							2	-2.0
MP-8F							4	-4.0
MP-9							2	-2.0
MP-10 first reading	9:19	9:20	0.24	37.7	38.0	4.38	2	2.4
MP-16							2	-2.0
MP-17 MP-10 verification	0.00	0.00	2.50	20.0	20.0		2	-2.0
MP-10 verification MP-10 purge	9:22 9:26	9:23 9:56	-2.59 0	36.9 23.9	38.0 0.6			
wir-10 puige	9.20	9.50	U	23.9	0.0			
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Notes:								
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Signature: Rankell	C. mills							

[#] A zero or negative value indicates that the probe is watered in.