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SCS ENGINEERS

December 19, 2016
File No. 23212007.04

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

Subject: Village of St. Bernard Landfill
Contingency Probe Monitoring Results, December 16, 2016

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 December 16, 2016.

Combustible gas concentrations above the compliance threshold were still detected at MP-9. MP-9 had an initial concentration of 4.7 percent and a sustained concentration of 5.0 percent. The immediate verification sample at MP-9 had an initial concentration of 5.0 percent and a sustained concentration of 4.9 percent. Contingency Monitoring will continue at MP-9 as described in the EGMP. MP-9 will be monitored weekly until the criteria for ending the contingency monitoring are met.

Combustible gas concentrations above the compliance threshold were not detected at MP-10. MP-10 had an initial concentration of 0.3 percent and a sustained concentration of 0.3 percent. The sampling to terminate contingency monitoring at MP-10, as described in the EGMP, will continue next week.

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

Enclosures

Compliance Probe Monitoring Form for St. Bernard Landfill

Date:	12/16/16	Sampler:	Randall Mills
Instrument	GEM 5000	Weather:	overcast, light breeze
Calibration Prior to Sampling:	Yes	Ambient Air Temperature (°F):	26
Calibration Gas:	CH_4 15%, CO_2 15%, O_2 4%	Barometric Pressure (in Hg):	30.18
Recalibration:	No	Relative Humidity (%):	37

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	
MP-7H							2	
MP-8F							4	
MP-9	15:29	15:30	0.02	4.7	5.0	8.04	2	6.0
MP-10	15:25	15:26	0.03	0.3	0.3	5.00	2	3.0
MP-16							2	
MP-17							2	
MP-9	15:32	15:33	0.01	5.0	4.9	--	--	--
MP-9	15:37	16:07	0.12	4.2	1.7	--	--	--
MP-10								

Notes:

Signature: Randall C. Mills

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