



ENGINEERS • SCIENTISTS • SURVEYORS • PLANNERS
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SITE INFORMATION

Owner/Permittee: Goochland County
Landfill ID: Goochland County Sanitary Landfill
Landfill Permit No.: 179
Location: Route 665, Goochland County, Virginia
Site Status: Closed
Resource Project Number: 97007.09

INSPECTION DATA

Date of Inspection: January 22, 2015
Arrival Time: 08:55
Departure Time: 12:05
Log Book: Goochland County Landfill - No. 3
Sampling Technician: Ashley Elliott
Site Contact: Leigh Dunn, Environmental Planner
Weather: Mostly cloudy; upper 20s° F
Barometric Pressure (begin): 30.06" Hg
Barometric Pressure (end): 30.02" Hg

SITE CONDITIONS

Number of monitoring probes: 19
On-site structures with crawl spaces: None
On-site structures with basements: None
Distance to nearest off-site structure
with basement or crawlspace: Approximately 100 feet
Building occupants/operator comments
regarding odor, headaches, etc.: None

SAMPLING EQUIPMENT

Type of Meter: LANDTEC GEM 2000
Date of last Calibration: January 19, 2015

SAMPLING PROCEDURES

- X Visually inspect probe integrity, including foundation pad, and note any unusual odors
- X Unlock casing to expose probe, note any unusual conditions
- X Attach gas meter inlet hose to probe

- X Open stopcock, record pressure and gas concentrations, close stopcock
- X Lock probe casing

GAS MONITORING RESULTS

The % LEL indicates the percentage of the Lower Explosive Limit of methane (CH₄). The Virginia Solid Waste Management Regulations state that compliance is achieved when the concentration of methane at the property boundary is less than 100% of the LEL. 100% of the LEL is reached when the concentration of methane in air is 5%.

Gas Probes:

Probe #	Probe locked upon arrival?	Pressure (in. of Water)	% O ₂	%LEL	Additional comments
GP-01	Yes	+0.07	17.2	0	
GP-02	Yes	+0.07	17.1	0	
GP-03	Yes	+0.09	17.8	0	
GP-04	Yes	+0.08	17.7	0	
GP-05	Yes	+0.10	17.8	0	
GP-06	Yes	+0.09	18.0	0	
GP-07	Yes	+0.05	17.5	0	
GP-08R	Yes	+0.05	17.7	0	
GP-09	Yes	+0.04	17.5	0	
GP-10	Yes	+0.04	17.4	0	
GP-11	Yes	+0.04	17.5	0	
GP-12	Yes	+0.02	16.8	0	
GP-14	Yes	+0.04	17.0	0	
GP-15	Yes	+0.02	16.9	0	
GP-16	Yes	+0.03	16.9	0	
GP-17 red	Yes	-0.01	9.3	0	
GP-17 yellow		-0.04	16.8	0	
GP-18 red	Yes	+0.13	17.7	0	
GP-18 yellow		+0.12	15.3	0	

Nested Probe Data:

GP 17, 18 & 19

Red probe is at a depth of 9-13' (17A, 18A, 19A)

Yellow probe is at a depth of 23-26' (17B, 18B, 19B)

Legend:

GP Gas Probe

Offsite Gas Probe:

Probe #	Probe locked upon arrival?	Pressure (in. of Water)	% O ₂	%LEL	Additional comments
GP-19 red	Yes	+0.14	18.5	0	
GP-19 yellow		+0.14	18.5	0	

Structures:

The % LEL indicates the percentage of the Lower Explosive Limit of methane (CH₄). The Virginia Solid Waste Management Regulations state that compliance is achieved when the concentration of methane inside property structures is less than 25 % of the LEL. 25% of the LEL is reached when the concentration of methane in air is 1.25%.

Structure	%O ₂	% LEL
Animal Shelter	18.3	0
Dept. of Parks & Recreation Equipment Storage Building	18.3	0
Attendant's Building at Convenience Center	17.4	0



Technician Signature

January 22, 2015