



ANNEX G3

LANDFILL GAS MONITORING RESULTS

**TABLE G3.1 LANDFILL GAS MONITORING RESULTS AT PERIMETER LFG MONITORING WELLS**

<b>Location</b>	<b>Water Level (mPD)</b>	<b>Methane (% (v/v))</b>	<b>Carbon Dioxide (% (v/v))</b>	<b>Oxygen (% (v/v))</b>
LFG1	2.71	0.0	0.1	19.9
LFG2	2.61	0.0	0.9	17.8
LFG3	2.76	0.0	0.1	19.4
LFG4	2.58	0.0	0.1	20.4
LFG5	3.06	0.0	0.1	20.0
LFG6	2.53	0.0	0.1	20.4
LFG7	2.91	0.0	0.2	19.4
LFG8	2.66	0.0	0.1	19.7
LFG9	2.86	0.0	0.1	19.7
LFG10	2.58	0.0	0.1	19.6
LFG11	2.69	0.0	0.1	19.5
LFG12	2.59	0.0	0.8	17.8
LFG13	2.49	10.4	0.4	7.8
LFG14	2.69	0.0	0.1	20.4
LFG15	2.64	0.0	0.1	19.9
LFG16 <sup>(a)</sup>	N/A	0.0	0.4	8.8
LFG17	3.22	0.0	1.5	15.9
LFG18	3.49	0.0	0.8	17.0
LFG19	3.96	0.0	0.1	19.3
LFG20	3.91	0.0	0.1	19.3
LFG21 <sup>(b)</sup>	N/A	N/A	N/A	N/A
LFG22 <sup>(b)</sup>	N/A	N/A	N/A	N/A
LFG23	12.69	0.0	0.1	20.0
LFG24	6.49	0.0	0.1	20.2
GP1	Probe Bent	0.0	2.7	2.8
GP2 (shallow)	Probe Bent	0.0	1.4	0.8
GP2 (deep)	Probe Bent	0.0	0.0	0.3
GP3 (shallow) <sup>(b)</sup>	Probe Bent	N/A	N/A	N/A
GP3 (deep) <sup>(b)</sup>	Probe Bent	N/A	N/A	N/A
GP4 (shallow) <sup>(b)</sup>	Probe Bent	N/A	N/A	N/A
GP4 (deep) <sup>(b)</sup>	Probe Bent	N/A	N/A	N/A
GP5 (shallow)	Probe Bent	0.0	7.1	14.6
GP5 (deep)	40.03	0.0	0.1	20.0
GP6	38.17	0.0	0.2	19.8

Location	Water Level (mPD)	Methane (% (v/v))	Carbon Dioxide (% (v/v))	Oxygen (% (v/v))
GP7	36.68	0.0	0.1	19.5
GP12	2.49	0.0	0.1	19.7
GP15	2.46	0.0	0.1	20.0
P7	2.72	0.0	0.1	19.8
P8	2.71	0.0	0.1	20.0
P9	2.74	0.0	0.1	20.0

**Note:**

(a) The water level of Monitoring well LFG16 could not be measured due to thick grass layer.

(b) Monitoring well LFG21, LFG22, GP3 and GP4 are not accessible due to the safety considerations.

**TABLE G3.2 LANDFILL GAS MONITORING AT SERVICE VOIDS, UTILITIES PITS AND MANHOLE**

Location	Methane (% (v/v))	Carbon Dioxide (% (v/v))	Oxygen (% (v/v))
UU01	0.0	0.1	20.2
UU02	0.0	0.1	20.1
UU03	Voided due to latest site programme and on-going operation work		
UU04	Unmeasurable due to being covered by silt		
UU05	0.0	0.1	20.3
UU06	0.0	0.1	19.8
UU07	0.0	0.1	19.6
UU08	0.0	0.1	20.2
UU09	0.0	0.1	19.5
UU10	0.0	0.2	20.4
UU11	0.0	0.1	20.6
UU12	Voided due to latest site programme and on-going operation work		
UU13	0.0	0.1	20.5
UU14	0.0	0.1	20.6
UU15	Unmeasurable due to being covered by silt		
UU16	0.0	0.1	19.8
UU17	Voided due to latest site programme and on-going operation work		
UU18	Voided due to latest site programme and on-going operation work		
UU19	Voided due to latest site programme and on-going operation work		
UU20	0.0	0.1	19.8
UU21	0.0	0.1	19.3
UU22	0.0	0.1	18.4
UU23	0.0	0.1	19.4
UU24	0.0	0.1	19.5
UU25	0.0	0.1	19.5

Location	Methane (% (v/v))	Carbon Dioxide (% (v/v))	Oxygen (% (v/v))
UU26	0.0	0.1	19.6
UU27	0.0	0.1	19.6
UU28	0.0	0.1	19.5

**TABLE G3.3 LANDFILL GAS BULK GAS SAMPLING MONITORING RESULTS**

Parameters	LFG8	LFG10
Methane (% (v/v))	<0.020	<0.020
Carbon Dioxide (% (v/v))	0.046	0.055
Oxygen (% (v/v))	20.2	20.3
Nitrogen (% (v/v))	74.9	75.3
Carbon Monoxide (% (v/v))	<0.020	<0.020
Hydrogen (% (v/v))	<0.020	<0.020
Ethane (ppmv)	<1.0	<1.0
Propane (ppmv)	<1.0	<1.0
Butane (ppmv)	<1.0	<1.0

**TABLE G3.4 FLAMMABLE GAS SURFACE EMISSION MONITORING RESULTS**

Time	GPS Coordinates Latitude (N)	Longitude (E)	Weather Condition	Temperature (°C)	Wind Direction (Deg)	Wind Speed (m/s)	Monitoring Results (ppm)
10:59	22°16"27'	114°16"34'	Cloudy	22.2	008	4.4	21
11:11	22°16"16'	114°16"32'	Cloudy	23.7	235	1.4	8