

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	2.58	0.0	0.4	19.1
LFG2	2.47	0.0	1.2	19.1
LFG3	2.54	0.1	0.1	21.2
LFG4	2.5	0.0	0.1	21.2
LFG5	3.44	0.0	0.3	9.3
LFG6	2.49	0.0	0.1	21.1
LFG7	2.77	0.0	0.0	18.5
LFG8	2.7	0.0	0.1	21.3
LFG9	2.75	0.0	0.3	7.4
LFG10	2.41	0.0	0.0	21.4
LFG11	2.11	0.0	0.5	2.8
LFG12	2.56	0.0	0.0	21.4
LFG13	2.27	10.6	0.0	12.2
LFG14	2.06	0.0	0.2	12.8
LFG15	4.46	0.1	0.1	19.7
LFG16	2.62	0.1	0.1	20.9
LFG17	2.96	0.0	0.1	20.5
LFG18	2.95	0.0	0.1	20.4
LFG19	3.07	0.0	0.2	8.3
LFG20	2.99	0.0	0.8	19.6
LFG21	3.1	0.0	3.0	14.5
LFG22	2.77	0.0	2.3	12.3
LFG23	12.52	0.0	1.9	19.6
LFG24	6.36	0.0	0.5	20.1
GP1	Probe bent	0.0	6.4	13.4
GP2 (shallow)	Probe bent	0.0	0.5	19.6
GP2 (deep)	Probe bent	0.0	5.3	13.6
GP3 (shallow)	Probe bent	0.0	0.3	20.5
GP3 (deep)	Probe bent	0.0	0.2	20.6
GP4 (shallow)	Probe bent	0.0	0.2	20.6
GP4 (deep)	Probe bent	0.0	0.1	20.6
GP5 (shallow)	Probe bent	0.0	7.1	16.2
GP5 (deep)	38.81	0.0	0.0	20.7
GP6	36.18	0.0	2.8	17.5
GP7	36.24	0.0	0.0	20.8
GP12	2.01	0.0	0.1	21.1
GP15	2.55	0.0	0.1	21.0
P7	2.51	0.0	0.1	20.8
P8	2.64	0.0	0.1	21.0
P9	2.5	0.0	0.3	20.8

**Table G3.2 Landfill Gas Monitoring Results at Service Voids, Utilities Pits and Manholes**

Location	Methane (% (v/v))	Carbon Dioxide (% (v/v))	Oxygen (% (v/v))
UU01	0.0	0.0	20.9
UU02	0.0	0.0	20.9
UU03	0.1	0.0	20.8
UU04	0.1	0.0	20.8
UU05	Unmeasurable due to overflow of water		
UU06	0.2	0.0	20.6
UU07	0.1	0.0	20.9
UU08	0.2	0.0	20.6
UU09	Inaccessible due to on-going construction work		
UU10	0.0	0.0	20.3
UU11	0.0	0.0	20.6
UU12	Voided due to latest site programme and on-going operation work		
UU13	0.0	20.3	79.7
UU14	0.0	20.4	79.5
UU15	0.0	20.4	79.6
UU16	0.0	20.3	79.7
UU17	Voided due to latest site programme and on-going operation work		
UU18	0.0	20.3	79.6
UU19	0.0	20.9	79.0
UU20	0.0	20.6	79.4
UU21	0.0	20.6	79.4
UU22	0.0	20.5	79.5
UU23	0.0	20.5	79.5
UU24	0.0	20.1	79.8
UU25	0.0	20.1	79.8
UU26	Inaccessible due to on-going construction work		
UU27	0.0	20.6	79.4
UU28	0.0	20.5	79.4

**Table G3.3 Landfill Gas Bulk Gas Sampling Monitoring Results**

Parameters	LFG1	LFG8
Methane (% (v/v))	<0.0200	<0.020
Carbon Dioxide (% (v/v))	0.419	0.138
Oxygen (% (v/v))	15.6	17.2
Nitrogen (% (v/v))	80.6	79.2
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)	
14:54	22°16'26"	114°16'35"	Sunny	26.4	146	0.9	25
16:01	22°16'26"	114°16'34"	Sunny	25.8	185	1.7	11