



ANNEX G3

LANDFILL GAS MONITORING RESULTS

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

Location	Water Level (mPD)	Methane (% (v/v))	Carbon Dioxide (% (v/v))	Oxygen (% (v/v))
LFG1	3.07	0.2	1.7	16.2
LFG2	2.83	0.2	1.0	18.8
LFG3	3.14	0.2	0.1	18.0
LFG4	3.24	0.1	0.0	19.8
LFG5	2.91	0.1	0.1	18.9
LFG6	2.86	0.1	0.2	18.3
LFG7	3.61	0.0	0.0	18.6
LFG8	3.01	0.0	0.1	19.5
LFG9	3.24	0.0	0.0	19.8
LFG10	3.41	0.0	0.0	20.0
LFG11	4.03	0.0	0.0	20.0
LFG12	3.03	0.0	0.0	20.0
LFG13	2.65	0.0	0.0	20.2
LFG14	2.86	0.3	0.0	20.3
LFG15	2.61	0.3	0.5	17.8
LFG16	3.1	0.0	0.5	17.6
LFG17	3.22	1.1	2.8	2.7
LFG18	5.41	0.0	0.2	19.2
LFG19	4.31	0.0	0.0	19.3
LFG20	4.36	0.0	0.0	19.0
LFG21	4.14	0.0	0.0	19.6
LFG22	3.82	0.0	0.0	19.5
LFG23	12.94	0.0	0.0	19.4
LFG24	6.91	0.0	0.0	19.5
GP1	Probe Bent	0.1	7.3	4.4
GP2 (shallow)	Probe Bent	0.0	0.6	18.9
GP2 (deep)	Probe Bent	0.0	0.1	19.7
GP3 (shallow)	Probe Bent	0.0	0.2	19.6
GP3 (deep)	Probe Bent	0.0	0.2	19.5
GP4 (shallow)	Probe Bent	0.0	0.9	18.8
GP4 (deep)	Probe Bent	0.0	0.5	19.4
GP5 (shallow)	Probe Bent	0.0	8.4	18.6
GP5 (deep)	42.57	0.0	0.1	19.5
GP6	40.32	0.0	1.6	17.1

Location	Water Level (mPD)	Methane (% (v/v))	Carbon Dioxide (% (v/v))	Oxygen (% (v/v))
GP7	36.88	0.0	0.3	18.5
GP12	2.49	0.0	0.2	18.8
GP15	3.43	0.1	0.0	19.5
P7	2.9	0.0	0.2	18.7
P8	3.17	0.2	0.1	19.4
P9	3.02	0.1	0.0	19.4

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	0.0	19.8
UU02	0.0	0.0	19.8
UU03	Voided due to latest site programme and on-going operation work		
UU04	0.0	0.0	19.7
UU05	0.0	0.0	19.7
UU06	0.0	0.0	19.7
UU07	0.0	0.0	19.7
UU08	0.0	0.0	19.6
UU09	0.1	0.0	19.7
UU10	0.1	0.0	19.7
UU11	0.1	0.0	19.7
UU12	Voided due to latest site programme and on-going operation work		
UU13	0.1	0.1	19.7
UU14	0.1	0.1	19.8
UU15	0.1	0.0	19.7
UU16	0.1	0.0	19.6
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	0.1	0.0	19.5
UU21	0.1	0.0	19.4
UU22	0.1	0.0	19.4
UU23	0.1	0.0	19.3
UU24	0.1	0.0	19.2
UU25	0.0	0.0	19.2
UU26	0.0	0.0	19.1
UU27	0.0	0.0	19.0
UU28	0.0	0.0	18.9

TABLE G3.3 LANDFILL GAS BULK GAS SAMPLING MONITORING RESULTS

Parameters	LFG2	LFG8
Methane (% (v/v))	<0.020	<0.020
Carbon Dioxide (% (v/v))	1.14	0.16
Oxygen (% (v/v))	19.2	20.1
Nitrogen (% (v/v))	79.5	76.9
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)
13:47	22°16'34"	114°16'27"	Sunny	31.9	139	1.6	23
14:04	22°16'32"	114°16'44"	Sunny	33.2	122	0.6	28
14:08	22°16'32"	114°16'42"	Sunny	33.0	101	0.8	23
14:10	22°16'33"	114°16'41"	Sunny	32.9	124	2.5	21
14:15	22°16'34"	114°16'37"	Sunny	32.8	297	0.5	16
14:18	22°16'30"	114°16'36"	Sunny	32.2	233	2.6	7
14:23	22°16'26"	114°16'35"	Sunny	32.7	168	1.9	7
14:32	22°16'26"	114°16'26"	Sunny	32.2	173	1.9	7
14:36	22°16'21"	114°16'26"	Sunny	31.2	138	2.0	8
14:54	22°16'17"	114°16'37"	Sunny	31.9	245	1.2	13
15:07	22°16'16"	114°16'30"	Sunny	31.3	072	1.9	25