APPENDIX I

GAS MONITORING FOR; Roadstone Quarry, Blessington
DATE; 21/03/2003

BOREHOLE	METHANE CH_4	CARBON DIOXIDE CO_2	OXYGEN O_2	CARBON MONOXIDE CO (ppm)	HYDROGEN SULPHIDE H_2S (ppm)	BAROMETRIC PRESSURE (mb)	RELATIVE PRESSURE (mb)
BH 6/11	0	7.6	7.4	0	0	999	-2.7
BH 6/10	30.3	15.1	5.0	0	0	999	-2.7
BH 6/12	1.4	0.1	13.8	0	0	999	-2.7
GW 6/3	0	1.7	14.4	0	0	998	-2.5
GW 6/1	0	1.1	18.0	0	0	998	-2.5
GW 6/2	0	2.2	16.0	0	0	998	-2.5
GW 4/3	0	5.1	9.7	0	0	998	-2.5
BH 4/10	0	0.1	19.4	0	0	998	-2.5
GW 1/1	0	1.4	17.6	0	0	998	-2.5
BH 1/10	12.2	8.7	3.3	0	0	998	-2.5
BH 1/12	2	0	17.6	0	0	995	-2.3
BH 1/13	63.8	11.2	0.5	4	0	995	-2.3
BH 1/14	0.2	3.1	5.0	0	0	994	-2.3
BH 1/11	6	11.9	8.1	0	0	995	-2.2
GW 1/2	0	0	20.0	0	0	995	-2.2

Gas detection employed by a GA2000 Landfill Gas Analyser which measures CH_4 and CO_2 in % by Infra-red measurement, CO and H_2S in ppm and O_2 in % by internal electrochemical cell measurement.

DATE; 14/04/2003

BOREHOLE	METHANE CH_4	CARBON DIOXIDE CO_2	OXYGEN O_2	CARBON MONOXIDE CO (ppm)	HYDROGEN SULPHIDE H_2S (ppm)	BAROMETRIC PRESSURE (mb)	Flow Rate L/hr	LEL %
BH1/10	0	0	21.3	n/a	n/a	978	0	0
BH1/11	6	3.7	13.6	n/a	n/a	980	see not	>100
BH1/12	1.7	0	18.2	n/a	n/a	979	see note	34
BH1/13	63	11	2.4	n/a	n/a	977	0.2	>100
BH1/14	0	0	20.7	0	0	981	n/a	0
GW1/1	0	0	21.2	n/a	n/a	977	0	0
GW1/2	0	0.1	20.3	0	0	981	n/a	0
GW1/3	0	0.5	19.2	0	0	981	n/a	0
GW1/4	0	0.1	20.5	n/a	n/a	981	n/a	0
BH4/10	0	0	20.7	0	0	982	n/a	0
BH4/11	0.9	0.8	19.5	70	0	982	n/a	18
BH4/12	1.2	0.6	20.1	4	0	981	n/a	24
GW4/3	0	0.2	20.5	0	0	982	n/a	0
GW4/4	0	0.2	19.7	0	0	982	n/a	0
BH6/10	17.1	9	12.8	1	0	987	n/a	>100
BH6/11	0.1	0	20.9	1	0	982	n/a	2
BH6/12	1.2	0	18.2	0	0	982	n/a	24
GW6/1	0	1.7	16.7	1	0	982	n/a	0
GW6/2	0	0.1	20.9	2	0	982	n/a	0
GW6/3	0	0	20.9	0	0	982	n/a	0

Gas detection employed by a GA2000 Landfill Gas Analyser which measures CH_4 and CO_2 in % by Infra-red measurement, CO and H_2S in ppm and O_2 in % by internal electrochemical cell measurement.
For results with a low rate the gas detection was employed by a GA1.1 Landfill Gas Analyser which measures CH4 and CO2 in % by infra-red measurement and was last calibrated on the 14/02/03.

note: BH1/11 the flow rate reading began at .7l/h and after 5 seconds levelled off at 0 l/h
BH1/12 the flow rate reading began at .6l/h and after 5 seconds levelled oss at .2l/h

DATE; 21/05/2003

BOREHOLE	METHANE CH_4	CARBON DIOXIDE CO_2	OXYGEN O_2	CARBON MONOXIDE CO (ppm)	HYDROGEN SULPHIDE H_2S (ppm)	BAROMETRIC PRESSURE (mb)	Flow Rate L/hr
BH1/10	3	5.2	8.7			978	0.2
BH1/11	8.8	5.8	8			986	<0.1
BH1/12	20	0.5	13.5			987	1
BH1/13	64	9.5	2.6			987	1.7
BH1/14	1.1	2.4	9.8	0	0	988	<0.1
GW1/2	0	0.1	20.6	0	0	990	<0.1
GW1/3	0	0	20.2	0	0	984	<0.1
GW1/4	0	1.1	17.1			985	<0.1
BH4/10	0.1	0.8	16.8	0	0	991	
BH4/11	54.3	16.6	2	0	0	992	
BH4/12	0.3	0.2	20.5	0	0	991	
GW4/3	0.1	3	15.8	0	0	991	
GW4/4	0	0.2	20.1	0	0	990	
BH6/10	14.9	7.8	15.5	0	0	991	<0.1
BH6/11	0.1	0.1	20.4	0	0	992	<0.1
BH6/12	6.5	1	2	0	0	991	<0.1
GW6/3	0	0	20.8	0	0	992	

Gas detection employed by a GA2000 Landfill Gas Analyser which measures CH_4 and CO_2 in % by Infra-red measurement, CO and H_2S in ppm and O_2 in % by internal electrochemical cell measurement.
For results with a low rate the gas detection was employed by a GA1.1 Landfill Gas Analyser which measures CH4 and CO2 in % by infra-red measurement and was last calibrated on the 14/02/03.