

APPENDIX 3.9

**Detailed Results of
Construction Dust
Assessment**

Appendix 3.9a: Detailed Results for Construction Dust Assessment

Project: WENT Landfill Extension

FDM Results

ASR	Location	Height (m)	Scenario													
			Scenario 1A		Scenario 1B		Scenario 2A		Scenario 2B		Scenario 2C		Scenario 3A		Scenario 3B	
			1-hr TSP	24-hr TSP	1-hr TSP	24-hr TSP	1-hr TSP	24-hr TSP	1-hr TSP	24-hr TSP	1-hr TSP	24-hr TSP	1-hr TSP	24-hr TSP	1-hr TSP	24-hr TSP
A1-1	West Ha Pak Nai	1.5	143	116	143	116	150	120	218	129	218	129	153	121	217	130
		5	143	116	143	116	154	121	213	130	213	130	156	122	212	131
		10	136	114	136	114	148	119	180	126	180	126	149	120	180	126
A1-2	West Ha Pak Nai	1.5	147	116	147	116	157	120	220	128	221	128	160	120	212	127
		5	147	116	147	116	158	121	216	129	218	129	162	121	207	129
		10	140	114	139	114	149	118	187	125	188	125	153	119	178	125
A1-3	West Ha Pak Nai	1.5	188	123	188	123	195	127	243	139	243	139	201	128	243	140
		5	166	119	165	119	173	125	228	137	228	137	180	128	228	138
		10	141	116	141	116	150	121	185	130	185	130	155	125	186	130
A1-4	East Ha Pak Nai	1.5	128	108	128	108	138	111	149	113	148	113	140	112	149	114
		5	130	109	130	109	142	112	152	114	151	114	144	113	152	115
		10	127	109	127	108	138	111	147	113	146	113	140	112	146	114
A2-1	Black Point Power Station (Office)	1.5	117	107	117	107	142	117	137	117	129	114	140	114	137	114
		5	119	107	119	107	143	118	138	118	131	115	143	115	140	115
		10	118	107	118	107	137	117	132	117	129	114	140	114	137	114
A3-1	STF Office	1.5	192	128	159	123	203	132	160	124	160	124	174	128	165	127
		5	180	127	156	123	199	133	158	124	158	124	174	128	163	127
		10	149	121	139	119	172	127	146	120	146	120	161	123	149	123
A4-1	Lung Kwu Sheung Tan	1.5	118	106	118	106	134	110	134	110	134	111	135	110	134	110
		5	119	107	119	107	137	111	137	111	137	112	138	111	137	111
		10	118	106	118	106	135	111	135	111	135	111	135	111	135	110

Note: TSP background of 103µg/m³ has been incorporated.

Appendix 3.9b: Detailed Results for Construction Dust Assessment

Project: WENT Landfill Extension

FDM Results (Annual)

ASR	Location	Height (m)	Scenario 1 Cumulative (Existing + Extensions) ^[1] Annual	Scenario 2 Cumulative (Existing + Extensions) ^[1] Annual	Scenario 3 Cumulative (Existing + Extensions) ^[1] Annual
A1-1	West Ha Pak Nai	1.5	104	105	105
		5	104	105	105
		10	104	105	105
A1-2	West Ha Pak Nai	1.5	104	105	105
		5	104	105	105
		10	104	105	105
A1-3	West Ha Pak Nai	1.5	105	106	106
		5	105	106	106
		10	104	105	105
A1-4	East Ha Pak Nai	1.5	103	104	104
		5	104	104	104
		10	103	104	104
A2-1	Black Point Power Station (Office)	1.5	104	107	107
		5	104	107	107
		10	104	107	107
A3-1	STF Office	1.5	113	115	116
		5	113	115	116
		10	111	113	114
A4-1	Lung Kwu Sheung Tan	1.5	103	104	104
		5	103	104	104
		10	103	104	104

Note: ^[1] with TSP background of 103µg/m³.

Appendix 3.9b: Detailed Results for Construction Dust Assessment

Project: WENT Landfill Extension

FDM Results (Annual) - Contribution from Extension Only

ASR	Location	Height (m)	Scenario 1 Contribution from Extensions Only Annual	Scenario 2 Contribution from Extensions Only Annual	Scenario 3 Contribution from Extensions Only Annual
A1-1	West Ha Pak Nai	1.5	0.2	0.3	0.4
		5	0.2	0.3	0.5
		10	0.2	0.3	0.5
A1-2	West Ha Pak Nai	1.5	0.1	0.3	0.4
		5	0.2	0.3	0.4
		10	0.2	0.3	0.4
A1-3	West Ha Pak Nai	1.5	0.2	0.4	0.4
		5	0.2	0.4	0.5
		10	0.2	0.4	0.4
A1-4	East Ha Pak Nai	1.5	0.1	0.2	0.3
		5	0.1	0.2	0.3
		10	0.1	0.2	0.3
A2-1	Black Point Power Station (Office)	1.5	0.4	3.0	2.9
		5	0.5	3.2	3.1
		10	0.5	3.0	3.0
A3-1	STF Office	1.5	3.3	3.6	4.9
		5	3.2	3.6	4.9
		10	2.4	2.8	4.0
A4-1	Lung Kwu Sheung Tan	1.5	0.1	0.8	0.8
		5	0.2	0.9	0.9
		10	0.1	0.8	0.8