

Appendix 3.4 Summary of the Predicted Air Quality Impacts with the Operation of the Project

ASR	Description	No. of floor	X	Y	Z	H	NO ₂			RSP			SO ₂			CO			HCL			TOC			Mercury			Dioxin			
							Hourly Average	Daily Average	Annual Average	Hourly Average	Daily Average	Annual Average	Hourly Average	Daily Average	Annual Average	Hourly Average	Daily Average	Annual Average	Hourly Average	Daily Average	Annual Average	Hourly Average	Daily Average	Annual Average	Hourly Average	Daily Average	Annual Average		Hourly Average	Daily Average	Annual Average
A1	Cape Collinson Crematorium Staff Quarters	2	841769.4	813142.2	156.7	1.5	177.4	121.4	59.5	56.8	50.3	300.5	46.5	17.2	957.0	845.6	4.7E-01	2.0E-01	2.0E-01	3.4	3.4	7.9E-02	5.3E-04	7.2E-02	7.2E-02						
A2	Tai Tam Gap Correctional Institution	4	841903.3	813098.4	156	4.5	159.3	87.0	58.0	53.2	50.1	214.6	30.2	16.5	909.3	819.2	3.3E-01	7.7E-02	7.7E-02	1.6	1.6	5.5E-02	3.3E-04	7.1E-02							
A3	Hong Kong Buddhist Cemetery Staff Quarters	2	842039	813118.7	138.6	1.5	129.1	67.0	57.1	51.1	50.0	71.4	20.7	16.0	829.8	807.4	9.2E-00	7.1E-03	7.1E-03	0.5	0.5	1.6E-02	2.1E-04	7.1E-02							
A4	Sai Wan War Cemetery Office	1	842179.8	813285.1	104.9	1.5	106.8	62.7	57.4	50.6	50.0	39.6	18.7	16.2	830.0	807.3	9.3E-00	7.3E-03	7.3E-03	0.5	0.5	1.6E-02	2.1E-04	7.1E-02							
A5	Cape Collinson Masjid	1	842076	813385.2	65.8	1.5	63.6	57.5	57.0	50.1	50.0	19.1	16.2	16.0	800.7	799.4	5.2E-01	4.9E-04	4.9E-04	0.3	0.0	1.1E-03	2.0E-04	7.1E-02							
A6	King Tsui Court	34	841782.8	813465.6	64.4	1.5	57.2	57.0	57.0	50.0	50.0	16.1	16.0	16.0	799.0	799.0	1.4E-02	0.0E+00	0.0E+00	0.0	0.0	2.2E-04	2.0E-04	7.1E-02							
A7	Staff Quarters of Water Supplies Department	2	841497.9	813392.5	107.4	4.5	106.4	60.0	57.2	50.3	50.0	39.4	17.4	16.1	812.0	801.6	3.9E-00	1.6E-02	1.6E-02	2.6	0.2	6.7E-03	2.3E-04	7.1E-02							
A8	Fung Wah Estate - Sai Fung House	34	841782.8	813465.6	60	1.5	64.6	57.4	57.0	50.0	50.0	19.6	16.2	16.0	801.0	799.3	6.0E-01	1.3E-04	1.3E-04	0.4	0.0	1.2E-03	2.0E-04	7.1E-02							
A9	Fung Wah Estate - Hin Fung House	34	841782.8	813465.6	61.5	1.5	64.8	57.4	57.0	50.0	50.0	19.7	16.2	16.0	801.1	799.3	6.2E-01	1.4E-04	1.4E-04	0.4	0.0	1.2E-03	2.0E-04	7.1E-02							
						10	63.3	57.5	57.0	50.1	50.0	20.0	16.2	16.0	801.2	799.3	6.6E-01	1.6E-04	1.6E-04	0.4	0.0	1.3E-03	2.0E-04	7.1E-02							
						20	67.6	57.6	57.0	50.1	50.0	21.0	16.3	16.0	801.8	799.4	8.3E-01	2.0E-04	2.0E-04	0.6	0.0	1.6E-03	2.0E-04	7.1E-02							
						40	76.3	58.4	57.0	50.1	50.0	25.1	16.7	16.0	804.1	799.7	1.5E-00	9.0E-04	9.0E-04	1.0	0.1	2.7E-03	2.0E-04	7.1E-02							
						60	89.7	60.0	57.0	50.3	50.0	31.5	17.4	16.0	807.6	800.5	2.6E-00	2.8E-03	2.8E-03	1.7	0.2	4.5E-03	2.0E-04	7.1E-02							
						80	124.2	62.4	57.1	50.6	50.0	48.3	18.6	16.0	816.9	802.5	5.4E-00	6.9E-03	6.9E-03	3.6	0.3	9.2E-03	2.1E-04	7.1E-02							
						85	125.4	63.1	57.1	50.6	50.0	53.9	18.9	16.1	820.0	803.1	6.3E-00	8.6E-03	8.6E-03	4.2	0.3	1.1E-02	2.1E-04	7.1E-02							
						90	126.5	63.8	57.1	50.7	50.0	59.2	19.2	16.1	823.0	803.6	7.2E-00	1.1E-02	1.1E-02	4.8	0.4	1.2E-02	2.2E-04	7.1E-02							
						95	133.6	64.4	57.2	50.8	50.0	93.0	19.5	16.1	841.8	805.1	1.3E+01	1.4E-02	1.4E-02	8.6	0.4	2.2E-02	2.2E-04	7.1E-02							
						98	138.7	66.9	57.2	51.0	50.0	117.0	20.7	16.1	855.1	807.0	1.7E+01	1.6E-02	1.6E-02	11.2	0.5	2.8E-02	2.3E-04	7.1E-02							
						1.5	59.3	57.1	57.0	50.0	50.0	17.1	16.1	16.0	799.1	799.1	1.8E-01	4.0E-06	4.0E-06	0.1	0.0	5.0E-04	2.0E-04	7.1E-02							
						5	59.4	57.1	57.0	50.0	50.0	17.1	16.1	16.0	799.6	799.6	1.9E-01	4.0E-06	4.0E-06	0.1	0.0	5.2E-04	2.0E-04	7.1E-02							
						10	59.9	57.2	57.0	50.0	50.0	17.4	16.1	16.0	799.8	799.1	2.3E-01	5.0E-06	5.0E-06	0.2	0.0	5.8E-04	2.0E-04	7.1E-02							
						20	62.1	57.3	57.0	50.0	50.0	18.4	16.1	16.0	800.3	799.2	4.0E-01	1.0E-04	1.0E-04	0.3	0.0	8.7E-04	2.0E-04	7.1E-02							
						40	72.8	58.0	57.0	50.1	50.0	23.5	16.5	16.0	803.2	799.6	1.2E+00	5.1E-04	5.1E-04	0.8	0.1	2.3E-03	2.0E-04	7.1E-02							
						60	95.5	59.7	57.0	50.3	50.0	34.2	17.3	16.0	809.1	800.4	3.0E+00	2.3E-03	2.3E-03	2.0	0.1	5.3E-03	2.0E-04	7.1E-02							
						80	126.2	62.8	57.1	50.6	50.0	57.7	18.7	16.0	822.1	802.5	6.9E+00	7.5E-03	7.5E-03	4.6	0.3	1.2E-02	2.1E-04	7.1E-02							
						85	128.4	63.7	57.1	50.7	50.0	68.3	19.2	16.1	828.1	803.4	8.7E+00	9.9E-03	9.9E-03	5.8	0.4	1.5E-02	2.2E-04	7.1E-02							
						90	132.2	65.2	57.2	50.9	50.0	86.1	19.9	16.1	837.9	804.1	1.2E+01	1.3E-02	1.3E-02	7.8	0.4	2.0E-02	2.2E-04	7.1E-02							
						95	149.2	74.7	57.2	51.9	50.0	166.7	24.4	16.1	882.7	811.4	2.5E+01	1.9E-02	1.9E-02	16.7	0.9	4.2E-02	2.3E-04	7.1E-02							
						98	162.4	82.0	57.3	52.6	50.0	229.2	27.8	16.1	917.4	818.5	3.6E+01	2.3E-02	2.3E-02	23.7	1.3	5.9E-02	2.4E-04	7.1E-02							
						AOQ=	300	150	80	180	55	800	350	80	3000	1000	2100	20	-	-	-	0.6	1	40							

Remark: The table of background concentration.

Appendix 3.4 Summary of the Predicted Air Quality Impacts with the Operation of the Project

Year	Annual Average Monitoring Data from EFD Quality Monitoring Station										
	EPD Monitoring Station										
	Eastern	Eastern	Eastern	Average of Tsuen Wan, Tung Chung, Yuen Long and Tap Mun			NA	NA	Central/ Western	Central/ Western	
NO2 (ug/m3)	SO2 (ug/m3)	RSP (ug/m3)	Tsuen Wan	Tung Chung	Yuen Long	Tap Mun	HCL (ug/m3)	TOC (ug/m3)	Mercury (ng/m3)	Dioxins(PgI-TEQ/m3)	
1996					NA		NA	NA	0.2		
1997					NA		NA	NA	0.19		
1998					NA		NA	NA	0.18		
1999					NA		NA	NA	0.21		
2000					NA		NA	NA	0.22		
2001					NA		NA	NA	NA		
2002				783	NA	NA	NA	NA	NA		
2003	57	13	49	NA	706	NA	793	NA	NA	0.066	
2004	62	18	54	661	799	917	787	NA	NA	0.073	
2005	56	15	49	660	923	1038	759	NA	NA	0.082	
2006	54	15	47	581	782	841	726	NA	NA	0.060	
2007	56	18	49	651	819	969	847	NA	NA	0.072	
Averaged=	57	16	50		799			NA	NA	0.20	0.071