

Appendix 3.10

**Predicted odour level
under various modes of
operations**

Appendix 3.10: Odour Impact at ASRs (Various Tipping Areas + Covered Existing & Future Lagoons + Daily Cover)

ASR ID	Description	Central Tipping Area Cumulative odour impact, with 99% odour removal filter at existing & future lagoon (OU), odour emission strength at 28deg C as reasonably worst case scenario (Yr01 to 04)			West End Tipping Area Cumulative odour impact, with 99% odour removal filter at existing & future lagoon (OU), odour emission strength at 28deg C as reasonably worst case scenario (Yr01 to 04)			North End Tipping Area Cumulative odour impact, with 99% odour removal filter at existing & future lagoon (OU), odour emission strength at 28deg C as reasonably worst case scenario (Yr01 to 04)		
		1.5m	5m	10m	1.5m	5m	10m	1.5m	5m	10m
		ASR1	Wo Keng Shan Tsuen Village houses at Junction of Ng Chow Road and Wo Keng Shan Road	0.5	0.4	0.3	3.7	3.1	1.8	1.4
ASR2	Cheung Shan Wu Tse	0.1	0.1	0.1	2.2	2.1	1.8	1.2	1.2	1.1
ASR3	Man Uk Pin	0.1	0.1	0.1	0.6	0.5	0.5	0.1	0.1	0.1
ASR4	Man Uk Pin	0.9	0.9	0.8	0.2	0.2	0.2	0.2	0.8	0.8
ASR5	Miu Keng	1.4	1.3	1.2	0.9	0.9	0.8	0.1	0.1	0.1
ASR6	Heung Yuen Wai	0.2	0.2	0.1	0.1	0.1	0.1	0.2	0.2	0.2
ASR7	Tsung Yuen Ha	0.5	0.5	0.4	0.8	0.8	0.7	0.1	0.1	0.1
ASR8	Ha Heung Yuen	0.7	0.7	0.6	1.0	0.9	0.8	1.1	1.1	1.0
ASR9	Lin Ma Hang	0.4	0.3	0.3	0.2	0.2	0.2	1.7	1.6	1.2
ASR10	Tung Lo Hang	0.6	0.3	0.2	0.6	0.3	0.2	0.9	0.8	0.7
ASR11	Chuk Yuen	0.1	0.1	0.1	0.8	0.8	0.7	0.3	0.3	0.3
ASR12	Nga Yiu Ha	0.9	0.8	0.7	2.1	2.0	1.7	0.5	0.4	0.4
ASR13	Ping Yeung	1.6	1.5	1.3	0.3	0.2	0.2	1.5	1.5	1.3
ASR14	Ping Che	0.6	0.6	0.6	0.2	0.2	0.1	0.2	0.2	0.2
ASR15	Ping Che Kat Tin	0.7	0.7	0.6	0.5	0.5	0.5	0.1	0.1	0.1
ASR16	Kan Tau Wai	0.1	0.1	0.1	0.2	0.2	0.2	0.6	0.6	0.5
ASR17	Tong Fong	0.7	0.6	0.6	0.8	0.8	0.7	0.1	0.1	0.1
ASR18	Fung Wong Wu	0.3	0.3	0.3	0.3	0.3	0.3	0.1	0.1	0.1
ASR19	Lei Uk	0.2	0.2	0.2	0.1	0.1	0.1	0.3	0.3	0.3
ASR20	Chow Tin Tsuen	0.5	0.5	0.5	0.6	0.6	0.5	0.1	0.1	0.1
ASR21	Tai Po Tin	0.5	0.5	0.4	0.0	0.0	0.0	0.0	0.0	0.0
ASR22	Ha Shan Kai Wat	0.4	0.4	0.4	0.1	0.1	0.1	0.0	0.0	0.0
ASR23	Sheung Shan Kai Wat	0.1	0.1	0.1	0.5	0.5	0.5	0.4	0.4	0.4
ASR24	Tai Tong Wu	0.7	0.7	0.7	0.8	0.8	0.7	0.4	0.4	0.4
ASR25	Loi Tung	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.1
ASR26	Tong To Shan Tsuen (derelict and vacant - no active use in the past 10 years)	1.8	1.7	1.2	2.4	2.3	1.9	7.4	6.2	3.4
ASR27	sub-max: max: % to the TM-EIAO criteria:	1.8 7.4 148%	1.7 7.4 148%	1.3	3.7	3.1	1.9	7.4	6.2	3.4

(33hrs exceed in 4 years) (18hrs exceed in 4 years)

Appendix 3.10: Tipping at Northern End Area - Existing & Future Lagoons - Daily Cover

ASR ID	Description	cumulative odour impact, with 99% odour removal filter at existing & future lagoon (OU), odour emission strength at Z8099 C as reasonably worst case scenario (Yr01)				cumulative odour impact, with 99% odour removal filter at existing & future lagoon (OU), odour emission strength at Z8099 C as reasonably worst case scenario (Yr02)				cumulative odour impact, with 99% odour removal filter at existing & future lagoon (OU), odour emission strength at Z8099 C as reasonably worst case scenario (Yr03)				cumulative odour impact, with 99% odour removal filter at existing & future lagoon (OU), odour emission strength at Z8099 C as reasonably worst case scenario (Yr04)			
		1.5m	5m	10m	1.5m	5m	10m	1.5m	5m	10m	1.5m	5m	10m	1.5m	5m	10m	
ASR1	Wo Kong Shan Tsuen	1.4	1.3	1.1	1.4	1.3	1.1	1.5	1.3	1.3	1.0	1.1	1.4	1.3	1.3		
ASR2	Village houses at Junction of Ng Chow Road and Wo Kong Shan Road	1.2	1.2	1.1	1.2	1.2	1.2	1.2	1.2	1.2	1.1	1.1	1.2	1.2	1.1		
ASR3	Chung Shan Wu Tsui	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		
ASR4	Man Uk Pin	0.9	0.8	0.8	0.9	0.8	0.8	0.9	0.8	0.8	0.8	0.8	0.9	0.8	0.8		
ASR5	Man Uk Pin	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		
ASR6	Miu Kong	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2		
ASR7	Hing Yuen Wai	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		
ASR8	Hing Yuen Pui	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		
ASR9	Ha Tsang Tsuen	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1		
ASR10	Ha Tsang Tsuen	1.7	1.6	1.3	1.7	1.6	1.3	1.7	1.6	1.3	1.2	1.2	1.7	1.6	1.2		
ASR11	Tin Ma Tsung	0.9	0.8	0.7	0.9	0.8	0.7	0.9	0.8	0.7	0.7	0.7	0.9	0.8	0.7		
ASR12	Tung To Tsung	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3		
ASR13	Ngai Yau Tsuen	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4		
ASR14	Ngai Yau Tsuen	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3		
ASR15	Ngai Yau Tsuen	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2		
ASR16	Ngai Yau Tsuen	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		
ASR17	Ngai Yau Tsuen	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6		
ASR18	Ngai Yau Tsuen	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		
ASR19	Ngai Yau Tsuen	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		
ASR20	Ngai Yau Tsuen	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3		
ASR21	Ngai Yau Tsuen	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		
ASR22	Tai Po Tin	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
ASR23	Ha Shan Kai Wat	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
ASR24	Shaung Shan Kai Wat	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4		
ASR25	Tai Tong Wu	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4		
ASR26	Lei Tung	0.2	0.2	0.1	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.1		
ASR27	Tung To Shan Tsuen (derelict and vacant - no active use in the past 10 years)	7.4	6.2	3.4	7.1	5.9	3.3	7.1	5.9	3.3	3.4	3.4	7.1	5.9	3.4		
	No of Hours Exceed	2.2	3	3	2.1	3	3	2.1	3	3	3	3	2.1	3	3		
	sub-max:	7.4	6.2	3.4	7.1	5.9	3.3	7.1	5.9	3.3	3.4	3.4	7.1	5.9	3.4		
	max:	7.4	6.2	3.4	7.1	5.9	3.3	7.1	5.9	3.3	3.4	3.4	7.1	5.9	3.4		