

Appendix 3.8

Table A3.8a: Predicted Suspended Solids Elevations at Gazetted Beaches, Marine Ecology, and Fisheries Sensitive Receivers for Scenario 3 and concurrent projects (Cumulative Impacts)

Sensitive Receivers	Assessment Point	Maximum SS Elevation (Dry Season)		Maximum SS Elevation (Wet Season)	
		Depth averaged SS Elevation (mgL ⁻¹)	SS Criteria (mgL ⁻¹)	Depth averaged SS Elevation (mgL ⁻¹)	SS Criteria (mgL ⁻¹)
Gazetted Beaches					
Tung Wan, Ma Wan	B1	1.0	3.2	0.4	2.5
Approach	B2	1.0	3.2	0.9	2.5
Ting Kau	B3	0.6	3.2	0.6	2.5
Lido	B4	0.6	3.2	1.6	2.5
Casam	B5	1.6	3.2	1.2	2.5
Hoi Mei Wan	B6	1.7	3.2	1.3	2.5
Gemini	B7	1.8	3.2	1.3	2.5
Angler's	B8	1.8	3.2	1.2	2.5
Lo So Shing	B9	<0.1	2.8	<0.1	1.9
Hung Shing Yeh	B10	<0.1	2.8	<0.1	1.9
Corals					
Pak Kok	CR1	1.0	2.2	0.3	3.0
Shek Kok Tsui	CR2	0.9	2.2	0.3	3.0
Luk Chau	CR3	0.5	1.8	0.1	1.6
Wong Chuk Kok	CR4	0.5	1.8	<0.1	1.6
Ap Lei Chau	CR5	0.6	1.8	0.1	1.6
Sandy Bay	CR6	0.6	2.2	0.3	3.0
Green Island	CR7	1.0	2.2	0.4	3.0
Kau Yi Chau	CR8	0.8	2.6	1.4	4.4
Kau Yi Chau	CR9	0.8	2.6	3.7	4.4
Kau Yi Chau	CR10	0.7	2.6	1.5	4.4
Siu Kau Yi Chau	CR11	0.8	2.6	2.8	4.4
Siu Kau Yi Chau	CR12	0.8	2.6	2.5	4.4
Siu Kau Yi Chau	CR13	0.6	2.6	1.7	4.4
Peng Chau	CR14	0.5	2.6	0.8	4.4
Peng Chau	CR15	<0.1	2.6	0.1	4.4
Peng Chau	CR16	0.4	2.6	1.1	4.4
Peng Chau	CR17	0.4	2.6	1.9	4.4
Peng Chau	CR18	0.1	2.6	0.3	4.4
Fish Culture Zone					
Ma Wan	F1	2.6	3.2	2.0	2.5
Lo Tik Wan	F2	0.2	1.8	0.1	1.6
Sok Kwu Wan	F3	<0.1	1.8	<0.1	1.6
Cheung Sha Wan	F4	<0.1	2.6	<0.1	4.4

Values in **Bold** indicates exceedance of relevant criteria

Table A3.8b: Predicted Suspended Solids Concentrations at Cooling and Sea Water Intakes for Scenario 3 and concurrent projects (Cumulative Impacts)

Sensitive Receivers	Assessment Point	Maximum ⁽¹⁾ SS concentration in surface layer (mgL ⁻¹)		
		SS Criterion (mgL ⁻¹)	Dry Season	Wet Season
Cooling Water Intakes				
Tsuen Wan	C1	-	11.7	10.8
MTRC Tsing Yi Station	C2	-	12.0	10.9
MTRC Kowloon Station	C3	-	7.5	6.8
China H.K. City	C4	-	7.3	6.8
Sha Wan Drive	C5	-	5.8	5.7
Queen Mary Hospital	C6	-	5.7	5.7
Wah Fu Estate	C7	-	5.8	5.6
Kwai Chung Hospital	*EMSD1	<180	11.3	10.6
WSD Flushing Water Intake				
Tsing Yi	WSD1	<10	12.0	11.0
Kennedy Town	WSD2	<10	7.7	7.0
Sheung Wan	WSD3	<10	8.3	7.0
Central Water Front	WSD4	<10	8.4	7.3
Ap Lei Chau	WSD5	<10	5.1	4.0
Kowloon South	WSD6	<10	7.4	6.8
Cheung Sha Wan	WSD7	<10	7.2	6.8
Tsuen Wan	WSD8	<10	11.7	10.7
Near Hong Kong Garden	WSD9	<10	11.2	5.3
Lamma Power Station	WSD10	<10	8.1	4.1
Kwai Chung Hospital	*EMSD1	<10	11.3	10.6

Sensitive Receivers	Assessment Point	Maximum ⁽¹⁾ depth averaged SS concentration (mgL ⁻¹)		
		SS Criterion (mgL ⁻¹)	Dry Season	Wet Season
Cooling Water Intakes				
Tsuen Wan	C1	-	12.8	16.3
MTRC Tsing Yi Station	C2	-	12.9	16.1
MTRC Kowloon Station	C3	-	8.9	9.6
China H.K. City	C4	-	8.6	9.3
Sha Wan Drive	C5	-	7.8	10.2
Queen Mary Hospital	C6	-	7.7	10.1
Wah Fu Estate	C7	-	7.7	10.0
Kwai Chung Hospital	*EMSD1	<180	12.2	15.7
WSD Flushing Water Intake				
Tsing Yi	WSD1	<10	13.0	16.2
Kennedy Town	WSD2	<10	9.1	9.5
Sheung Wan	WSD3	<10	9.8	9.8
Central Water Front	WSD4	<10	9.9	10.5
Ap Lei Chau	WSD5	<10	6.3	5.3
Kowloon South	WSD6	<10	8.8	9.5
Cheung Sha Wan	WSD7	<10	8.5	9.2
Tsuen Wan	WSD8	<10	12.7	16.3
Near Hong Kong Garden	WSD9	<10	12.5	9.6
Lamma Power Station	WSD10	<10	9.4	6.2
Kwai Chung Hospital	*EMSD1	<10	12.2	15.7

- Values in Bold indicates exceedance of relevant criteria.

* Note that the EMSD Code of Practice requires <180 mg L⁻¹ at cooling water intakes. As Kwai Chung Hospital is a WSR for both cooling water and salt water flushing intakes, the more conservative criterion has been applied, i.e. <10 mg L⁻¹, as required for WSD's salt water flushing water intakes.