

Table C1 Action and Limit Levels of Water Quality for Dredging, Backfilling and Capping Activities for SB CMPs

Parameter	Action Level	Limit Level
Dissolved Oxygen (DO) ⁽¹⁾	<u>Surface and Mid-depth</u> ⁽²⁾ The average of the impact, WSR 45C and WSR 46 station readings are < 5%-ile of baseline data for surface and middle layer = 4.32 mg L⁻¹ and Significantly less than the reference stations mean DO (at the same tide of the same day)	<u>Surface and Mid-depth</u> ⁽²⁾ The average of the impact, WSR 45C and WSR 46 station readings are < 4 mg L⁻¹ and Significantly less than the reference stations mean DO (at the same tide of the same day)
	<u>Bottom</u> The average of the impact, WSR 45C and WSR 46 station readings are < 5%-ile of baseline data for bottom layers = 3.12 mg L⁻¹ and Significantly less than the reference stations mean DO (at the same tide of the same day)	<u>Bottom</u> The average of the impact station, WSR 45C and WSR 46 readings are < 2 mg L⁻¹ and Significantly less than the reference stations mean DO (at the same tide of the same day)
Depth-averaged Suspended Solids (SS) ⁽³⁾⁽⁴⁾	The average of the impact, WSR 45C and WSR 46 station readings are > 95%-ile of baseline data for depth average = 21.60 mg L⁻¹ and 120% of control station's SS at the same tide of the same day	The average of the impact, WSR 45C and WSR 46 station readings are > 99%-ile of baseline data for depth average = 40.10 mg L⁻¹ and 130% of control station's SS at the same tide of the same day
Depth-averaged Turbidity (Tby) ⁽³⁾⁽⁴⁾	The average of the impact, WSR 45C and WSR 46 station readings are > 95%-ile of baseline data = 25.04 NTU and 120% of control station's Tby at the same tide of the same day	The average of the impact, WSR 45C and WSR 46 station readings are > 99%-ile of baseline data = 32.68 NTU and 130% of control station's Tby at the same tide of the same day

Notes:

- (1) For DO, non-compliance of the water quality limits occurs when monitoring result is lower than the limits.
- (2) The Action and Limit Levels for DO for Surface & Middle layers were calculated from the combined pool of baseline surface layer data and baseline middle layer data.
- (3) "Depth-averaged" is calculated by taking the arithmetic means of reading of all three depths.
- (4) For turbidity and SS, non-compliance of the water quality limits occurs when monitoring result is higher than the limits.

Table C2 In-situ Monitoring Results for Routine Water Quality Monitoring of CMP 2 on 6 July 2015

Sampling Period	Stations	Temp (°C)	Salinity (ppt)	Turbidity (NTU)	Dissolved Oxygen		pH
					(%)	(mg L ⁻¹)	(mg L ⁻¹)
July 2015	RFF (Reference)	25.82	28.46	10.44	47.58	3.30	7.76
	IPF (Impact)	28.48	21.55	12.03	72.08	4.96	7.77
	INF (Intermediate)	28.33	22.15	13.71	68.06	4.68	7.75
	Ma Wan	27.32	24.58	4.19	63.57	4.39	7.74
	Shum Shui Kok	27.67	23.60	6.04	63.12	4.36	7.75
	Tai Mo To	27.22	24.85	13.21	52.34	3.62	7.70
	Tai Ho Bay 1	28.51	21.15	10.25	64.60	4.45	7.71
	Tai Ho Bay 2	29.09	18.98	3.18	80.17	5.54	7.34
	WQO	N/A	25.61 – 31.30#	N/A	N/A	>4	6.5-8.5

Notes:

Not exceeding 2°C of change of the results from the Reference Station.

#Not exceeding 10% of natural ambient level which is the result obtained from the Reference Station.

Cell shaded yellow / red indicate value exceeding the Action/Limit levels.

Cell shaded grey indicate value exceeding the WQO.

Table C3 Laboratory Results for Routine Water Quality Monitoring of CMP 2 in July 2015

Sampling Period	Stations	As (µg/L)	Cd (µg/L)	Cr (µg/L)	Cu (µg/L)	Pb (µg/L)	Hg (µg/L)	Ni (µg/L)	Ag (µg/L)	Zn (µg/L)	NH ₃ (mg/L)	TIN (mg/L)	BOD ₅ (mg/L)	SS (mg/L)
July 2015	RFF	2.54	<LOR	<LOR	31.29	1.24	0.89	1.68	<LOR	37.89	0.07	0.55	1.30	18.97
	IPF	2.36	<LOR	<LOR	5.56	1.54	1.02	1.75	<LOR	21.38	0.04	0.98	1.02	14.92
	INF	2.61	<LOR	<LOR	9.41	1.34	0.80	1.61	<LOR	18.58	0.07	0.94	1.65	17.92
	Ma Wan	2.28	<LOR	<LOR	11.77	0.57	0.71	0.58	<LOR	16.28	0.05	0.74	1.00	7.13
	Shum Shui Kok	2.52	<LOR	<LOR	3.08	<LOR	0.74	0.73	<LOR	8.04	0.04	0.89	1.51	9.05
	Tai Mo To	2.30	<LOR	<LOR	30.18	1.27	0.61	1.67	<LOR	29.88	0.04	0.81	1.06	10.18
	Tai Ho Bay 1	2.89	<LOR	<LOR	12.14	1.00	0.48	1.63	<LOR	17.75	0.07	0.95	2.56	9.35
	Tai Ho Bay 2	2.17	<LOR	<LOR	1.93	<LOR	0.73	1.13	<LOR	6.61	0.07	0.85	1.76	6.29
														WQO of TIN: 0.5 mg/L Wet Season WQO of SS : 11.6 mg/L

Note: Cell shaded yellow / red indicate value exceeding the Action/Limit levels.

Cell shaded grey indicate value exceeding the WQO.

Table C4 Water Column Profiling Results for SB CMP 2 on 7 July 2015

Stations	Temp (°C)	Salinity (ppt)	Turbidity (NTU)	Dissolved Oxygen		pH	Suspended Solids
				(%)	(mg L ⁻¹)	(mg L ⁻¹)	(mg L ⁻¹)
WCP 1 (Downstream)	26.41	26.45	6.73	52.14	3.62	7.81	8.58
WCP 2 (Upstream)	27.58	23.45	12.55	66.76	4.62	7.81	9.95
WQO (wet season)	N/A	22.45-25.79#	N/A	N/A	>4	6.5-8.5	11.6

Note: # Not exceeding 2°C of change of the results from the Reference Station.

#Not exceeding 10% of natural ambient level which is the result obtained from the Reference Station.

Cell shaded grey indicate value exceeding the WQO.