Parameter	Action Level	Limit Level			
Dissolved Oxygen (DO) (1)	Surface and Mid-depth (2)	Surface and Mid-depth ⁽²⁾			
	5%-ile of baseline data for surface and	1%-ile of baseline data for surface and			
	middle layer = 3.76 mg L -1	middle layer = 3.11 mg L -1 ⁽³⁾			
	and	and			
	Significantly less than the reference stations mean DO (at the same tide of the same day)	Significantly less than the reference stations mean DO (at the same tide of the same day)			
	Bottom 5%-ile of baseline data for bottom layers = 2.96 mg L -1	Bottom The average of the impact station readings are <2 mg/L ⁻¹			
	and	and			
	Significantly less than the reference stations mean DO (at the same tide of the same day)	Significantly less than the reference stations mean DO (at the same tide of the same day)			
Depth-averaged Suspended Solids (SS) (4) (5)	95%-ile of baseline data for depth average = 37.88 mg L ⁻¹	99%-ile of baseline data for depth average = 61.92 mg L ⁻¹			
	and	and			
	120% of control station's SS at the same tide of the same day	130% of control station's SS at the same tide of the same day			
Depth-averaged Turbidity (Tby) (4) (5)	95%-ile of baseline data = 28.14 NTU	99%-ile of baseline data = 38.32 NTU			
× <i>31</i>	and	and			
	120% of control station's Tby at the same tide of the same day	130% of control station's Tby at the same tide of the same day			

Table C1Action and Limit Levels of Water Quality for Dredging, Backfilling and
Capping Activities at ESC CMPs

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) Given the Action Level for DO for Surface & Middle layers has already been lower than 4 mg L⁻¹, it is proposed to set the Limit Level at 3.11 mg L⁻¹ which is the first percentile of the baseline data.

(4) "Depth-averaged" is calculated by taking the arithmetic means of reading of all three depths.

(5) For turbidity and SS, non-compliance of the water quality limits occurs when monitoring result is higher than the limits.

Table C2Water Column Profiling Results for ESC CMP Vd in June 2016

Stations	Temp	Salinity	Turbidity	Dissolved Oxygen		pН	Suspended Solids	
	(°C)	(ppt)	(NTU)	(%)	(mg L-1)	(mg L-1)	(mg L-1)	
WCP 1	27.45	21.82	24.08	69.06	4.83	7.75	13.25	
(Downstream)								
WCP 2	27.87	20.25	11.86	74.70	5.24	7.74	9.38	
(Upstream)								
WQO (Wet season)	N/A	18.93 – 22.27#	N/A	N/A	>4	6.5-8.5	11.1	

Note:

*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.

Parameter	Action Level	Limit Level			
Dissolved Oxygen (DO) (1)	Surface and Mid-depth ⁽²⁾	Surface and Mid-depth ⁽²⁾			
	The average of the impact, WSR 45C	The average of the impact, WSR 45C			
	and WSR 46 station readings are < 5%-	and WSR 46 station readings are < 4			
	ile of baseline data for surface and	mg L ⁻¹			
	middle layer = 4.32 mg L ⁻¹	-			
		and			
	and				
		Significantly less than the reference			
	Significantly less than the reference	stations mean DO (at the same tide of			
	stations mean DO (at the same tide of	the same day)			
	the same day)	.,			
	Bottom	Bottom			
	The average of the impact, WSR 45C	The average of the impact station,			
	and WSR 46 station readings are < 5%-	WSR 45C and WSR 46 readings are < 2			
	ile of baseline data for bottom layers =	mg L ⁻¹			
	$3.12 \text{ mg } \text{L}^{-1}$				
		and			
	and				
		Significantly less than the reference			
	Significantly less than the reference	stations mean DO (at the same tide of			
	stations mean DO (at the same tide of	the same day)			
	the same day)	the same day)			
	the suffic (duy)				
Depth-averaged Suspended	The average of the impact, WSR 45C	The average of the impact, WSR 45C			
Solids (SS) ^{(3) (4)}	and WSR 46 station readings are >	and WSR 46 station readings are >			
	95%-ile of baseline data for depth	99%-ile of baseline data for depth			
	average = 21.60 mg L^{-1}	average = 40.10 mg L^{-1}			
	a chage - 100 - 10 -	a crage 10120 mg 2			
	and	and			
	120% of control station's SS at the same	130% of control station's SS at the same			
	tide of the same day	tide of the same day			
	ý	ÿ			
Depth-averaged Turbidity	The average of the impact, WSR 45C	The average of the impact, WSR 45C			
(Tby) ^{(3) (4)}	and WSR 46 station readings are >	and WSR 46 station readings are >			
(10)) (10)	95%-ile of baseline data = 25.04 NTU	99%-ile of baseline data = 32.68 NTU			
	and	and			
	120% of control station's Tby at the	130% of control station's Tby at the			
	same tide of the same day	same tide of the same day			
		· · · · · · · · · · · · · · · · · · ·			

Table C3Action and Limit Levels of Water Quality for Dredging, Backfilling and
Capping Activities for SB CMPs

(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.

Sampling Period	Stations	Temp	Salin ity	Turbid ity		solved Sygen	pН	SS	NH3	TIN	BOD ₅
		(°C)	(ppt)	(NTU)	(%)	(mg L- 1)	(mg L- 1)	(mg L- 1)	(mg L- 1)	(mg L- 1)	(mg L-1)
June 2016	RFF (Reference)	28.49	17.33	5.18	7.48	106.08	8.07	7.10	0.06	1.13	2.6
	IPF (Impact)	28.37	17.98	7.85	7.22	102.50	8.05	10.69	0.06	1.09	2.13
	INF (Intermediate)	27.53	23.31	6.81	5.73	82.57	7.94	8.20	0.09	0.95	1.83
	Ma Wan	26.84	29.31	2.61	5.57	82.16	7.96	4.02	0.08	0.42	2.33
	Sham Shui Kok	27.21	26.09	8.08	5.60	81.60	7.94	9.80	0.10	0.67	1.23
	Tai Mo To	27.78	21.39	24.13	6.19	88.67	7.97	23.12	0.07	1.00	2.23
	Tai Ho Bay 1	29.64	13.67	11.87	10.06	142.53	8.32	16.53	0.02	1.17	3.13
	Tai Ho Bay 2	29.81	13.94	15.83	10.45	148.80	8.13	12.43	0.02	0.89	4.28
	WQO	N/A	15.60- 19.06*	N/A	N/A	>4	6.5-8.5	11.1	N/A	0.50	N/A

Table C4Monitoring Results for Water Quality Monitoring during Capping of SB CMPin June 2016

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.