Table C1 Action and Limit Levels of Water Quality for Dredging, Backfilling and Capping Activities for ESC CMPV

Parameter	Action Level	Limit Level				
Dissolved Oxygen (DO) (1) Surface and Middle Depth Averaged (2)	5%-ile of baseline data for surface and middle layer = 3.76 mg L <sup>-1</sup>	1%-ile of baseline data for surface and middle layer = $3.11 \text{ mg L}^{-1}$ (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 <sup>-1</sup>	The average of the impact station readings are <2 mg/L				
	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 <sup>-1</sup>	99%-ile of baseline data for depth average = 61.92mg 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				
	and	and				
	120% of control station's turbidity at the same tide of the same day	130% of control station's turbidity at the same tide of the same day				

- (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<sup>-1</sup>, it is proposed to set the Limit Level at 3.11 mg L<sup>-1</sup> 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 C2 Monitoring Results for Water Quality Monitoring during Capping of ESC on 2 June 2015

Sampling	Stations	Temp	Salinity	Turbidity	Dissolved Oxygen		pН	SS
Period	Stations	(°C)	(ppt)	(NTU)	(%)	(mg L-1)	(mg L-1)	(mg L-1)
June	RFF (Reference)	27.03	18.28	11.54	72.31	5.20	7.73	11.27
2015	IPF (Impact)	27.07	17.97	12.75	76.46	5.50	7.78	16.10
	INF (Intermediate)	27.36	17.25	8.83	84.50	6.08	7.83	10.59
	Ma Wan	26.43	23.73	4.89	80.35	5.66	7.91	7.17
	WQO	N/A	16.46-20.11*	N/A	N/A	>4	6.5-8.5	11.6

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

Cell shaded grey indicate value exceeding the WQO.

<sup>#</sup> Not exceeding 2°C of change of the results from the Reference Station.

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

Table C3 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)	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 = $4.32 \text{ mg L}^{-1}$				
		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 mg L <sup>-1</sup>	o de la companya de			
	S	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)	- ·			
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 = <b>21.60 mg</b> L <sup>-1</sup>	average = <b>40.10 mg L</b> -1			
	and	and			
	una	und			
	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			
	,	,			
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 >			
	95%-ile of baseline data = <b>25.04 NTU</b>	99%-ile of baseline data = <b>32.68 NTU</b>			
	and	and			
	120% of control stations. The at the	130% of control station's Thyrat the			
	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			

- (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 C4 Monitoring Results for Water Quality Monitoring during Capping of SB CMP 1 on 10 June 2015

Sampling	Sampling Stations		Salinity	Turbidity	Dissolve	ed Oxygen	pН	SS	NH3	TIN	BOD5
Period	Stations	(°C)	(ppt)	(NTU)	(%)	(mg L-1)	(mg L-1)	(mg L-1)	(mg L-1)	(mg L-1)	(mg L-1)
June	RFF (Reference)	28.11	18.36	3.34	82.53	5.82	7.82	6.14	0.06	1.21	0.39
2015	IPF (Impact)	27.22	22.53	8.33	67.42	4.72	7.80	6.84	0.09	0.78	0.25
	INF (Intermediate)	26.02	26.96	4.78	54.35	3.79	7.79	11.12	0.08	0.92	0.31
	Ma Wan	25.94	27.50	3.32	54.42	3.79	7.77	4.77	0.09	0.68	0.25
	Shum Shui Kok	26.99	23.22	4.46	64.46	4.51	7.79	5.88	0.09	1.09	0.25
	Tai Mo To	26.96	23.50	8.86	63.86	4.46	7.79	10.20	0.07	1.10	0.25
	Tai Ho Bay 1	29.01	16.68	14.57	102.92	7.22	7.96	16.23	0.05	1.22	0.93
	Tai Ho Bay 2	29.17	17.11	8.38	116.30	8.11	8.02	10.70	0.05	0.99	2.33
	WQO	N/A	16.52- 20.20*	N/A	N/A	>4	6.5-8.5	11.6	N/A	0.50	N/A

Cell shaded grey indicate value exceeding the WQO.

Table C5 Water Column Profiling Results for SB CMP 2 on 11 June 2015

Stations	Temp	Salinity	Turbidity	Dissolved Oxygen		На	
	(°C)	(ppt)	(NTU)	(%)	(mg L-1)	(mg L-1)	(mg L-1)
WCP 1 (Downstream)	28.09	18.70	19.39	75.96	5.35	7.79	9.20
WCP 2 (Upstream)	28.17	18.67	4.64	80.20	5.64	7.83	7.15
WQO (wet season)	N/A	16.82- 20.54#	N/A	N/A	>4	6.5-8.5	11.6

**Note:** \*Not exceeding 10% of natural ambient level which is the result obtained from the Reference Station.

Cell shaded grey indicate value exceeding the WQO.

<sup>#</sup> Not exceeding 2°C of change of the results from the Reference Station.

<sup>\*</sup>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.