Annex B

Water Quality Monitoring Results

Table B1 Action and Limit Levels of Water Quality for Dredging, Disposal and Capping Activities at ESC CMP V

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	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		
	5%-ile of baseline data for bottom	The average of the impact station		
	layers = 2.96 mg L -1	readings are <2 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)		
Depth-averaged Suspended	95%-ile of baseline data for depth	99%-ile of baseline data for depth		
Solids (SS) (4) (5)	average = 37.88 mg L-1	average = 61.92 mg L -1		
	and	1		
	120% of control station's SS at the same	and 130% of control station's SS at the same		
	tide of the same day	tide of the same day		
	tide of the same day	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 Tby at the same tide of the same day	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) 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 B2 Water Column Profiling Results for ESC CMP Vb in March 2020

Stations	Temp	Salinity	Turbidity	Dissolved Oxygen		pН	Suspended Solids
	(°C)	(ppt)	(NTU)	(%)	(mg L-1)		(mg L-1)
WCP 1 (Downstream)	20.07	30.42	5.37	84.40	6.41	8.16	7.7
WCP 2 (Upstream)	20.03	30.68	3.83	86.41	6.55	8.16	6.8
WQO (Dry Season)	N/A	27.61-33.75#	N/A	N/A	>4	6.5-8.5	13.6

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.