Annex B

Water Quality Monitoring Results

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		
	, ,	0 0		
	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			
	ultu	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		
	-	2		
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	130% of control station's Tby at the		
	same tide of the same day	same tide of the same day		

Table B1Action and Limit Levels of Water Quality for Dredging, Disposal and
Capping Activities at ESC CMP V

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.

Stations	Temp	Salinity	Turbidity	Dissolved Oxygen		pН	Suspended Solids
	(°C)	(ppt)	(NTU)	(%)	(mg L-1)		(mg L-1)
WCP 1	23.55	28.96	6.44	90.07	6.48	7.96	7.94
(Downstream)							
WCP 2	23.52	28.77	11.84	90.30	6.50	8.00	12.0
(Upstream)							
WQO (Dry Season)	N/A	25.89-31.65#	N/A	N/A	>4	6.5-8.5	12.8

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.