Annex B

### Water Quality Monitoring Results

Parameter	Action Level	Limit Level				
Dissolved Oxygen (DO) (1)	Surface and Mid-depth <sup>(2)</sup>	Surface and Mid-depth <sup>(2)</sup>				
	5%-ile of baseline data for surface and	1%-ile of baseline data for surface and				
	middle layer = 3.76 mg L <sup>-1</sup>	middle layer = <b>3.11 mg L</b> <sup>-1</sup> <sup>(3)</sup>				
	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 = <b>2.96 mg L</b> -1	Bottom The average of the impact station readings are <b>&lt;2 mg/L</b> -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) <sup>(4) (5)</sup>	95%-ile of baseline data for depth average = <b>37.88 mg L</b> <sup>-1</sup>	99%-ile of baseline data for depth average = <b>61.92 mg L</b> -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 = <b>38.32 NTU</b>				
	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 B1Action and Limit Levels of Water Quality for Dredging, Disposal and<br/>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<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.

Stations	Temp	Salinity	Turbidity	Dissolved	l Oxygen	pН	Suspended Solids	
	(°C)	(ppt)	(NTU)	(%)	(%) (mg L <sup>-1</sup> )		(mg L-1)	
WCP 1 (Downstream)	20.53	29.89	14.45	83.48	6.30	7.90	11.5	
WCP 2 (Upstream)	20.54	30.21	10.70	82.66	6.23	7.88	7.8	
WQO (Dry Season)	N/A	27.19-33.23#	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.

## Table B3In-situ Monitoring Results for Routine Water Quality Monitoring of ESC<br/>CMPs in March 2021

Sampling	Stations	Temp	Salinity	Turbidity	Dissolve	pН	
Period	Stations	(°C)	(ppt)	(NTU)	(%)	(mg L-1)	(mg L-1)
March	RFF (Reference)	20.58	30.35	11.47	85.73	6.45	8.01
2021	IPF (Impact)	20.63	30.15	9.12	85.61	6.44	8.01
	INF (Intermediate)	20.63	30.09	11.24	85.85	6.46	8.00
	Ma Wan	20.53	31.05	3.60	83.25	6.24	7.97
	WQO	N/A	27.31-33.38#	N/A	N/A	>4	6.5-8.5

Notes:

\*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 higher than the WQO.

### Table B4Laboratory Results for Routine Water Quality Monitoring of ESC CMPs in<br/>March 2021

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)	NH3 (mg/ L)	TIN (mg/L)	BOD5 (mg/L)	SS (mg/L)
March	RFF	2.33	<lor< td=""><td>1.23</td><td>1.71</td><td><lor< td=""><td><lor< td=""><td>0.83</td><td><lor< td=""><td>36.14</td><td>0.21</td><td>0.45</td><td><lor< td=""><td>16.0</td></lor<></td></lor<></td></lor<></td></lor<></td></lor<>	1.23	1.71	<lor< td=""><td><lor< td=""><td>0.83</td><td><lor< td=""><td>36.14</td><td>0.21</td><td>0.45</td><td><lor< td=""><td>16.0</td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td>0.83</td><td><lor< td=""><td>36.14</td><td>0.21</td><td>0.45</td><td><lor< td=""><td>16.0</td></lor<></td></lor<></td></lor<>	0.83	<lor< td=""><td>36.14</td><td>0.21</td><td>0.45</td><td><lor< td=""><td>16.0</td></lor<></td></lor<>	36.14	0.21	0.45	<lor< td=""><td>16.0</td></lor<>	16.0
2021	IPF	2.28	<lor< td=""><td>1.18</td><td>1.62</td><td><lor< td=""><td><lor< td=""><td>0.75</td><td><lor< td=""><td>34.80</td><td>0.21</td><td>0.45</td><td><lor< td=""><td>12.7</td></lor<></td></lor<></td></lor<></td></lor<></td></lor<>	1.18	1.62	<lor< td=""><td><lor< td=""><td>0.75</td><td><lor< td=""><td>34.80</td><td>0.21</td><td>0.45</td><td><lor< td=""><td>12.7</td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td>0.75</td><td><lor< td=""><td>34.80</td><td>0.21</td><td>0.45</td><td><lor< td=""><td>12.7</td></lor<></td></lor<></td></lor<>	0.75	<lor< td=""><td>34.80</td><td>0.21</td><td>0.45</td><td><lor< td=""><td>12.7</td></lor<></td></lor<>	34.80	0.21	0.45	<lor< td=""><td>12.7</td></lor<>	12.7
	INF	2.37	<lor< td=""><td>1.28</td><td>1.62</td><td>0.66</td><td><lor< td=""><td>1.03</td><td><lor< td=""><td>35.35</td><td>0.29</td><td>0.54</td><td><lor< td=""><td>14.2</td></lor<></td></lor<></td></lor<></td></lor<>	1.28	1.62	0.66	<lor< td=""><td>1.03</td><td><lor< td=""><td>35.35</td><td>0.29</td><td>0.54</td><td><lor< td=""><td>14.2</td></lor<></td></lor<></td></lor<>	1.03	<lor< td=""><td>35.35</td><td>0.29</td><td>0.54</td><td><lor< td=""><td>14.2</td></lor<></td></lor<>	35.35	0.29	0.54	<lor< td=""><td>14.2</td></lor<>	14.2
	Ma Wan	2.20	<lor< td=""><td>1.85</td><td>1.43</td><td><lor< td=""><td><lor< td=""><td>0.83</td><td><lor< td=""><td>44.13</td><td>0.24</td><td>0.44</td><td><lor< td=""><td>4.8</td></lor<></td></lor<></td></lor<></td></lor<></td></lor<>	1.85	1.43	<lor< td=""><td><lor< td=""><td>0.83</td><td><lor< td=""><td>44.13</td><td>0.24</td><td>0.44</td><td><lor< td=""><td>4.8</td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td>0.83</td><td><lor< td=""><td>44.13</td><td>0.24</td><td>0.44</td><td><lor< td=""><td>4.8</td></lor<></td></lor<></td></lor<>	0.83	<lor< td=""><td>44.13</td><td>0.24</td><td>0.44</td><td><lor< td=""><td>4.8</td></lor<></td></lor<>	44.13	0.24	0.44	<lor< td=""><td>4.8</td></lor<>	4.8
	WQO of TIN: 0.5 mg/L											5 mg/L		
	Dry Season WQO of SS : 12.8 mg/											8 mg/L		

Notes:

<LOR indicates the concentrations of metals and metalloids are below the limit of reporting

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

Cell shaded grey indicate value higher than the WQO.