

Table C1 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⁾ | <u>Surface and Mid-depth</u> ⁽²⁾ The average of the impact, WSR 45C and WSR 46 station readings are < 5%-ile of baseline data for surface and middle layer = 4.32 mg L⁻¹ and Significantly less than the reference stations mean DO (at the same tide of the same day) | <u>Surface and Mid-depth</u> ⁽²⁾ The average of the impact, WSR 45C and WSR 46 station readings are < 4 mg L⁻¹ and Significantly less than the reference stations mean DO (at the same tide of the same day) |
| | <u>Bottom</u> The average of the impact, WSR 45C and WSR 46 station readings are < 5%-ile of baseline data for bottom layers = 3.12 mg L⁻¹ and Significantly less than the reference stations mean DO (at the same tide of the same day) | <u>Bottom</u> The average of the impact station, WSR 45C and WSR 46 readings are < 2 mg L⁻¹ and Significantly less than the reference stations mean DO (at the same tide of the same day) |
| Depth-averaged Suspended Solids (SS) ⁽³⁾⁽⁴⁾ | The average of the impact, WSR 45C and WSR 46 station readings are > 95%-ile of baseline data for depth average = 21.60 mg L⁻¹ and 120% of control station's SS at the same tide of the same day | The average of the impact, WSR 45C and WSR 46 station readings are > 99%-ile of baseline data for depth average = 40.10 mg L⁻¹ and 130% of control station's SS at the same tide of the same day |
| Depth-averaged Turbidity (Tby) ⁽³⁾⁽⁴⁾ | The average of the impact, WSR 45C and WSR 46 station readings are > 95%-ile of baseline data = 25.04 NTU and 120% of control station's Tby at the same tide of the same day | The average of the impact, WSR 45C and WSR 46 station readings are > 99%-ile of baseline data = 32.68 NTU and 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) "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 C2 *In-situ Monitoring Results for Routine Water Quality Monitoring of CMP 2 on 14 April 2015*

| Sampling Period | Stations | Temp (°C) | Salinity (ppt) | Turbidity (NTU) | Dissolved Oxygen (%) | Dissolved Oxygen (mg L ⁻¹) | pH (mg L ⁻¹) |
|-----------------|--------------------|-----------|--------------------------|-----------------|----------------------|--|--------------------------|
| April 2015 | RFF (Reference) | 22.41 | 31.43 | 5.64 | 98.17 | 7.10 | 8.03 |
| | IPF (Impact) | 22.17 | 31.71 | 7.15 | 90.51 | 6.56 | 8.01 |
| | INF (Intermediate) | 21.94 | 32.46 | 3.96 | 88.60 | 6.42 | 7.97 |
| | Ma Wan | 21.99 | 33.07 | 2.58 | 86.73 | 6.26 | 8.01 |
| | Shum Shui Kok | 22.09 | 32.35 | 3.72 | 89.18 | 6.45 | 7.99 |
| | Tai Mo To | 22.08 | 32.00 | 5.37 | 90.55 | 6.56 | 8.01 |
| | Tai Ho Bay 1 | 22.87 | 30.82 | 12.21 | 100.71 | 7.25 | 8.03 |
| | Tai Ho Bay 2 | 23.84 | 30.29 | 4.98 | 99.95 | 7.09 | 7.97 |
| | WQO | N/A | 28.28-34.57 [#] | 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.

Table C3 *Water Column Profiling Results for SB CMP 2 on 17 April 2015*

| Stations | Temp (°C) | Salinity (ppt) | Turbidity (NTU) | Dissolved Oxygen (%) | Dissolved Oxygen (mg L ⁻¹) | pH (mg L ⁻¹) | Suspended Solids (mg L ⁻¹) |
|--------------------|-----------|--------------------------|-----------------|----------------------|--|--------------------------|--|
| WCP 1 (Downstream) | 23.25 | 29.70 | 3.86 | 109.87 | 7.91 | 8.03 | 6.08 |
| WCP 2 (Upstream) | 23.82 | 29.80 | 23.13 | 116.14 | 8.26 | 8.11 | 15.68 |
| WQO (dry season) | N/A | 26.82-32.89 [#] | 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.