Appendix N Exceedance Report

### Integrated Waste Management Facilities, Phase 1

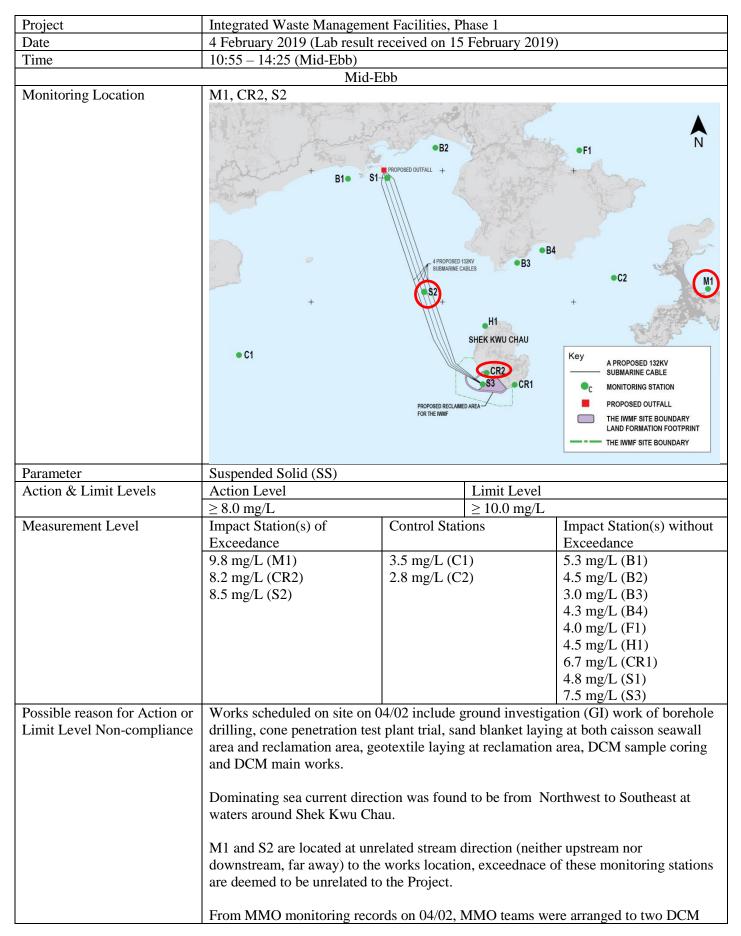
|            | Water         | r Quality       |       |
|------------|---------------|-----------------|-------|
| Location   | Action Level  | Limit Level     | Total |
| B1         | 0             | 0               | 0     |
| B2         | 0             | 0               | 0     |
| B3         | 0             | 0               | 0     |
| B4         | 0             | 0               | 0     |
| CR1        | 0             | 0               | 0     |
| CR2        | 2             | 0               | 2     |
| F1         | 0             | 0               | 0     |
| H1         | 0             | 0               | 0     |
| S1         | 0             | 0               | 0     |
| S2         | 1             | 0               | 1     |
| <b>S</b> 3 | 0             | 0               | 0     |
| M1         | 1             | 1               | 2     |
|            | Water Quality | (Intensive DCM) |       |
| Location   | Action Level  | Limit Level     | Total |
| I1         | 5             | 3               | 8     |
| I2         | 2             | 7               | 9     |
| I3         | 4             | 6               | 10    |
| I4         | 1             | 10              | 11    |
| 15         | 3             | 4               | 7     |
| I6         | 3             | 4               | 7     |
| I7         | 2             | 9               | 11    |
| I8         | 0             | 5               | 5     |
| I9         | 1             | 9               | 10    |
| I10        | 3             | 5               | 8     |

# Statistical Summary of Exceedances in the Reporting Period

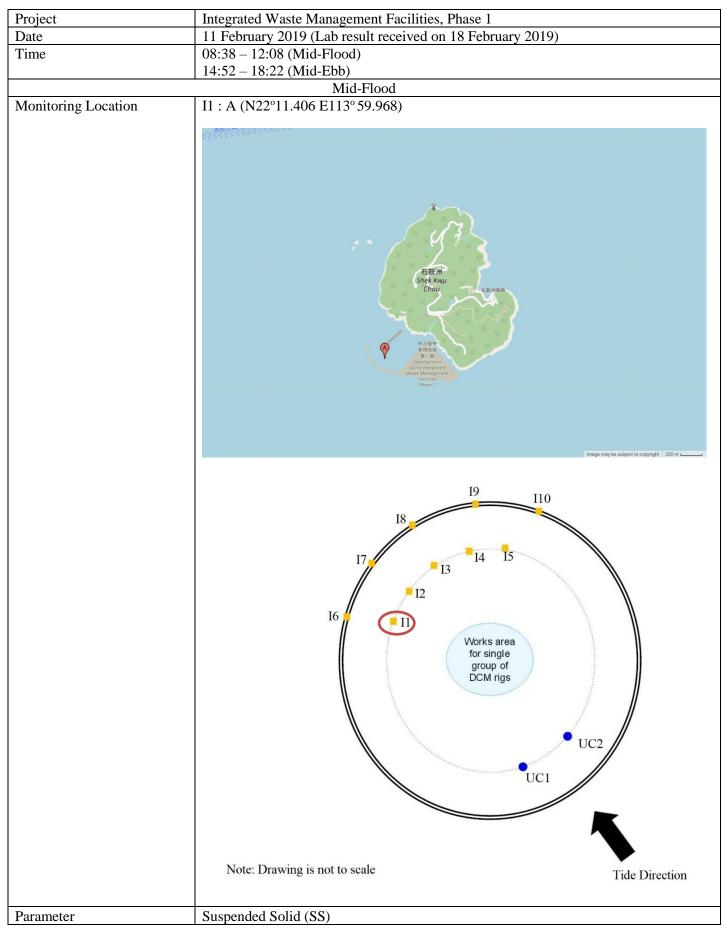
| Noise     |              |             |       |  |  |
|-----------|--------------|-------------|-------|--|--|
| Location  | Action Level | Limit Level | Total |  |  |
| M1 / N_S1 | 0            | 0           | 0     |  |  |
| M2 / N_S2 | 0            | 0           | 0     |  |  |
| M3 / N_S3 | 0            | 0           | 0     |  |  |

| Date       1 February 2019 (Lab result received on 15 February 2019)         Time       13:55 – 17:25 (Mid-Flood)         Monitoring Location       M1         Image: Station (State (State))       Image: Station (State)         Image: Station (State)       Image: Station (State)         Image: Station (State)       Image: Station (State)         Parameter       Suspended Solid (SS)         Action & Limit Levels       Action Level         Image: Station (Station (Station))       Image: Station (Station)         Measurement Level       Impact Station(S) of Exceedance         Exceedance       S.3 mg/L (C1)         S.7 mg/L (C2)       3.5 mg/L (B1)         S.7 mg/L (C3)       3.7 mg/L (C3)         Possible reason for Action or       Works scheduled on site on 01/02 include ground investigation (G1) work of borehold drilling, cone ponetration test plant trial, and blankter laying at caisson scawall area, gotextile laying at caisson scawall area, gotextile laying at caisano scawall area, gotextile layin  | Project               | Integrated Waste Managemen  | nt Facilities P  | hase 1   |   |  |
|--|-----------------------|---|--|--|---|--|
| Time       13:55 - 17:25 (Mid-Flood)         Monitoring Location       M1         Monitoring Location       M1         Image: Station (S)       Station (S)         Parameter       Suspended Solid (SS)         Action & Limit Levels       Action Level         2.80 mg/L       2.100 mg/L         Image: Station(S) of Exceedance       Control Stations         Image: Station(S) of Exceedance       Starge/L (C1)         S.5.7 mg/L (C2)       3.5 mg/L (B1)         S.7.7 mg/L (R1)       S.7 mg/L (R1)         S.7.7 mg/L (R1)       S.7 mg/L (R1)         S.7.7 mg/L (R1)       S.7 mg/L (R2)         S.8 mg/L (S2)       S.8 mg/L (S2)         Possible reason for Action or Limit Level Non-compliance       Works scheduled on site on 01/02 include ground investigation (G0) work of borehold driling, cone penetration test plant trial, sand blanket laying at caisons easwall area, geotextile laying at reclamation area, DCM sample coring and DCM main works.   |                       |   |  |  |   |  |
| Mid-Flood         Monitoring Location       M1         Monitoring Location       M1         Image: Second   |                       |   |  |  |   |  |
| Monitoring Location       M1         Image: Subsect of the second sec |                       |   |  |  |   |  |
| ParameterSuspended Solid (SS)Action & Limit LevelsAction LevelLimit Level $\geq 8.0 \text{ mg/L}$ $\geq 10.0 \text{ mg/L}$ Measurement LevelImpact Station(s) of<br>ExceedanceControl StationsImpact Station(s) withou<br>Exceedance10.0 mg/L (M1) $5.3 \text{ mg/L}$ (C1) $3.5 \text{ mg/L}$ (B1)<br>$5.7 \text{ mg/L}$ (C2) $3.5 \text{ mg/L}$ (B2)<br>$5.8 \text{ mg/L}$ (B3)<br>$5.3 \text{ mg/L}$ (B4)<br>$5.7 \text{ mg/L}$ (C1) $a, 2, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3,$  | Monitoring Location   | M1<br>+ B1• S1-   | B2<br>PROPOSED OUTFALL +<br>SUBMARIE C<br>S2 +<br>PROPOSED RECLAM  | H1<br>SHEK KWU CHAU<br>CR2<br>S3<br>CR1  | +<br>-C2<br>+<br>Key A PROPOSED 132KV<br>SUBMARINE CABLE<br>C MONITORING STATION<br>PROPOSED OUTFALL<br>PROPOSED OUTFALL<br>THE IWMF SITE BOUNDARY  |  |
| Action & Limit LevelsAction LevelLimit Level $\geq 8.0 \text{ mg/L}$ $\geq 10.0 \text{ mg/L}$ $\geq 10.0 \text{ mg/L}$ Measurement LevelImpact Station(s) of<br>ExceedanceControl StationsImpact Station(s) withou<br>Exceedance10.0 mg/L (M1) $5.3 \text{ mg/L}$ (C1) $3.5 \text{ mg/L}$ (B1) $5.7 \text{ mg/L}$ (C2) $3.5 \text{ mg/L}$ (B2) $5.8 \text{ mg/L}$ (B3) $5.3 \text{ mg/L}$ (R4) $5.7 \text{ mg/L}$ (C2) $5.8 \text{ mg/L}$ (B1) $3.3 \text{ mg/L}$ (B1) $5.7 \text{ mg/L}$ (C2) $3.5 \text{ mg/L}$ (B1) $3.5 \text{ mg/L}$ (B1) $5.7 \text{ mg/L}$ (C2) $5.8 \text{ mg/L}$ (B3) $5.3 \text{ mg/L}$ (B4) $5.7 \text{ mg/L}$ (C1) $3.7 \text{ mg/L}$ (B1) $3.7 \text{ mg/L}$ (C1) $3.7 \text{ mg/L}$ (C1) $3.7 \text{ mg/L}$ (S1) $3.7 \text{ mg/L}$ (S2) $3.7 \text{ mg/L}$ (S3)Possible reason for Action or<br>Limit Level Non-complianceWorks scheduled on site on 01/02 include ground investigation (G1) work of borehold<br>drilling, cone penetration test plant trial, sand blanket laying at caisson seawall area,<br>geotextile laying at reclamation area, DCM sample coring and DCM main works.Dominating sea current direction was found to be from Northwest to Southeast at   |                       |   |  |  | THE IWMF SITE BOUNDARY  |  |
| $ \hline \geq 8.0 \text{ mg/L} \qquad \hline \geq 10.0 \text{ mg/L} \\ \hline \\ $   |                       |   |  | 1  |   |  |
| Measurement Level         Impact Station(s) of<br>Exceedance         Control Stations         Impact Station(s) withou<br>Exceedance           10.0 mg/L (M1)         5.3 mg/L (C1)         3.5 mg/L (B1)           5.7 mg/L (C2)         3.5 mg/L (B2)           5.8 mg/L (B3)         5.3 mg/L (C1)           5.7 mg/L (C2)         5.8 mg/L (B4)           5.7 mg/L (F1)         4.7 mg/L (F1)           4.7 mg/L (H1)         3.3 mg/L (CR1)           4.5 mg/L (S1)         3.7 mg/L (S2)           3.2 mg/L (S3)         3.2 mg/L (S3)           Possible reason for Action or<br>Limit Level Non-compliance         Works scheduled on site on 01/02 include ground investigation (GI) work of borehold<br>drilling, cone penetration test plant trial, sand blanket laying at caisson seawall area,<br>geotextile laying at reclamation area, DCM sample coring and DCM main works.           Dominating sea current direction was found to be from Northwest to Southeast at  | Action & Limit Levels |   |  |  |   |  |
| ExceedanceExceedance10.0 mg/L (M1)5.3 mg/L (C1)3.5 mg/L (B1)5.7 mg/L (C2)3.5 mg/L (B2)5.8 mg/L (B3)5.3 mg/L (B4)5.7 mg/L (F1)4.7 mg/L (H1)3.3 mg/L (CR1)4.5 mg/L (CR2)4.5 mg/L (S1)3.7 mg/L (S2)3.2 mg/L (S3)3.2 mg/L (S3)Works scheduled on site on 01/02 include ground investigation (GI) work of borehold<br>drilling, cone penetration test plant trial, sand blanket laying at caisson seawall area,<br>geotextile laying at reclamation area, DCM sample coring and DCM main works.Dominating sea current direction was found to be from Northwest to Southeast at  |                       |   |  | <b>v</b>   |   |  |
| 10.0 mg/L (M1)5.3 mg/L (C1)3.5 mg/L (B1)5.7 mg/L (C2)3.5 mg/L (B2)5.8 mg/L (B3)5.3 mg/L (C2)5.8 mg/L (B3)5.3 mg/L (H1)5.7 mg/L (F1)4.7 mg/L (H1)3.3 mg/L (CR1)4.5 mg/L (CR2)4.5 mg/L (S1)3.7 mg/L (S2)3.2 mg/L (S3)Possible reason for Action orLimit Level Non-complianceWorks scheduled on site on 01/02 include ground investigation (GI) work of boreholddrilling, cone penetration test plant trial, sand blanket laying at caisson seawall area,<br>geotextile laying at reclamation area, DCM sample coring and DCM main works.Dominating sea current direction was found to be from Northwest to Southeast at  | Measurement Level     |   | Control Stati  | ions   | <b>1</b>  |  |
| M1 is located at unrelated stream direction (neither upstream nor downstream, far<br>away) to the works location, exceednace of this monitoring stations is deemed to be   |                       | 10.0 mg/L (M1)<br>Works scheduled on site on 0<br>drilling, cone penetration test<br>geotextile laying at reclamation<br>Dominating sea current direct<br>waters around Shek Kwu Cha<br>M1 is located at unrelated street | 5.7 mg/L (C<br>5.7 mg/L (C<br>01/02 include g<br>plant trial, sa<br>on area, DCM<br>tion was found<br>au.<br>eam direction | 2)<br>ground investiga<br>nd blanket layin<br>sample coring a<br>d to be from No<br>(neither upstrea | 3.5 mg/L (B1)<br>3.5 mg/L (B2)<br>5.8 mg/L (B3)<br>5.3 mg/L (B4)<br>5.7 mg/L (F1)<br>4.7 mg/L (H1)<br>3.3 mg/L (CR1)<br>4.5 mg/L (CR2)<br>4.5 mg/L (S1)<br>3.7 mg/L (S2)<br>3.2 mg/L (S3)<br>tion (GI) work of borehole<br>g at caisson seawall area,<br>and DCM main works.<br>orthwest to Southeast at<br>m nor downstream, far |  |

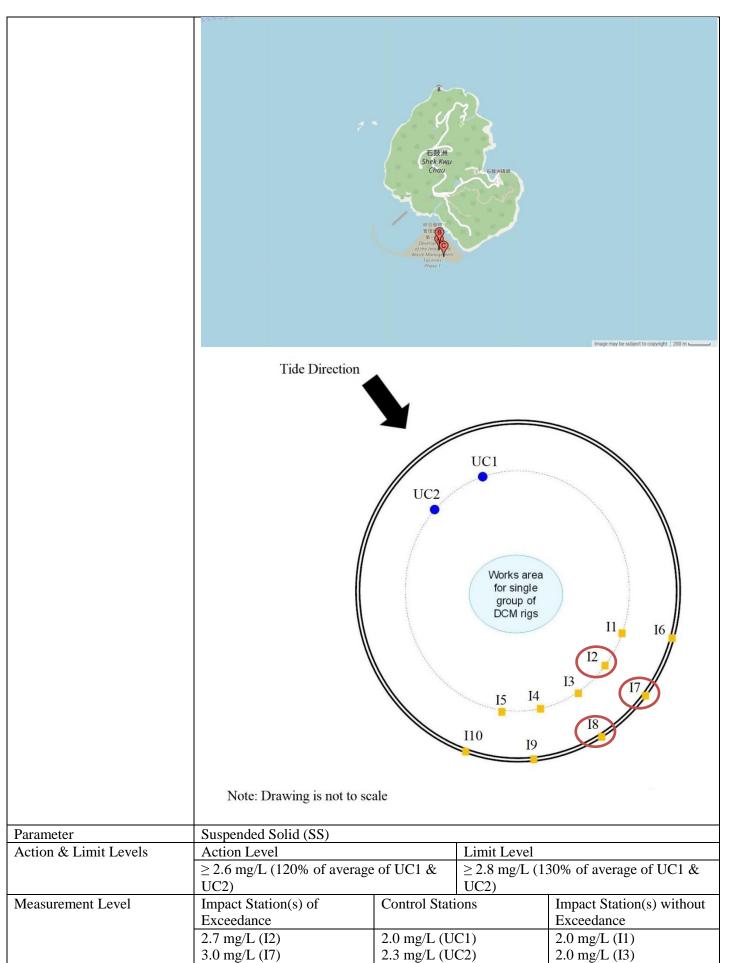
|                             | <ul> <li>From MMO monitoring records on 01/02, MMO teams were arranged to two DCM barges (ESC-61 &amp; ESC-62) and two derrick barges (Shun Tat D12 &amp; FTB-19) on that day while no deficiency of silt curtain was found before the start of construction activity.</li> <li>Silt curtain checking was implemented on Shun Tat D12 (10:50), FTB-19 (15:30), ESC-61 (00:00) &amp; ESC-62 (00:00) by the Contractor and checking results showed that no deficiency of silt curtain was found on that day.</li> <li>Site tidiness in the present barges in the Project site were checked during weekly site inspection on 04/02, where was no major observation of improper site practice that</li> </ul>   |  |  |  |
|-----------------------------|---|--|--|--|
| Actions taken / to be taken | might contribute to the increase in SS level was observed during the inspection.<br>Examination of environmental performance of the Project will be continued during the weekly inspection, and the Contractor is remained to implement all applicable  |  |  |  |
| Remarks                     | mitigation measures as per the Updated EM&A Manual.<br>Current direction during mid-flood sampling on 01/02:  |  |  |  |
|                             | NGONG PINO<br>BIRDEN<br>COUNTRY Park<br>BIRDEN<br>COUNTRY Park<br>BIRDEN<br>COUNTRY Park<br>BIRDEN<br>COUNTRY Park<br>BIRDEN<br>COUNTRY Park<br>BIRDEN<br>COUNTRY Park<br>BIRDEN<br>COUNTRY Park<br>COUNTRY P |  |  |  |
|                             | Legend  |  |  |  |
|                             | Speed (knot) Speed (knot)   |  |  |  |
|                             | $\begin{array}{cccccccccccccccccccccccccccccccccccc$  |  |  |  |
|                             | $0.5-1.0 \longrightarrow 2.0-2.5 \longrightarrow$   |  |  |  |
|                             | 1.0-1.5 $\longrightarrow$ 2.5 and above $\longrightarrow$   |  |  |  |
| Dura                        | (Sourced from http://current.hydro.gov.hk/en/map.html)  |  |  |  |
| Prepared by                 | Polar Chan  |  |  |  |
| Date                        | 18 February 2019  |  |  |  |



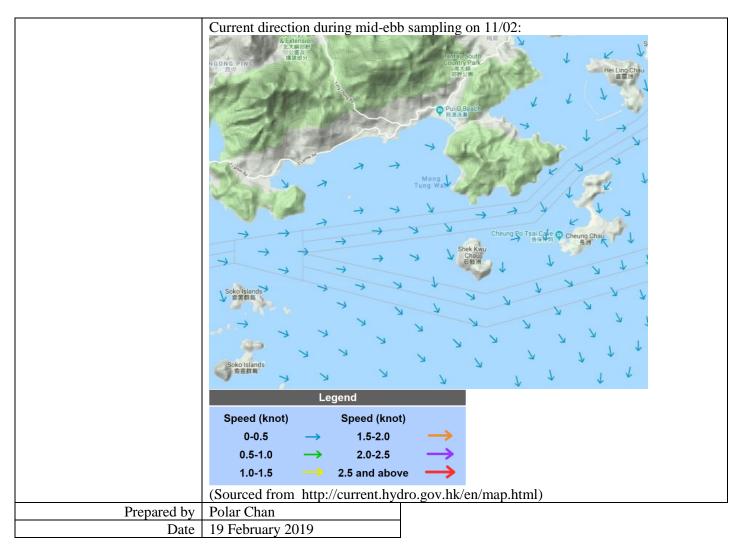
|                             | barges (ESC-61 & ESC-62) and one derrick barges (FTB-19) on that day while no deficiency of silt curtain was found before the start of construction activity.   |  |  |  |  |
|-----------------------------|---|--|--|--|--|
|                             | CR2 is located close to the works location within the Project site while the DCM main works scheduled in ESC-61 & ESC-62 were suspended due to maintenance works for DCM barges ESC-61 & ESC-62. No sand blanket laying works were carried out with referring to the site diary on that day. The absence of works might suggest that SS exceedance at CR2 is deemed to be unrelated to the Project.   |  |  |  |  |
|                             | Site tidiness in the present barges in the Project site were checked during weekly site inspection on 04/02, where was no major observation of improper site practice that might contribute to the increase in SS level was observed during the inspection.   |  |  |  |  |
| Actions taken / to be taken | Examination of environmental performance of the Project will be continued during the weekly inspection, and the Contractor is remained to implement all applicable mitigation measures as per the Updated EM&A Manual.  |  |  |  |  |
| Remarks                     | Current direction during mid-ebb sampling on 04/02:   |  |  |  |  |
|                             | Nong Puio<br>Puio Beach<br>Raissi<br>Puio Beach<br>Raissi<br>Soko Islands<br>Soko Islands<br>Soko Islands<br>Soko Islands<br>Soko Islands<br>Soko Islands<br>Soko Islands<br>Soko Islands<br>Kalissi<br>Soko Islands<br>Kalissi<br>Soko Islands<br>Kalissi<br>Kalissi<br>Kalissi<br>Kalissi<br>Kalissi<br>Kalissi<br>Kalissi<br>Kalissi<br>Kalissi<br>Kalissi<br>Kalissi<br>Kalissi<br>Kalissi<br>Kalissi<br>Kalissi<br>Kalissi<br>Kalissi<br>Kalissi<br>Kalissi<br>Kalissi<br>Kalissi<br>Kalissi<br>Kalissi<br>Kalissi<br>Kalissi<br>Kalissi<br>Kalissi<br>Kalissi<br>Kalissi<br>Kalissi<br>Kalissi<br>Kalissi<br>Kalissi<br>Kalissi<br>Kalissi<br>Kalissi<br>Kalissi<br>Kalissi<br>Kalissi<br>Kalissi<br>Kalissi<br>Kalissi<br>Kalissi<br>Kalissi<br>Kalissi<br>Kalissi<br>Kalissi<br>Kalissi<br>Kalissi<br>Kalissi<br>Kalissi<br>Kalissi<br>Kalissi<br>Kalissi<br>Kalissi<br>Kalissi<br>Kalissi<br>Kalissi<br>Kalissi<br>Kalissi<br>Kalissi<br>Kalissi<br>Kalissi<br>Kalissi<br>Kalissi<br>Kalissi<br>Kalissi<br>Kalissi<br>Kalissi<br>Kalissi<br>Kalissi<br>Kalissi<br>Kalissi<br>Kalissi<br>Kalissi<br>Kalissi<br>Kalissi<br>Kalissi<br>Kalissi<br>Kalissi<br>Kalissi<br>Kalissi<br>Kalissi<br>Kalissi<br>Kalissi<br>Kalissi<br>Kalissi<br>Kalissi<br>Kalissi<br>Kalissi<br>Kalissi<br>Kalissi<br>Kalissi<br>Kalissi<br>Kalissi<br>Kalissi<br>Kalissi<br>Kalissi<br>Kalissi<br>Kalissi<br>Kalissi<br>Kalissi<br>Kalissi<br>Kalissi<br>Kalissi<br>Kalissi<br>Kalissi<br>Kalissi<br>Kalissi<br>Kalissi<br>Kalissi<br>Kalissi<br>Kalissi<br>Kalissi<br>Kalissi<br>Kalissi<br>Kalissi<br>Kalissi<br>Kalissi<br>Kalissi<br>Kalissi<br>Kalissi<br>Kalissi<br>Kalissi<br>Kalissi<br>Kalissi<br>Kalissi<br>Kalissi<br>Kalissi<br>Kalissi<br>Kalissi<br>Kalissi<br>Kalissi<br>Kalissi<br>Kalissi<br>Kalissi<br>Kalissi<br>Kalissi<br>Kalissi<br>Kalissi<br>Kalissi<br>Kalissi<br>Kalissi<br>Kalissi<br>Kalissi<br>Kalissi<br>Kalissi<br>Kalissi<br>Kalissi<br>Kalissi<br>Kalissi<br>Kalissi<br>Kalissi<br>Kalissi<br>Kalissi<br>Kalissi<br>Kalissi<br>Kalissi<br>Kalissi<br>Kalissi<br>Kalissi<br>Kalissi<br>Kalissi<br>Kalissi<br>Kalissi<br>Kalissi<br>Kalissi<br>Kalissi<br>Kalissi<br>Kalissi<br>Kalissi<br>Kalissi<br>Kalissi<br>Kalissi<br>Kalissi<br>Kalissi<br>Kalissi<br>Kalissi<br>Kalissi<br>Kalissi<br>Kalissi<br>Kalissi<br>Kalissi<br>Kalissi<br>Kalissi<br>Kalissi<br>Kalissi<br>Kalissi<br>Kalissi<br>Kalissi<br>Kalissi<br>Kalissi<br>Kalissi<br>Kalissi<br>Kalissi<br>Kalissi<br>Kalissi<br>Kalissi<br>Kalissi<br>Kalissi<br>Kalissi<br>Kalissi<br>Kalissi<br>Kalissi |  |  |  |  |
|                             | Legend  |  |  |  |  |
|                             | Speed (knot) Speed (knot)   |  |  |  |  |
|                             | $0-0.5 \rightarrow 1.5-2.0 \rightarrow 0-0.5$   |  |  |  |  |
|                             | $0.5-1.0 \longrightarrow 2.0-2.5 \longrightarrow$   |  |  |  |  |
|                             | 1.0-1.5 $\longrightarrow$ 2.5 and above $\longrightarrow$   |  |  |  |  |
| D 11                        | (Sourced from http://current.hydro.gov.hk/en/map.html)  |  |  |  |  |
| Prepared by                 | Polar Chan  |  |  |  |  |
| Date                        | 18 February 2019  |  |  |  |  |



| Action & Limit Levels         | Action Level  |               | Limit Level   |                                  |
|-------------------------------|---|---------------|---|----------------------------------|
| Action & Limit Levels         | $\geq$ 2.7 mg/L (120% of average of UC1 &   |               | $\geq 3.0 \text{ mg/L (130\% of average of UC1 \&}$ |                                  |
|                               | $\geq 2.7$ mg/L (120% of average of OC1 & UC2)  |               | $\leq 3.0 \text{ mg/L} (1 \text{ UC2})$             | 30% of average of 0.01 &         |
| Measurement Level             | Impact Station(s) of  | Control Stat  | /   | Impact Station(s) without        |
|                               | Exceedance  | Control Stat  | 10113   | Exceedance                       |
|                               | 2.8 mg/L (I1)   | 2.2 mg/L (U   | (C1)  | 2.5 mg/L (I2)                    |
|                               | 2.0 mg/2 (11)   | 2.4 mg/L (U   |   | 2.0  mg/L (I2)<br>2.0  mg/L (I3) |
|                               |   | 2.1 mg/L (0   | (2)   | 2.0  mg/L (13)<br>2.2  mg/L (14) |
|                               |   |               |   | 2.0  mg/L (11)<br>2.0  mg/L (15) |
|                               |   |               |   | 2.0  mg/L (10)<br>2.0  mg/L (16) |
|                               |   |               |   | 2.2  mg/L (10)<br>2.2  mg/L (17) |
|                               |   |               |   | 2.2  mg/L (17)<br>2.2  mg/L (18) |
|                               |   |               |   | 2.2  mg/L (10)<br>2.2  mg/L (19) |
|                               |   |               |   | N/A (I10)                        |
| Possible reason for Action or | Works scheduled on site on 1  | 1/02 include  | sand blanket lav                                    |                                  |
| Limit Level Non-compliance    | cone penetration test plant tri   |               | •   | •                                |
| F                             | ····· F·····  | ,             |   |                                  |
|                               | Dominating sea current direc  | tion was foun | d to be from Sou                                    | utheast to Northwest at          |
|                               | waters around Shek Kwu Cha  |               |   |                                  |
|                               |   |               |   |                                  |
|                               | From MMO monitoring records on 11/02, MMO teams were arranged to two DCM                |               |   |                                  |
|                               | barges (ESC-61 & ESC-62) and two derrick barges (Shun Tat D12 & FTB-19) on that         |               |   |                                  |
|                               | day while no deficiency of silt curtain was found before the start of construction      |               |   |                                  |
|                               | activity.   |               |   |                                  |
|                               |   |               |   |                                  |
|                               | I1 is located close to the works location within the Project site while silt curtain    |               |   |                                  |
|                               | checking was implemented on ESC-61 (09:00), ESC-62 (08:45) and Shun Tat D12             |               |   |                                  |
|                               | (10:00) by the Contractor and checking results showed that no deficiency of silt        |               |   |                                  |
|                               | curtain was found on that day. No sand blanket laying work was carried out on FTB-      |               |   |                                  |
|                               | 19 due to maintenance of FTB-19 on that day. When compared to the baseline data of      |               |   |                                  |
|                               | dry season (Action Level: 8mg/L & Limit Level: 10mg/L), most of the monitoring          |               |   |                                  |
|                               | stations (including upstream control station UC1 and UC2) were relatively low, it       |               |   |                                  |
|                               | might suggest that the SS exceedances at I1 is deemed to be unrelated to the Project.   |               |   |                                  |
|                               |   |               |   |                                  |
|                               | Site tidiness in the present barges in the Project site were checked during weekly site |               |   |                                  |
|                               | inspection on 13/02, where was no major observation of improper site practice that      |               |   |                                  |
|                               | might contribute to the increase in SS level was observed during the inspection.        |               |   |                                  |
| Actions taken / to be taken   | Examination of environmenta   |               |   |                                  |
|                               | weekly inspection, and the Contractor is remained to implement all applicable           |               |   |                                  |
|                               | mitigation measures as per the Updated EM&A Manual.                                     |               |   |                                  |
|                               | Mid-E   | Ebb           |   |                                  |
| Monitoring Location           | I2 : A (N22°11.312 E113°59.230)   |               |   |                                  |
|                               | I7 : B (N22°11.345 E113°59.241)   |               |   |                                  |
|                               | I8 : C (N22°11.279 E113°59.264)   |               |   |                                  |

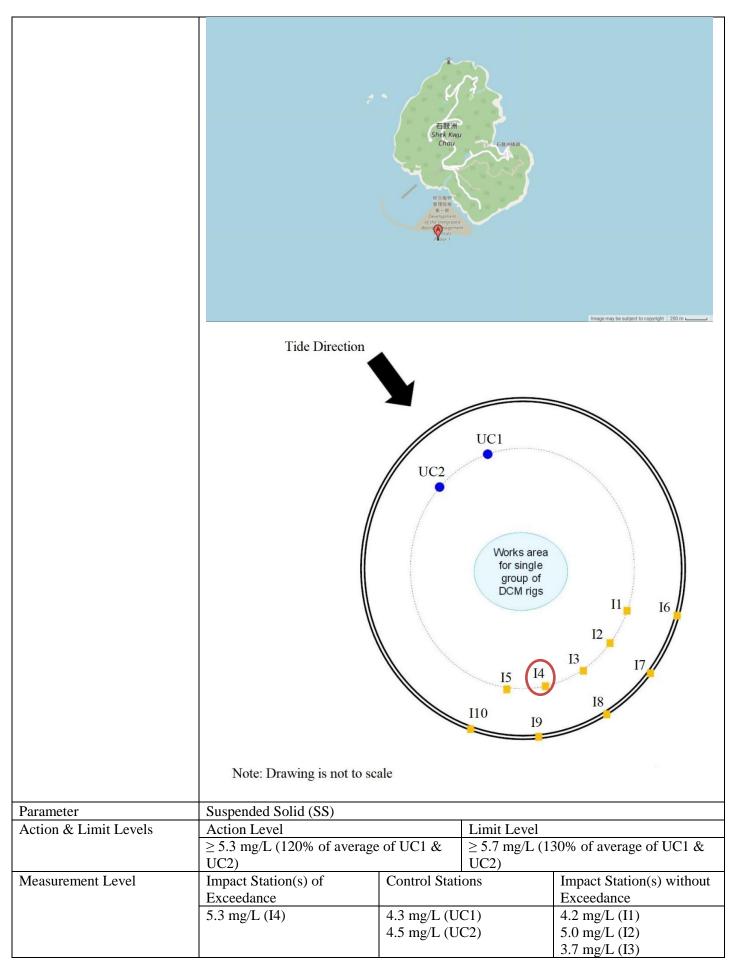


| I                                     |   |                                  |                              |  |  |
|---------------------------------------|---|----------------------------------|------------------------------|--|--|
|                                       | 3.5 mg/L (I8)   |                                  | 2.0 mg/L (I4)                |  |  |
|                                       |   |                                  | 2.0 mg/L (I5)                |  |  |
|                                       |   |                                  | 2.5 mg/L (I6)                |  |  |
|                                       |   |                                  | 2.3 mg/L (I9)                |  |  |
|                                       |   |                                  | 2.0 mg/L (I10)               |  |  |
| Possible reason for Action or         | Works scheduled on site on 1  | 1/02 include sand blanket lay    | ing at caisson seawall area, |  |  |
| Limit Level Non-compliance            |   | al, DCM sample coring and D      | 0                            |  |  |
| I I I I I I I I I I I I I I I I I I I | contention dest plant alai, D'err sample coring and D'err main works.   |                                  |                              |  |  |
|                                       | Dominating sea current direction was found to be from Northwest to Southeast at waters around Shek Kwu Chau.  |                                  |                              |  |  |
|                                       | From MMO monitoring records on 11/02, MMO teams were arranged to two DCM barges (ESC-61 & ESC-62) and two derrick barges (Shun Tat D12 & FTB-19) on that day while no deficiency of silt curtain was found before the start of construction activity.   |                                  |                              |  |  |
|                                       | I2, I7 & I8 are located close to the works location within the Project site while silt curtain checking was implemented on ESC-61 (09:00), ESC-62 (08:45) and Shun Tat D12 (10:00) by the Contractor and checking results showed that no deficiency of silt curtain was found on that day. No sand blanket laying work was carried out on FTB-19 due to maintenance of FTB-19 on that day. When compared to the baseline data of dry season (Action Level: 8mg/L & Limit Level: 10mg/L), most of the monitoring stations (including upstream control station UC1 and UC2) were relatively low, it might suggest that the SS exceedances at I2, I7 & I8 are deemed to be unrelated to the Project. |                                  |                              |  |  |
|                                       |   |                                  |                              |  |  |
|                                       |   | rges in the Project site were cl | <b>.</b>                     |  |  |
|                                       | inspection on 13/02, where was no major observation of improper site practice that  |                                  |                              |  |  |
|                                       |   | ase in SS level was observed d   |                              |  |  |
| Actions taken / to be taken           |   | al performance of the Project v  | -                            |  |  |
|                                       | weekly inspection, and the C  | ontractor is remained to imple   | ment all applicable          |  |  |
|                                       | mitigation measures as per the Updated EM&A Manual.   |                                  |                              |  |  |
| Remarks                               |   | the monitoring station position  | ning on land                 |  |  |
| Kemarks                               | Note: $N/R$ – cancelled due to  | the monitoring station position  | ming on fand.                |  |  |
|                                       | Current direction during mid-   | -flood sampling on 11/02:        | HeiLing Chau                 |  |  |

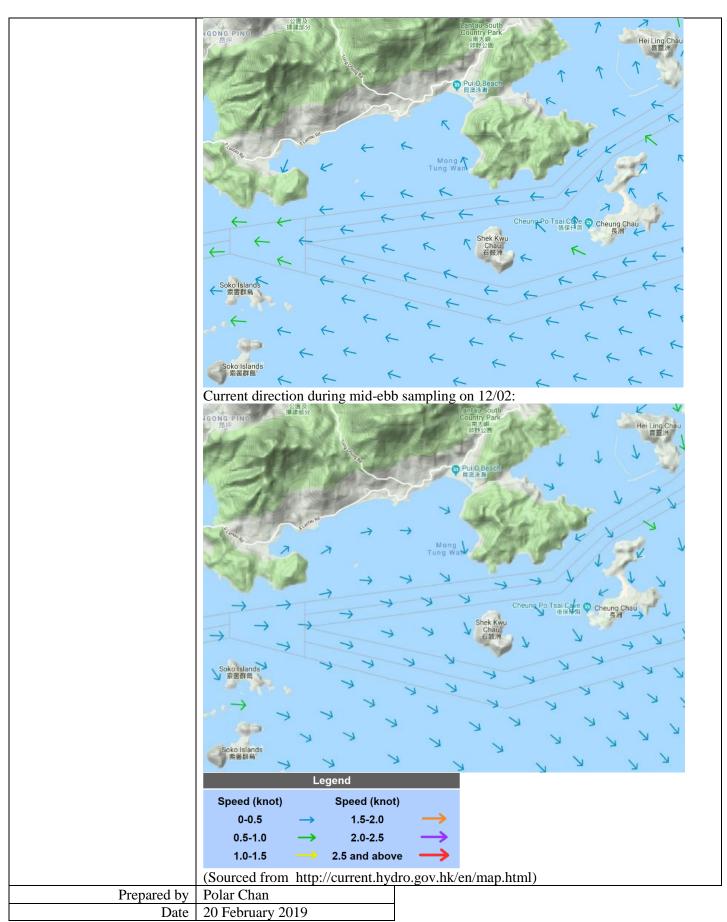


| Project               | Integrated Waste Management Facilities, Phase 1  |
|-----------------------|--|
| Date                  | 12 February 2019 (Lab result received on 19 February 2019)   |
| Time                  | 09:22 – 12:52 (Mid-Flood)  |
|                       | 15:07 – 19:00 (Mid-Ebb)  |
|                       | Mid-Flood  |
| Monitoring Location   | I6 : A (N22°11.406 E113° 59.968)   |
|                       | I9 : B (N22°11.415 E113° 59.032)   |
|                       | To the first |
|                       | bte: Drawing is not to scale   |
| Parameter             | Suspended Solid (SS)   |
| Action & Limit Levels | Action Level     Limit Level   |

|   | $ \begin{array}{ c c c c c } \geq 3.5 \text{ mg/L (} 120\% \text{ of average of UC1 \&} \\ UC2) \end{array} \begin{array}{ c c c } \geq 3.8 \text{ mg/L (} 130\% \\ UC2) \end{array} $  |  |  | 30% of average of UC1 &   |
|---|---|--|--|---|
| Measurement Level   | Impact Station(s) of<br>Exceedance  | Control Stat   | , ,  | Impact Station(s) without<br>Exceedance   |
|   | 3.5 mg/L (I6)<br>4.0 mg/L (I9)  | 3.2 mg/L (UC1)<br>2.7 mg/L (UC2)   |  | 2.5 mg/L (I1)<br>2.3 mg/L (I2)<br>2.5 mg/L (I3)<br>2.7 mg/L (I4)<br>N/A (I5)  |
|   |   |  |  | 2.5 mg/L (I7)<br>3.0 mg/L (I8)<br>N/A (I10)   |
| Possible reason for Action or<br>Limit Level Non-compliance | Works scheduled on site on 1<br>blanket laying at caisson seav  |  |  | -   |
|   | Dominating sea current direction was found to be from Southeast to Northwest at waters around Shek Kwu Chau.  |  |  |   |
|   | From MMO monitoring records on 12/02, MMO teams were arrang barges (ESC-61 & ESC-62) and two derrick barges (Shun Tat D12 day while no deficiency of silt curtain was found before the start of activity.   |  |  | Tat D12 & FTB-19) on that   |
|   | I6 & I9 are located close to the checking was implemented of (11:00) by the Contractor and curtain was found on that day 19 with referring to the site d dry season (Action Level: 8n stations (including upstream might suggest that the SS exception Project. | n ESC-61 (08<br>d checking res<br>y. No sand bla<br>liary on that d<br>ng/L & Limit<br>control station | :00), ESC-62 (0<br>ults showed that<br>nket playing wo<br>ay. When compa<br>Level: 10mg/L),<br>1 UC1 and UC2 | <ul> <li>08:00) and Shun Tat D12</li> <li>t no deficiency of silt</li> <li>ork was carried out on FTB-<br/>ared to the baseline data of</li> <li>, most of the monitoring</li> <li>) were relatively low, it</li> </ul> |
|   | Site tidiness in the present barges in the Project site were checked during weekly site inspection on 13/02, where was no major observation of improper site practice that might contribute to the increase in SS level was observed during the inspection.     |  |  |   |
| Actions taken / to be taken                                 | Examination of environmental performance of the Project will be continued during th weekly inspection, and the Contractor is remained to implement all applicable mitigation measures as per the Updated EM&A Manual.   |  |  | e   |
|   | Mid-E   |  |  |   |
| Monitoring Location   | I4 : A (N22°11.312 E113°59.   | 230)   |  |   |



|                               | 2.3 mg/L (I5)  |  |  |  |
|-------------------------------|--|--|--|--|
|                               | 3.3 mg/L (I6)  |  |  |  |
|                               | 4.8 mg/L (I7)  |  |  |  |
|                               | 3.3 mg/L (I8)  |  |  |  |
|                               | 3.0 mg/L (I9)  |  |  |  |
|                               | 4.2 mg/L (110)   |  |  |  |
| Possible reason for Action or | Works scheduled on site on 12/02 include Cone Penetration Test plant trial, sand   |  |  |  |
| Limit Level Non-compliance    | blanket laying at caisson seawall area, DCM sample coring and DCM main works.  |  |  |  |
|                               | Dominating sea current direction was found to be from Northwest to Southeast at waters around Shek Kwu Chau.   |  |  |  |
|                               | From MMO monitoring records on 12/02, MMO teams were arranged to two DCM barges (ESC-61 & ESC-62) and two derrick barges (Shun Tat D12 & FTB-19) on that day while no deficiency of silt curtain was found before the start of construction activity.  |  |  |  |
|                               | I4 is located close to the works location within the Project site while silt curtain checking was implemented on ESC-61 (08:00), ESC-62 (08:00) and Shun Tat D12 (11:00) by the Contractor and checking results showed that no deficiency of silt curtain was found on that day. No sand blanket playing work was carried out on FTB-19 with referring to the site diary on that day. When compared to the baseline data of dry season (Action Level: 8mg/L & Limit Level: 10mg/L), most of the monitoring stations (including upstream control station UC1 and UC2) were relatively low, it might suggest that the SS exceedances at I4 is deemed to be unrelated to the Project. |  |  |  |
|                               | Site tidiness in the present barges in the Project site were checked during weekly site inspection on 13/02, where was no major observation of improper site practice that might contribute to the increase in SS level was observed during the inspection.  |  |  |  |
| Actions taken / to be taken   | Examination of environmental performance of the Project will be continued during the   |  |  |  |
|                               | weekly inspection, and the Contractor is remained to implement all applicable  |  |  |  |
|                               | mitigation measures as per the Updated EM&A Manual.  |  |  |  |
| Remarks                       | Note: N/A – cancelled due to the monitoring station positioning on land.   |  |  |  |
|                               | Current direction during mid-flood sampling on 12/02:  |  |  |  |



| Project             | Integrated Waste Management Facilities, Phase 1            |
|---------------------|--|
| Date                | 13 February 2019 (Lab result received on 19 February 2019) |
| Time                | 10:05 – 13:35 (Mid-Flood)                                  |
|                     | Mid-Flood  |
| Monitoring Location | I1 : A (N22°11.342 E113° 59.010)                           |
|                     | I2 : B (N22°11.348 E113° 59.030)                           |
|                     | I3 : C (N22°11.395 E113° 59.069)                           |
|                     | I4 : D (N22°11.406 E113° 59.055)                           |
|                     | I5 : E (N22°11.438 E113° 59.107)                           |
|                     | I6 : F (N22°11.308 E113° 58.944)                           |
|                     | I7 : G (N22°11.383 E113° 58.956)                           |
|                     | I8 : H (N22°11.415 E113° 58.983)                           |
|                     | I9 : I (N22°11.447 E113° 59.026)                           |
|                     | I10 : J (N22°11.475 E113° 59.045)                          |
|                     | <image/>   |

|   | Note: Drawing is not to scale   |  | Vorks area<br>for single<br>group of<br>DCM rigs   | UC2<br>Tide Direction   |
|---|---|--|--|---|
| Parameter   | Suspended Solid (SS)  |  |  |   |
| Action & Limit Levels                                       | Action Level $\geq$ 3.7 mg/L (120% of average   | of UC1 &   | Limit Level $\geq 4.0 \text{ mg/L}$ (1)  | 30% of average of UC1 &   |
|   | UC2)  | ordera   | UC2)   | 50% of average of 0.01 &  |
| Measurement Level   | Impact Station(s) of<br>Exceedance  | Control Stat   | ions   | Impact Station(s) without<br>Exceedance   |
| Possible reason for Action or<br>Limit Level Non-compliance | 3.8 mg/L (I1)<br>4.0 mg/L (I2)<br>4.3 mg/L (I3)<br>5.8 mg/L (I4)<br>10.0 mg/L (I5)<br>6.7 mg/L (I6)<br>6.8 mg/L (I7)<br>6.7 mg/L (I8)<br>5.0 mg/L (I9)<br>9.2 mg/L (I10)<br>Works scheduled on site on 1<br>Penetration Test work for DC<br>area, DCM sample coring and<br>Dominating sea current direct<br>waters around Shek Kwu Cha<br>From MMO monitoring record<br>barges (ESC-61 & ESC-62) a<br>day while no deficiency of sit<br>activity.<br>I1, I2, I3, I4, I5, I6, I7, I8, I9 | CM main work<br>d DCM main<br>tion was found<br>au.<br>rds on 13/02, 1<br>and two derric<br>lt curtain was | C2)<br>cone penetration<br>as, laying of same<br>works.<br>d to be from Sou<br>MMO teams we<br>k barges (Shun <sup>7</sup><br>found before the | n test plant trial, post Cone<br>d blanket at caisson seawall<br>utheast to Northwest at<br>ere arranged to two DCM<br>Tat D12 & FTB-19) on that<br>e start of construction |

|                             | project site while silt curtain checking was implemented on ESC-61 (08:50), ESC-62  |  |  |  |  |
|-----------------------------|---|--|--|--|--|
|                             | (08:40) and Shun Tat D12 (10:00) by the Contractor and checking results showed that   |  |  |  |  |
|                             | no deficiency of silt curtain was found on that day. No sand blanket playing works  |  |  |  |  |
|                             | were carried out on FTB-19 & Cheung Kee No.7 with referring to the site diary on  |  |  |  |  |
|                             | that day. It might suggest that the SS exceedances are deemed to be unrelated to the  |  |  |  |  |
|                             | Project.  |  |  |  |  |
|                             | Site tidiness in the present barges in the Project site were checked during weekly site   |  |  |  |  |
|                             | inspection on 13/02, where was no major observation of improper site practice that  |  |  |  |  |
|                             | might contribute to the increase in SS level was observed during the inspection.  |  |  |  |  |
| Actions taken / to be taken | Examination of environmental performance of the Project will be continued during the  |  |  |  |  |
|                             | weekly inspection, and the Contractor is remained to implement all applicable mitigation measures as per the Updated EM&A Manual.   |  |  |  |  |
| Remarks                     | Current direction during mid-flood sampling on 13/02:   |  |  |  |  |
| i contarixs                 | 公開及 August Aug   |  |  |  |  |
|                             | NGONG PING<br>昂坪 日本   |  |  |  |  |
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|                             | Pui O Beach 1   |  |  |  |  |
|                             | 貝漠泳遊  |  |  |  |  |
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|                             | and the second sec  |  |  |  |  |
|                             | Clange K K K  |  |  |  |  |
|                             | L K Tung Wan  |  |  |  |  |
|                             | K K K L K K K K   |  |  |  |  |
|                             | t KKT 2   |  |  |  |  |
|                             |   |  |  |  |  |
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|                             | the the the TR  |  |  |  |  |
|                             |   |  |  |  |  |
|                             | Soka Islands KKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKK   |  |  |  |  |
|                             | Soko Islands<br><sup>Soko Islands</sup><br><del>Soko K</del><br><del>Soko K<br/><del>Soko K</del><br/><del>Soko K</del><br/><del>Soko K</del><br/><del>Soko K<br/><del>Soko K</del><br/><del>Soko K</del><br/><del>Soko K<br/><del>Soko K</del><br/><del>Soko K</del><br/><del>Soko K<br/><del>Soko K</del><br/><del>Soko K</del><br/><del>Soko K</del><br/><del>Soko K</del><br/><del>Soko K</del><br/><del>Soko K<br/><del>Soko K</del><br/><del>Soko K</del><br/><del>Soko K</del><br/><del>Soko K</del><br/><del>Soko K</del><br/><del>Soko K</del><br/><del>Soko K</del><br/><del>Soko K</del><br/><del>Soko K<br/><del>Soko K</del><br/><del>Soko K</del><br/><del>Soko K</del><br/><del>Soko K</del><br/><del>Soko K</del><br/><del>Soko K<br/><del>Soko K</del><br/><del>Soko K</del><br/><del>Soko K</del><br/><del>Soko K<br/><del>Soko K</del><br/><del>Soko K</del><br/><del>Soko K<br/><del>Soko K</del><br/><del>Soko K<br/><del>Soko K<br/><del>Soko K<br/><del>SokoK</del></del></del></del></del></del></del></del></del></del></del></del></del></del></del></del></del></del></del></del></del></del></del></del></del></del></del></del></del></del></del></del></del></del></del></del></del></del></del></del></del></del></del></del></del></del></del></del></del></del></del></del></del></del> |  |  |  |  |
|                             | Legend  |  |  |  |  |
|                             | Speed (knot) Speed (knot)   |  |  |  |  |
|                             | $0-0.5 \longrightarrow 1.5-2.0 \longrightarrow$   |  |  |  |  |
|                             | $0.5-1.0 \longrightarrow 2.0-2.5 \longrightarrow$   |  |  |  |  |
|                             | 1.0-1.5 $\longrightarrow$ 2.5 and above $\longrightarrow$   |  |  |  |  |
|                             | (Sourced from http://current.hydro.gov.hk/en/map.html)  |  |  |  |  |
| Prepared by                 | Polar Chan  |  |  |  |  |
| Date                        | 20 February 2019  |  |  |  |  |

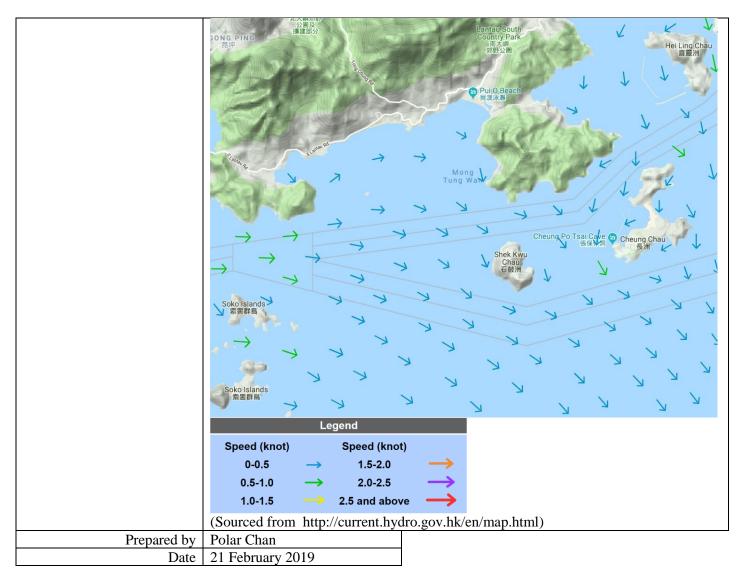
| Project             | Integrated Waste Management Facilities, Phase 1            |  |  |  |  |
|---------------------|--|--|--|--|--|
| Date                | 14 February 2019 (Lab result received on 20 February 2019) |  |  |  |  |
| Time                | 10:47 – 14:17 (Mid-Flood)                                  |  |  |  |  |
|                     | 16:55 – 19:00 (Mid-Ebb)                                    |  |  |  |  |
|                     | Mid-Flood  |  |  |  |  |
| Monitoring Location | I1 : A (N22°11.312 E113° 59.909)                           |  |  |  |  |
| -                   | I2 : B (N22°11.351 E113° 58.976)                           |  |  |  |  |
|                     | I4 : C (N22°11.420 E113° 59.024)                           |  |  |  |  |
|                     | I5 : D (N22°11.448 E113° 59.046)                           |  |  |  |  |
|                     | I7 : E (N22°11.348 E113° 58.912)                           |  |  |  |  |
|                     | I9 : F (N22°11.474 E113° 58.947)                           |  |  |  |  |
|                     | I10 : G (N22°11.485 E113° 59.008)                          |  |  |  |  |
|                     | <image/>   |  |  |  |  |

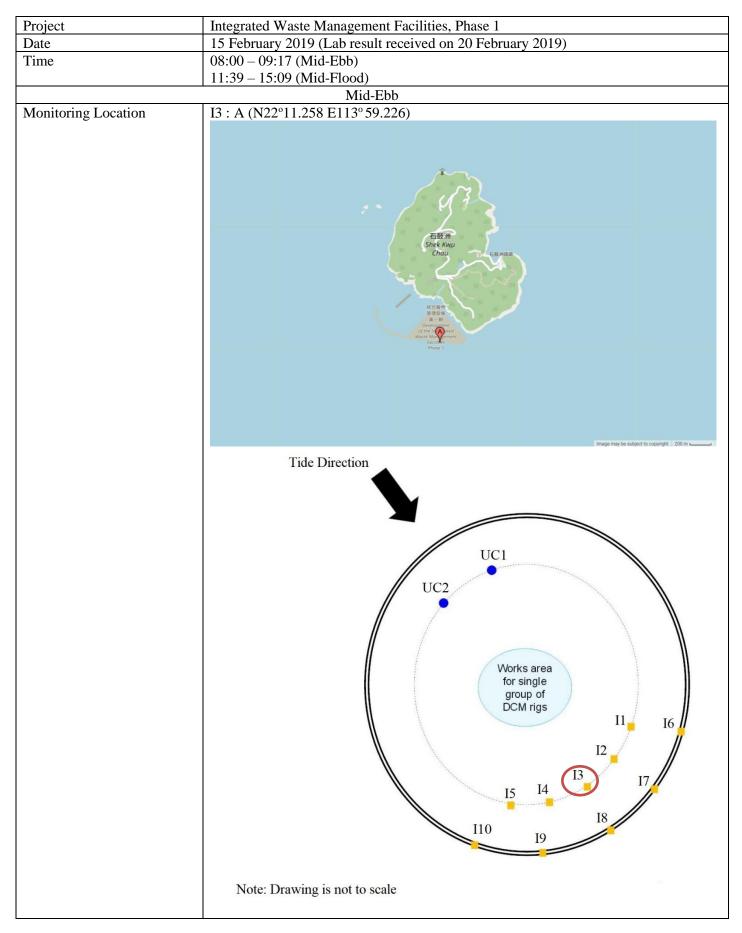
| Parameter   | Note: Drawing is not to scale   |                            | Vorks area<br>for single<br>group of<br>DCM rigs | UC2<br>Tide Direction            |
|---|---|----------------------------|--|----------------------------------|
| Parameter   | Suspended Solid (SS)  |                            | <b>x · · · x 1</b>                               |                                  |
| Action & Limit Levels                                       | Action Level $(120\%)$ of average   | of UC1 &                   | Limit Level                                      | 200/ of overeas of UC1 &         |
|   | $\geq$ 4.9 mg/L (120% of average UC2)   | e or UCI a                 | $\geq$ 5.5 mg/L (1.<br>UC2)                      | 30% of average of UC1 &          |
| Measurement Level   | Impact Station(s) of  | Control Stati              | /  | Impact Station(s) without        |
|   | Exceedance  |                            |  | Exceedance                       |
|   | 5.2 mg/L (I1)<br>6.7 mg/L (I2)  | 3.3 mg/L (U<br>4.8 mg/L (U |  | 4.0 mg/L (I3)<br>4.8 mg/L (I6)   |
|   | 6.7  mg/L (12)<br>6.3  mg/L (I4)  | 4.8 mg/L (U                | (2)  | 4.5  mg/L (10)<br>4.5  mg/L (18) |
|   | 5.0  mg/L (I5)  |                            |  | 4.5 mg/L (10)                    |
|   | 5.8 mg/L (I7)   |                            |  |                                  |
|   | 5.5 mg/L (I9)   |                            |  |                                  |
|   | 7.5 mg/L (I10)  |                            |  |                                  |
| Possible reason for Action or<br>Limit Level Non-compliance | Works scheduled on site on 14/02 include sand blanket laying at caisson seawall area, cone penetration test plant trial, post cone penetration test work, DCM sample coring and DCM main works.   |                            |  |                                  |
|   | Dominating sea current direction was found to be from Southeast to Northwest at waters around Shek Kwu Chau.  |                            |  |                                  |
|   | From MMO monitoring records on 14/02, MMO teams were arranged to two DCM barges (ESC-61 & ESC-62) and one derrick barge (FTB-19) on that day while no deficiency of silt curtain was found before the start of construction activity.   |                            |  |                                  |
|   | I1, I2, I4, I5, I7, I9 & I10 are located close to the works location within the Project site while silt curtain checking was implemented on ESC-61 (07:30) and ESC-62 (07:30) by the Contractor and checking results showed that no deficiency of silt curtain was found on that day. No sand blanket laying works were carried out on Shun Tat D12, FTB-19, Cheung Kee No.7 and Kam Ying No.8 with referring to the site diary on that |                            |  |                                  |

|                             | day. It might suggest that SS exceedances are deemed to be unrelated to the Project.  |  |  |  |  |
|-----------------------------|---|--|--|--|--|
|                             | Site tidiness in the present barges in the Project site were checked during weekly site inspection on 13/02, where was no major observation of improper site practice that might contribute to the increase in SS level was observed during the inspection. |  |  |  |  |
| Actions taken / to be taken | Examination of environmental performance of the Project will be continued during the weekly inspection, and the Contractor is remained to implement all applicable mitigation measures as per the Updated EM&A Manual.                                      |  |  |  |  |
|                             | Mid-Ebb   |  |  |  |  |
| Monitoring Location         | I8 : A (N22°11.259 E113° 59.248)<br>I9 : B (N22°11.180 E113° 59.207)<br>I10 : C (N22°11.170 E113° 59.147)   |  |  |  |  |
|                             |   |  |  |  |  |

|   | Tide Direction   | UC2                        | UC1<br>Works area<br>for single<br>group of<br>DCM rigs | II I6<br>I2<br>I3 I7<br>I8     |
|---|--|----------------------------|---|--------------------------------|
|   |  | uie                        |   |                                |
| Parameter   | Suspended Solid (SS)   |                            |   |                                |
| Action & Limit Levels                                       | Action Level $\geq 5.8 \text{ mg/L}$ (120% of average  | e of UC1 &                 | Limit Level $> 6.3 \text{ mg/L}$ (13)                   | 30% of average of UC1 &        |
|   | UC2)   |                            | UC2)  | 0                              |
| Measurement Level   | Impact Station(s) of   | Control Stati              | ions  | Impact Station(s) without      |
|   | Exceedance   | 50 m = / / / /             | $\overline{\mathbf{C}}$                                 | Exceedance                     |
|   | 7.7 mg/L (I8)<br>10.0 mg/L (I9)  | 5.0 mg/L (U<br>4.7 mg/L (U |   | 2.0 mg/L (I1)<br>3.3 mg/L (I2) |
|   | 10.0  mg/L (19)<br>11.0 mg/L (I10)   | +.7  mg/L (U)              | (2)   | 4.2  mg/L (I2)                 |
|   | 11.0 mg/L (110)  |                            |   | 4.7 mg/L (I3)                  |
|   |  |                            |   | 3.8  mg/L (I5)                 |
|   |  |                            |   | 2.5 mg/L (I6)                  |
|   |  |                            |   | 4.7 mg/L (I7)                  |
| Possible reason for Action or<br>Limit Level Non-compliance | Works scheduled on site on 14/02 include sand blanket laying at caisson seawall area, cone penetration test plant trial, post cone penetration test work, DCM sample coring and DCM main works.  |                            |   |                                |
|   | Dominating sea current direction was found to be from Southeast to Northwest at waters around Shek Kwu Chau.   |                            |   |                                |
|   | From MMO monitoring records on 14/02, MMO teams were arranged to two DCM barges (ESC-61 & ESC-62) and one derrick barge (FTB-19) on that day while no deficiency of silt curtain was found before the start of construction activity.  |                            |   |                                |
|   | I8, I9 & I10 are located close to the works location within the Project site while silt curtain checking was implemented on ESC-61 (07:30) and ESC-62 (07:30) by the Contractor and checking results showed that no deficiency of silt curtain was found on that day. No sand blanket laying works were carried out on Shun Tat D12, FTB-19, |                            |   |                                |

|                             | Cheung Kee No.7 and Kam Ying No.8 with referring to the site diary on that day. It might suggest that SS exceedances are deemed to be unrelated to the Project.   |  |  |  |  |  |
|-----------------------------|---|--|--|--|--|--|
|                             | Site tidiness in the present barges in the Project site were checked during weekly site inspection on 13/02, where was no major observation of improper site practice that might contribute to the increase in SS level was observed during the inspection. |  |  |  |  |  |
| Actions taken / to be taken | Examination of environmental performance of the Project will be continued during the  |  |  |  |  |  |
|                             | weekly inspection, and the Contractor is remained to implement all applicable   |  |  |  |  |  |
|                             | mitigation measures as per the Updated EM&A Manual.   |  |  |  |  |  |
| Remarks                     | Current direction during mid-flood sampling on 14/02:   |  |  |  |  |  |
|                             | Country Park<br>& Extension<br>北大規約時<br>法課題分<br>語》<br>書題的<br>音声中<br>の<br>中山の Beach<br>見漢法書  |  |  |  |  |  |
|                             | Tung Wan  |  |  |  |  |  |
|                             | ttt<br>ttt<br>ttt<br>ttt<br>ttt<br>ttt<br>ttt<br>ttt  |  |  |  |  |  |
|                             | Soko Islands<br>Soko Islands<br>K K K K K K K K K K K K K K K K K K K   |  |  |  |  |  |
|                             | Soko Islands<br>Reference K K K K K K K K K K K K K K K K K K K   |  |  |  |  |  |
|                             | Current direction during mid-ebb sampling on 14/02:   |  |  |  |  |  |

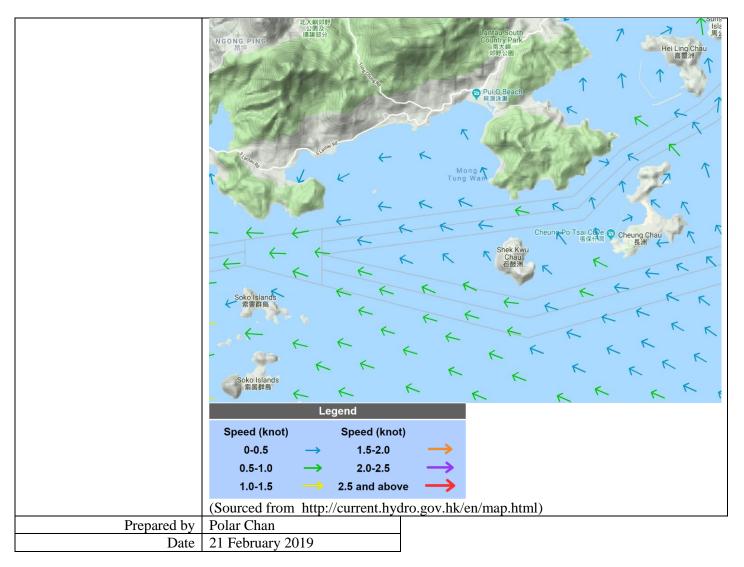


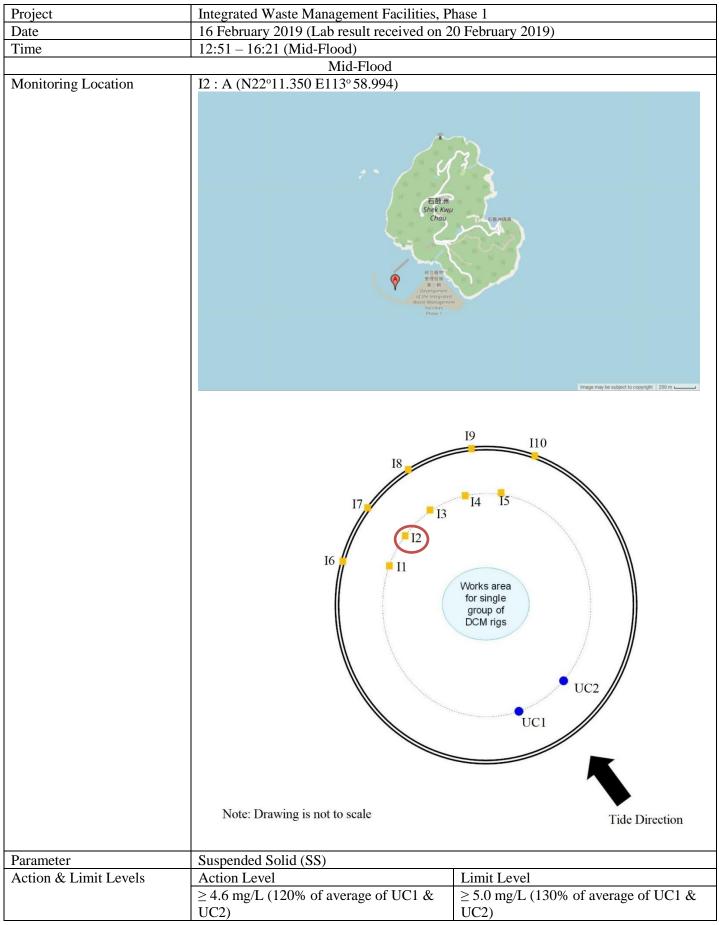


| Parameter                     | Suspended Solid (SS)  |   |                     |                                  |  |
|-------------------------------|---|---|---------------------|----------------------------------|--|
| Action & Limit Levels         | Action Level  |   | Limit Level         |                                  |  |
|                               | $\geq$ 4.0 mg/L (120% of average of UC1 &   |   | $\geq$ 4.3 mg/L (1) | 30% of average of UC1 &          |  |
|                               | UC2)  |   | UC2)                | C                                |  |
| Measurement Level             | Impact Station(s) of  | Control Stat  | /                   | Impact Station(s) without        |  |
|                               | Exceedance  |   |                     | Exceedance                       |  |
|                               | 4.0 mg/L (I3)   | 4.0 mg/L (UC1)  |                     | 2.8 mg/L (I1)                    |  |
|                               |   | 2.7 mg/L (U   |                     | 3.8  mg/L (I2)                   |  |
|                               |   |   | /                   | 2.7  mg/L (I4)                   |  |
|                               |   |   |                     | 2.7  mg/L (15)                   |  |
|                               |   |   |                     | 2.3  mg/L (I6)                   |  |
|                               |   |   |                     | 3.2  mg/L (I7)                   |  |
|                               |   |   |                     | 3.3  mg/L (I8)                   |  |
|                               |   |   |                     | 2.5 mg/L (I9)                    |  |
|                               |   |   |                     | 2.5  mg/L (10)<br>2.5 mg/L (I10) |  |
| Possible reason for Action or | Works scheduled on site on 1  | 5/02 include  | sand blanket lav    |                                  |  |
| Limit Level Non-compliance    | cone penetration test plant tri   |   |                     |                                  |  |
|                               | DCM sample coring and DC  | · ·   |                     | Tor Delvi main works,            |  |
|                               | Denti sample comig and De   |   |                     |                                  |  |
|                               | Dominating sea current direct   | tion was foun   | d to be from No     | rthwest to Southeast at          |  |
|                               | waters around Shek Kwu Ch   | Dominating sea current direction was found to be from Northwest to Southeast at   |                     |                                  |  |
|                               | waters around Shek Kwu Ch   | au.   |                     |                                  |  |
|                               | From MMO monitoring reco<br>barges (ESC-61 & ESC-62) a<br>day while no deficiency of si<br>activity.  | and two derric  | k barges (Shun '    | Tat D12 & FTB-19) on that        |  |
|                               | checking was implemented of<br>and checking results showed<br>No sand blanket laying work<br>referring to the site diary on<br>relatively low SS results (inc<br>suggest that the SS exceedan | o the works location within the Project site while silt cu<br>emented on ESC-61 (08:00) and ESC-62 (09:00) by the<br>s showed that no deficiency of silt curtain was found on<br>ring works were carried out at Shun Tat D12 & FTB-19<br>diary on the day. Since most of the monitoring location<br>esults (including upstream control station UC1 and UC2<br>exceedances at I3 is deemed to be unrelated to the Proj |                     |                                  |  |
| Actions taken / to be taken   | ons taken / to be taken Examination of environmental performance of the Proj  |   |                     |                                  |  |
|                               | weekly inspection, and the Contractor is remained to implement all applic   |   |                     |                                  |  |
|                               | mitigation measures as per the Updated EM&A Manual.   |   |                     |                                  |  |
|                               | Mid-F   |   |                     |                                  |  |
| Monitoring Location           | I1: A (N22°11.322 E113° 58.997)   |   |                     |                                  |  |
|                               | I5 : B (N22°11.423 E113° 59.057)  |   |                     |                                  |  |
|                               | I6 : C (N22°11.283 E113° 58.941)  |   |                     |                                  |  |
|                               | I7 : D (N22°11.341 E113° 58.918)  |   |                     |                                  |  |
|                               | I9 : E (N22°11.448 E113° 58.965)  |   |                     |                                  |  |
|                               | I10 : F (N22°11.483 E113° 59.014)   |   |                     |                                  |  |

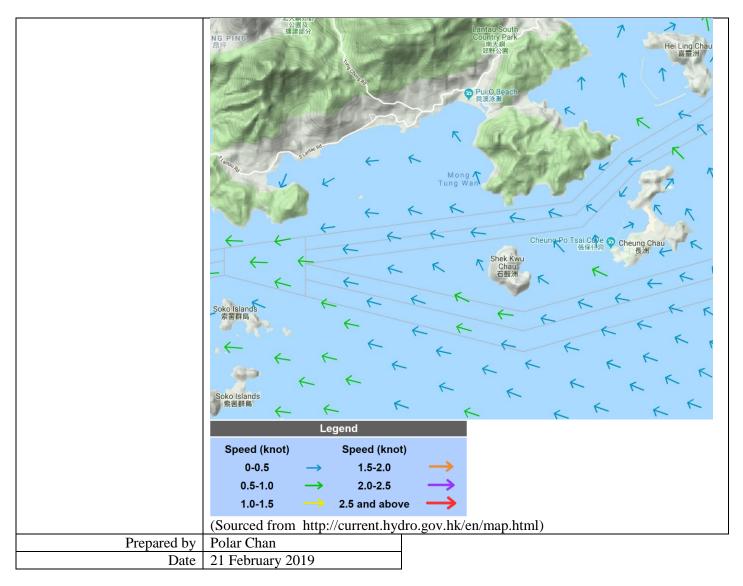
|                                    |   |  | BET MU<br>EXTRACTION OF AN AND AND AND AND AND AND AND AND AND           | mage may be subject to copyright   |
|------------------------------------|---|--|--|--|
|                                    | Note: Drawing is not to scale   | 18<br>12<br>11                             | 19<br>14<br>15<br>Works area<br>for single<br>group of<br>DCM rigs<br>UC | UC2<br>Tide Direction  |
|                                    |   |  |  |  |
| Parameter<br>Action & Limit Levels | Suspended Solid (SS)  |  | Limit Level  |  |
|                                    | Action LevelLimit Level $\geq 2.5 \text{ mg/L}$ (120% of average of UC1 & $\geq 2.7 \text{ mg/L}$ (130% of average of UCUC2)UC2)          |  |  |  |
| Measurement Level                  | Impact Station(s) of           Exceedance           2.5 mg/L (I1)           2.8 mg/L (I5)           2.5 mg/L (I6)           3.7 mg/L (I7) | Control Stat<br>2.2 mg/L (U<br>2.0 mg/L (U | ions<br>C1)  | Impact Station(s) without           Exceedance           2.2 mg/L (I2)           2.3 mg/L (I3)           2.0 mg/L (I4)           2.2 mg/L (I8) |

|                               | 2.8 mg/L (I9)  |  |  |  |  |  |
|-------------------------------|--|--|--|--|--|--|
|                               | 4.0  mg/L (110)  |  |  |  |  |  |
| Possible reason for Action or | Works scheduled on site on 15/02 include sand blanket laying at caisson seawall area,  |  |  |  |  |  |
| Limit Level Non-compliance    |  |  |  |  |  |  |
|                               | DCM sample coring and DCM main works.  |  |  |  |  |  |
|                               | <ul> <li>Dominating sea current direction was found to be from Southeast to Northwest at waters around Shek Kwu Chau.</li> <li>From MMO monitoring records on 15/02, MMO teams were arranged to two DCM barges (ESC-61 &amp; ESC-62) and two derrick barges (Shun Tat D12 &amp; FTB-19) on that day while no deficiency of silt curtain was found before the start of construction activity.</li> <li>I1, I5, I6, I7, I9 and I10 are located close to the works location within the Project site while silt curtain checking was implemented on ESC-61 (08:00) and ESC-62 (09:00) by the Contractor and checking results showed that no deficiency of silt curtain was found on that day. No sand blanket laying works were carried out at Shun Tat D12 &amp; FTB-19 with referring to the site diary on the day. Since most of the monitoring locations had relatively low SS results (including upstream control station UC1 and UC2), it might suggest that the SS exceedances at I1, I5, I6, I7, I9 and I10 are deemed to be unrelated to the Project.</li> </ul>  |  |  |  |  |  |
|                               |  |  |  |  |  |  |
|                               |  |  |  |  |  |  |
| Actions taken / to be taken   | Examination of environmental performance of the Project will be continued during the   |  |  |  |  |  |
|                               | weekly inspection, and the Contractor is remained to implement all applicable  |  |  |  |  |  |
|                               | mitigation measures as per the Updated EM&A Manual.  |  |  |  |  |  |
| Remarks                       | Current direction during mid-ebb sampling on 15/02:  |  |  |  |  |  |
|                               | HIGONG PTINO<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY<br>REALITY |  |  |  |  |  |
|                               |  |  |  |  |  |  |
|                               | Soko Islands<br><sup>Soko</sup> Islands<br><sup>Sag</sup> 器群員  |  |  |  |  |  |
|                               | Soko Islands<br>REBRING<br>Current direction during mid-flood sampling on 15/02:   |  |  |  |  |  |





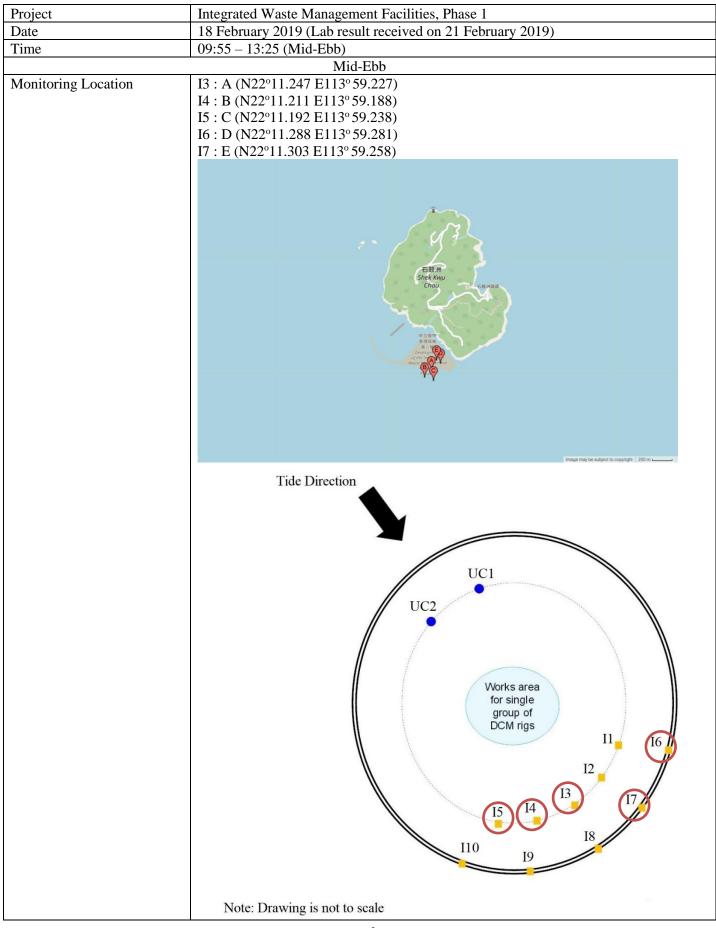
| Measurement Level             | Impact Station(s) of   | Control Stations                 | Impact Station(s) without  |  |  |  |  |
|-------------------------------|--|----------------------------------|----------------------------|--|--|--|--|
|                               | Exceedance   |                                  | Exceedance                 |  |  |  |  |
|                               | 4.8 mg/L (I2)  | 3.2 mg/L (UC1)                   | 4.2 mg/L (I1)              |  |  |  |  |
|                               |  | 4.5 mg/L (UC2)                   | 2.2  mg/L (I3)             |  |  |  |  |
|                               |  |                                  | 2.0 mg/L (I4)              |  |  |  |  |
|                               |  |                                  | 2.0 mg/L (I5)              |  |  |  |  |
|                               |  |                                  | 4.3 mg/L (I6)              |  |  |  |  |
|                               |  |                                  | 4.0 mg/L (I7)              |  |  |  |  |
|                               |  |                                  | 3.0 mg/L (I8)              |  |  |  |  |
|                               |  |                                  | 3.8 mg/L (I9)              |  |  |  |  |
|                               |  |                                  | 2.0 mg/L (I10)             |  |  |  |  |
| Possible reason for Action or | Works scheduled on site on 1   | 16/02 include laying of sand b   | lanket at caisson seawall  |  |  |  |  |
| Limit Level Non-compliance    | area, cone penetration test pl   | ant trial, post cone penetratior | n test for DCM main works, |  |  |  |  |
|                               | DCM sample coring for DCM  | M main works and DCM main        | works.                     |  |  |  |  |
|                               |  |                                  |                            |  |  |  |  |
|                               |  | ction was found to be from So    | utheast to Northwest at    |  |  |  |  |
|                               | waters around Shek Kwu Ch  | au.                              |                            |  |  |  |  |
|                               |  |                                  |                            |  |  |  |  |
|                               | From MMO monitoring records on 16/02, MMO teams were arranged to two I   |                                  |                            |  |  |  |  |
|                               | barges (ESC-61 & ESC-62) and two derrick barges (Shun Tat D12 & FTB-19) on that day while no deficiency of silt curtain was found before the start of construction   |                                  |                            |  |  |  |  |
|                               |  |                                  |                            |  |  |  |  |
|                               | activity.  |                                  |                            |  |  |  |  |
|                               |  |                                  |                            |  |  |  |  |
|                               |  | k location within the Project s  |                            |  |  |  |  |
|                               |  | on ESC-61 (08:15), ESC-62 (0     |                            |  |  |  |  |
|                               |  | by the Contractor and checkin    | e                          |  |  |  |  |
|                               | 5  | found on that day. No sand b     |                            |  |  |  |  |
|                               |  | 3 was carried out with referrin  |                            |  |  |  |  |
|                               |  | ine data of dry season (Action   |                            |  |  |  |  |
|                               | Level: 10mg/L), most of the monitoring stations (including upstream control station         UC1 and UC2) were relatively low, it might suggest that the SS exceedance at I2 is deemed to be unrelated to the Project.         e taken       Examination of environmental performance of the Project will be continued during |                                  |                            |  |  |  |  |
|                               |  |                                  |                            |  |  |  |  |
|                               |  |                                  |                            |  |  |  |  |
| Actions taken / to be taken   |  |                                  | Ũ                          |  |  |  |  |
|                               | weekly inspection, and the Contractor is remained to implement all applicable  |                                  |                            |  |  |  |  |
|                               | mitigation measures as per th  | ne Updated EM&A Manual.          |                            |  |  |  |  |
| Remarks                       | Current direction during mid-flood sampling on 16/02:  |                                  |                            |  |  |  |  |



| Project             | Integrated Waste Management Facilities, Phase 1            |  |  |  |  |  |
|---------------------|--|--|--|--|--|--|
| Date                | 17 February 2019 (Lab result received on 21 February 2019) |  |  |  |  |  |
| Time                | 14:04 – 17:34 (Mid-Flood)                                  |  |  |  |  |  |
|                     | Mid-Flood  |  |  |  |  |  |
| Monitoring Location | I3 : A (N22°11.374 E113° 59.005)                           |  |  |  |  |  |
|                     | I4 : B (N22°11.412 E113° 59.034)                           |  |  |  |  |  |
|                     | I5 : C (N22°11.429 E113° 59.082)                           |  |  |  |  |  |
|                     | I6 : D (N22°11.265 E113° 58.899)                           |  |  |  |  |  |
|                     | I7 : E (N22°11.327 E113° 58.916)                           |  |  |  |  |  |
|                     | I8 : F (N22°11.385 E113° 58.923)                           |  |  |  |  |  |
|                     | I9 : G (N22°11.421 E113° 58.975)                           |  |  |  |  |  |
|                     | I10 : H (N22°11.469 E113° 59.040)                          |  |  |  |  |  |
|                     | Image: sector condition                                    |  |  |  |  |  |

| Parameter   | Note: Drawing is not to scale  |   | Vorks area<br>for single<br>group of<br>DCM rigs  | UC2<br>UC2<br>Tide Direction   |
|---|--|---|---|--|
| Parameter<br>Action & Limit Levels                          | Suspended Solid (SS)<br>Action Level   |   | Limit Level   |  |
| Action & Linit Levels                                       | $\geq$ 2.4 mg/L (120% of average UC2)  | e of UC1 &  |   | 30% of average of UC1 &  |
| Measurement Level   | Impact Station(s) of<br>Exceedance<br>3.2 mg/L (I3)<br>2.7 mg/L (I4)<br>3.5 mg/L (I5)<br>3.2 mg/L (I6)<br>3.0 mg/L (I7)<br>2.8 mg/L (I8)<br>3.2 mg/L (I9)<br>2.5 mg/L (I10)  | Control Stat<br>2.0 mg/L (U<br>2.0 mg/L (U  | C1)<br>C2)  | Impact Station(s) without<br>Exceedance<br>2.0 mg/L (I1)<br>2.0 mg/L (I2)  |
| Possible reason for Action or<br>Limit Level Non-compliance | <ul> <li>Works scheduled on site on 1 area, DCM sample coring for</li> <li>Dominating sea current direct waters around Shek Kwu Charles around Shek Kwu Charles (ESC-61 &amp; ESC-62) a FTB-19) on that day while not construction activity.</li> <li>I3, I4, I5, I6, I7, I8, I9 &amp; I10 site while silt curtain checking resuthat day. No sand blanket lay</li> </ul> | r DCM main v<br>tion was found<br>au.<br>rds on 17/02, 1<br>and three derri<br>o deficiency of<br>are located clo<br>ag was implem<br>ilts showed tha | d to be from Sou<br>MMO teams we<br>ck barges (DEN<br>f silt curtain was<br>ose to the work<br>at no deficiency | main works.<br>utheast to Northwest at<br>ere arranged to two DCM<br>ISON3, Shun Tat D12 &<br>s found before the start of<br>location within the Project<br>Tat D12 (09:00) by the<br>of silt curtain was found on |

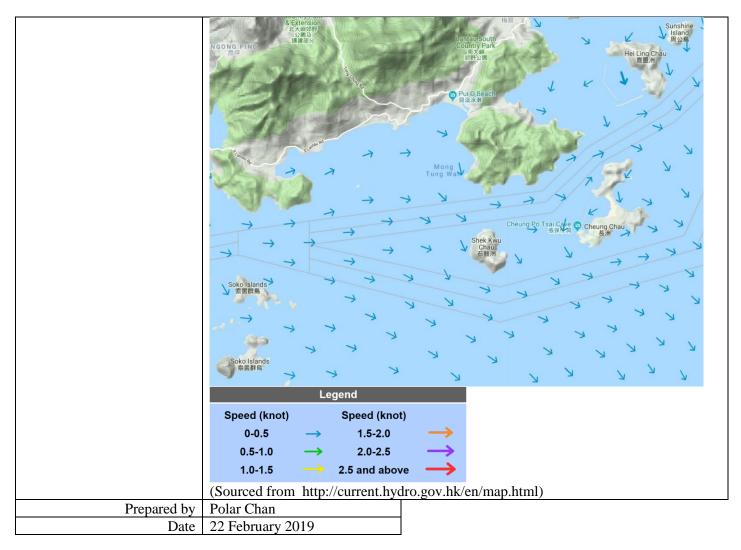
|                             | carried out with referring to site diary on that day. No DCM main works scheduled in  |  |  |
|-----------------------------|---|--|--|
|                             | ESC-61 & ESC-62 were carried out with referring to site diary on that day. When   |  |  |
|                             | compared to the baseline data of dry season (Action Level: 8mg/L & Limit Level:   |  |  |
|                             | 10mg/L), most of the monitoring stations (including upstream control station UC1 and  |  |  |
|                             | UC2) were relatively low, it might suggest that the SS exceedance at I3, I4, I5, I6, I7,  |  |  |
|                             | I8, I9 & I10 are deemed to be unrelated to the Project.   |  |  |
| Actions taken / to be taken | Examination of environmental performance of the Project will be continued during the  |  |  |
|                             | weekly inspection, and the Contractor is remained to implement all applicable   |  |  |
|                             | mitigation measures as per the Updated EM&A Manual.   |  |  |
| Remarks                     | Current direction during mid-flood sampling on 17/02:   |  |  |
|                             | Lantau North<br>Country Park MUI WO   |  |  |
|                             | & Extension<br>行法 Levies  |  |  |
|                             | 公園及<br>描葉部分<br>IONG PING  |  |  |
|                             | iong Ping<br>最評 高評 Hei Ling Chau  |  |  |
|                             |   |  |  |
|                             | $\uparrow \uparrow $ |  |  |
|                             | ♀ Puil0.Beach<br>貝波泳道   |  |  |
|                             | K K   |  |  |
|                             |   |  |  |
|                             |   |  |  |
|                             | Status St + K   |  |  |
|                             | Mong Tung Wan   |  |  |
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|                             | test all a  |  |  |
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|                             | <pre></pre>   |  |  |
|                             |   |  |  |
|                             | CARK A  |  |  |
|                             | Soko Islands<br>察罢群島  |  |  |
|                             | A A A A A A A A   |  |  |
|                             | t t t t t t t   |  |  |
|                             | K K K K K K K   |  |  |
|                             |   |  |  |
|                             | Soko Islands  |  |  |
|                             |   |  |  |
|                             | Legend  |  |  |
|                             | Speed (knot) Speed (knot)   |  |  |
|                             | 0-0.5 → 1.5-2.0 →   |  |  |
|                             | 0.5-1.0 → 2.0-2.5 →   |  |  |
|                             | 1.0-1.5 $\rightarrow$ 2.5 and above $\rightarrow$   |  |  |
|                             | (Sourced from http://current.hydro.gov.hk/en/map.html)  |  |  |
| Prepared by                 | Polar Chan  |  |  |
| Date                        | 22 February 2019  |  |  |
| Date                        | 22 Foruary 2017   |  |  |

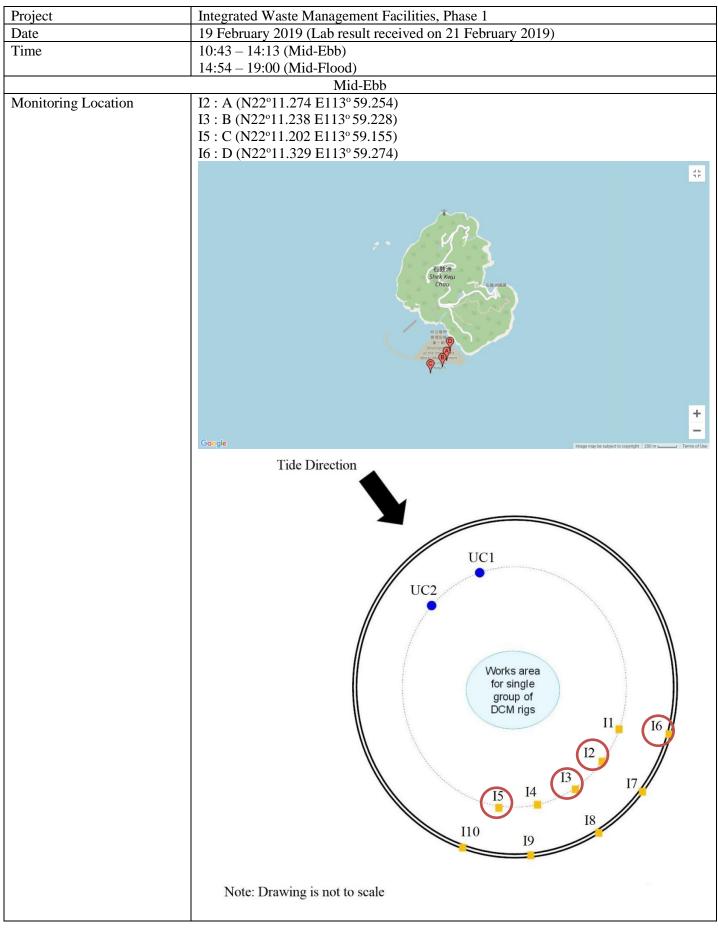


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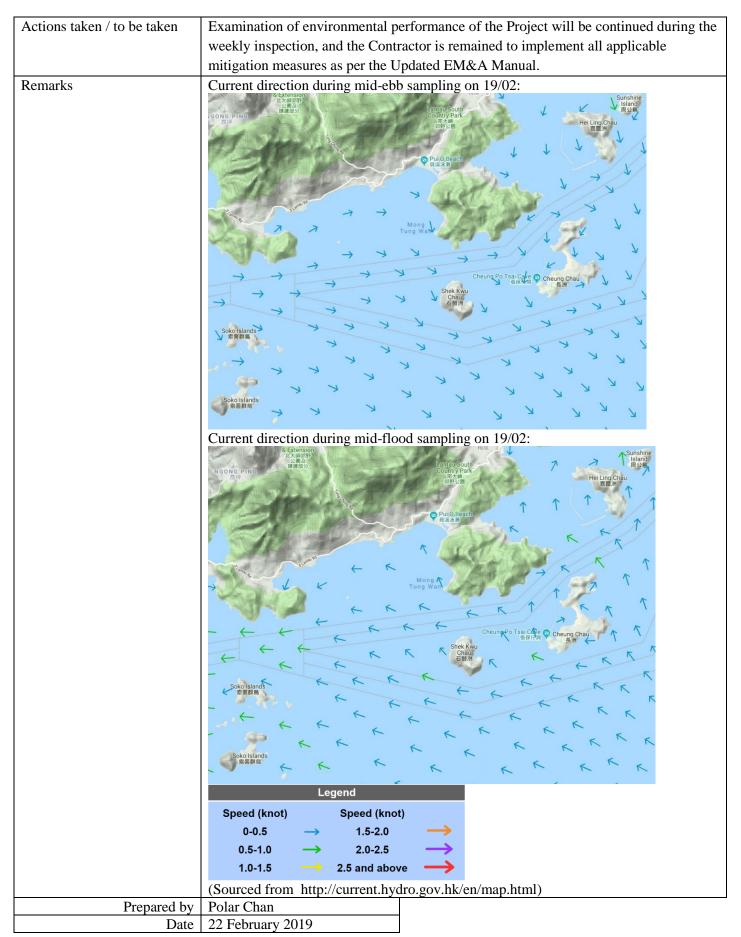
| Parameter                   | Suspended Solid (SS)   |               |   |   |
|-----------------------------|--|---------------|---|---|
| Action & Limit Levels       | Action Level   |               | Limit Level                               |   |
|                             | $\geq$ 4.5 mg/L (120% of average   | e of UC1 &    | $\geq$ 4.9 mg/L (130% of average of UC1 & |   |
|                             | UC2)   |               | UC2)                                      | -   |
| Measurement Level           | Impact Station(s) of   | Control Stati | ons                                       | Impact Station(s) without   |
|                             | Exceedance   |               |   | Exceedance  |
|                             | 5.0 mg/L (I3)  | 3.8 mg/L (U   | C1)                                       | 3.8 mg/L (I1)   |
|                             | 6.5 mg/L (I4)  | 3.7 mg/L (U   | C2)                                       | 3.0 mg/L (I2)   |
|                             | 7.3 mg/L (I5)  |               |   | 3.5 mg/L (I8)   |
|                             | 5.5 mg/L (I6)  |               |   | 4.0 mg/L (I9)   |
|                             | 5.3 mg/L (I7)  |               |   | 3.7 mg/L (I10)  |
| Limit Level Non-compliance  | <ul> <li>Works scheduled on site on 18/02 include laying of sand blanket at caisson seawall area, cone penetration test plant trial, post cone penetration test, DCM sample coring for DCM main works and DCM main works.</li> <li>Dominating sea current direction was found to be from Southeast to Northwest at waters around Shek Kwu Chau.</li> <li>From MMO monitoring records on 18/02, MMO teams were arranged to two DCM barges (ESC-61 &amp; ESC-62) and two derrick barges (Shun Tat D12 &amp; FTB-19) on th day while no deficiency of silt curtain was found before the start of construction activity.</li> <li>I3, I4, I5, I6 &amp; I7 are located close to the work location within the Project site while no sand blanket laying works scheduled in FTB-19, Shun Tat D12, Cheung Kee No.</li> </ul> |               |   | atheast to Northwest at<br>ore arranged to two DCM<br>Tat D12 & FTB-19) on that<br>e start of construction<br>thin the Project site while |
| Actions taken / to be taken | <ul> <li>&amp; Kam Ying No.8 were carried out with referring to site diary on that day. No DCM main works scheduled in ESC-61 &amp; ESC-62 were carried out due to adverse wave condition on that day. It might suggest that the SS exceedance at I3, I4, I5, I6 &amp; I7 are deemed to be unrelated to the Project.</li> <li>Examination of environmental performance of the Project will be continued during th weekly inspection, and the Contractor is remained to implement all applicable</li> </ul>   |               |   |   |
|                             | mitigation measures as per the Updated EM&A Manual.  |               |   |   |
| Remarks                     | Current direction during mid-  | -ebb sampling | on 18/02:                                 |   |

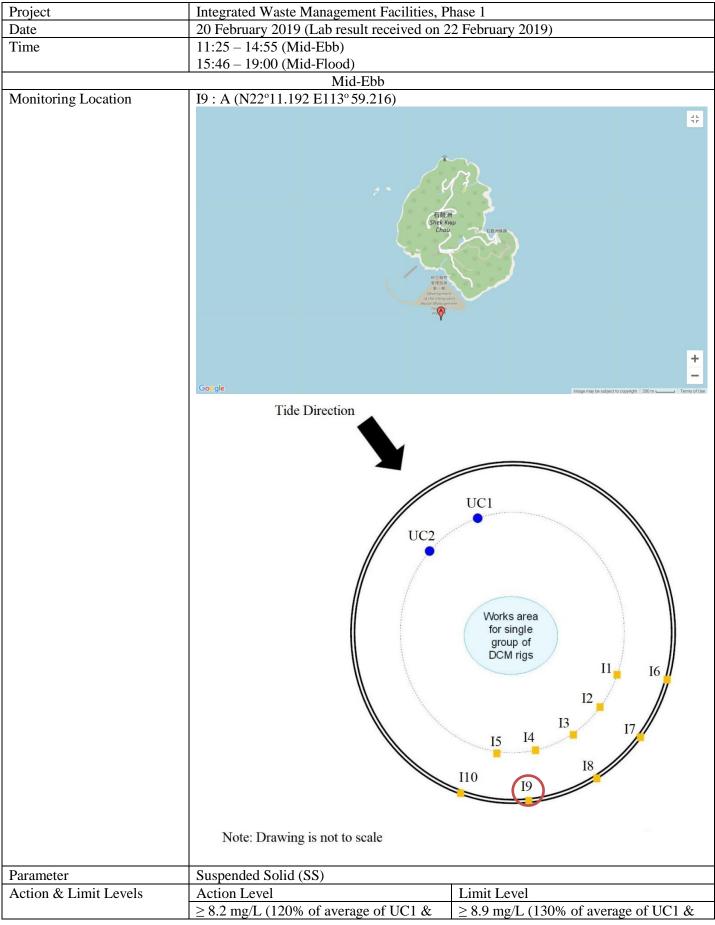




| Parameter                     | Suspended Solid (SS)   |  |  |   |
|-------------------------------|--|--|--|---|
| Action & Limit Levels         | Action Level   | Limit Level                                    |  |   |
|                               | $\geq$ 8.7 mg/L (120% of average UC2)  | e of UC1 & $\geq 9.4 \text{ mg/L}$ (13<br>UC2) |  | 30% of average of UC1 &   |
| Measurement Level             | Impact Station(s) of   | Control Sta                                    | tions  | Impact Station(s) without   |
|                               | Exceedance   |  |  | Exceedance  |
|                               | 9.5 mg/L (I2)  | 6.7 mg/L (U                                    | JC1)   | 6.8 mg/L (I1)   |
|                               | 9.3 mg/L (I3)  | 7.8 mg/L (U                                    |  | 7.3 mg/L (I4)   |
|                               | 9.3 mg/L (I5)  | U X  | ,  | 8.7 mg/L (I7)   |
|                               | 9.2 mg/L (I6)  |  |  | 8.2  mg/L (I8)  |
|                               | , <u>, , , , , , , , , , , , , , , , , , </u>  |  |  | 7.3  mg/L (I9)  |
|                               |  |  |  | 8.7 mg/L (I10)  |
| Possible reason for Action or | Works scheduled on site on   | 19/02 include                                  | sand blanket lav   |   |
| Limit Level Non-compliance    | post cone penetration test we<br>plant trial.<br>Dominating sea current direct<br>waters around Shek Kwu Ch  | ork, DCM sam                                   | ple coring, DCN  | A main works and DCM  |
|                               | <ul> <li>From MMO monitoring records on 19/02, MMO teams were arranged to two DO barges (ESC-61 &amp; ESC-62) and two derrick barge (FTB-19 &amp; Kam Ying No.8) that day while no deficiency of silt curtain was found before the start of construct activity.</li> <li>I2, I3, I5 &amp; I6 are located close to the works location within the Project site whil curtain checking was implemented on FTB-19 (07:00), Kam Ying (18:00), ESC-(10:30) and ESC-62 (00:00) by the Contractor and checking results showed that deficiency of silt curtain was found on that day. No sand blanket laying work was approximately active to the start of the</li></ul> |  |  | 9 & Kam Ying No.8) on<br>re the start of construction<br>n the Project site while silt<br>m Ying (18:00), ESC-61<br>og results showed that no |
|                               | suggest that SS exceedances  |  | -  |   |
| Actions taken / to be taken   | Examination of environmental performance of the Project will be continued during the weekly inspection, and the Contractor is remained to implement all applicable mitigation measures as per the Updated EM&A Manual.   |  |  |   |
|                               | Mid-F  |  |  |   |
| Monitoring Location           | I1 : A (N22°11.283 E113° 59<br>I2 : B (N22°11.324 E113° 58<br>I3 : C (N22°11.363 E113° 59<br>I4 : D (N22°11.405 E113° 59<br>I9 : E (N22°11.453 E113° 58  | 9.016)<br>9.994)<br>9.011)<br>9.028)           |  |   |
|                               |  |  |  | #   |
|                               |  |  | Eternation of the second secon | +   |
|                               | Google   |  |  | Image may be subject to copyright   200 m Terms of Use  |

|   | Note: Drawing is not to scale   |   | Vorks area<br>for single<br>group of<br>DCM rigs                            | • UC2   |
|---|---|---|---|---|
| Parameter   | Suspended Solid (SS)  |   |   |   |
| Action & Limit Levels                                       | Action Level  |   | Limit Level   |   |
|   | $\geq$ 7.1 mg/L (120% of average UC2)   | e of UC1 &  | $\geq$ 7.7 mg/L (1)<br>UC2)   | 30% of average of UC1 &   |
| Measurement Level   | Impact Station(s) of Exceedance   | Control Stat  | ions  | Impact Station(s) without<br>Exceedance   |
|   | 9.2 mg/L (I1)   | 5.2 mg/L (U   | C1)   | 6.5 mg/L (I5)   |
|   | 8.2 mg/L (I2)   | 6.7 mg/L (U   | C2)   | 5.5 mg/L (I6)   |
|   | 9.0 mg/L (I3)   |   |   | 5.7 mg/L (I7)   |
|   | 8.7 mg/L (I4)   |   |   | 5.7 mg/L (I8)   |
|   | 8.0 mg/L (I9)   |   |   | 6.7 mg/L (I10)  |
| Possible reason for Action or<br>Limit Level Non-compliance | <ul> <li>Works scheduled on site on 19/02 include sand blanket laying at caisson seawall area, post cone penetration test work, DCM sample coring, DCM main works and DCM plant trial.</li> <li>Dominating sea current direction was found to be from Southeast to Northwest at waters around Shek Kwu Chau.</li> <li>From MMO monitoring records on 19/02, MMO teams were arranged to two DCM barges (ESC-61 &amp; ESC-62) and two derrick barge (FTB-19 &amp; Kam Ying No.8) on that day while no deficiency of silt curtain was found before the start of construction activity.</li> <li>I1, I2, I3, I4 &amp; I9 are located close to the works location within the Project site while</li> </ul> |   |   |   |
|   | silt curtain checking was imp<br>(10:30) and ESC-62 (00:00) I<br>deficiency of silt curtain was<br>carried out on Cheung Kee N<br>suggest that SS exceedances   | lemented on H<br>by the Contract<br>found on that<br>o.7 with refer | TB-19 (07:00),<br>ctor and checkin<br>day. No sand bl<br>ring to the site d | Kam Ying (18:00), ESC-61<br>g results showed that no<br>lanket laying work was<br>liary on that day. It might |





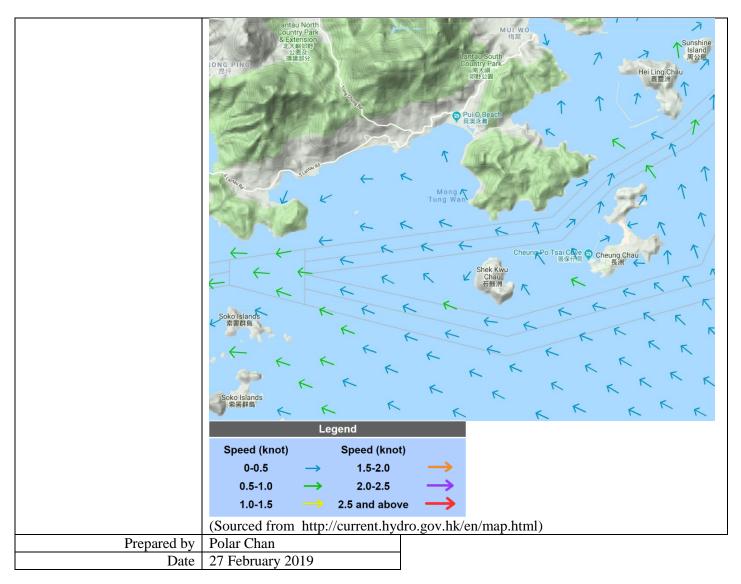
|                               | UC2)  | UC2)   |   |  |
|-------------------------------|---|--|---|--|
| Measurement Level             | Impact Station(s) of<br>Exceedance  | Control Stations   | Impact Station(s) without<br>Exceedance   |  |
|                               | 9.5 mg/L (I9)   | 7.0 mg/L (UC1)<br>6.7 mg/L (UC2)   | 7.5 mg/L (I1)<br>7.7 mg/L (I2)<br>6.3 mg/L (I3)<br>4.8 mg/L (I4)<br>6.3 mg/L (I5)<br>6.2 mg/L (I5)<br>6.2 mg/L (I6)<br>7.5 mg/L (I7)<br>7.8 mg/L (I8)<br>7.7 mg/L (I10) |  |
| Possible reason for Action or |   | on 20/02 include laying of ge  | otextile at reclamation area,   |  |
| Limit Level Non-compliance    | sample coring, DCM main   | casson seawall area, post con<br>n works and DCM plant trial<br>frection was found to be from                |   |  |
|                               | waters around Shek Kwu  |  | i Normwest to Soumeast at   |  |
|                               | <ul> <li>From MMO monitoring records on 20/02, MMO teams were arranged to two DCM barges (ESC-61 &amp; ESC-62) and two derrick barge (FTB-19 &amp; Kam Ying No.8) on that day while no deficiency of silt curtain was found before the start of construction activity.</li> <li>I9 is located close to the works location within the Project site while silt curtain checking was implemented on FTB-19 (08:00), Kam Ying No.8 (09:00), ESC-61 (16:00) and ESC-62 (07:00) by the Contractor and checking results showed that not deficiency of silt curtain was found on that day. It might suggest that SS exceedance</li> </ul> |  |   |  |
|                               |   |  |   |  |
|                               | deemed to be unrelated to the Project.  |  |   |  |
| Actions taken / to be taken   | Examination of environmental performance of the Project will be continued during the weekly inspection, and the Contractor is remained to implement all applicable mitigation measures as per the Updated EM&A Manual.  |  |   |  |
|                               |   | l-Flood  |   |  |
| Monitoring Location           | I1 : A (N22°11.454 E113°<br>I2 : B (N22°11.459 E113°  | · · · · · · · · · · · · · · · · · · ·  |   |  |
|                               |   | 石枝洲<br>石枝洲<br>Shek Kwa<br>Chau<br>中<br>田田田<br>田田<br>田田<br>田田<br>田田<br>田田<br>田田<br>田田<br>田田<br>田田<br>田田<br>田田 |   |  |

|                               | Note: Drawing is not to scale   |               | 19 IIO<br>I4 I5<br>Works area<br>for single<br>group of<br>DCM rigs<br>UCI | UC2                                   |
|-------------------------------|---|---------------|--|---------------------------------------|
| Parameter                     | Suspended Solid (SS)  |               |  |                                       |
| Action & Limit Levels         | Action Level  |               | Limit Level  |                                       |
|                               | $\geq$ 7.0 mg/L (120% of average UC2)   | •             | UC2)   | 30% of average of UC1 &               |
| Measurement Level             | Impact Station(s) of  | Control Stat  | ions   | Impact Station(s) without             |
|                               | Exceedance  |               |  | Exceedance                            |
|                               | 7.7 mg/L (I4)   | 5.8 mg/L (U   |  | 5.8 mg/L (I1)                         |
|                               | 7.3 mg/L (I7)   | 5.8 mg/L (U   | C2)  | 5.7  mg/L (I2)                        |
|                               |   |               |  | 6.2  mg/L (I3)                        |
|                               |   |               |  | 6.7  mg/L (I5)                        |
|                               |   |               |  | 4.8 mg/L (I6)<br>6.0 mg/L (I8)        |
|                               |   |               |  | 5.7 mg/L (I9)                         |
|                               |   |               |  | 5.3 mg/L (I10)                        |
| Possible reason for Action or | Works scheduled on site on 2  | 0/02 include  | laying of geotex   | · · · · · · · · · · · · · · · · · · · |
| Limit Level Non-compliance    | laying of sand blanket at cais sample coring, DCM main w  | son seawall a | rea, post cone pe  |                                       |
|                               | Dominating sea current direction was found to be from Southeast to Northwest at waters around Shek Kwu Chau.<br>From MMO monitoring records on 20/02, MMO teams were arranged to two DCM barges (ESC-61 & ESC-62) and two derrick barge (FTB-19 & Kam Ying No.8) on that day while no deficiency of silt curtain was found before the start of construction activity. |               |  | theast to Northwest at                |
|                               |   |               |  | 9 & Kam Ying No.8) on                 |
|                               | I4 & I7 are located close to the checking was implemented of (16:00) and ESC-62 (07:00) I   | n FTB-19 (08  | :00), Kam Ying   | No.8 (09:00), ESC-61                  |

|                             | definition or of all anythin man found on that down it might man and that 00 and 1  |
|-----------------------------|---|
|                             | deficiency of silt curtain was found on that day. It might suggest that SS exceedances are deemed to be unrelated to the Project. |
| Actions taken / to be taken | Examination of environmental performance of the Project will be continued during the  |
| Actions taken / to be taken | weekly inspection, and the Contractor is remained to implement all applicable   |
|                             |   |
| D 1                         | mitigation measures as per the Updated EM&A Manual.   |
| Remarks                     | Current direction during mid-ebb sampling on 20/02:   |
|                             | Solo lelands<br>Solo lelands<br>Turrent direction during mid-flood sampling on 20/02:   |
|                             | CONCEPTING  |
|                             | $\begin{array}{c} \begin{array}{c} \begin{array}{c} \\ \\ \end{array} \end{array}$  |
|                             | Soko Islands<br>t t t t t t t t t t t t t t t t t t t   |
|                             | Legend  |
|                             | Speed (knot) Speed (knot)   |
|                             | $0-0.5 \rightarrow 1.5-2.0 \rightarrow $  |
|                             | $0.5-1.0 \longrightarrow 2.0-2.5 \longrightarrow$   |
|                             | 1.0-1.5 $\longrightarrow$ 2.5 and above $\longrightarrow$   |
|                             | (Sourced from http://current.hydro.gov.hk/en/map.html)  |
| Prepared by                 |   |
| Date                        | 23 February 2019  |

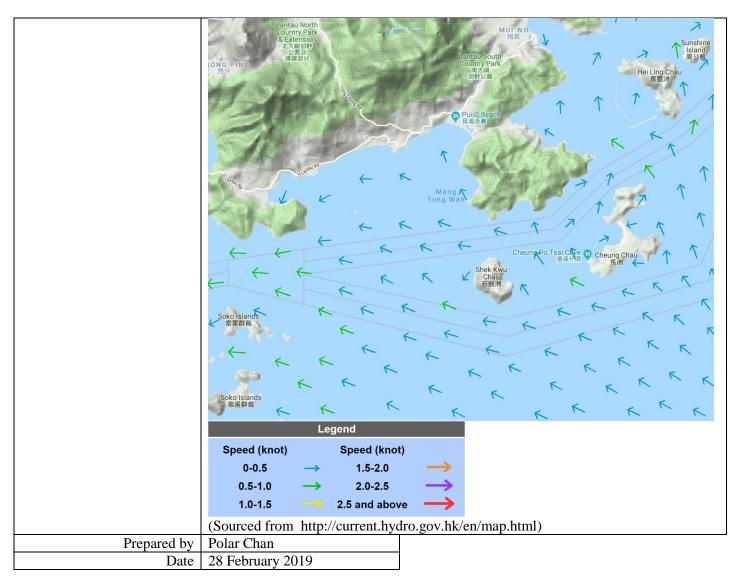
| Project             | Integrated Waste Management Facilities, Phase 1   |  |  |
|---------------------|---|--|--|
| Date                | 21 February 2019 (Lab result received on 26 February 2019)  |  |  |
| Time                | 08:00 - 09:50 (Mid-Flood)   |  |  |
|                     | Mid-Flood   |  |  |
| Monitoring Location | I1 : A (N22°11.343 E113° 59.976)<br>I3 : B (N22°11.429 E113° 58.967)<br>I4 : C (N22°11.465 E113° 58.996)<br>I7 : D (N22°11.419 E113° 58.835)<br>I10 : E (N22°11.496 E113° 59.019) |  |  |
|                     | ●<br>日日<br>日日<br>日日<br>日日<br>日日<br>日日<br>日日<br>日日<br>日日<br>日  |  |  |
|                     |   |  |  |
|                     | Note: Drawing is not to scale Tide Direction  |  |  |

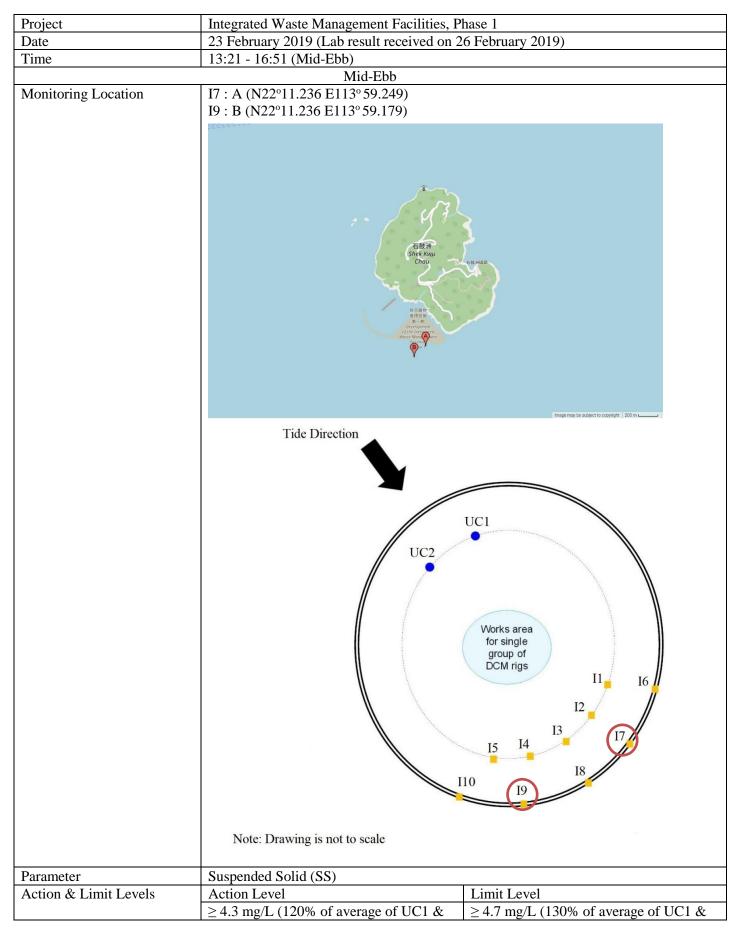
| Parameter   | Suspended Solid (SS)   |  |   |   |
|---|--|--|---|---|
| Action & Limit Levels                                       | Action Level   |  | Limit Level   |   |
|   | $\geq$ 5.4 mg/L (120% of average of UC1 &  |  | $\geq 5.9 \text{ mg/L} (130\% \text{ of average of UC1 } \&$  |   |
|   | UC2)   | UC2)   |   | -   |
| Measurement Level   | Impact Station(s) of   | Control Stati  | ons   | Impact Station(s) without   |
|   | Exceedance   |  |   | Exceedance  |
|   | 6.5 mg/L (I1)  | 2.5 mg/L (U  | C1)   | 2.0 mg/L (I2)   |
|   | 5.5 mg/L (I3)  | 6.5 mg/L (U  | C2)   | 3.7 mg/L (I5)   |
|   | 6.2 mg/L (I4)  |  |   | 3.2 mg/L (I6)   |
|   | 5.7 mg/L (I7)  |  |   | 5.2 mg/L (I8)   |
|   | 5.7 mg/L (I10)   |  |   | 4.0 mg/L (I9)   |
| Possible reason for Action or<br>Limit Level Non-compliance | <ul> <li>Works scheduled on site on 2<br/>laying of sand blanket at caiss<br/>blockwork seawall area, post<br/>Pre-construction Site Trial, D<br/>works.</li> <li>Dominating sea current direct<br/>waters around Shek Kwu Cha</li> <li>From MMO monitoring record<br/>barges (ESC-61 &amp; ESC-62) at<br/>19) on that day while no define<br/>construction activity.</li> <li>I1, I3, I4, I7 &amp; I10 are located<br/>silt curtain checking was imp<br/>(07:00), ESC-61 (14:30) and<br/>results showed that no deficited<br/>compared to the baseline data<br/>10mg/L), most of the monitor<br/>UC2) were relatively low, it for<br/>110 are deemed to be unrelated<br/>Examination of environmentative<br/>weekly inspection, and the Comitigation measures as per the</li> </ul> | son seawall ar<br>cone penetrat<br>CM sample co<br>tion was found<br>au.<br>rds on 21/02, I<br>and three derri-<br>ciency of silt co<br>d close to the<br>lemented on I<br>Kam Ying No<br>ency of silt cur<br>of dry season<br>ring stations (i<br>might suggest<br>ed to the Project<br>al performance<br>contractor is rep | ea, removal of s<br>ion test work, po<br>pring for DCM i<br>d to be from Sou<br>MMO teams we<br>ck barges (DL-5<br>curtain was foun<br>work location w<br>DL5 (08:00), FT<br>0.8 (16:30) by th<br>tain was found<br>in (Action Level:<br>ncluding upstre<br>that the SS exce<br>ct.<br>e of the Project we<br>mained to imple | surface rock at vertical<br>ost cone penetration test for<br>main works and DCM main<br>otheast to Northwest at<br>re arranged to two DCM<br>5, Kam Ying No.8 & FTB-<br>d before the start of<br>ithin the Project site while<br>B19 (15:00), ESC-62<br>e Contractor and checking<br>on that day. When<br>8mg/L & Limit Level:<br>am control station UC1 and<br>cedance at I1, I3, I4, I7 & |
|   |  | <u> </u>   |   |   |
| Remarks   | Current direction during mid-  | flood samplin  | g on 21/02:   |   |



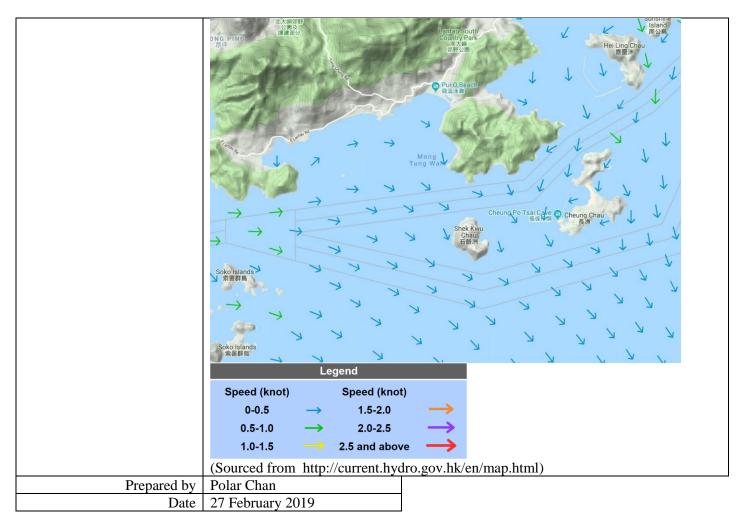
| Project               | Integrated Waste Management Facilities, Phase 1   |
|-----------------------|---|
| Date                  | 22 February 2019 (Lab result received on 27 February 2019)  |
| Time                  | 08:00 - 10:22 (Mid-Flood)   |
|                       | Mid-Flood   |
| Monitoring Location   | I1 : A (N22°11.348 E113°58.937)<br>I3 : B (N22°11.407 E113°59.000)<br>I4 : C (N22°11.407 E113°59.038) |
|                       | Integrange to subject to cognitation 200 m  |
|                       | IN<br>IN<br>IN<br>IN<br>IN<br>IN<br>IN<br>IN<br>IN<br>IN  |
|                       | Note: Drawing is not to scale Tide Direction  |
| Parameter             | Suspended Solid (SS)  |
| Action & Limit Levels | Action Level     Limit Level  |

|   | $\geq$ 2.6 mg/L (120% of average UC2)  | e of UC1 &  | $\geq$ 2.8 mg/L (12 UC2)  | 30% of average of UC1 &  |
|---|--|---|---|--|
| Measurement Level   | Impact Station(s) of   | Control Stat  | ,   | Impact Station(s) without  |
|   | Exceedance   |   |   | Exceedance   |
|   | 2.7 mg/L (I1)  | 2.3 mg/L (U   | C1)   | 2.0 mg/L (I2)  |
|   | 4.2 mg/L (I3)  | 2.0mg/L (U  |   | 2.3 mg/L (I5)  |
|   | 3.0 mg/L (I4)  | U X   | ,   | 2.5 mg/L (I6)  |
|   |  |   |   | 2.5 mg/L (I7)  |
|   |  |   |   | 2.5 mg/L (I8)  |
|   |  |   |   | 2.2 mg/L (I9)  |
|   |  |   |   | 2.0 mg/L (I10)   |
| Possible reason for Action or<br>Limit Level Non-compliance | <ul> <li>Works scheduled on site on 22/02 include laying of geotextile at caisson seawall are laying of sand blanket at caisson seawall area, post cone penetration test work, DCM sample coring for DCM main works and DCM main works.</li> <li>Dominating sea current direction was found to be from Southeast to Northwest at waters around Shek Kwu Chau.</li> <li>From MMO monitoring records on 22/02, MMO teams were arranged to two DCM barges (ESC-61 &amp; ESC-62) and two derrick barges (Kam Ying No,8 &amp; FTB-19) on</li> </ul>   |   |   | enetration test work, DCM<br>a.<br>htheast to Northwest at<br>re arranged to two DCM   |
| Actions taken / to be taken                                 | <ul> <li>that day while no deficiency of activity.</li> <li>I1, I3 &amp; I4 are located close to curtain checking was implem (08:30) and Kam Ying No.8 of that no deficiency of silt curtar baseline data of dry season (A the monitoring stations (inclure relatively low, it might sugged unrelated to the Project.</li> <li>Site tidiness in the present basin inspection on 26/02, where wight contribute to the increase Examination of environmentar weekly inspection, and the Comparison of the Comparison of the curtary of the</li></ul> | o the work loc<br>ented on FTB<br>(16:00) by the<br>ain was found<br>Action Level:<br>Iding upstrean<br>st that the SS<br>rges in the Pro-<br>vas no major on<br>use in SS level<br>al performance<br>ontractor is re | cation within the<br>19 (08:00), ESC<br>Contractor and<br>on that day. Wh<br>8mg/L & Limit<br>n control station<br>exceedance at I<br>bject site were cl<br>bservation of im<br>was observed d<br>e of the Project were | e Project site while silt<br>C-62 (07:00), ESC-61<br>checking results showed<br>hen compared to the<br>Level: 10mg/L), most of<br>UC1 and UC2) were<br>1, I3 & I4 are deemed to be<br>hecked during weekly site<br>hproper site practice that<br>uring the inspection. |
|   | mitigation measures as per th  | -   |   |  |
| Remarks   | Current direction during mid-  | -flood samplir  | ng on 22/02:  |  |



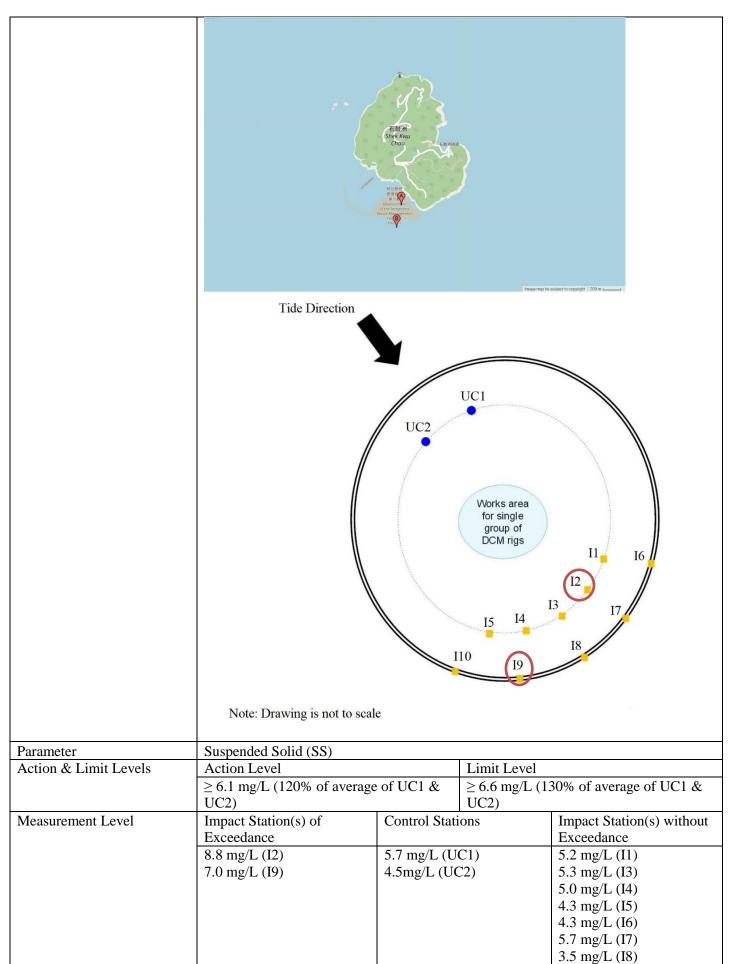


|                               | UC2)  | UC2)  |   |
|-------------------------------|---|---|---|
| Measurement Level             | Impact Station(s) of  | Control Stations  | Impact Station(s) without   |
|                               | Exceedance  |   | Exceedance  |
|                               | 4.7 mg/L (I7)   | 3.5 mg/L (UC1)  | 3.3 mg/L (I1)   |
|                               | 4.5 mg/L (I9)   | 3.7mg/L (UC2)   | 3.3 mg/L (I2)   |
|                               |   |   | 3.5 mg/L (I3)   |
|                               |   |   | 3.7 mg/L (I4)   |
|                               |   |   | 3.8 mg/L (I5)   |
|                               |   |   | 4.2 mg/L (I6)   |
|                               |   |   | 4.0 mg/L (I8)   |
| Possible reason for Action or | Works scheduled on site on 2  |   | 3.5 mg/L (I10)  |
| Limit Level Non-compliance    | area, post cone penetration te<br>seawall area, DCM sample co<br>Dominating sea current direct<br>waters around Shek Kwu Ch<br>From MMO monitoring reco<br>barges (ESC-61 & ESC-62) a<br>while no deficiency of silt cu<br>I7 & I9 are located close to th<br>checking was implemented o<br>ESC-61 (08:00) by the Contr<br>silt curtain was found on that<br>No.8 was carried out with ref<br>baseline data of dry season (a<br>the monitoring stations (inclu-<br>relatively low, it might sugge<br>unrelated to the Project.<br>Site tidiness in the present ba-<br>inspection on 26/02, where w<br>might contribute to the increat<br>Examination of environment | st work, removal of surface r<br>oring for DCM main works a<br>tion was found to be from Ne<br>au.<br>rds on 23/02, MMO teams w<br>and two derrick barges (DL-5<br>rtain was found before the sta<br>ne work location within the P<br>n DL5 (15:15), FTB19 (07:0<br>actor and checking results sh<br>day. No sand blanket laying<br>ferring to site diary on that da<br>Action Level: 8mg/L & Limit<br>iding upstream control station<br>est that the SS exceedance at<br>rges in the Project site were of<br>as no major observation of in<br>ase in SS level was observed | ock at vertical blockwork<br>nd DCM main works.<br>orthwest to Southeast at<br>ere arranged to two DCM<br>& FTB-19) on that day<br>art of construction activity.<br>roject site while silt curtain<br>0), ESC-62 (07:00) and<br>owed that no deficiency of<br>works scheduled Kam Ying<br>y. When compared to the<br>Level: 10mg/L), most of<br>n UC1 and UC2) were<br>I7 & I9 are deemed to be<br>checked during weekly site<br>mproper site practice that<br>during the inspection. |
| Actions taken / to be taken   |   |   | e   |
|                               | weekly inspection, and the C  | •   | ement all applicable  |
|                               | mitigation measures as per th   | -   |   |
| Remarks                       | Current direction during mid  | -ebb sampling on 23/02:   |   |

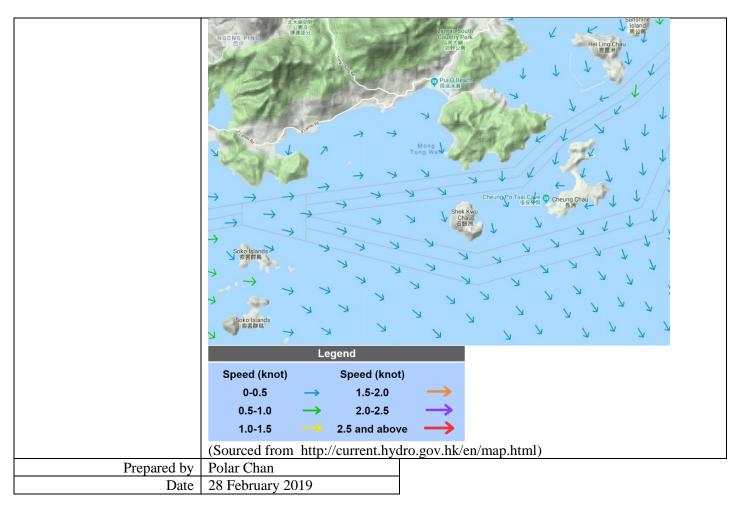


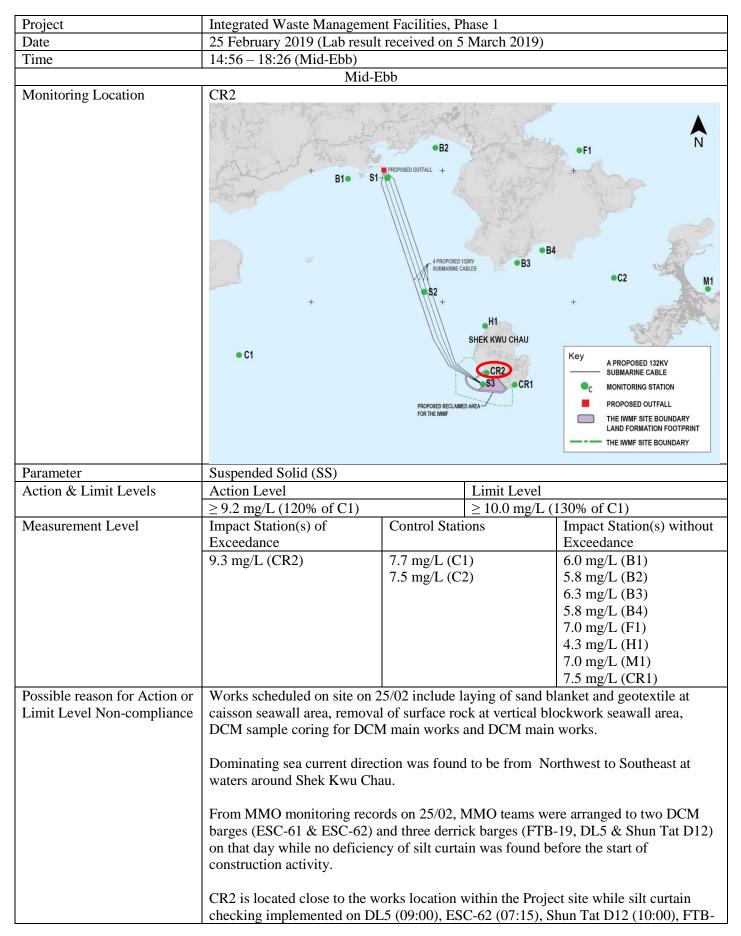
| Project               | Integrated Waste Management Facilities, Phase 1   |  |  |
|-----------------------|---|--|--|
| Date                  | 24 February 2019 (Lab result received on 27 February 2019)  |  |  |
| Time                  | 08:00 - 11:27 (Mid-Flood)   |  |  |
|                       | 14:03 - 17:33 (Mid-Ebb)   |  |  |
|                       | Mid-Flood   |  |  |
| Monitoring Location   | I4 : A (N22°11.437 E113° 59.043)  |  |  |
| C                     | I7 : B (N22°11.412 E113° 58.918)  |  |  |
|                       |   |  |  |
|                       | 10       10         10       10 |  |  |
| Parameter             | Suspended Solid (SS)  |  |  |
| Action & Limit Levels | Action Level     Limit Level  |  |  |

|   | $\geq$ 5.8 mg/L (120% of average UC2)   | e of UC1 &                      | $\geq$ 6.3 mg/L (1)<br>UC2) | 30% of average of UC1 &                 |
|---|---|---------------------------------|-----------------------------|---|
| Measurement Level   | Impact Station(s) of<br>Exceedance  | Control Stations                |                             | Impact Station(s) without<br>Exceedance |
|   | 6.3 mg/L (I4)<br>6.5 mg/L (I7)  | 4.8 mg/L (UC1)<br>4.8mg/L (UC2) |                             | 4.8 mg/L (I1)<br>4.2 mg/L (I2)          |
|   |   |                                 |                             | 7.2 mg/L (I3)<br>5.7 mg/L (I5)          |
|   |   |                                 |                             | 5.5 mg/L (I6)<br>5.3 mg/L (I8)          |
|   |   |                                 |                             | 4.7 mg/L (I9)<br>4.3 mg/L (I10)         |
| Possible reason for Action or<br>Limit Level Non-compliance | Works scheduled on site on 24/02 include laying of sand blanket at caisson seawall  |                                 |                             |   |
|   | Dominating sea current direction was found to be from Southeast to Northwest at waters around Shek Kwu Chau.  |                                 |                             |   |
|   | From MMO monitoring records on 24/02, MMO teams we barges (ESC-61 & ESC-62) and two derrick barges (DL-5 while no deficiency of silt curtain was found before the state   |                                 |                             | & FTB-19) on that day                   |
|   | I4 & I7 are located close to the work location within the Project site while silt curtain checking was implemented on DL5 (07:00), FTB19 (08:00), ESC-62 (08:00) and ESC-61 (08:15) by the Contractor and checking results showed that no deficiency of silt curtain was found on that day. When compared to the baseline data of dry season (Action Level: 8mg/L & Limit Level: 10mg/L), most of the monitoring stations (including upstream control station UC1 and UC2) were relatively low, it might suggest that the SS exceedance at I4 & I7 are deemed to be unrelated to the Project. |                                 |                             |   |
|   | Site tidiness in the present barges in the Project site were checked during weekly site inspection on 26/02, where was no major observation of improper site practice that might contribute to the increase in SS level was observed during the inspection.   |                                 |                             |   |
| Actions taken / to be taken                                 | Examination of environmenta   | -                               | •                           | -                                       |
|   | weekly inspection, and the C  |                                 | *                           | ment all applicable                     |
|   | mitigation measures as per th   | -                               | A&A Manual.                 |   |
| Monitoring Logation   | Mid-E<br>I2 : A (N22°11.339 E113° 59  |                                 |                             |   |
| Monitoring Location   | I2 : A (N22°11.339 E113°59)<br>I6 : B (N22°11.204 E113°59)  | ,                               |                             |   |

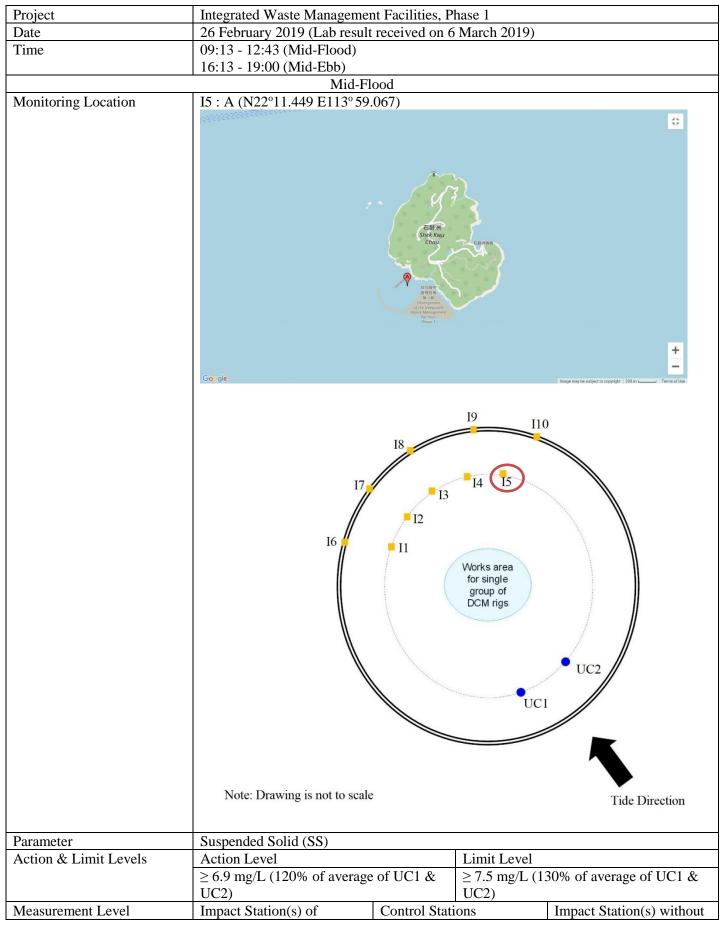


| eduled on site on 24/02 include laying of sand blanket at caisson seawall<br>val of surface rock at vertical blockwork seawall area, DCM sample coring<br>nain works and DCM main works.<br>g sea current direction was found to be from Northwest to Southeast at<br>and Shek Kwu Chau.<br>O monitoring records on 24/02, MMO teams were arranged to two DCM<br>C-61 & ESC-62) and two derrick barges (DL-5 & FTB-19) on that day<br>eficiency of silt curtain was found before the start of construction activity.<br>e located close to the work location within the Project site while silt curtain<br>was implemented on DL5 (07:00), FTB19 (08:00), ESC-62 (08:00) and<br>8:15) by the Contractor and checking results showed that no deficiency of<br>was found on that day. It might suggest that the SS exceedance at I2 & I9<br>d to be unrelated to the Project. |
|---|
| O monitoring records on 24/02, MMO teams were arranged to two DCM<br>C-61 & ESC-62) and two derrick barges (DL-5 & FTB-19) on that day<br>eficiency of silt curtain was found before the start of construction activity.<br>e located close to the work location within the Project site while silt curtain<br>was implemented on DL5 (07:00), FTB19 (08:00), ESC-62 (08:00) and<br>8:15) by the Contractor and checking results showed that no deficiency of<br>was found on that day. It might suggest that the SS exceedance at I2 & I9  |
| C-61 & ESC-62) and two derrick barges (DL-5 & FTB-19) on that day eficiency of silt curtain was found before the start of construction activity. e located close to the work location within the Project site while silt curtain was implemented on DL5 (07:00), FTB19 (08:00), ESC-62 (08:00) and 8:15) by the Contractor and checking results showed that no deficiency of was found on that day. It might suggest that the SS exceedance at I2 & I9  |
| vas implemented on DL5 (07:00), FTB19 (08:00), ESC-62 (08:00) and 8:15) by the Contractor and checking results showed that no deficiency of was found on that day. It might suggest that the SS exceedance at I2 & I9   |
|   |
| ss in the present barges in the Project site were checked during weekly site<br>on 26/02, where was no major observation of improper site practice that<br>ribute to the increase in SS level was observed during the inspection.   |
| on of environmental performance of the Project will be continued during the pection, and the Contractor is remained to implement all applicable measures as per the Updated EM&A Manual.  |
| rection during mid-flood sampling on 24/02:   |
|   |

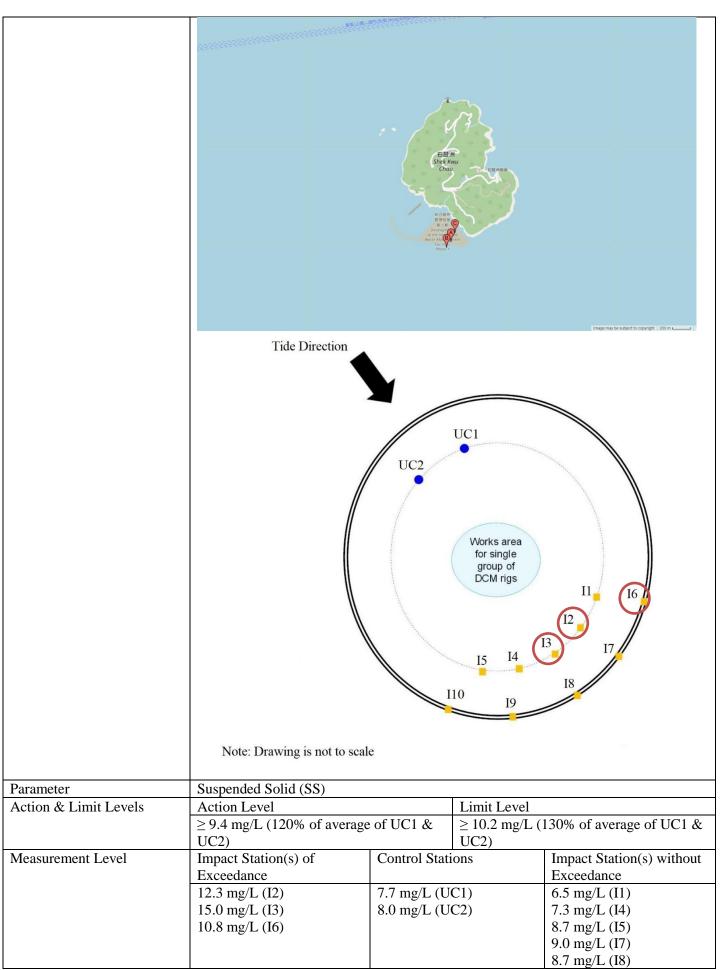




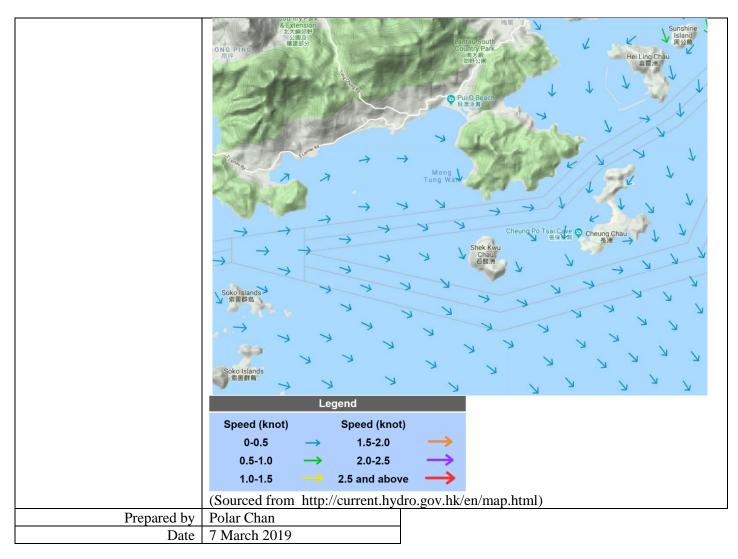
| Actions taken / to be taken | <ul> <li>19 (07:00) &amp; ESC-61 (08:30) by the Contractor and checking results showed that no deficiency of silt curtain was found on that day. No sand blanket laying work scheduled in Cheung Kee No.7 was carried out with referring to the site diary on that day. It might suggest that the SS exceedance at CR2 is deemed to be unrelated to the Project.</li> <li>Site tidiness in the present barges in the Project site were checked during weekly site inspection on 26/02, where was no major observation of improper site practice that might contribute to the increase in SS level was observed during the inspection.</li> <li>Examination of environmental performance of the Project will be continued during the</li> </ul> |  |  |
|-----------------------------|--|--|--|
|                             | weekly inspection, and the Contractor is remained to implement all applicable mitigation measures as per the Updated EM&A Manual.  |  |  |
| Remarks                     | Current direction during mid-ebb sampling on 25/02:  |  |  |
|                             | 1.0-1.5 $\longrightarrow$ 2.5 and above $\longrightarrow$<br>(Sourced from http://current.hydro.gov.hk/en/map.html)  |  |  |
| Prepared by                 | Polar Chan   |  |  |
| Date                        | 6 March 2019   |  |  |

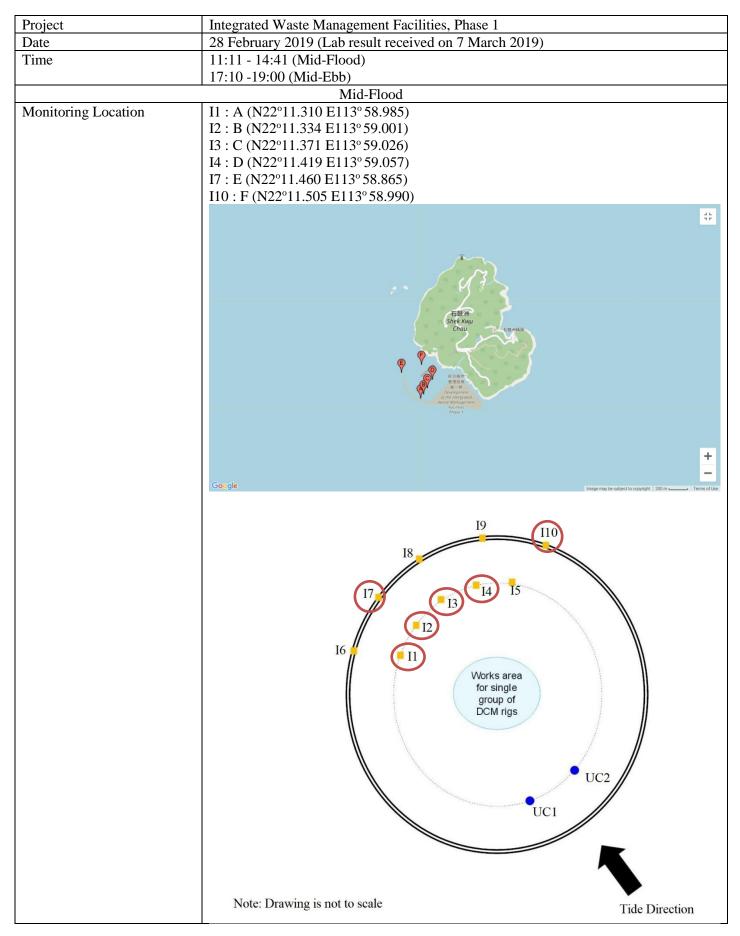


|   | Exceedance   |   | Exceedance  |
|---|--|---|---|
|   | 7.3 mg/L (I5)  | 4.8 mg/L (UC1)  | 5.8 mg/L (I1)   |
|   | 6 (1)  | 6.7mg/L (UC2)   | 5.3 mg/L (I2)   |
|   |  |   | 3.0 mg/L (I3)   |
|   |  |   | 6.3 mg/L (I4)   |
|   |  |   | 5.7 mg/L (I6)   |
|   |  |   | 4.7 mg/L (I7)   |
|   |  |   | 4.7 mg/L (I8)   |
|   |  |   | 3.2 mg/L (I9)   |
|   |  |   | 6.0 mg/L (I10)  |
| Possible reason for Action or<br>Limit Level Non-compliance | <ul> <li>e laying of sand blanket at caisson seawall area, removal of surface rock at vertical blockwork seawall area, post cone penetration test works, DCM sample coring for DCM main works and DCM main works.</li> <li>Dominating sea current direction was found to be from Southeast to Northwest at waters around Shek Kwu Chau.</li> </ul> |   | surface rock at vertical<br>DCM sample coring for<br>utheast to Northwest at  |
|   | From MMO monitoring records on 26/02, MMO teams were arranged to two DCM barges (ESC-61 & ESC-62) and three derrick barges (DL-5, Shun Tat D12 & FTB-19) on that day while no deficiency of silt curtain was found before the start of construction activity.  |   |   |
|   | checking was implemented o<br>(07:00) and Shun Tat D12 (1<br>no deficiency of silt curtain v<br>data of dry season (Action Le<br>monitoring stations (includin   | k location within the Project s<br>n DL5 (09:00), FTB19 (20:30<br>5:00) by the Contractor and cl<br>vas found on that day. When d<br>evel: 8mg/L & Limit Level: 10<br>g upstream control station UC<br>SS exceedance at I5 is deeme | 0), ESC-62 (10:00), ESC-61<br>hecking results showed that<br>compared to the baseline<br>0mg/L), most of the<br>C1 and UC2) were relatively |
|   | inspection on 26/02, where w<br>might contribute to the increa   | rges in the Project site were c<br>vas no major observation of in<br>ase in SS level was observed o   | nproper site practice that<br>luring the inspection.  |
| Actions taken / to be taken                                 |  | al performance of the Project   | e   |
|   | weekly inspection, and the C   | ontractor is remained to imple  | ement all applicable  |
|   | mitigation measures as per th  | e Updated EM&A Manual.  |   |
|   | Mid-E  | -   |   |
| Monitoring Location   | I2 : A (N22°11.276 E113° 59  |   |   |
|   | I3 : B (N22°11.242 E113° 59  |   |   |
|   | I6 : C (N22°11.331 E113° 59.   |   |   |

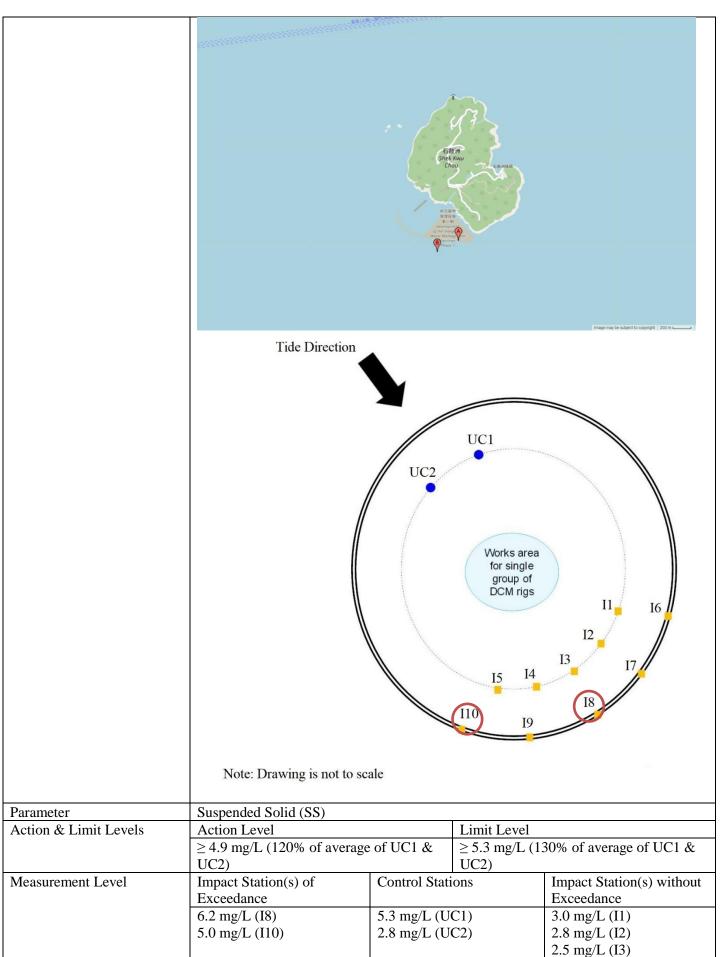


|   | 6.3 mg/L (I9)<br>9.0 mg/L (I10)   |  |  |
|---|---|--|--|
| Possible reason for Action or<br>Limit Level Non-compliance | Works scheduled on site on 26/02 include laying of geotextile at caisson seawall area, laying of sand blanket at caisson seawall area, removal of surface rock at vertical blockwork seawall area, post cone penetration test works, DCM sample coring for DCM main works and DCM main works.                         |  |  |
|   | Dominating sea current direction was found to be from Northwest to Southeast at waters around Shek Kwu Chau.  |  |  |
|   | From MMO monitoring records on 26/02, MMO teams were arranged to two DCM barges (ESC-61 & ESC-62) and three derrick barges (DL-5, Shun Tat D12 & FTB-19) on that day while no deficiency of silt curtain was found before the start of construction activity.   |  |  |
|   | I2, I3 & I6 are located close to the work location within the Project site while silt curtain checking was implemented on DL5 (09:00), FTB19 (20:30), ESC-62 (10:00), ESC-61 (07:00) and Shun Tat D12 (15:00) by the Contractor and checking results showed that no deficiency of silt curtain was found on that day. |  |  |
|   | Site tidiness in the present barges in the Project site were checked during weekly site inspection on 26/02, where was no major observation of improper site practice that might contribute to the increase in SS level was observed during the inspection.   |  |  |
| Actions taken / to be taken                                 | Examination of environmental performance of the Project will be continued during the  |  |  |
|   | weekly inspection, and the Contractor is remained to implement all applicable   |  |  |
|   | mitigation measures as per the Updated EM&A Manual.   |  |  |
| Remarks   | Current direction during mid-flood sampling on 26/02:   |  |  |
|   | Soko Islands<br>REFERENCE Current direction during mid-ebb sampling on 26/02:   |  |  |





| Parameter   | Suspended Solid (SS)  |                            |  |  |
|---|---|----------------------------|--|--|
| Action & Limit Levels                                       | Action Level  |                            | Limit Level                                    |  |
|   | $\geq$ 4.2 mg/L (120% of average of UC1 & UC2)  |                            | $\geq$ 4.6 mg/L (130% of average of UC1 & UC2) |  |
| Measurement Level   | Impact Station(s) of<br>Exceedance  | Control Stations           |  | Impact Station(s) without<br>Exceedance                          |
|   | 5.8 mg/L (I1)<br>4.7 mg/L (I2)<br>4.2 mg/L (I3)<br>5.5 mg/L (I4)<br>4.7 mg/L (I7)<br>4.7 mg/L (I10)   | 2.7 mg/L (U<br>4.3 mg/L (U | ,  | 3.2 mg/L (I5)<br>2.7 mg/L (I6)<br>3.0 mg/L (I8)<br>3.2 mg/L (I9) |
| Possible reason for Action or<br>Limit Level Non-compliance | 5 6 6   |                            |  | enetration test works, DCM                                       |
|   | Dominating sea current direction was found to be from Southeast to Northwest at waters around Shek Kwu Chau.  |                            |  |  |
|   | From MMO monitoring records on 28/02, MMO teams were arranged to two DCM barges (ESC-61 & ESC-62) and two derrick barges (Shun Tat D12 & FTB-19) on that day while no deficiency of silt curtain was found before the start of construction activity.   |                            |  |  |
|   | I1, I2, I3, I4, I7 & I10 are located close to the work location within the Project site while silt curtain checking was implemented on FTB19 (07:00), ESC-62 (7:00), ESC-61 (07:00) and Shun Tat D12 (08:30) by the Contractor and checking results showed that no deficiency of silt curtain was found on that day. When compared to the baseline data of dry season (Action Level: 8mg/L & Limit Level: 10mg/L), most of the monitoring stations (including upstream control station UC1 and UC2) were relatively low, it might suggest that the SS exceedance at I1, I2, I3, I4, I7 & I10 are deemed to be unrelated to the Project. |                            |  |  |
|   | Site tidiness in the present barges in the Project site were checked during weekly site inspection on 26/02, where was no major observation of improper site practice that might contribute to the increase in SS level was observed during the inspection.   |                            |  |  |
| Actions taken / to be taken                                 | Examination of environmental performance of the Project will be continued during the weekly inspection, and the Contractor is remained to implement all applicable mitigation measures as per the Updated EM&A Manual.  |                            |  |  |
|   | Mid-E   | <u> </u>                   | 1007 F 1010010001.                             |  |
| Monitoring Location   | I8 : A (N22°11.261 E113° 59.272)<br>I10 : B (N22°11.195 E113° 59.137)   |                            |  |  |



|                               | · · · ·   |  |  |
|-------------------------------|---|--|--|
|                               | 3.3 mg/L (I4)   |  |  |
|                               | 4.8 mg/L (I5)   |  |  |
|                               | 3.8 mg/L (I6)   |  |  |
|                               | 3.5 mg/L (I7)   |  |  |
|                               | 3.8 mg/L (I9)   |  |  |
| Possible reason for Action or | Works scheduled on site on 28/02 include laying of geotextile at caisson seawall area,  |  |  |
| Limit Level Non-compliance    |   |  |  |
|                               | sample coring for DCM main works and DCM main works.  |  |  |
|                               |   |  |  |
|                               | Dominating sea current direction was found to be from Southeast to Northwest at waters around Shek Kwu Chau.  |  |  |
|                               | From MMO monitoring records on 28/02, MMO teams were arranged to two DCM barges (ESC-61 & ESC-62) and two derrick barges (Shun Tat D12 & FTB-19) on that day while no deficiency of silt curtain was found before the start of construction activity.   |  |  |
|                               | I8 & I10 are located close to the work location within the Project site while silt curtain checking was implemented on FTB19 (07:00), ESC-62 (7:00), ESC-61 (07:00) and Shun Tat D12 (08:30) by the Contractor and checking results showed that no deficiency of silt curtain was found on that day. When compared to the baseline data of dry season (Action Level: 8mg/L & Limit Level: 10mg/L), most of the monitoring stations (including upstream control station UC1 and UC2) were relatively low, it might suggest that the SS exceedance at I8 & I10 are deemed to be unrelated to the Project. |  |  |
|                               | Site tidiness in the present barges in the Project site were checked during weekly site inspection on 26/02, where was no major observation of improper site practice that might contribute to the increase in SS level was observed during the inspection.   |  |  |
| Actions taken / to be taken   | Examination of environmental performance of the Project will be continued during the  |  |  |
| retions taken / to be taken   |   |  |  |
|                               | weekly inspection, and the Contractor is remained to implement all applicable   |  |  |
|                               | mitigation measures as per the Updated EM&A Manual.   |  |  |
| Remarks                       | Current direction during mid-flood sampling on 28/02:   |  |  |
|                               | Current direction during mid-ebb sampling on 28/02:   |  |  |
|                               | L'urrent direction during mid abb compling on $\frac{\partial y}{\partial 2}$   |  |  |

