

Appendix N Exceedance Report

Statistical Summary of Exceedances in the Reporting Period

| Water Quality (Regular Monitoring) | | | |
|------------------------------------|----------------|-------------|-------|
| Location | Action Level | Limit Level | Total |
| B1 | 0 | 1 | 1 |
| B2 | 2 | 0 | 2 |
| B3 | 0 | 0 | 0 |
| B4 | 0 | 0 | 0 |
| CR1 | 0 | 0 | 0 |
| CR2 | 0 | 0 | 0 |
| F1A | 1 | 0 | 1 |
| H1 | 0 | 0 | 0 |
| S1 | Not applicable | | |
| S2A | Not applicable | | |
| S3 | Not applicable | | |
| M1 | 0 | 0 | 0 |

| Noise (Day Time) | | | |
|----------------------|--------------|-------------|-------|
| Location | Action Level | Limit Level | Total |
| M1 | 0 | 0 | 0 |
| M2 | 0 | 0 | 0 |
| M3 | 0 | 0 | 0 |
| Noise (Evening Time) | | | |
| Location | Action Level | Limit Level | Total |
| M1 | 0 | 0 | 0 |
| M2 | 0 | 0 | 0 |
| M3 | 0 | 0 | 0 |
| Noise (Night Time) | | | |
| Location | Action Level | Limit Level | Total |
| M1 | 0 | 0 | 0 |
| M2 | 0 | 0 | 0 |
| M3 | 0 | 0 | 0 |

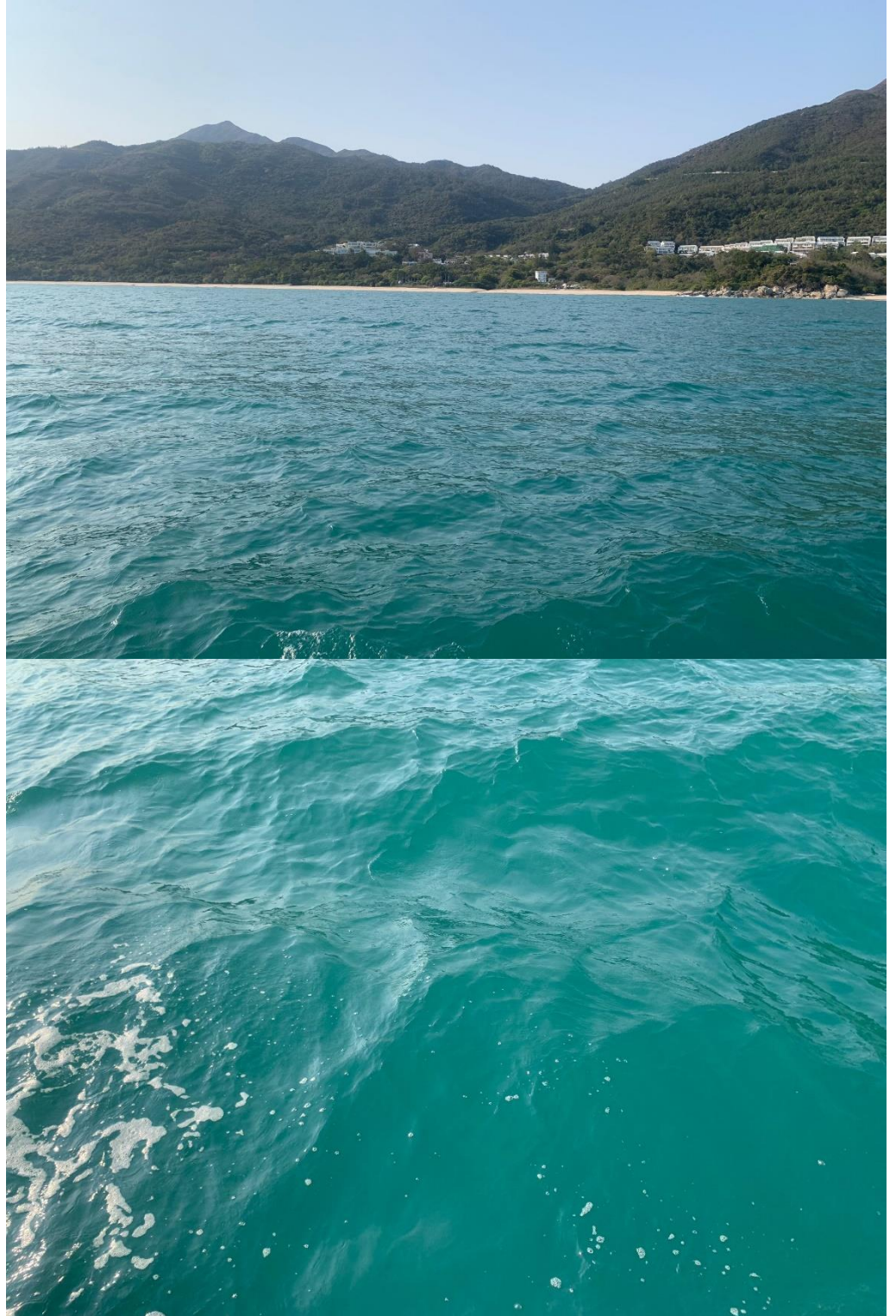
Incident Report on Action Level or Limit Level Non-compliance

| | | | |
|--|---|----------------------------------|---|
| Project | Integrated Waste Management Facilities, Phase 1 | | |
| Date | 06 Mar 2023 (Lab result received on 10 March 2023) | | |
| Time | 15:54 – 19:00 (Mid-Flood) | | |
| Mid-Flood | | | |
| Monitoring Location | <p>B1</p> | | |
| Parameter | Suspended Solid (SS) | | |
| Action & Limit Levels | Action Level | | Limit Level |
| | ≥ 8.0 mg/L | | ≥ 10.0 mg/L |
| Measurement Level | Impact Station(s) of Exceedance | Control Stations | Impact Station(s) without Exceedance |
| | 15.3 mg/L (B1) | 3.7 mg/L (C1A) 2.8 mg/L (C2A) | 5.0 mg/L (B2) 2.9 mg/L (B3) 4.0 mg/L (B4) 3.0 mg/L (H1) 3.2 mg/L (F1A) 4.1 mg/L (CR1) 3.9 mg/L (CR2) 3.6 mg/L (M1) |
| Possible reason for Action or Limit Level Non-compliance | <p>Works scheduled on site on 06 Mar 2023 include piling works, piling works for driven pile, piling works for pre-bored socketed H-pile, pile cap construction, blockwork seawall and existing caisson extension, and Process Building construction works.</p> <p>Dominant sea current direction was found to be from Southeast to Northwest at waters around Shek Kwu Chau.</p> <p>An exceedance of limit level was found at B1. B1 is located at unrelated stream direction (neither upstream nor downstream, far away) to the works location. An exceedance at B1 is deemed to be unrelated to the Project.</p> <p>The installation of caisson No.19 was completed on 18 Mar 2021, the reclamation area was enclosed.</p> | | |

| | |
|--|---|
| | <p>According to the field observation by sampling team during sampling event, no silt plume was observed in the Project site and the weather was fine during the sampling event.</p> <p>No major observation of improper site practices that contributed to the increase of the suspended solids was recorded during the weekly site inspection on 07 March 2023.</p> <p>After the investigation, the exceedance on 06 March 2023 during flood tide at B1 is deemed to be unrelated to the Project.</p> |
|--|---|

Monitoring photos of
stations with exceedance

B1:

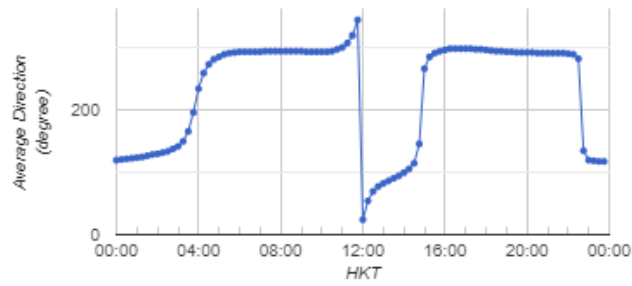
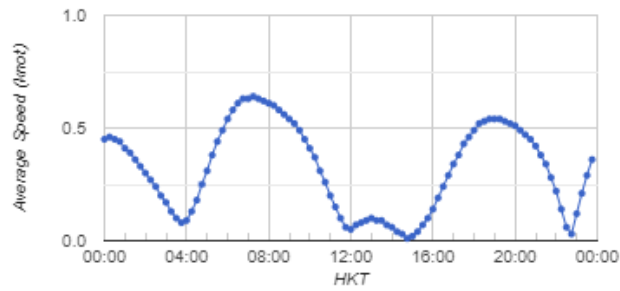


Remarks

Current direction during mid-flood sampling on 06 Mar 2023:

| | | | |
|------------------|------------------------------|--------------------|---------------|
| HKT | 2023-03-06 16:00 | | UPDATE |
| Date & Time | 2023-03-06 16:00 | | |
| Prediction Mode | Average | Change Mode | |
| Position (WGS84) | 22 - 11.28 N / 113 - 58.49 E | | |
| Speed: | 0.14 knot(s) | | |
| Direction: | 295 °(TN) | | |

24-hour Tidal Stream's Speed & Direction
 2023-03-06



| | Legend | | | | | | | | |
|---|--|--------------|--------------|---------------|-----------------|-----------------|-----------------|-----------------|-----------------------|
| | <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left; padding: 5px;">Speed (knot)</th> <th style="text-align: left; padding: 5px;">Speed (knot)</th> </tr> </thead> <tbody> <tr> <td style="padding: 5px;">0-0.5 →</td> <td style="padding: 5px;">1.5-2.0 →</td> </tr> <tr> <td style="padding: 5px;">0.5-1.0 →</td> <td style="padding: 5px;">2.0-2.5 →</td> </tr> <tr> <td style="padding: 5px;">1.0-1.5 →</td> <td style="padding: 5px;">2.5 and above →</td> </tr> </tbody> </table> | Speed (knot) | Speed (knot) | 0-0.5 → | 1.5-2.0 → | 0.5-1.0 → | 2.0-2.5 → | 1.0-1.5 → | 2.5 and above → |
| Speed (knot) | Speed (knot) | | | | | | | | |
| 0-0.5 → | 1.5-2.0 → | | | | | | | | |
| 0.5-1.0 → | 2.0-2.5 → | | | | | | | | |
| 1.0-1.5 → | 2.5 and above → | | | | | | | | |
| (Sourced from http://current.hydro.gov.hk/en/map.html) | | | | | | | | | |
| Prepared by | Jack Chow | | | | | | | | |
| Date | 14 Mar 2023 | | | | | | | | |

Incident Report on Action Level or Limit Level Non-compliance

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|--|--|----------------------------------|---|
| Project | Integrated Waste Management Facilities, Phase 1 | | |
| Date | 08 Mar 2023 (Lab result received on 13 March 2023) | | |
| Time | 08:00 – 10:02 (Mid-Flood) | | |
| Mid-Flood | | | |
| Monitoring Location | <p>B2</p> | | |
| Parameter | Suspended Solid (SS) | | |
| Action & Limit Levels | Action Level | | Limit Level |
| | ≥ 8.0 mg/L | | ≥ 10.0 mg/L |
| Measurement Level | Impact Station(s) of Exceedance | Control Stations | Impact Station(s) without Exceedance |
| | 8.0 mg/L (B2) | 3.8 mg/L (C1A) 2.9 mg/L (C2A) | 5.6 mg/L (B1) 4.9 mg/L (B3) 2.8 mg/L (B4) 2.7 mg/L (F1A) 2.5 mg/L (H1) 2.8 mg/L (M1) 2.5 mg/L (CR1) 2.5 mg/L (CR2) |
| Possible reason for Action or Limit Level Non-compliance | <p>Works scheduled on site on 08 Mar 2023 include piling works, piling works for driven pile, piling works for pre-bored socketed H-pile, pile cap construction, blockwork seawall and existing caisson extension, and Process Building construction works.</p> <p>Dominant sea current direction was found to be from Southeast to Northwest at waters around Shek Kwu Chau.</p> <p>An exceedance of action level was found at B2. B2 is located at unrelated stream direction (neither upstream nor downstream, far away) to the works location. An exceedance at B2 is deemed to be unrelated to the Project.</p> <p>The installation of caisson No.19 was completed on 18 Mar 2021, the reclamation area was enclosed.</p> | | |

| | |
|--|---|
| | <p>According to the field observation by sampling team during sampling event, no silt plume was observed in the Project site and the weather was fine during the sampling event.</p> <p>No major observation of improper site practices that contributed to the increase of the suspended solids was recorded during the weekly site inspection on 14 March 2023.</p> <p>After the investigation, the exceedance on 08 March 2023 during flood tide at B2 is deemed to be unrelated to the Project.</p> |
|--|---|

Monitoring photos of
stations with exceedance

B2:

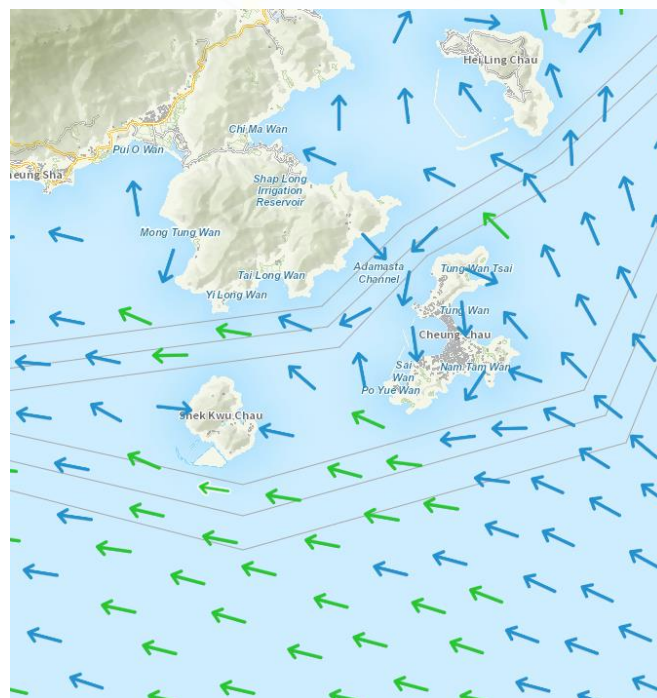
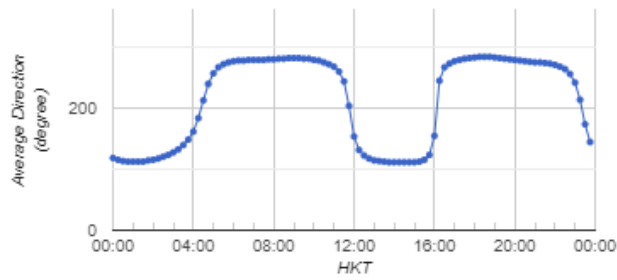
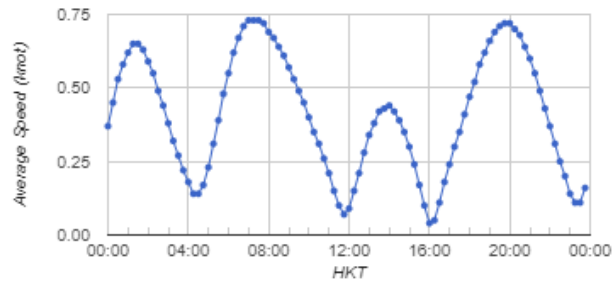


Remarks

Current direction during mid-flood sampling on 08 Mar 2023:

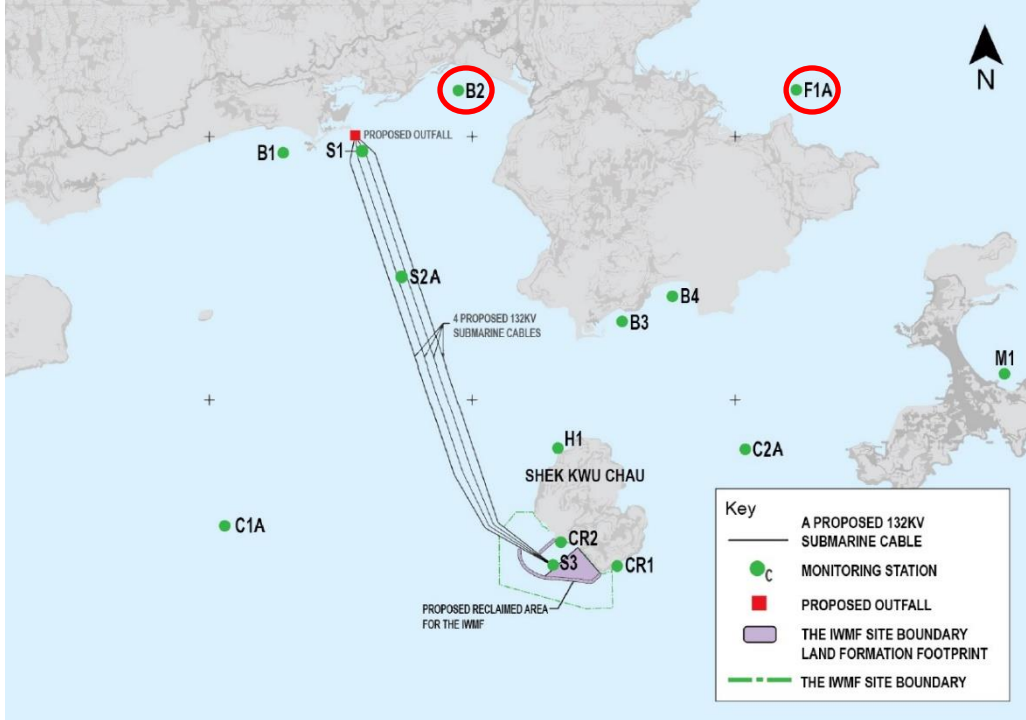
| | | | |
|------------------|-------------------------------|--------------------|---------------|
| HKT | 2023-03-08 08:00 | | UPDATE |
| Date & Time | 2023-03-08 08:00 | | |
| Prediction Mode | Average | Change Mode | |
| Position (WGS84) | 22 - 11.017 N / 113 - 59.24 E | | |
| Speed: | 0.69 knot(s) | | |
| Direction: | 279 °(TN) | | |

24-hour Tidal Stream's Speed & Direction
 2023-03-08



| | Legend | | | | | | | | |
|-----------------|--|--------------|--------------|---------------|-----------------|-----------------|-----------------|-----------------|-----------------------|
| | <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left; padding: 5px;">Speed (knot)</th> <th style="text-align: left; padding: 5px;">Speed (knot)</th> </tr> </thead> <tbody> <tr> <td style="padding: 5px;">0-0.5 →</td> <td style="padding: 5px;">1.5-2.0 →</td> </tr> <tr> <td style="padding: 5px;">0.5-1.0 →</td> <td style="padding: 5px;">2.0-2.5 →</td> </tr> <tr> <td style="padding: 5px;">1.0-1.5 →</td> <td style="padding: 5px;">2.5 and above →</td> </tr> </tbody> </table> | Speed (knot) | Speed (knot) | 0-0.5 → | 1.5-2.0 → | 0.5-1.0 → | 2.0-2.5 → | 1.0-1.5 → | 2.5 and above → |
| Speed (knot) | Speed (knot) | | | | | | | | |
| 0-0.5 → | 1.5-2.0 → | | | | | | | | |
| 0.5-1.0 → | 2.0-2.5 → | | | | | | | | |
| 1.0-1.5 → | 2.5 and above → | | | | | | | | |
| | (Sourced from http://current.hydro.gov.hk/en/map.html) | | | | | | | | |
| Prepared by | Jack Chow | | | | | | | | |
| Date | 22 Mar 2023 | | | | | | | | |

Incident Report on Action Level or Limit Level Non-compliance

| | | | |
|--|---|----------------------------------|---|
| Project | Integrated Waste Management Facilities, Phase 1 | | |
| Date | 20 Mar 2023 (Lab result received on 27 March 2023) | | |
| Time | 10:09 – 13:39 (Mid-Ebb) | | |
| Mid-Ebb | | | |
| Monitoring Location | B2, F1A  | | |
| Parameter | Suspended Solid (SS) | | |
| Action & Limit Levels | Action Level | | Limit Level |
| | ≥ 8.0 mg/L | | ≥ 10.0 mg/L |
| Measurement Level | Impact Station(s) of Exceedance | Control Stations | Impact Station(s) without Exceedance |
| | 8.3 mg/L (B2) 8.5 mg/L (F1A) | 3.1 mg/L (C1A) 3.3 mg/L (C2A) | 4.9 mg/L (B1) 4.3 mg/L (B3) 4.0 mg/L (B4) 4.8 mg/L (H1) 3.3 mg/L (M1) 7.5 mg/L (CR1) 4.8 mg/L (CR2) |
| Possible reason for Action or Limit Level Non-compliance | <p>Works scheduled on site on 20 Mar 2023 include piling works, piling works for driven pile, piling works for pre-bored socketed H-pile, pile cap construction, blockwork seawall and existing caisson extension, and Process Building construction works.</p> <p>Dominant sea current direction was found to be from Northwest to Southeast at waters around Shek Kwu Chau.</p> <p>Exceedances of action level were found at B2 and F1A. B2 and F1A are located at unrelated stream direction (neither upstream nor downstream, far away) to the works location. Exceedances at B2 and F1A are deemed to be unrelated to the Project.</p> <p>The installation of caisson No.19 was completed on 18 Mar 2021, the reclamation area was enclosed.</p> | | |

| | |
|--|---|
| | <p>According to the field observation by sampling team during sampling event, no silt plume was observed in the Project site and the weather was overcast during the sampling event.</p> <p>No major observation of improper site practices that contributed to the increase of the suspended solids was recorded during the weekly site inspection on 21 March 2023.</p> <p>After the investigation, the exceedances on 20 March 2023 during ebb tide at B2 and F1A are deemed to be unrelated to the Project.</p> |
|--|---|

Monitoring photos of
stations with exceedance

B2:

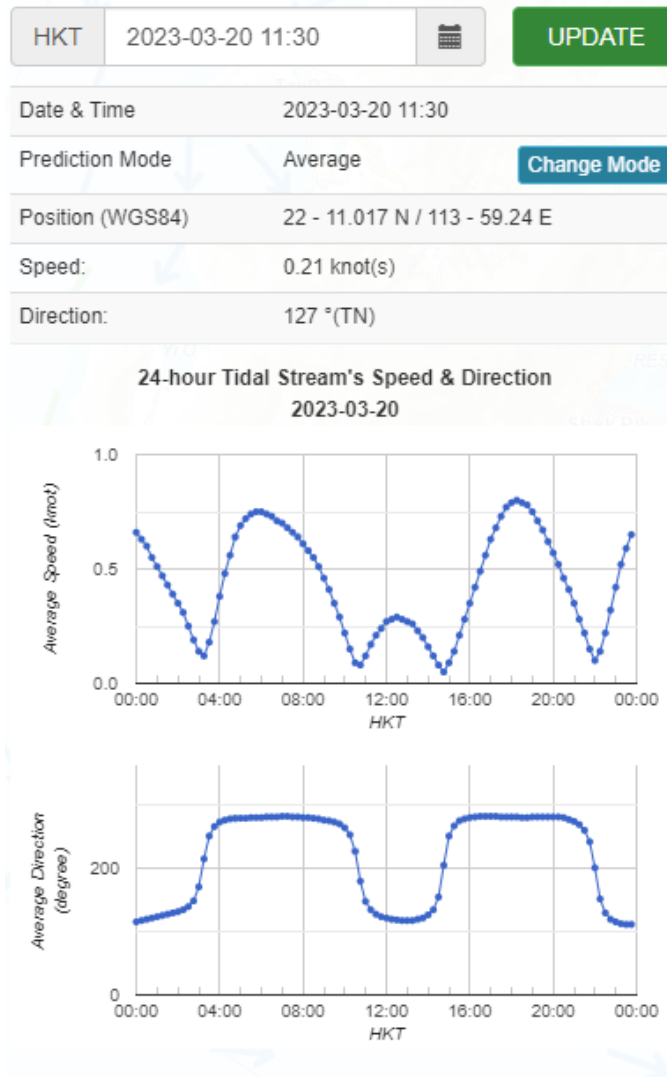


F1A:



Remarks

Current direction during mid-ebb sampling on 20 Mar 2023:



| | Legend | | | | | | | | |
|---|---|--|--------------|--------------|---------------|-----------------|---------------|-----------------|---------------|
| | <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left; padding: 5px;">Speed (knot)</th> <th style="text-align: left; padding: 5px;">Speed (knot)</th> </tr> </thead> <tbody> <tr> <td style="padding: 5px;">0-0.5 →</td> <td style="padding: 5px;">1.5-2.0 →</td> </tr> <tr> <td style="padding: 5px;">0.5-1.0 →</td> <td style="padding: 5px;">2.0-2.5 →</td> </tr> <tr> <td style="padding: 5px;">1.0-1.5 →</td> <td style="padding: 5px;">2.5 and above →</td> </tr> </tbody> </table> | | Speed (knot) | Speed (knot) | 0-0.5 → | 1.5-2.0 → | 0.5-1.0 → | 2.0-2.5 → | 1.0-1.5 → |
| Speed (knot) | Speed (knot) | | | | | | | | |
| 0-0.5 → | 1.5-2.0 → | | | | | | | | |
| 0.5-1.0 → | 2.0-2.5 → | | | | | | | | |
| 1.0-1.5 → | 2.5 and above → | | | | | | | | |
| (Sourced from http://current.hydro.gov.hk/en/map.html) | | | | | | | | | |
| Prepared by | Jack Chow | | | | | | | | |
| Date | 30 Mar 2023 | | | | | | | | |