

Appendix N Exceedance Report


Statistical Summary of Exceedances in the Reporting Period

Water Quality (Regular Monitoring)			
Location	Action Level	Limit Level	Total
B1	2	4	6
B2	0	3	3
B3	2	1	3
B4	2	3	5
CR1	1	3	4
CR2	1	2	3
F1A	1	0	1
H1	2	2	4
S1	0	0	0
S2A	0	0	0
S3	0	0	0
M1	0	5	5

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	1 Nov 2021 (Lab result received on 5 Nov 2021)		
Time	08:00 – 11:08 (Mid-Ebb)		
Monitoring Location	Mid-Ebb B1, B2, M1		
	<p>The map shows the Shek Kwu Chau area with various monitoring stations and proposed infrastructure. Stations B1, B2, and M1 are circled in red. A key identifies symbols for proposed 132KV submarine cables, monitoring stations (green circle with 'c'), proposed outfalls (red square), IWMF site boundary (purple outline), IWMF site boundary land formation footprint (dashed green line), and the IWMF site boundary (solid green line).</p>		
Parameter	Suspended Solid (SS)		
Action & Limit Levels	Action Level		Limit Level
	≥ 8.6 mg/L (120% of C1A)		≥ 10.0 mg/L
Measurement Level	Impact Station(s) of Exceedance	Control Stations	Impact Station(s) without Exceedance
	10.3 mg/L (B1) 10.0 mg/L (B2) 10.8 mg/L (M1)	7.2 mg/L (C1A) 6.7 mg/L (C2A)	10.3 mg/L (B1) 10.0 mg/L (B2) 10.8 mg/L (M1)
Possible reason for Action or Limit Level Non-compliance	<p>Works scheduled on site on 1 Nov 2021 include laying of scour apron, landfilling works for below +6.00mPD, landfilling works for above +6.00mPD, installation of instrumentation, piling pre-drilling works, piling works, piling works for driven pile, piling works for pre-bored socketed H-pile and existing caisson extension.</p> <p>Dominating sea current direction was found to be from Northwest to Southeast at waters around Shek Kwu Chau.</p> <p>Exceedances of limit level were found at B1, B2 and M1.</p> <p>B1, B2 and M1 are located at unrelated stream direction (neither upstream nor downstream, far away) to the works location, exceedances of these monitoring stations 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 fine during the sampling event.</p> <p>No major observation of improper site practices that could contribute to the increase of the suspended solids was recorded during the weekly inspection on 26 Oct 2021.</p> <p>After the investigation, the exceedances on 1 Nov 2021 at B1, B2 and M1 are deemed to be unrelated to the Project.</p>
<p>Monitoring photos of stations with exceedance</p>	<p>B1:</p> 

B2:

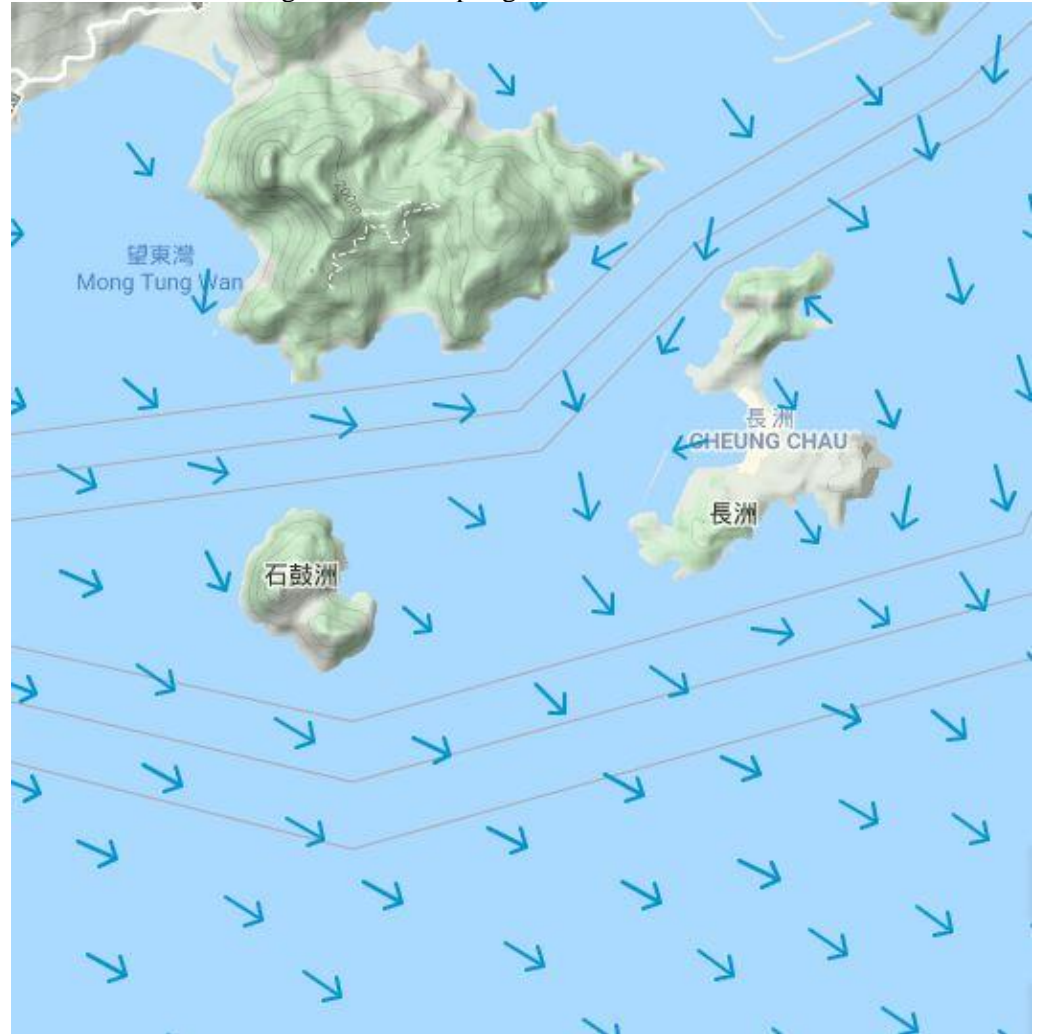


M1:



Remarks

Current direction during mid-ebb sampling on 1 Nov 2021:

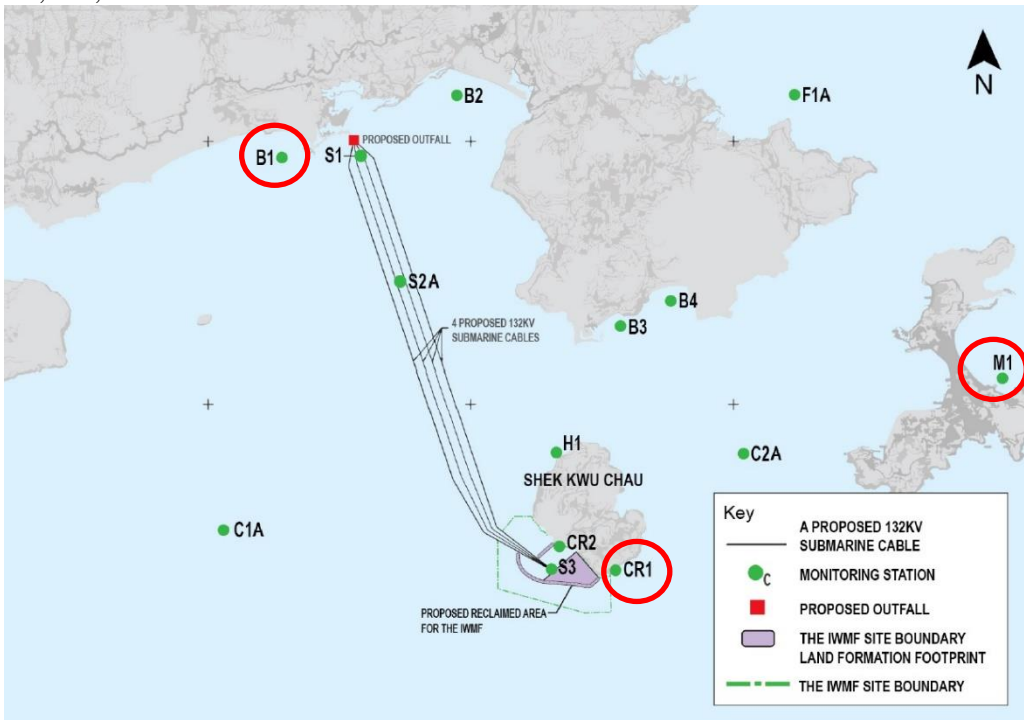



Legend			
Speed (knot)		Speed (knot)	
0-0.5		1.5-2.0	
0.5-1.0		2.0-2.5	
1.0-1.5		2.5 and above	

(Sourced from <http://current.hydro.gov.hk/en/map.html>)

Prepared by	Joe Ho
Date	30 Nov 2021

Incident Report on Action Level or Limit Level Non-compliance

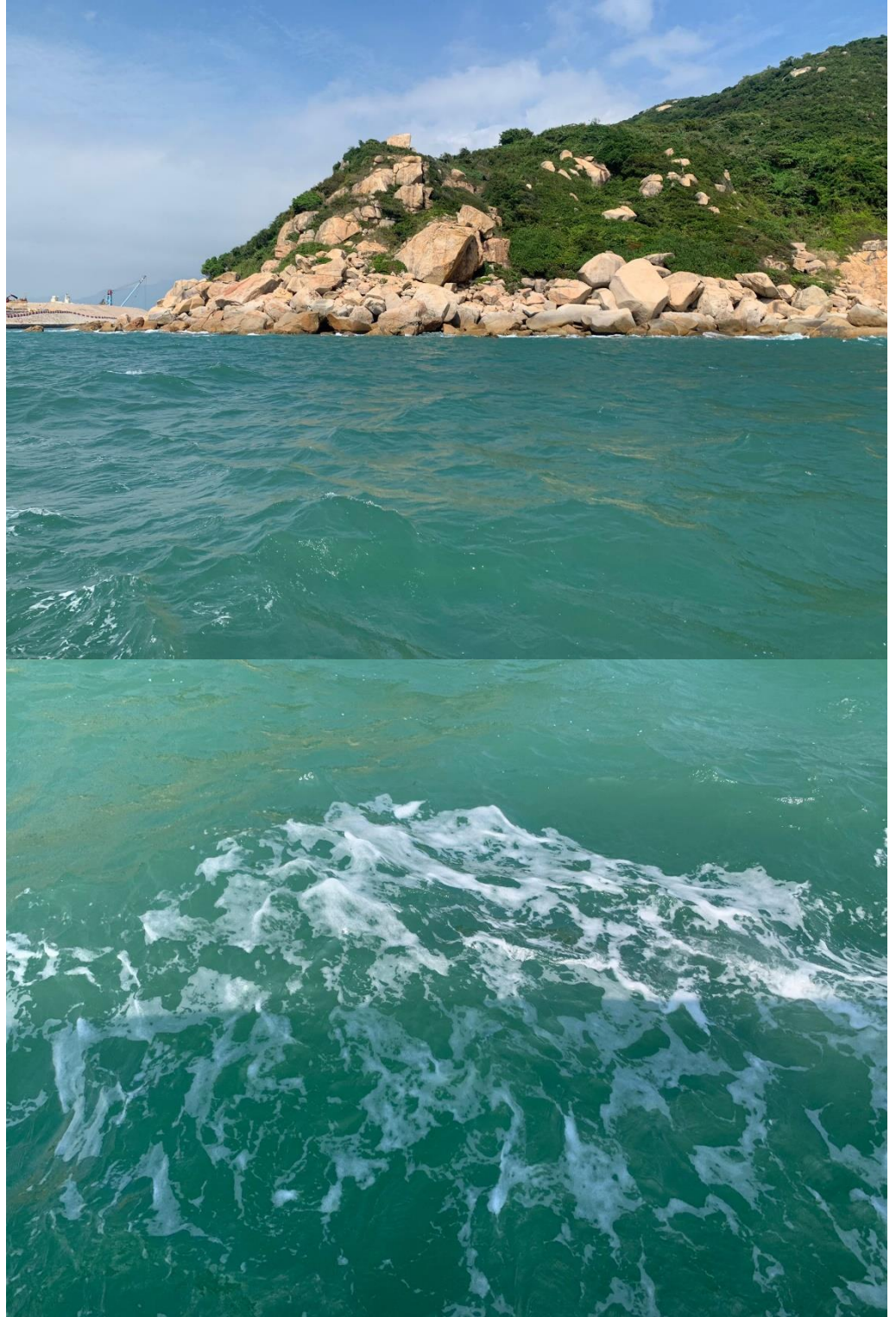
Project	Integrated Waste Management Facilities, Phase 1		
Date	3 Nov 2021 (Lab result received on 10 Nov 2021)		
Time	09:16 – 12:46 (Mid-Ebb) 15:26 – 18:56 (Mid-Flood)		
Mid-Ebb			
Monitoring Location	B1, M1, CR1 		
Parameter	Suspended Solid (SS)		
Action & Limit Levels	Action Level		Limit Level
	≥ 11.8 mg/L (120% of C1A)		≥ 12.8 mg/L (130% of C1A)
Measurement Level	Impact Station(s) of Exceedance	Control Stations	Impact Station(s) without Exceedance
	12.8 mg/L (B1) 13.2 mg/L (M1) 11.8 mg/L (CR1)	9.8 mg/L (C1A) 11.3 mg/L (C2A)	6.3 mg/L (B2) 5.3 mg/L (B3) 6.0 mg/L (B4) 9.0 mg/L (F1A) 9.3 mg/L (H1) 10.8 mg/L (CR2)
Possible reason for Action or Limit Level Non-compliance	<p>Works scheduled on site on 03 Nov 2021 include infilling of caisson, installation of blockwork for marine access facility, landfilling works for below +6.00mPD, landfilling works for above +6.00mPD, installation of instrumentation, piling pre-drilling works, piling works and existing caisson extension.</p> <p>Dominating sea current direction was found to be from Northwest to Southeast at waters around Shek Kwu Chau.</p> <p>Exceedance of action level was found at CR1 and exceedances of limit level were found at B1 and M1.</p> <p>B1 and M1 are located at unrelated stream direction (neither upstream nor downstream, far away) to the works location, exceedances of these monitoring stations are deemed to be unrelated to the Project.</p>		

	<p>CR1 is located close to the works location within the Project site while no marine work was conducted on 03 Nov 2021.</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 could contribute to the increase of the suspended solids was recorded during the weekly inspection on 02 Nov 2021.</p> <p>After the investigation, the exceedances on 03 Nov 2021 at B1, M1 and CR1 are deemed to be unrelated to the Project.</p>
<p>Monitoring photos of stations with exceedance</p>	<p>B1:</p> 

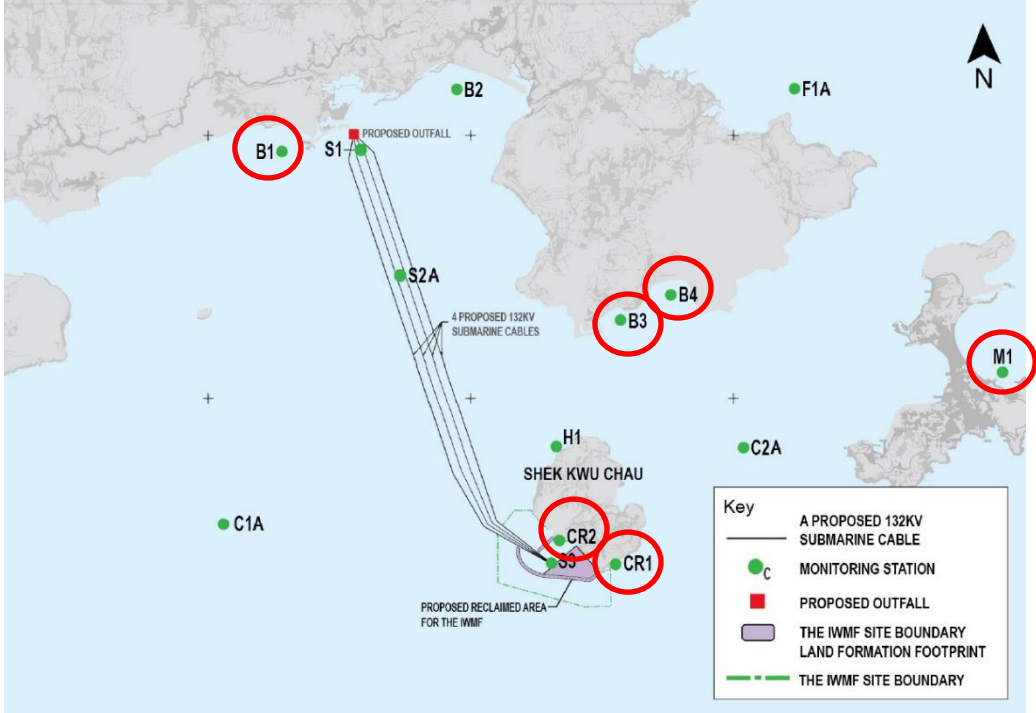
M1:




CR1:



Mid-Flood

<p>Monitoring Location</p>	<p>B1, B3, B4, M1, CR1, CR2</p> 		
<p>Parameter</p>	<p>Suspended Solid (SS)</p>		
<p>Action & Limit Levels</p>	<p>Action Level $\geq 9.8 \text{ mg/L (120\% of C2A)}$</p>		<p>Limit Level $\geq 10.6 \text{ mg/L (130\% of C2A)}$</p>
<p>Measurement Level</p>	<p>Impact Station(s) of Exceedance</p> <p>10.5 mg/L (B1) 10.3 mg/L (B3) 10.0 mg/L (B4) 11.2 mg/L (M1) 14.2 mg/L (CR1) 12.2 mg/L (CR2)</p>	<p>Control Stations</p> <p>10.8 mg/L (C1A) 8.2 mg/L (C2A)</p>	<p>Impact Station(s) without Exceedance</p> <p>9.8 mg/L (B2) 9.0 mg/L (F1A) 8.8 mg/L (H1)</p>
<p>Possible reason for Action or Limit Level Non-compliance</p>	<p>Works scheduled on site on 03 Nov 2021 include infilling of caisson, installation of blockwork for marine access facility, landfilling works for below +6.00mPD, landfilling works for above +6.00mPD, installation of instrumentation, piling pre-drilling works, piling works and existing caisson extension.</p> <p>Dominating sea current direction was found to be from Southeast to Northwest at waters around Shek Kwu Chau.</p> <p>Exceedances of action level were found at B1, B3 and B4 and exceedances of limit level were found at M1, CR1 and CR2.</p> <p>B1, B3, B4 and M1 are located at unrelated stream direction (neither upstream nor downstream, far away) to the works location, exceedances of these monitoring stations are deemed to be unrelated to the Project.</p> <p>CR1 and CR2 are located close to the works location within the Project site while no marine work was conducted on 03 Nov 2021.</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 could contribute to the increase of the suspended solids was recorded during the weekly inspection on 02 Nov 2021.</p> <p>After the investigation, the exceedances on 03 Nov 2021 at B1, B3, B4, M1, CR1 and CR2 are deemed to be unrelated to the Project.</p>
<p>Monitoring photos of stations with exceedance</p>	<p>B1:</p> 

B3:



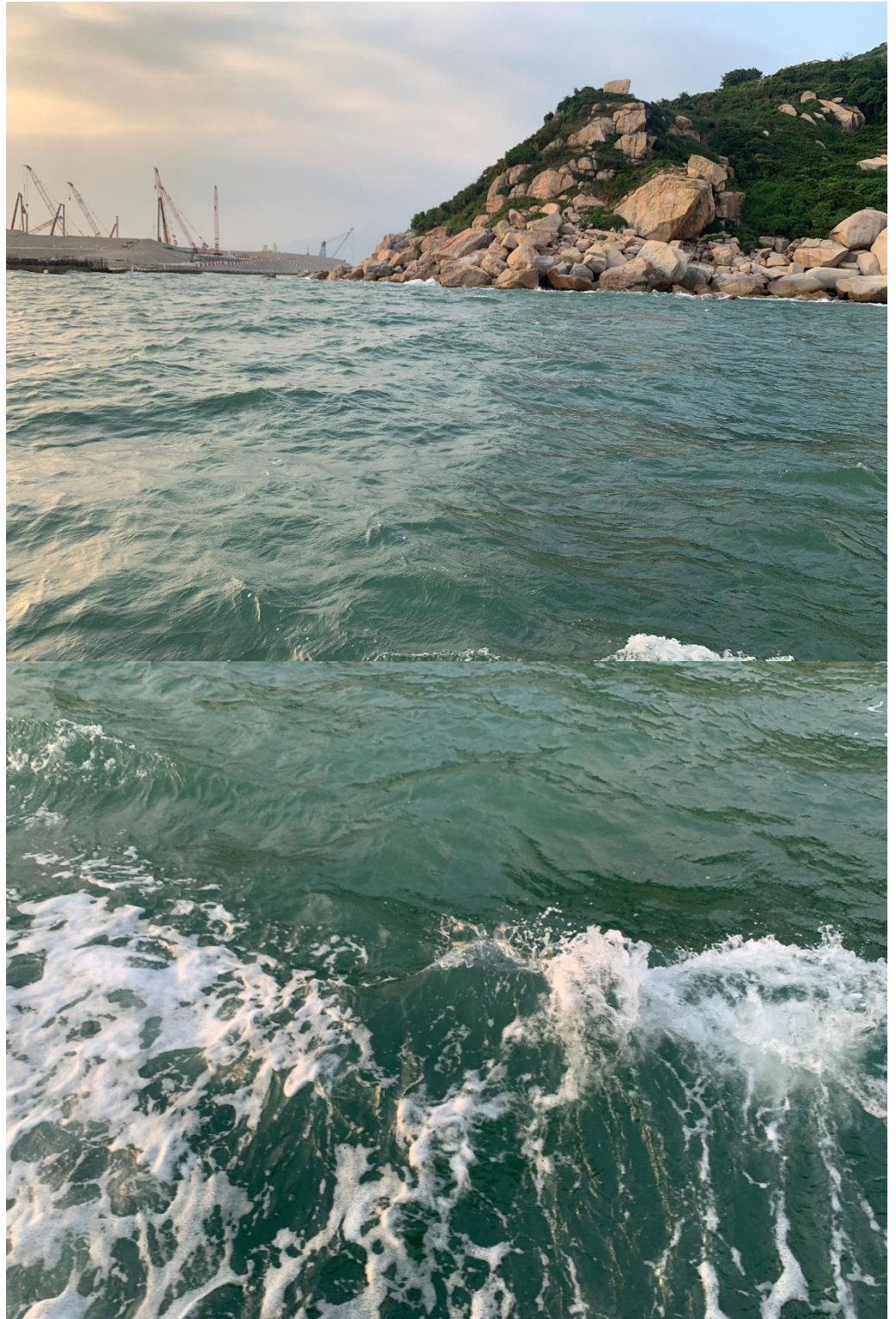
B4:



M1:



CRI:



CR2:

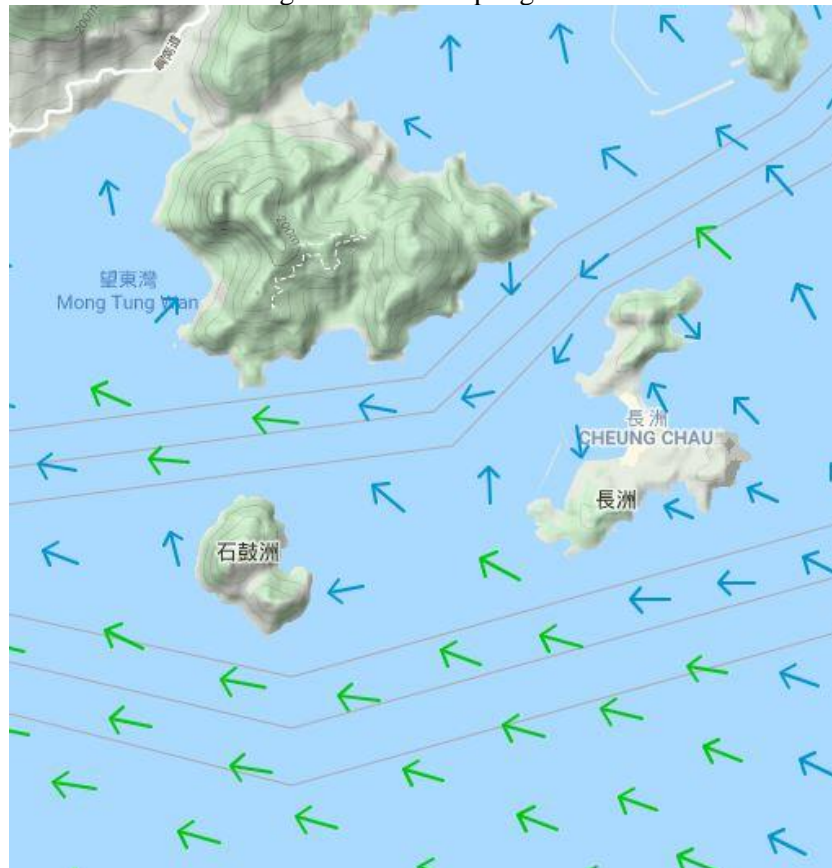


Remarks

Current direction during mid-ebb sampling on 03 Nov 2021:

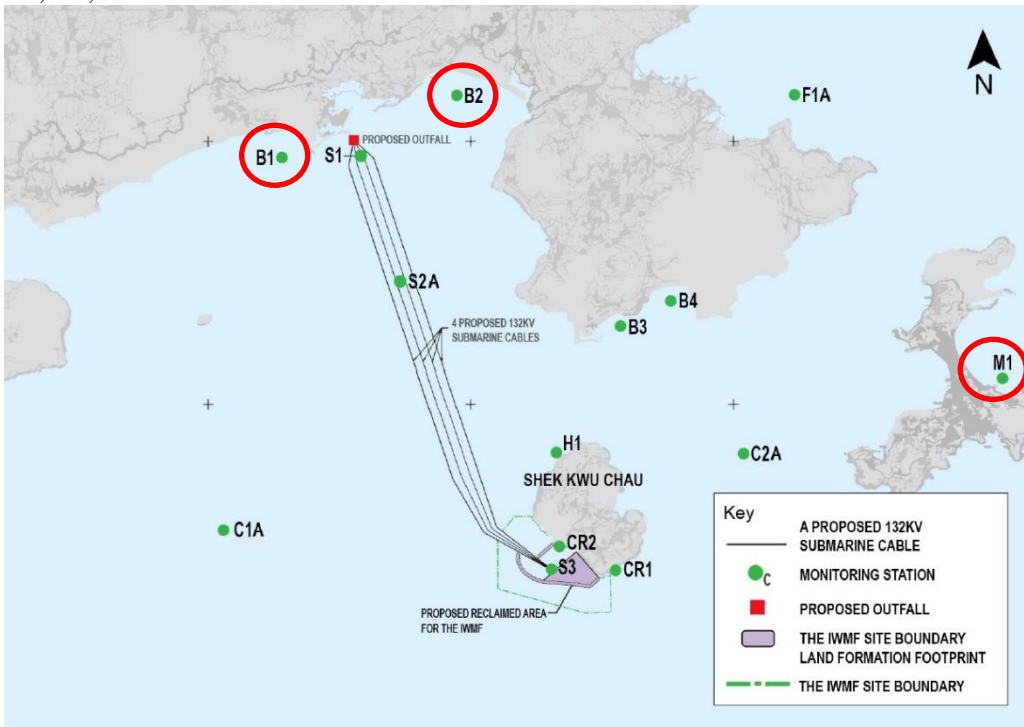



Current direction during mid-flood sampling on 03 Nov 2021:



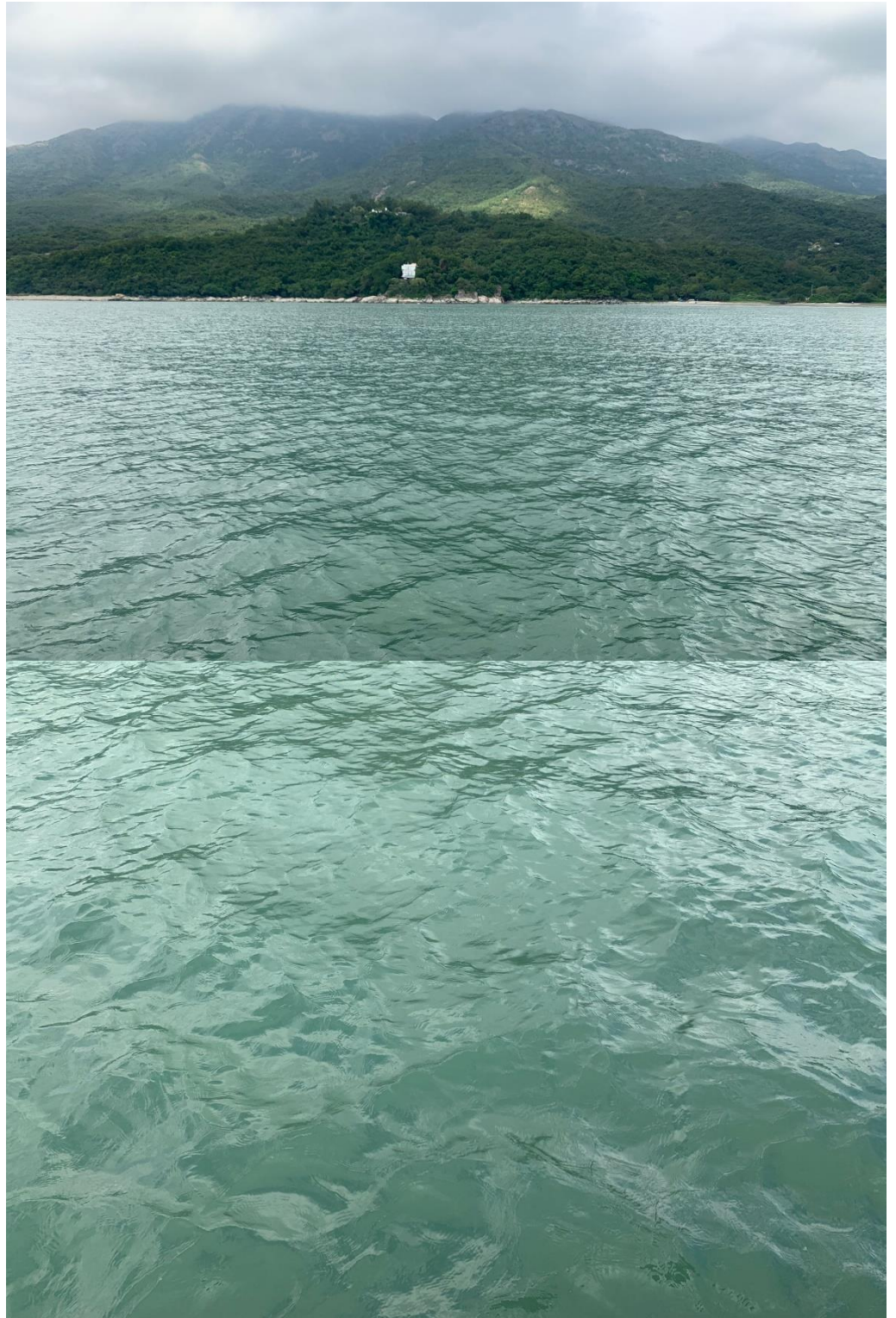
	Legend								
	<table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left; padding: 5px;">Speed (knot)</th> <th style="text-align: left; padding: 5px;">Speed (knot)</th> </tr> </thead> <tbody> <tr> <td style="padding: 5px;">0-0.5 →</td> <td style="padding: 5px;">1.5-2.0 →</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	Joe Ho								
Date	30 Nov 2021								

Incident Report on Action Level or Limit Level Non-compliance

Project	Integrated Waste Management Facilities, Phase 1		
Date	5 Nov 2021 (Lab result received on 10 Nov 2021)		
Time	10:49 – 14:19 (Mid-Ebb) 15:26 – 18:56 (Mid-Flood)		
Mid-Ebb			
Monitoring Location	B1, B2, M1 		
Parameter	Suspended Solid (SS)		
Action & Limit Levels	Action Level		Limit Level
	≥ 10.8 mg/L (120% of C1A)		≥ 11.7 mg/L (130% of C1A)
Measurement Level	Impact Station(s) of Exceedance	Control Stations	Impact Station(s) without Exceedance
	13.0 mg/L (B1) 12.0 mg/L (B2) 11.8 mg/L (M1)	9.0 mg/L (C1A) 8.2 mg/L (C2A)	8.0 mg/L (B3) 8.0 mg/L (B4) 7.3 mg/L (F1A) 8.2 mg/L (H1) 8.5 mg/L (CR1) 9.3 mg/L (CR2)
Possible reason for Action or Limit Level Non-compliance	<p>Works scheduled on site on 05 Nov 2021 include infilling of caisson, installation of blockwork for marine access facility, landfilling works for below +6.00mPD, landfilling works for above +6.00mPD, installation of instrumentation, piling pre-drilling works, piling works, piling works for pre-bored socketed H-pile and existing caisson extension.</p> <p>Dominating sea current direction was found to be from Northwest to Southeast at waters around Shek Kwu Chau.</p> <p>Exceedances of limit level were found at B1, B2 and M1.</p> <p>B1, B2 and M1 are located at unrelated stream direction (neither upstream nor downstream, far away) to the works location, exceedances of these monitoring stations 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 fine during the sampling event.</p> <p>No major observation of improper site practices that could contribute to the increase of the suspended solids was recorded during the weekly inspection on 02 Nov 2021.</p> <p>After the investigation, the exceedances on 05 Nov 2021 at B1, B2 and M1 are deemed to be unrelated to the Project.</p>
<p>Monitoring photos of stations with exceedance</p>	<p>B1:</p> 

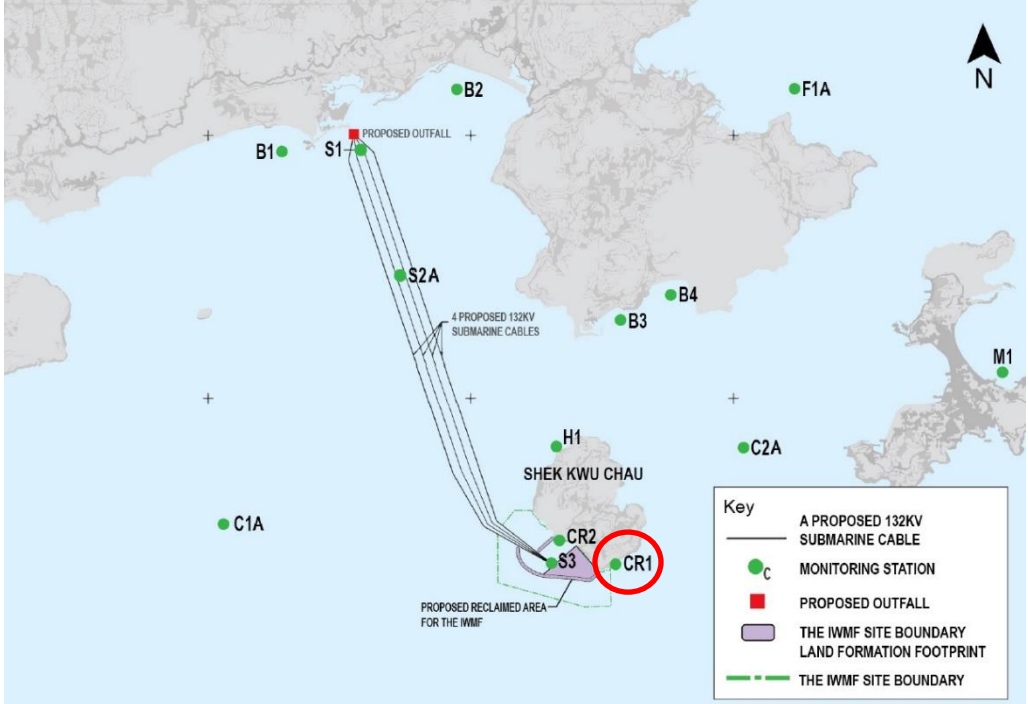
B2:




M1:



Mid-Flood

<p>Monitoring Location</p>	<p>CR1</p> 		
<p>Parameter</p>	<p>Suspended Solid (SS)</p>		
<p>Action & Limit Levels</p>	<p>Action Level ≥ 12.0 mg/L (120% of C2A)</p>		<p>Limit Level ≥ 13.0 mg/L (130% of C2A)</p>
<p>Measurement Level</p>	<p>Impact Station(s) of Exceedance 13.0 mg/L (CR1)</p>	<p>Control Stations 10.7 mg/L (C1A) 10.0 mg/L (C2A)</p>	<p>Impact Station(s) without Exceedance 10.3 mg/L (B1) 10.8 mg/L (B2) 10.8 mg/L (B3) 11.0 mg/L (B4) 10.8 mg/L (F1A) 11.0 mg/L (H1) 7.7 mg/L (M1) 6.3 mg/L (CR2)</p>
<p>Possible reason for Action or Limit Level Non-compliance</p>	<p>Works scheduled on site on 05 Nov 2021 include infilling of caisson, installation of blockwork marine access facility, landfilling works for below +6.00mPD, landfilling works for above +6.00mPD, installation of instrumentation, piling pre-drilling works, piling works, piling works for pre-bored socketed H-pile and existing caisson extension.</p> <p>Dominating sea current direction was found to be from Southeast to Northwest at waters around Shek Kwu Chau.</p> <p>Exceedance of limit level was found at CR1.</p> <p>CR1 is located close to the works location within the Project site while no marine work was conducted on 05 Nov 2021.</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 could contribute to the increase of the suspended solids was recorded during the weekly inspection on 02 Nov 2021.</p> <p>After the investigation, the exceedances on 05 Nov 2021 at CR1 is deemed to be unrelated to the Project.</p>
<p>Monitoring photos of stations with exceedance</p>	<p>CR1:</p> 

Remarks

Current direction during mid-ebb sampling on 05 Nov 2021:




Current direction during mid-flood sampling on 05 Nov 2021:



	Legend																
	<table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left; padding: 5px;">Speed (knot)</th> <th style="text-align: center; padding: 5px;">→</th> <th style="text-align: left; padding: 5px;">Speed (knot)</th> <th style="text-align: center; padding: 5px;">→</th> </tr> </thead> <tbody> <tr> <td style="padding: 5px;">0-0.5</td> <td style="text-align: center; padding: 5px;">→</td> <td style="padding: 5px;">1.5-2.0</td> <td style="text-align: center; padding: 5px;">→</td> </tr> <tr> <td style="padding: 5px;">0.5-1.0</td> <td style="text-align: center; padding: 5px;">→</td> <td style="padding: 5px;">2.0-2.5</td> <td style="text-align: center; padding: 5px;">→</td> </tr> <tr> <td style="padding: 5px;">1.0-1.5</td> <td style="text-align: center; padding: 5px;">→</td> <td style="padding: 5px;">2.5 and above</td> <td style="text-align: center; padding: 5px;">→</td> </tr> </tbody> </table> <p style="font-size: small; margin-top: 5px;">(Sourced from http://current.hydro.gov.hk/en/map.html)</p>	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	→														
Prepared by	Joe Ho																
Date	30 Nov 2021																

Incident Report on Action Level or Limit Level Non-compliance

Project	Integrated Waste Management Facilities, Phase 1		
Date	10 Nov 2021 (Lab result received on 16 Nov 2021)		
Time	15:15 – 18:45 (Mid-Ebb)		
Monitoring Location	Mid-Ebb B4, CR2		
Parameter	Suspended Solid (SS)		
Action & Limit Levels	Action Level		Limit Level
	≥ 8.2 mg/L (120% of C1A)		≥ 10.0 mg/L
Measurement Level	Impact Station(s) of Exceedance	Control Stations	Impact Station(s) of Exceedance
	10.0 mg/L (B4) 8.8 mg/L (CR2)	6.8 mg/L (C1A) 4.2 mg/L (C2A)	6.5 mg/L (B1) 5.3 mg/L (B2) 5.5 mg/L (B3) 6.0 mg/L (F1A) 4.7 mg/L (H1) 6.5 mg/L (M1) 7.5 mg/L (CR1)
Possible reason for Action or Limit Level Non-compliance	<p>Works scheduled on site on 10 Nov 2021 include laying of armour, installation of blockwork for marine access facility, landfilling works for below +6.00mPD, landfilling works for above +6.00mPD, installation of instrumentation, piling pre-drilling works, piling works, piling works for driven pile, piling works for pre-bored socketed H-pile and existing caisson extension.</p> <p>Dominating sea current direction was found to be from Southeast to Northwest at waters around Shek Kwu Chau.</p> <p>Exceedance of action level was found at CR2 and exceedance of limit level was found at B4.</p> <p>B4 is located at unrelated stream direction (neither upstream nor downstream, far away) to the works location, exceedances of these monitoring stations are deemed to</p>		

	<p>be unrelated to the Project.</p> <p>CR2 is located close to the works location within the Project site while no marine work was conducted on 10 Nov 2021.</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 could contribute to the increase of the suspended solids was recorded during the weekly inspection on 09 Nov 2021.</p> <p>After the investigation, the exceedances on 10 Nov 2021 at B4 and CR2 are deemed to be unrelated to the Project.</p>
<p>Monitoring photos of stations with exceedance</p>	<p>B4:</p> 

CR2:



Remarks

Current direction during mid-ebb sampling on 10 Nov 2021:

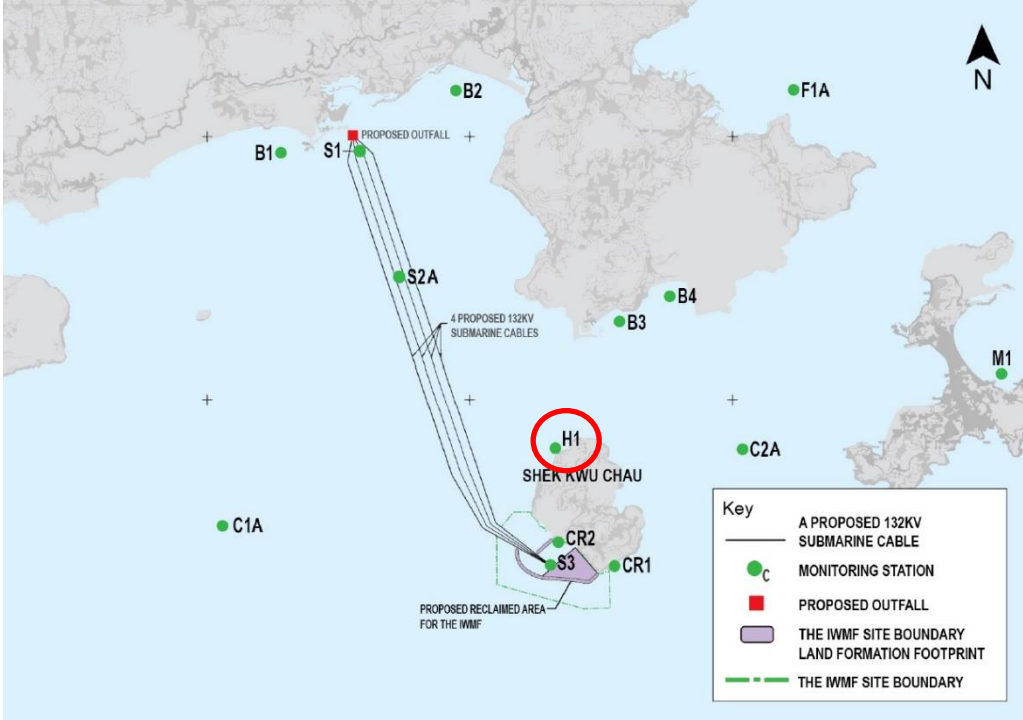



Legend			
Speed (knot)		Speed (knot)	
0-0.5	→	1.5-2.0	→
0.5-1.0	→	2.0-2.5	→
1.0-1.5	→	2.5 and above	→

(Sourced from <http://current.hydro.gov.hk/en/map.html>)

Prepared by	Joe Ho
Date	30 Nov 2021

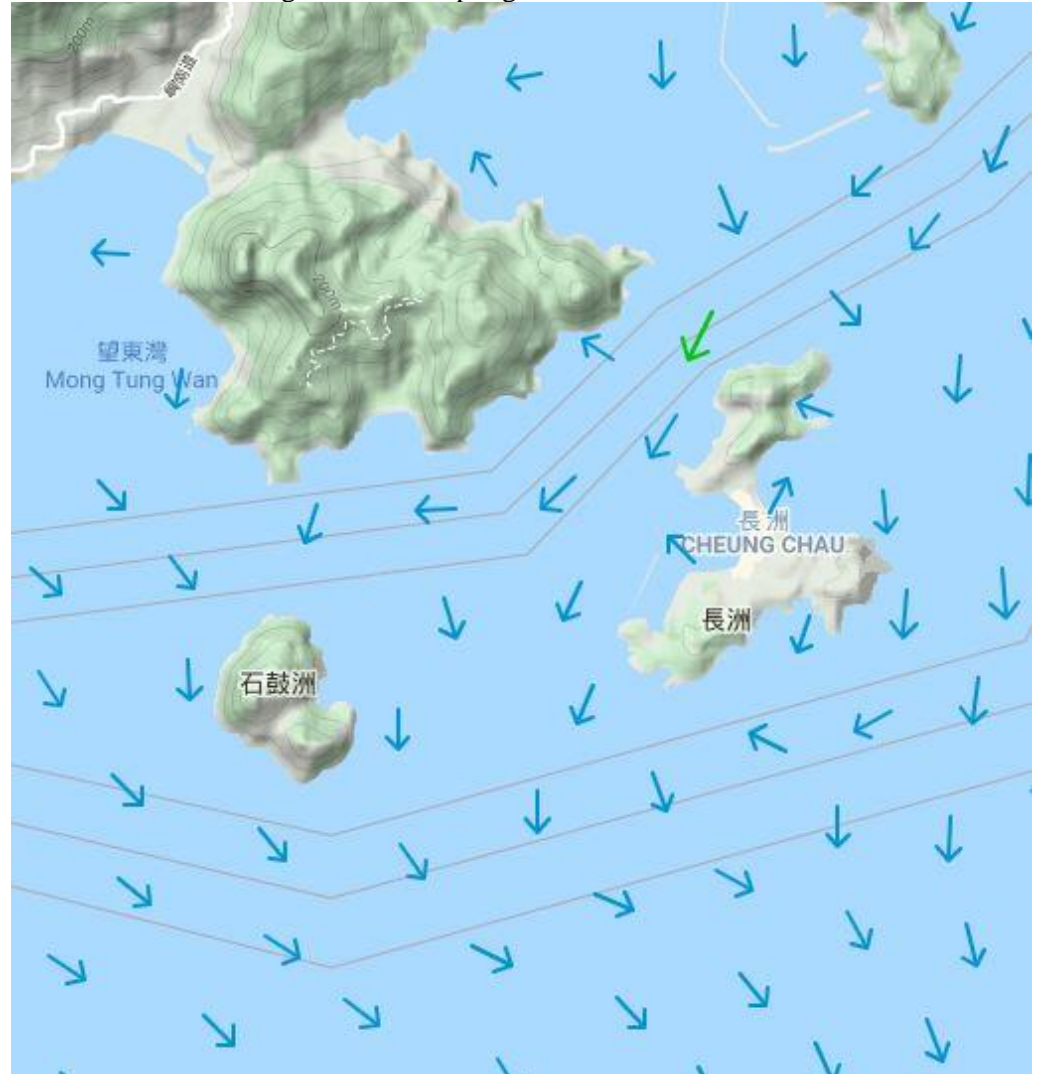
Incident Report on Action Level or Limit Level Non-compliance

Project	Integrated Waste Management Facilities, Phase 1		
Date	12 Nov 2021 (Lab result received on 19 Nov 2021)		
Time	08:00 – 10:00 (Mid-Ebb)		
Monitoring Location	Mid-Ebb H1 		
Parameter	Suspended Solid (SS)		
Action & Limit Levels	Action Level		Limit Level
	≥ 11.4 mg/L (120% of C1A)		≥ 12.4 mg/L (130% of C1A)
Measurement Level	Impact Station(s) of Exceedance	Control Stations	Impact Station(s) of Exceedance
	12.3 mg/L (H1)	9.5 mg/L (C1A) 10.5 mg/L (C2A)	10.0 mg/L (B1) 6.8 mg/L (B2) 9.0 mg/L (B3) 8.3 mg/L (B4) 7.2 mg/L (F1A) 10.3 mg/L (M1) 9.7 mg/L (CR1) 10.0 mg/L (CR2)
Possible reason for Action or Limit Level Non-compliance	<p>Works scheduled on site on 12 Nov 2021 include installation of blockwork marine for access facility, landfilling works for below +6.00mPD, landfilling works for above +6.00mPD, installation of instrumentation, piling pre-drilling works, piling works, piling works for pre-bored socketed H-pile, existing caisson extension and armour scour protection.</p> <p>Dominating sea current direction was found to be from Northwest to Southeast at waters around Shek Kwu Chau.</p> <p>Exceedance of action level was found at H1.</p> <p>H1 is located at unrelated stream direction (neither upstream nor downstream, far away) to the works location, exceedance of this monitoring stations is deemed to be</p>		

	<p>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 could contribute to the increase of the suspended solids was recorded during the weekly inspection on 09 Nov 2021.</p> <p>After the investigation, the exceedance on 10 Nov 2021 at H1 is deemed to be unrelated to the Project.</p>
<p>Monitoring photos of stations with exceedance</p>	<p>H1:</p> 

Remarks

Current direction during mid-ebb sampling on 12 Nov 2021:




Legend			
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	Joe Ho
Date	30 Nov 2021

Incident Report on Action Level or Limit Level Non-compliance

Project	Integrated Waste Management Facilities, Phase 1		
Date	17 Nov 2021 (Lab result received on 26 Nov 2021)		
Time	15:25 – 18:55 (Mid-Flood)		
Mid-Flood			
Monitoring Location	B1 		
Parameter	Suspended Solid (SS)		
Action & Limit Levels	Action Level		Limit Level
	≥ 8.4 mg/L (120% of C2A)		≥ 10.0 mg/L
Measurement Level	Impact Station(s) of Exceedance	Control Stations	Impact Station(s) of Exceedance
	15.5 mg/L (B1)	5.0 mg/L (C1A) 7.0 mg/L (C2A)	2.5mg/L (B2) 2.9 mg/L (B3) 7.0 mg/L (B4) 4.3 mg/L (F1A) 4.9 mg/L (H1) 4.8 mg/L (M1) 4.2 mg/L (CR1) 5.0 mg/L (CR2)
Possible reason for Action or Limit Level Non-compliance	<p>Works scheduled on site on 17 Nov 2021 include installation of blockwork for marine access facility, landfilling works for below +6.00mPD, landfilling works for above +6.00mPD, installation of instrumentation, piling pre-drilling works, piling works, piling works for pre-bored socketed H-pile, existing caisson extension and armour scour protection.</p> <p>Dominating sea current direction was found to be from Southeast to Northwest at waters around Shek Kwu Chau.</p> <p>Exceedance of limit level was found at B1.</p> <p>B1 is located at unrelated stream direction (neither upstream nor downstream, far away) to the works location, exceedance of this monitoring station is deemed to be</p>		

	<p>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 could contribute to the increase of the suspended solids was recorded during the weekly inspection on 16 Nov 2021 and 25 Nov 2021.</p> <p>After the investigation, the exceedance on 17 Nov 2021 at B1 is deemed to be unrelated to the Project.</p>
<p>Monitoring photos of stations with exceedance</p>	<p>B1:</p> 

Remarks

Current direction during mid-ebb sampling on 17 Nov 2021:

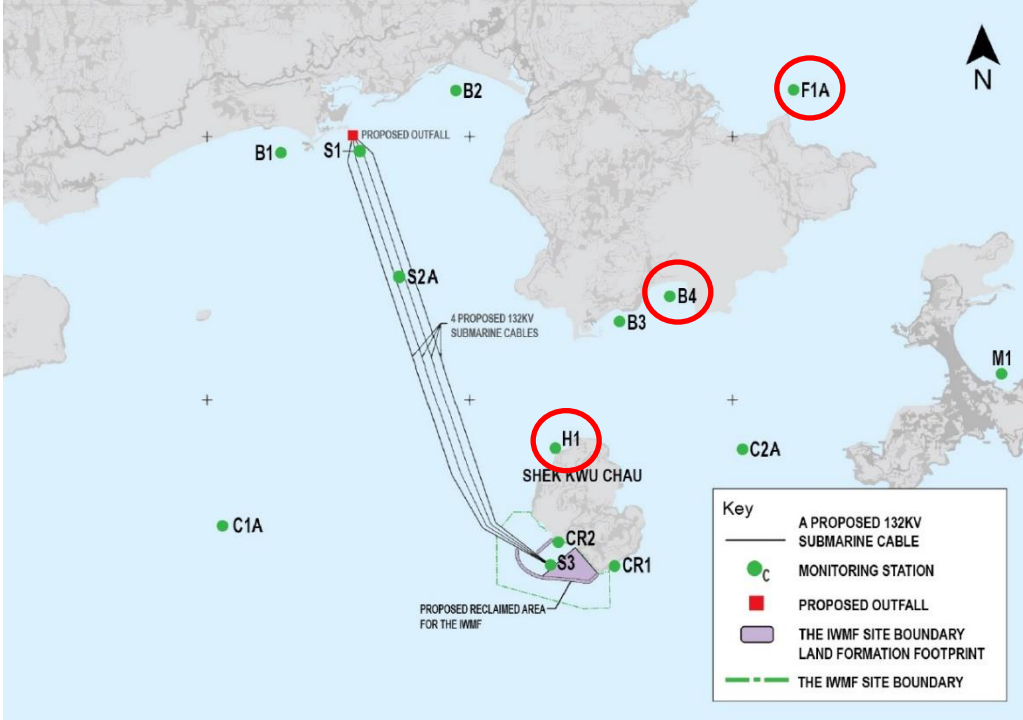



Legend			
Speed (knot)		Speed (knot)	
0-0.5	→	1.5-2.0	→
0.5-1.0	→	2.0-2.5	→
1.0-1.5	→	2.5 and above	→

(Sourced from <http://current.hydro.gov.hk/en/map.html>)

Prepared by	Joe Ho
Date	07 Dec 2021

Incident Report on Action Level or Limit Level Non-compliance

Project	Integrated Waste Management Facilities, Phase 1		
Date	22 Nov 2021 (Lab result received on 1 Dec 2021)		
Time	08:00 – 11:30 (Mid-Flood)		
Mid-Flood			
Monitoring Location	B4, F1, H1 		
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) of Exceedance
	8.0 mg/L (B4) 8.0 mg/L (F1A) 8.5 mg/L (H1)	7.3 mg/L (C1A) 6.3 mg/L (C2A)	6.8 mg/L (B1) 6.8 mg/L (B2) 7.3 mg/L (B3) 7.0 mg/L (M1) 6.3 mg/L (CR1) 5.8 mg/L (CR2)
Possible reason for Action or Limit Level Non-compliance	<p>Works scheduled on site on 22 Nov 2021 include installation of blockwork marine for access facility, landfilling works for below +6.00mPD, landfilling works for above +6.00mPD, installation of instrumentation, piling pre-drilling works, piling works, piling works for pre-bored socketed H-pile, existing caisson extension and armour scour protection.</p> <p>Dominating sea current direction was found to be from Southeast to Northwest at waters around Shek Kwu Chau.</p> <p>Exceedances of action level were found at B4, F1A and H1.</p> <p>B4 and F1A are located at unrelated stream direction (neither upstream nor downstream, far away) to the works location, exceedances of these monitoring stations are deemed to be unrelated to the Project.</p>		

	<p>H1 is the downstream of the Project site during Flood tide while no marine work was conducted on 22 Nov 2021.</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 cloudy during the sampling event.</p> <p>No major observation of improper site practices that could contribute to the increase of the suspended solids was recorded during the weekly inspection on 16 Nov 2021 and 25 Nov 2021.</p> <p>After the investigation, the exceedances on 22 Nov 2021 at B4, F1A and H1 are deemed to be unrelated to the Project.</p>
<p>Monitoring photos of stations with exceedance</p>	<p>B4:</p> 

F1A:

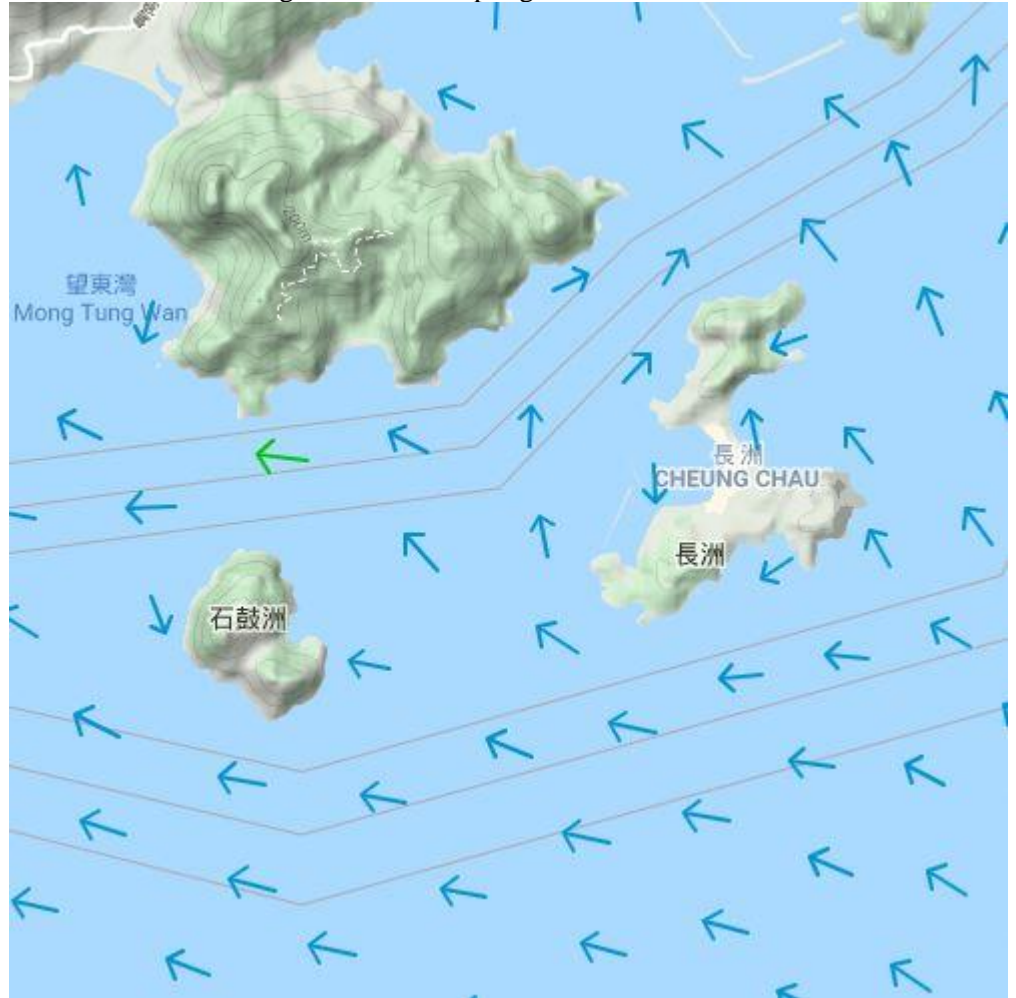


H1:



Remarks

Current direction during mid-flood sampling on 22 Nov 2021:



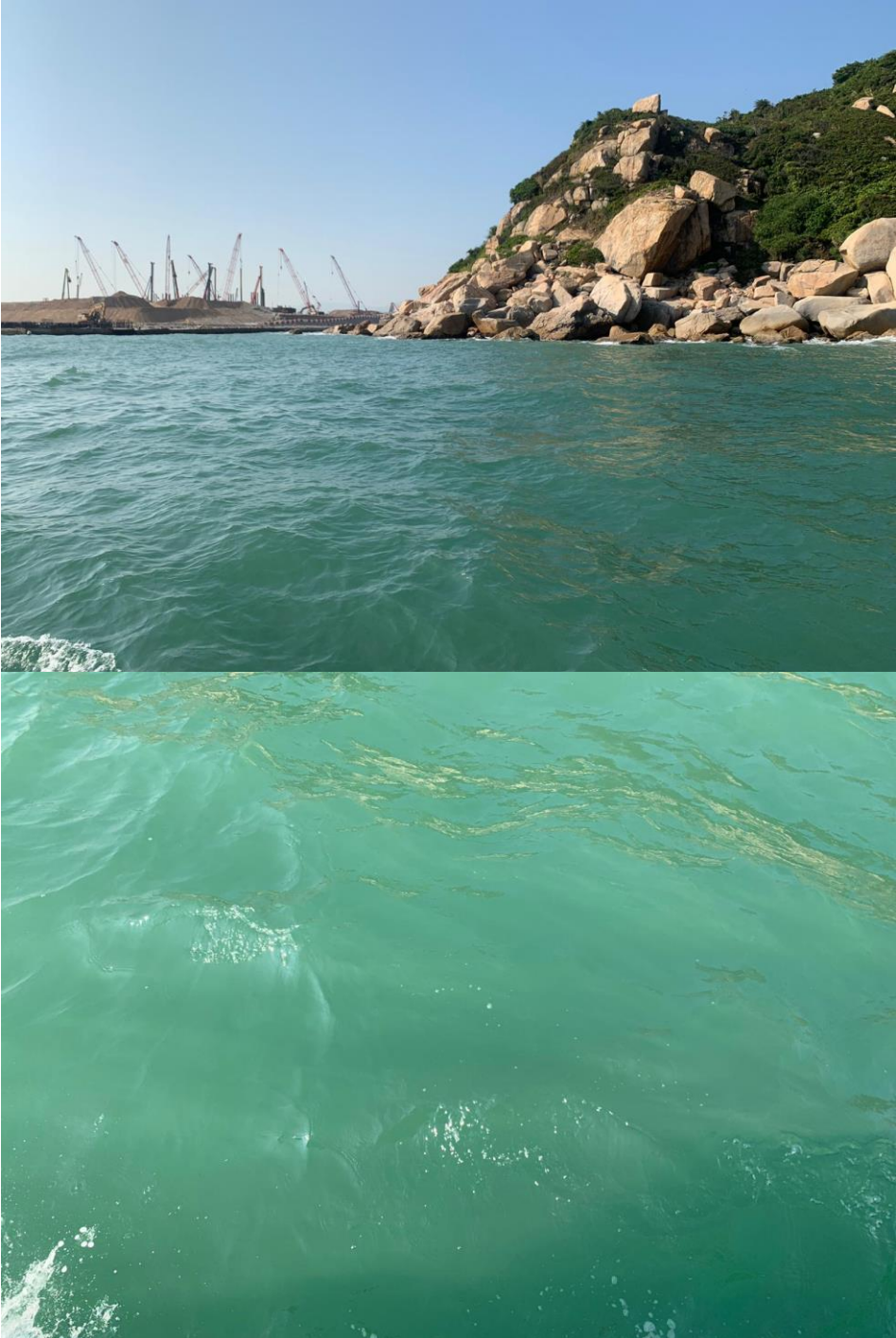
Legend			
Speed (knot)		Speed (knot)	
0-0.5	→	1.5-2.0	→
0.5-1.0	→	2.0-2.5	→
1.0-1.5	→	2.5 and above	→

(Sourced from <http://current.hydro.gov.hk/en/map.html>)

Prepared by	Joe Ho
Date	6 Dec 2021

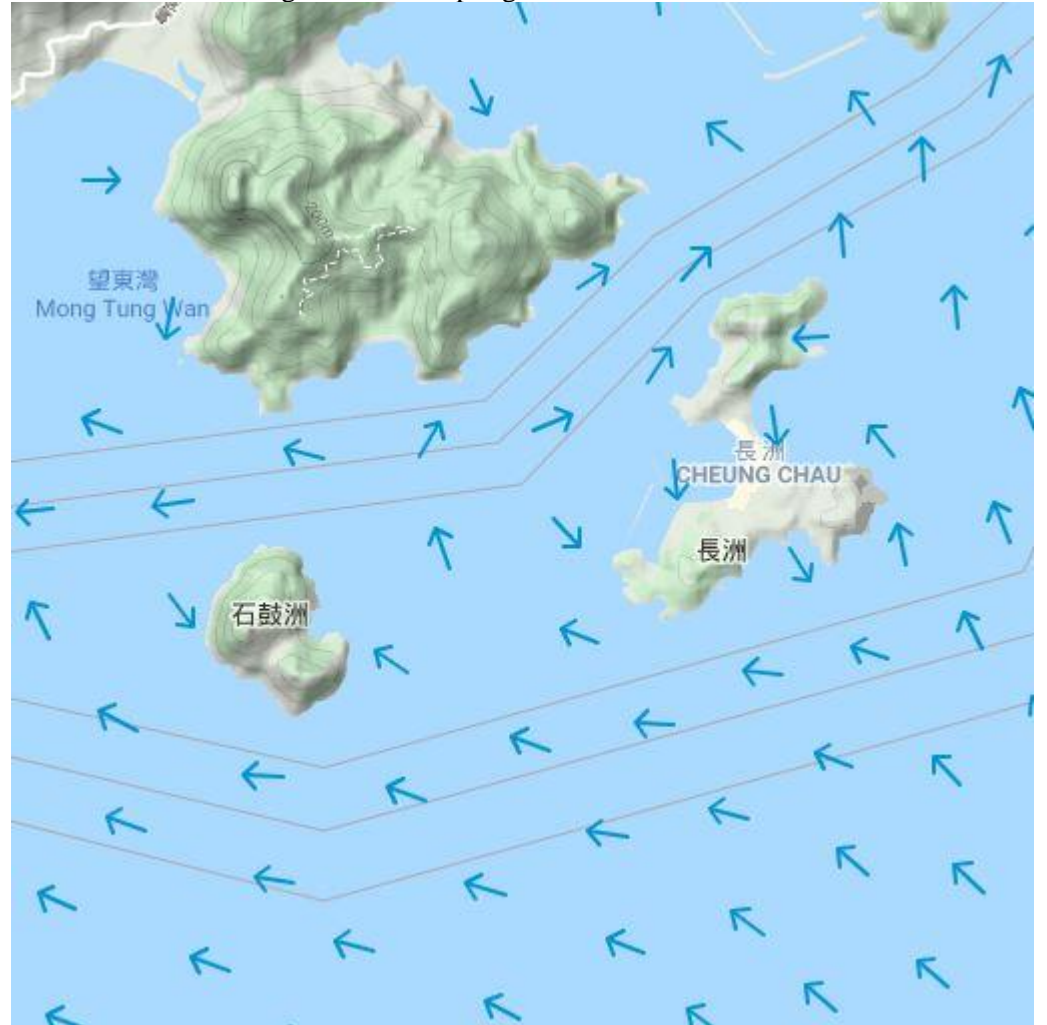
Incident Report on Action Level or Limit Level Non-compliance

Project	Integrated Waste Management Facilities, Phase 1		
Date	24 Nov 2021 (Lab result received on 1 Dec 2021)		
Time	12:45 – 16:15 (Mid-Ebb)		
Monitoring Location	Mid-Ebb CR1		
Parameter	Suspended Solid (SS)		
Action & Limit Levels	Action Level		Limit Level
	≥ 10.2 mg/L (120% of C1A)		≥ 11.1 mg/L (130% of C1A)
Measurement Level	Impact Station(s) of Exceedance	Control Stations	Impact Station(s) of Exceedance
	11.7 mg/L (CR1)	8.5 mg/L (C1A) 10.0 mg/L (C2A)	3.3 mg/L (B1) 6.0 mg/L (B2) 3.3 mg/L (B3) 3.1 mg/L (B4) 7.8 mg/L (F1A) 4.8 mg/L (H1) 8.3 mg/L (M1) 8.0 mg/L (CR2)
Possible reason for Action or Limit Level Non-compliance	<p>Works scheduled on site on 24 Nov 2021 include installation of blockwork marine for access facility, landfilling works for below +6.00mPD, landfilling works for above +6.00mPD, installation of instrumentation, piling pre-drilling works, piling works, piling works for driven pile, piling works for pre-bored socketed H-pile, existing caisson extension and armour scour protection.</p> <p>Dominating sea current direction was found to be from Southeast to Northwest at waters around Shek Kwu Chau.</p> <p>Exceedance of limit level was found at CR1.</p> <p>CR1 is located close to the works location within the Project site while no marine work was conducted on 24 Nov 2021.</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 could contribute to the increase of the suspended solids was recorded during the weekly inspection on 16 Nov 2021 and 25 Nov 2021.</p> <p>After the investigation, the exceedance on 24 Nov 2021 at CR1 is deemed to be unrelated to the Project.</p>
<p>Monitoring photos of stations with exceedance</p>	<p>CR1:</p> 

Remarks

Current direction during mid-ebb sampling on 24 Nov 2021:




Legend			
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>)

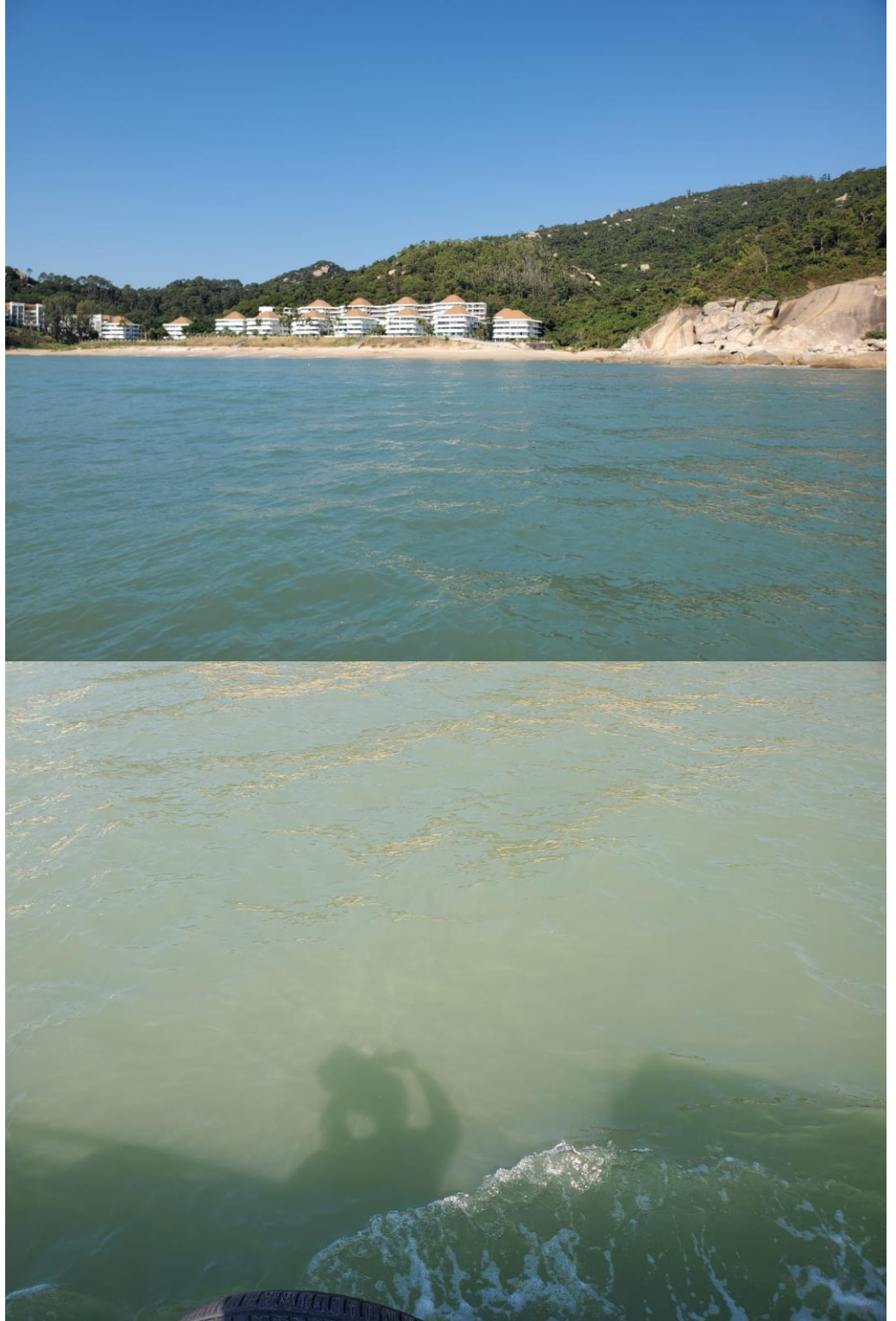
Prepared by	Joe Ho
Date	6 Dec 2021

Incident Report on Action Level or Limit Level Non-compliance

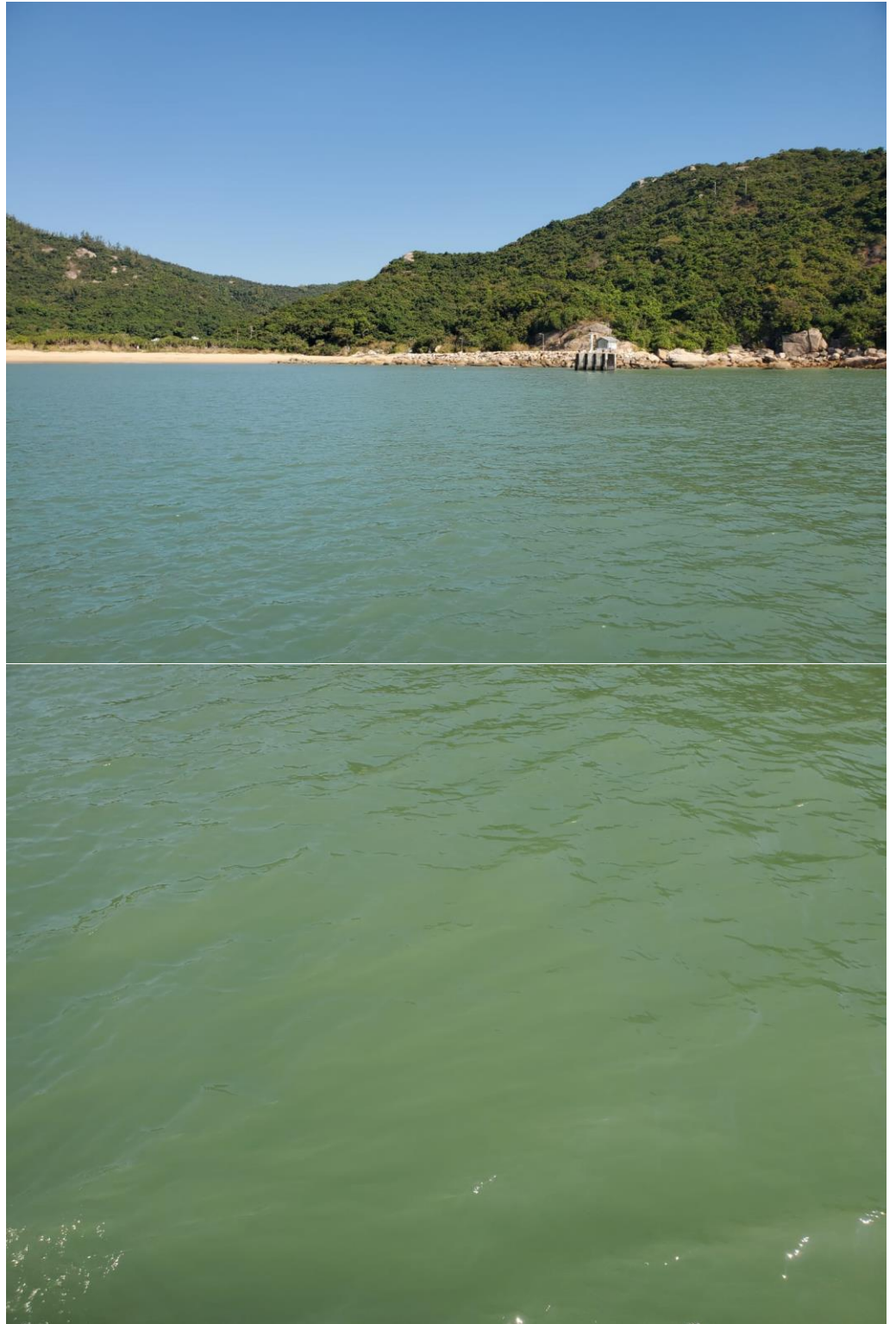
Project	Integrated Waste Management Facilities, Phase 1		
Date	29 Nov 2021 (Lab result received on 08 Dec 2021)		
Time	08:00 – 10:51 (Mid-Ebb) 13:10 – 16:40 (Mid-Flood)		
Mid-Ebb			
Monitoring Location	B1, B3, B4, H1, M1 and CR2		
Parameter	Suspended Solid (SS)		
Action & Limit Levels	Action Level		Limit Level
	≥ 10.8 mg/L (120% of C1A)		≥ 11.7 mg/L (130% of C1A)
Measurement Level	Impact Station(s) of Exceedance	Control Stations	Impact Station(s) without Exceedance
	10.8 mg/L (B1) 12.0 mg/L (B3) 11.8 mg/L (B4) 13.5 mg/L (H1) 23.3 mg/L (M1) 11.8 mg/L (CR2)	9.0 mg/L (C1A) 8.5 mg/L (C2A)	9.8 mg/L (B2) 7.8 mg/L (F1) 10.5 mg/L (CR1)
Possible reason for Action or Limit Level Non-compliance	<p>Works scheduled on site on 29 Nov 2021 include installation of blockwork for marine access facility, landfilling works for below +6.00mPD, landfilling works for above +6.00mPD, installation of instrumentation, piling pre-drilling works, piling works, piling works for driven pile, piling works for pre-bored socketed H-pile and existing caisson extension and armour scour protection.</p> <p>Dominating sea current direction was found to be from Northwest to Southeast at waters around Shek Kwu Chau.</p> <p>Exceedance of action level was found at B1 and exceedances of limit level were found at B3, B4, H1, M1 and CR2.</p>		

	<p>B1, B3, B4, H1, M1 are located at unrelated stream direction (neither upstream nor downstream, far away) to the works location, exceedances of these monitoring stations are deemed to be unrelated to the Project.</p> <p>CR2 is located close to the works location within the Project site while no marine work was conducted on 29 Nov 2021.</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 could contribute to the increase of the suspended solids was recorded during the weekly inspection on 02 Nov 2021.</p> <p>After the investigation, the exceedances on 29 Nov 2021 at B1, B3, B4, H1, M1 and CR2 are deemed to be unrelated to the Project.</p>
<p>Monitoring photos of stations with exceedance</p>	<p>B1:</p> 

B3:



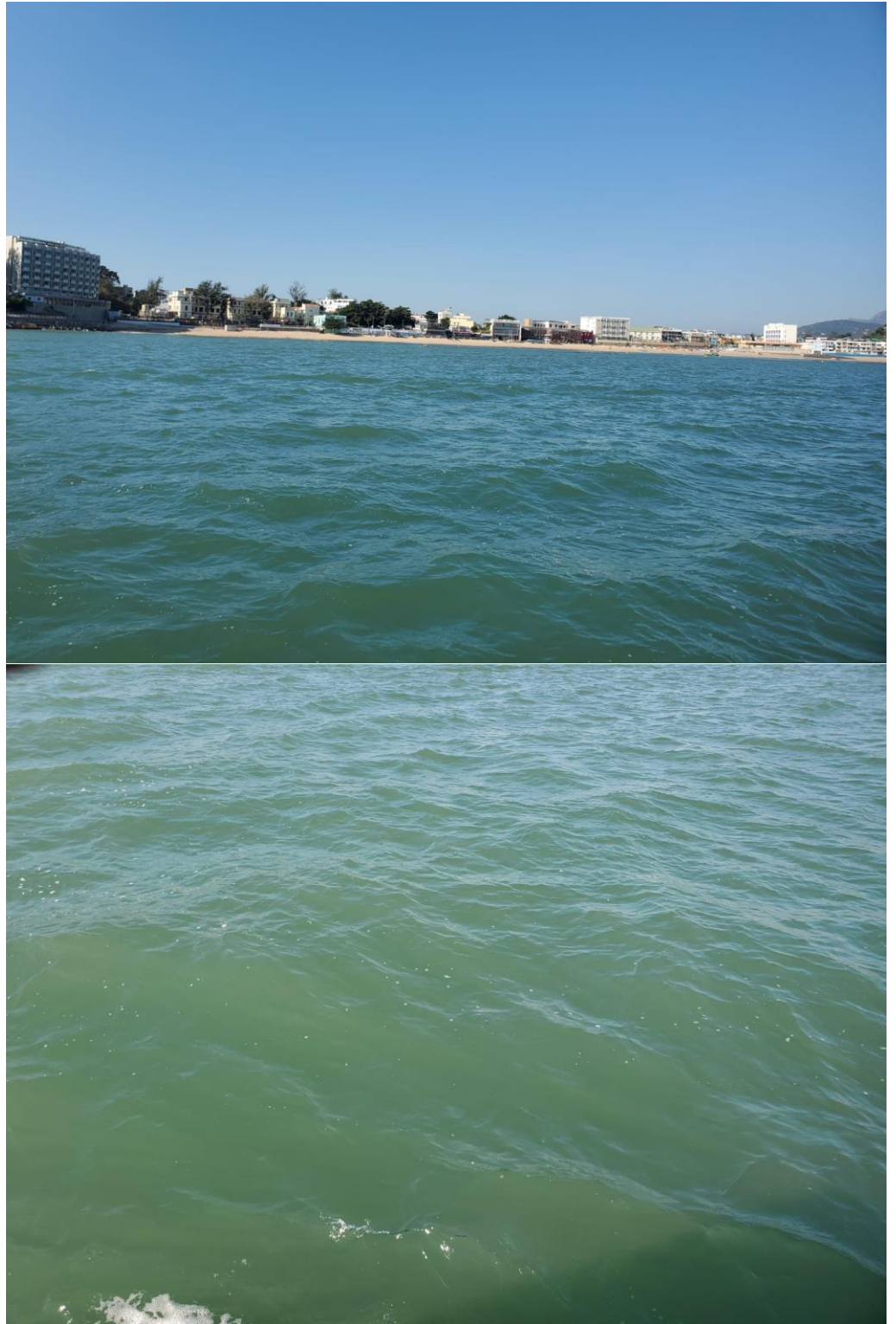
B4:



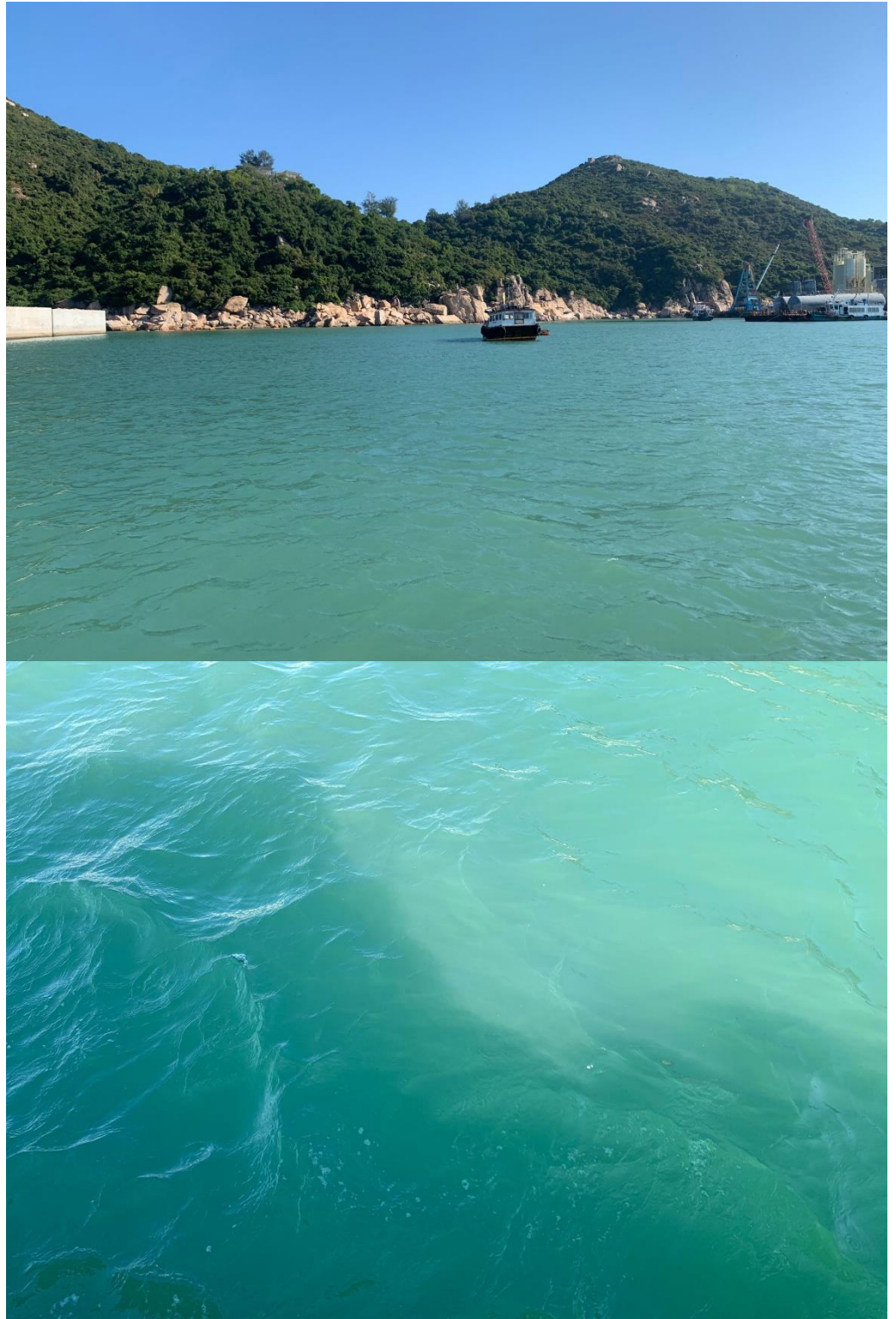
H1:



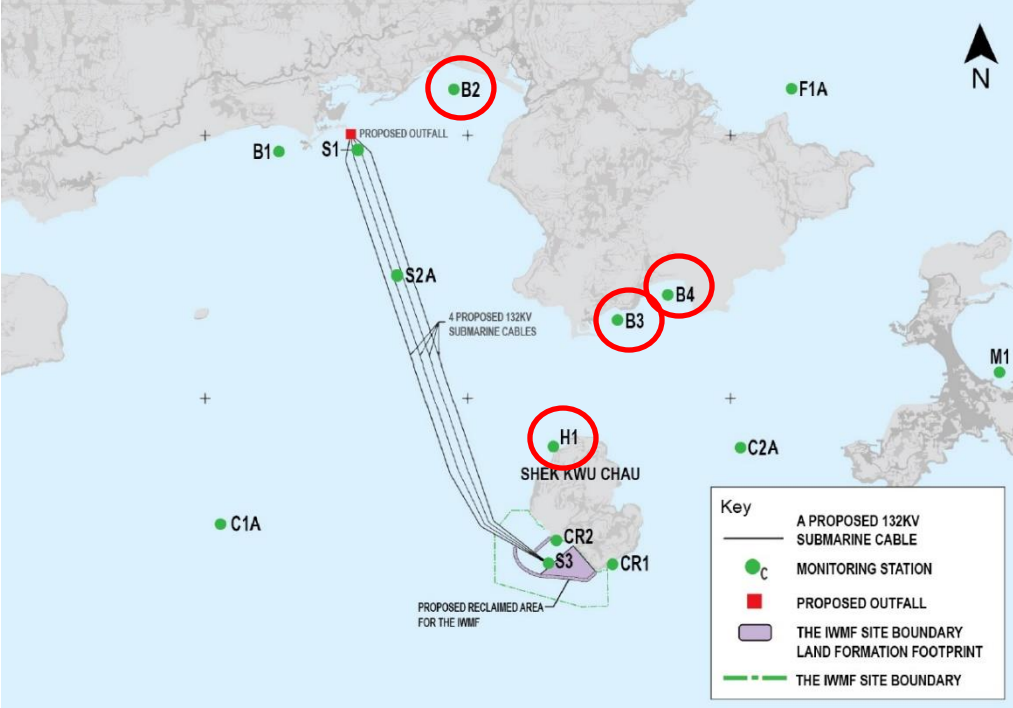
M1:




CR2:



Mid-Flood

<p>Monitoring Location</p>			
<p>Parameter</p>	<p>Suspended Solid (SS)</p>		
<p>Action & Limit Levels</p>	<p>Action Level $\geq 11.0 \text{ mg/L (120\% of C2A)}$</p>		<p>Limit Level $\geq 11.9 \text{ mg/L (130\% of C2A)}$</p>
<p>Measurement Level</p>	<p>Impact Station(s) of Exceedance</p> <p>16.5 mg/L (B2) 11.5 mg/L (B3) 12.5 mg/L (B4) 12.0 mg/L (H1)</p>	<p>Control Stations</p> <p>16.5 mg/L (C1A) 9.2 mg/L (C2A)</p>	<p>Impact Station(s) without Exceedance</p> <p>10.0 mg/L (B1) 8.3 mg/L (F1A) 9.5 mg/L (M1) 10.3 mg/L (CR1) 9.5 mg/L (CR2)</p>
<p>Possible reason for Action or Limit Level Non-compliance</p>	<p>Works scheduled on site on 29 Nov 2021 include installation of blockwork for marine access facility, landfilling works for below +6.00mPD, landfilling works for above +6.00mPD, installation of instrumentation, piling pre-drilling works, piling works, piling works for driven pile, piling works for pre-bored socketed H-pile and existing caisson extension and armour scour protection.</p> <p>Dominating sea current direction was found to be from Southeast to Northwest at waters around Shek Kwu Chau.</p> <p>Exceedance of action level was found at B3 and exceedances of limit level were found at B2, B4 and H1.</p> <p>B2, B3, B4, H1 are located at unrelated stream direction (neither upstream nor downstream, far away) to the works location, exceedances of these monitoring stations 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 fine during the sampling event.</p> <p>No major observation of improper site practices that could contribute to the increase of the suspended solids was recorded during the weekly inspection on 02 Nov 2021.</p> <p>After the investigation, the exceedances on 29 Nov 2021 at B2, B3, B4, H1 are deemed to be unrelated to the Project.</p>
<p>Monitoring photos of stations with exceedance</p>	<p>B2:</p> 

B3:



B4:

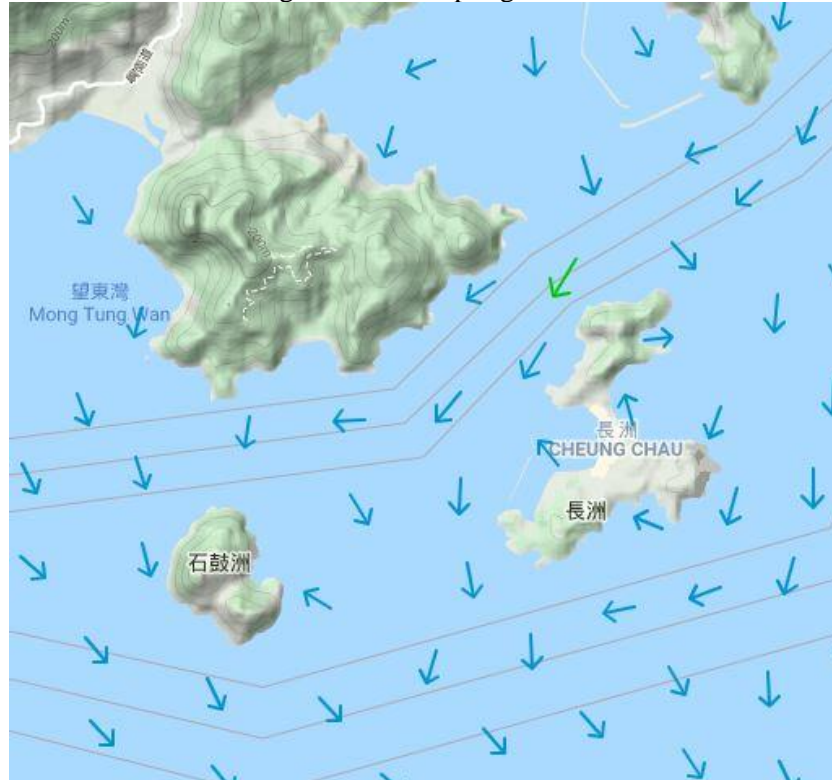


H1:



Remarks

Current direction during mid-ebb sampling on 29 Nov 2021:



Current direction during mid-flood sampling on 29 Nov 2021:



	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	Joe Ho								
Date	09 Dec 2021								