

Appendix N Exceedance Report

Statistical Summary of Exceedances in the Reporting Period

Water Quality (Regular Monitoring)			
Location	Action Level	Limit Level	Total
B1	3	1	4
B2	0	2	2
B3	2	2	4
B4	3	2	5
CR1	3	1	4
CR2	1	2	3
F1A	2	1	3
H1	1	3	4
S1	0	0	0
S2A	0	0	0
S3	0	0	0
M1	1	4	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	03 Feb 2022 (Lab result received on 10 Feb 2022)		
Time	12:25 – 15:55 (Mid-Ebb) 08:00 – 10:15 (Mid-Flood)		
Mid-Ebb			
Monitoring Location	<p>H1</p>		
Parameter	Suspended Solid (SS)		
Action & Limit Levels	Action Level		Limit Level
	≥ 17.8 mg/L (C1A of 120%)		≥ 19.3 mg/L (C1A of 130%)
Measurement Level	Impact Station(s) of Exceedance	Measurement Level	Impact Station(s) without Exceedance
	18.0 mg/L (H1)	14.8 mg/L (C1A) 16.0 mg/L (C2A)	14.5 mg/L (B1) 10.0 mg/L (B2) 13.3 mg/L (B3) 12.3 mg/L (B4) 12.3 mg/L (M1) 14.8 mg/L (F1A) 9.3 mg/L (CR1) 12.3 mg/L (CR2)
Possible reason for Action or Limit Level Non-compliance	<p>No site activity was recorded on 03 February 2022 due to public holiday (Chinese New Year Holiday).</p> <p>Dominant sea current direction was found to be from Northwest to Southeast at waters around Shek Kwu Chau.</p> <p>An exceedance of action level was found at H1.</p> <p>H1 is located at unrelated stream direction (neither upstream nor downstream) to the works location. The exceedance is deemed to be unrelated to the Project.</p>		

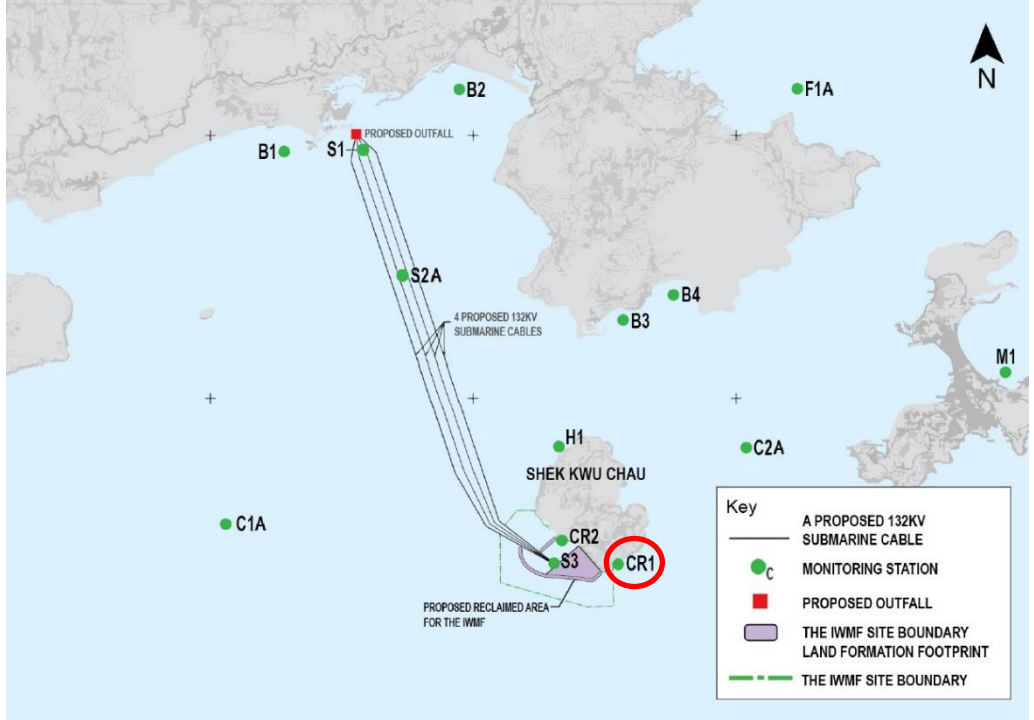
	<p>The installation of caisson No.19 was completed on 18 Mar 2021, the reclamation area was enclosed.</p> <p>According to the field observation by sampling team during sampling event, no silt plume was observed in the Project site and the weather was overcast during the sampling event.</p> <p>No major observation of improper site practices that contributed to the increase of the suspended solids was recorded during the weekly inspection on 31 Jan 2022.</p> <p>After the investigation, the exceedance on 03 Feb 2022 at H1 is deemed to be unrelated to the Project.</p>
--	--

Monitoring photos of
stations with exceedance

H1:



Mid-Flood

<p>Monitoring Location</p>	<p>CR1</p>  <p>The map shows the Shek Kwu Chau area with various monitoring stations marked with green dots. A red square indicates the proposed outfall. Four blue lines represent the proposed 132KV submarine cables. A purple shaded area shows the IWMF site boundary, and a green dashed line shows the IWMF site footprint. A red circle highlights monitoring station CR1. A north arrow is located in the top right corner.</p>		
<p>Parameter</p>	<p>Suspended Solid (SS)</p>		
<p>Action & Limit Levels</p>	<p>Action Level ≥ 16.4 mg/L (120% of C2A)</p>		<p>Limit Level ≥ 17.8 mg/L (130% of C2A)</p>
<p>Measurement Level</p>	<p>Impact Station(s) of Exceedance 17.5 mg/L (CR1)</p>	<p>Control Stations 10.7 mg/L (C1A) 13.7 mg/L (C2A)</p>	<p>Impact Station(s) without Exceedance 6.5 mg/L (B1) 9.3 mg/L (B2) 8.8 mg/L (B3) 11.8 mg/L (B4) 7.7 mg/L (F1A) 12.8 mg/L (H1) 12.8 mg/L (M1) 13.0 mg/L (CR2)</p>
<p>Possible reason for Action or Limit Level Non-compliance</p>	<p>No site activity was recorded 03 February 2022 due to public holiday (Chinese New Year Holiday).</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 CR1.</p> <p>CR1 is located close to the works location within the Project site while no marine work was conducted on 03 Feb 2022.</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 inspection on 31 Jan 2022.</p> <p>After the investigation, the exceedance on 03 Feb 2022 at CR1 is deemed to be unrelated to the Project.</p>
--	--

Monitoring photos of
stations with exceedance

CR1:

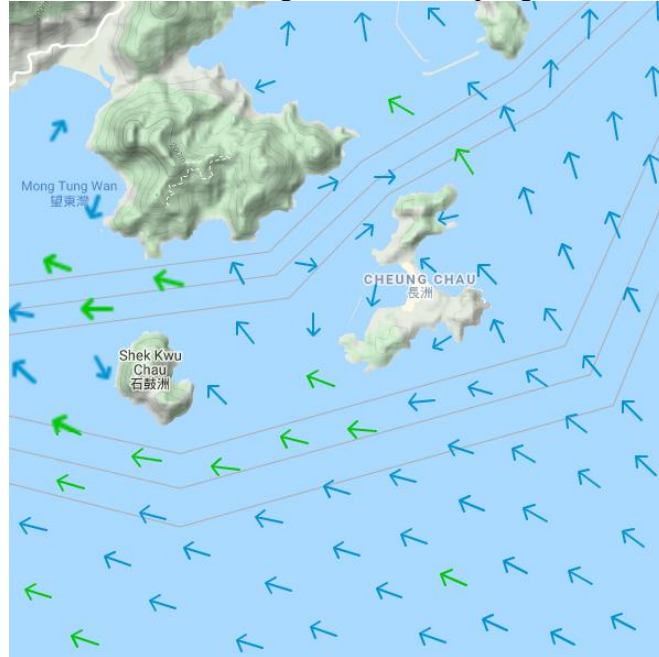


Remarks

Current direction during mid-ebb sampling on 03 Feb 2022:



Current direction during mid-flood sampling on 03 Feb 2022:



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

Prepared by Jack Chow

Date 16 Feb 2022

Incident Report on Action Level or Limit Level Non-compliance

Project	Integrated Waste Management Facilities, Phase 1		
Date	05 Feb 2022 (Lab result received on 17 Feb 2022)		
Time	08:09 – 11:39 (Mid-Flood)		
Monitoring Location	Mid-Flood F1A		
	<p>The map shows the Shek Kwu Chau area with various monitoring stations marked with green dots: B1, B2, B3, B4, C1A, C2A, H1, M1, CR1, CR2, CR3, S1, S2A, and S3. A red square indicates the proposed outfall. Four blue lines represent the proposed 132KV submarine cables. A purple shaded area shows the IWMF site boundary, and a green dashed line shows the IWMF site boundary footprint. A north arrow is present in the top right corner.</p>		
Parameter	Suspended Solid (SS)		
Action & Limit Levels	Action Level		Limit Level
	≥ 10.0 mg/L (C2A of 120%)		≥ 10.8 mg/L (C2A of 130%)
Measurement Level	Impact Station(s) of Exceedance	Control Stations	Impact Station(s) without Exceedance
	10.2 mg/L (F1A)	9.2 mg/L (C1A) 8.3 mg/L (C2A)	8.3 mg/L (B1) 5.0 mg/L (B2) 4.3 mg/L (B3) 3.3 mg/L (B4) 6.8 mg/L (H1) 5.5 mg/L (M1) 6.0 mg/L (CR1) 4.5 mg/L (CR2)
Possible reason for Action or Limit Level Non-compliance	<p>Works scheduled on site on 05 Feb 2022 include infilling of caisson, laying armour rock at Breakwater B CH 220 – CH 230, leveling of underlayer rock at Caisson 52, installation of blockwork for marine access facility, landfilling works for below +6.00mPD, landfilling works for above +6.00mPD, piling pre-drilling works, piling works, piling works for pre-bored socketed H-pile, blockwork seawall and existing caisson extension.</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 F1A.</p>		

	<p>F1A is located at unrelated stream direction (neither upstream nor downstream, far away) to the works location. The exceedance at this monitoring station 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 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 inspection on 31 Jan and 08 Feb 2022.</p> <p>After the investigation, the exceedance on 05 Feb 2022 at F1A is deemed to be unrelated to the Project.</p>
--	---

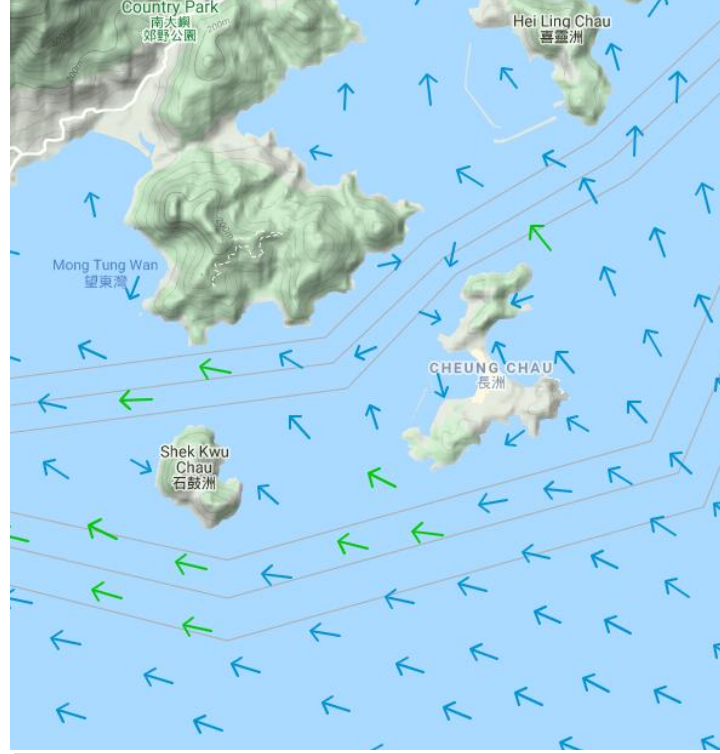
Monitoring photos of
stations with exceedance

F1A:



Remarks

Current direction during mid-flood sampling on 05 Feb 2022:



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 Jack Chow

Date 22 Feb 2022

Incident Report on Action Level or Limit Level Non-compliance

Project	Integrated Waste Management Facilities, Phase 1		
Date	09 Feb 2022 (Lab result received on 16 Feb 2022)		
Time	16:25 – 19:00 (Mid-Ebb) 10:17 – 13:47 (Mid-Flood)		
Mid-Ebb			
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	Measurement Level	Impact Station(s) without Exceedance
	8.5 mg/L (B1)	5.3 mg/L (C1A) 6.5 mg/L (C2A)	5.0 mg/L (B2) 6.0 mg/L (B3) 5.3 mg/L (B4) 7.8 mg/L (M1) 6.2 mg/L (H1) 5.5 mg/L (F1A) 5.5 mg/L (CR1) 7.0 mg/L (CR2)
Possible reason for Action or Limit Level Non-compliance	<p>Works scheduled on site on 09 Feb 2022 include infilling of caisson, leveling of armour rock at Caisson A2 / A3, inspection works of underlayer rock at Caisson 52, installation of blockwork for marine access facility, landfilling works for below +6.00mPD, landfilling works for above +6.00mPD, piling pre-drilling works, piling works, piling works for driven pile, piling works for pre-bored socketed H-pile, blockwork seawall and existing caisson extension.</p> <p>Dominant sea current direction was found to be from Northwest to Southeast at waters around Shek Kwu Chau.</p> <p>An exceedance of action level was found at B1.</p>		

	<p>B1 is located at unrelated stream direction (neither upstream nor downstream, far away) to the works location. The exceedances 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 inspection on 08 Feb and 17 Feb 2022.</p> <p>After the investigation, the exceedance on 09 Feb 2022 at B1 is deemed to be unrelated to the Project.</p>
--	--

Monitoring photos of
stations with exceedance

B1:



Mid-Flood			
Monitoring Location	B2, M1 		
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
	10.3 mg/L (B2) 9.0 mg/L (M1)	3.8 mg/L (C1A) 4.5 mg/L (C2A)	7.8 mg/L (B1) 6.3 mg/L (B3) 5.8 mg/L (B4) 4.3 mg/L (F1A) 5.0 mg/L (H1) 7.0 mg/L (CR1) 6.3 mg/L (CR2)
Possible reason for Action or Limit Level Non-compliance	<p>Works scheduled on site on 09 Feb 2022 include infilling of caisson, leveling of armour rock at Caisson A2 / A3, inspection works of underlayer rock at Caisson 52, installation of blockwork for marine access facility, landfilling works for below +6.00mPD, landfilling works for above +6.00mPD, piling pre-drilling works, piling works, piling works for driven pile, piling works for pre-bored socketed H-pile, blockwork seawall and existing caisson extension.</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 M1 and an exceedance of limit level was found at B2.</p> <p>B2 and M1 are located at unrelated stream direction (neither upstream nor downstream, far away) to the works location. The exceedances 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 inspection on 08 Feb and 17 Feb 2022.</p> <p>After the investigation, the exceedances on 09 Feb 2022 at B2 and M1 are deemed to be unrelated to the Project.</p>
--	--

Monitoring photos of
stations with exceedance

B2:



M1:



Remarks

Current direction during mid-ebb sampling on 09 Feb 2022:



Current direction during mid-flood sampling on 09 Feb 2022:



Legend

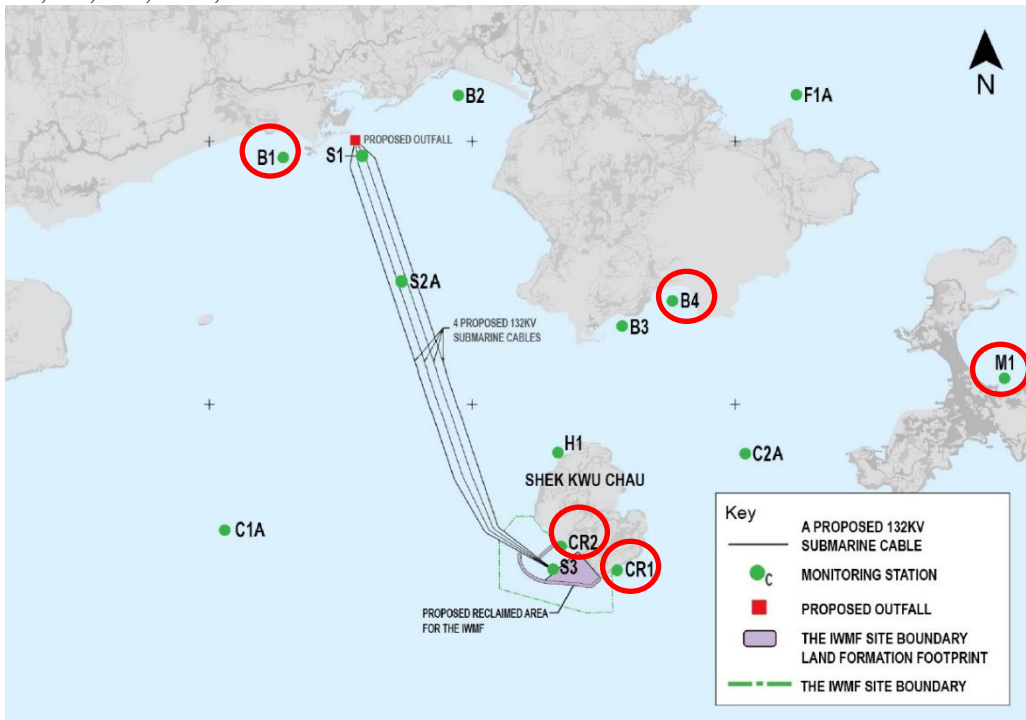
Speed (knot)	Speed (knot)
0-0.5	1.5-2.0
0.5-1.0	2.0-2.5
1.0-1.5	2.5 and above

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

Prepared by Jack Chow

Date 22 Feb 2022

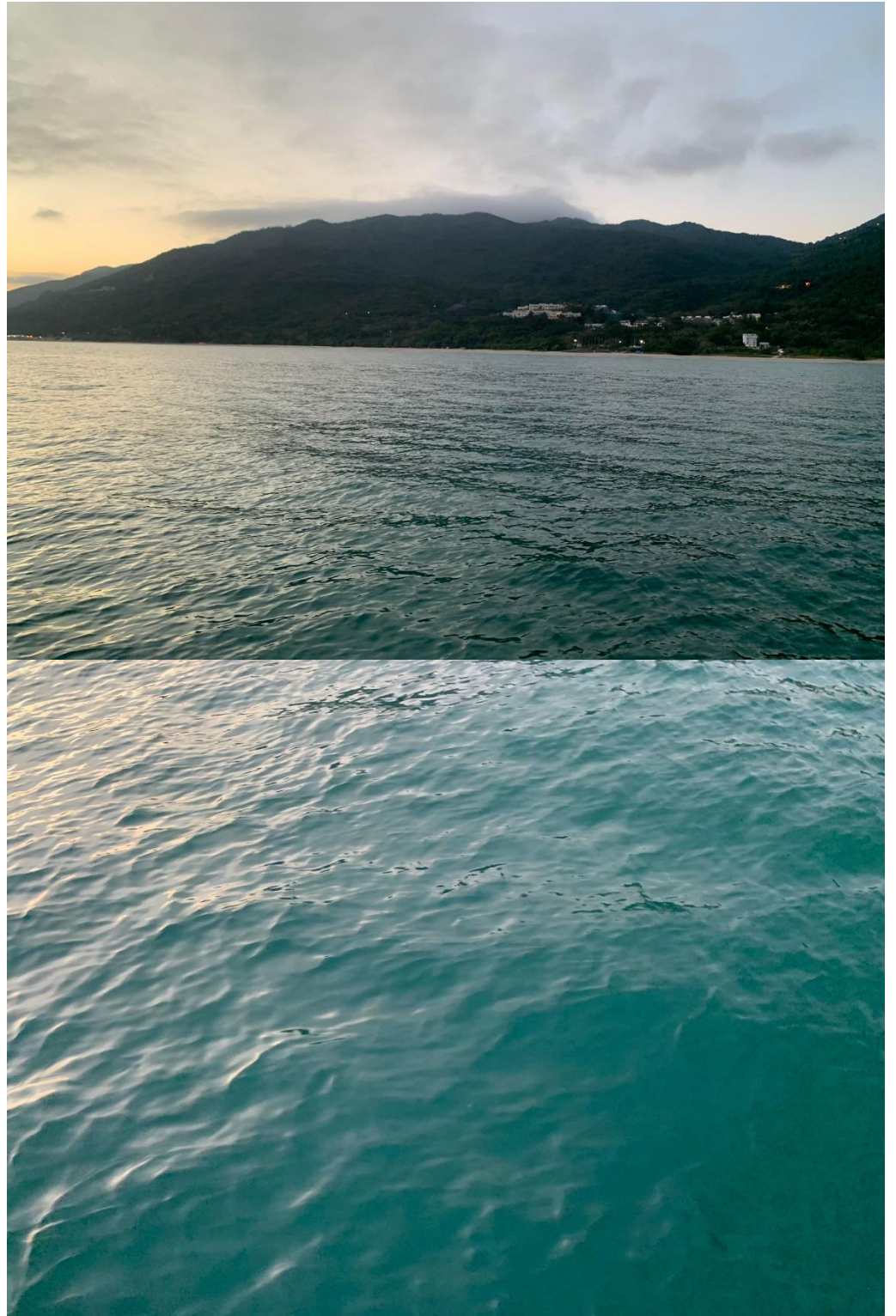
Incident Report on Action Level or Limit Level Non-compliance

Project	Integrated Waste Management Facilities, Phase 1		
Date	11 Feb 2022 (Lab result received on 18 Feb 2022)		
Time	18:03 – 19:00 (Mid-Ebb) 08:00 – 11:13 (Mid-Flood)		
Mid-Ebb			
Monitoring Location	B1, B4, M1, CR1, CR2 		
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	Measurement Level	Impact Station(s) without Exceedance
	9.5 mg/L (B1) 8.5 mg/L (B4) 10.0 mg/L (M1) 8.2 mg/L (CR1) 10.7 mg/L (CR2)	5.7 mg/L (C1A) 5.2 mg/L (C2A)	5.8 mg/L (B2) 6.5 mg/L (B3) 6.0 mg/L (H1) 6.0 mg/L (F1A)
Possible reason for Action or Limit Level Non-compliance	<p>Works scheduled on site on 11 Feb 2022 include infilling of caisson, caisson installation, leveling of underlayer rock at Breakwater A CH1000 – CH1050, landfilling works for below +6.00mPD, landfilling works for above +6.00mPD, piling pre-drilling works, piling works, piling works for driven pile, piling works for pre-bored socketed H-pile, blockwork seawall and existing caisson extension.</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 B1, B4 and CR1; exceedances of limit level were found at M1 and CR2.</p> <p>B1, B4 and M1 are located at unrelated stream direction (neither upstream nor downstream, far away) to the works location. Exceedances 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 11 Feb 2022.</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 inspection on 08 Feb and 17 Feb 2022.</p> <p>After the investigation, the exceedances on 11 Feb 2022 at B1, B4, M1, CR1 and CR2 are deemed to be unrelated to the Project.</p>
--	--

Monitoring photos of
stations with exceedance

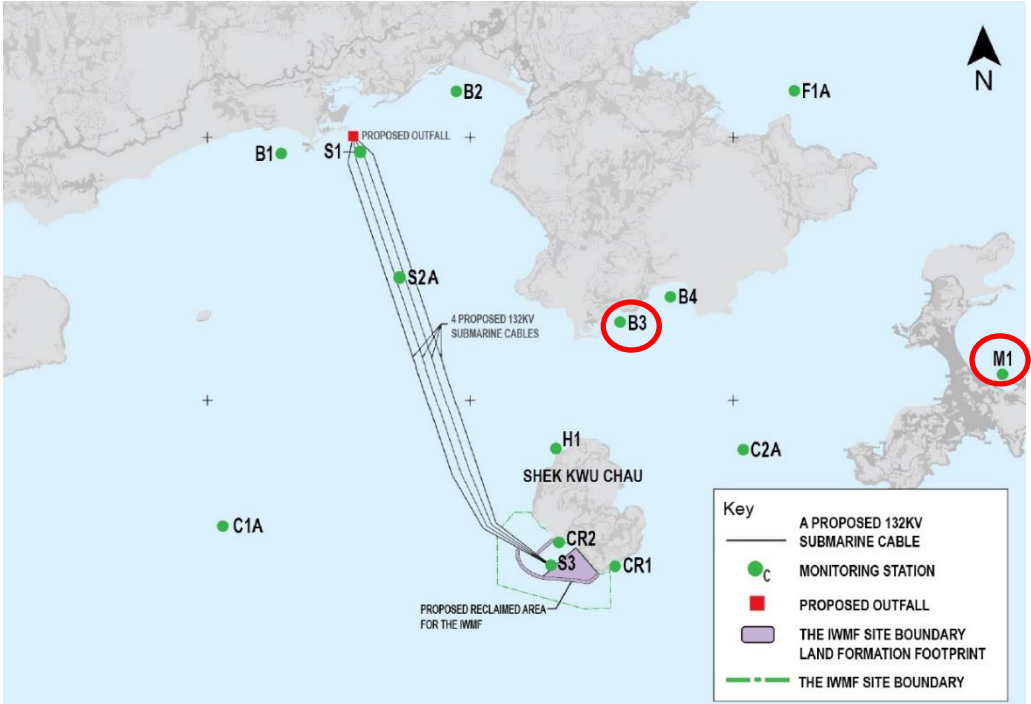
B1:



B4:
No clear photos were picked on site as the monitoring was carried out after sunset.

M1:

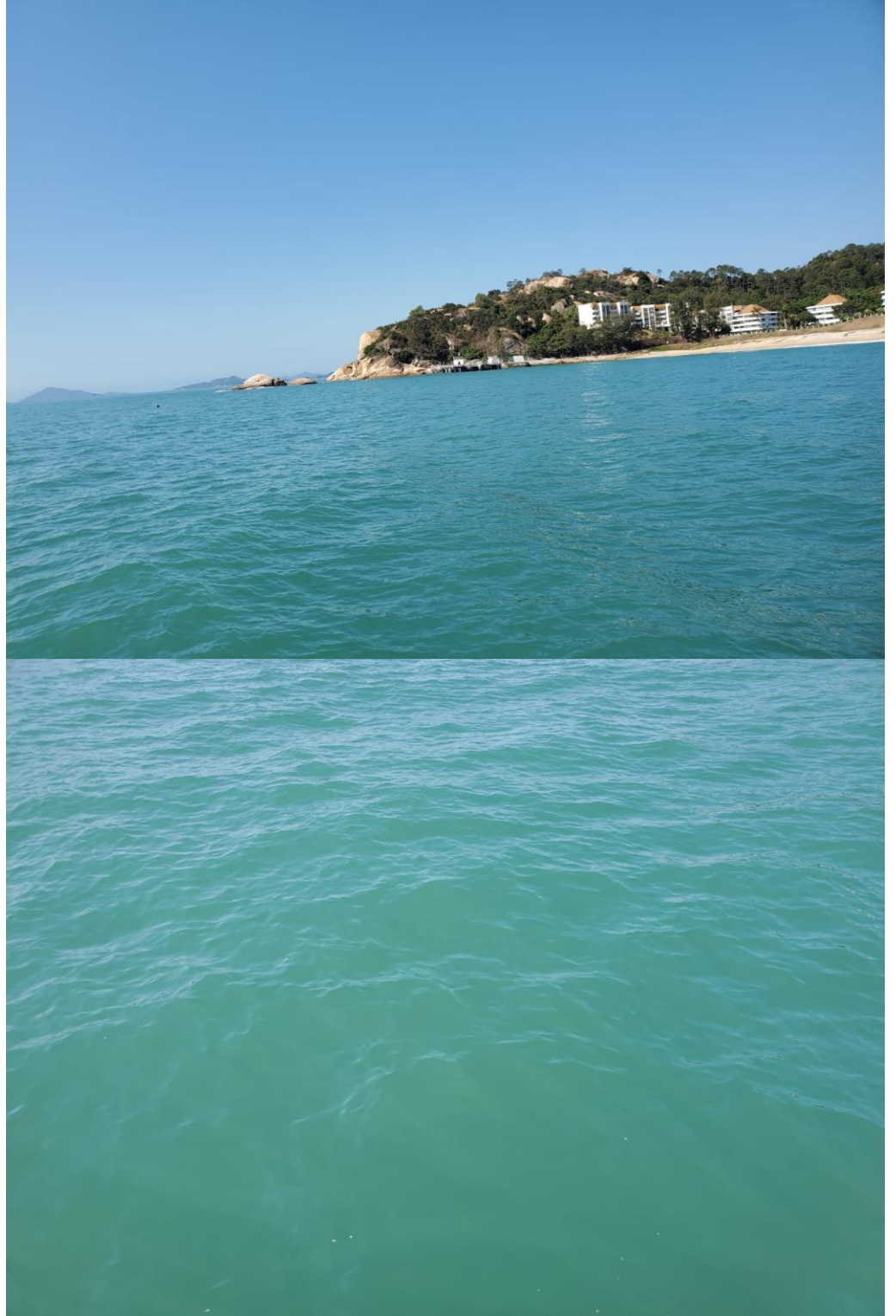


	<p>CR1: No clear photos were picked on site as the monitoring was carried out after sunset.</p> <p>CR2: No clear photos were picked on site as the monitoring was carried out after sunset.</p>		
Mid-Flood			
Monitoring Location	<p>B3, M1</p> 		
Parameter	Suspended Solid (SS)		
Action & Limit Levels	Action 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
	8.3 mg/L (B3) 12.5 mg/L (M1)	6.7 mg/L (C1A) 5.0 mg/L (C2A)	5.3 mg/L (B1) 5.0 mg/L (B2) 7.3 mg/L (B4) 6.7 mg/L (F1A) 7.2 mg/L (H1) 6.0 mg/L (CR1) 7.0 mg/L (CR2)
Possible reason for Action or Limit Level Non-compliance	<p>Works scheduled on site on 11 Feb 2022 include infilling of caisson, caisson installation, leveling of underlayer rock at Breakwater A CH1000 – CH1050, landfilling works for below +6.00mPD, landfilling works for above +6.00mPD, piling pre-drilling works, piling works, piling works for driven pile, piling works for pre-bored socketed H-pile, blockwork seawall and existing caisson extension.</p> <p>Dominant sea current direction was found to be from Southeast to Northwest at waters around Shek Kwu Chau.</p>		

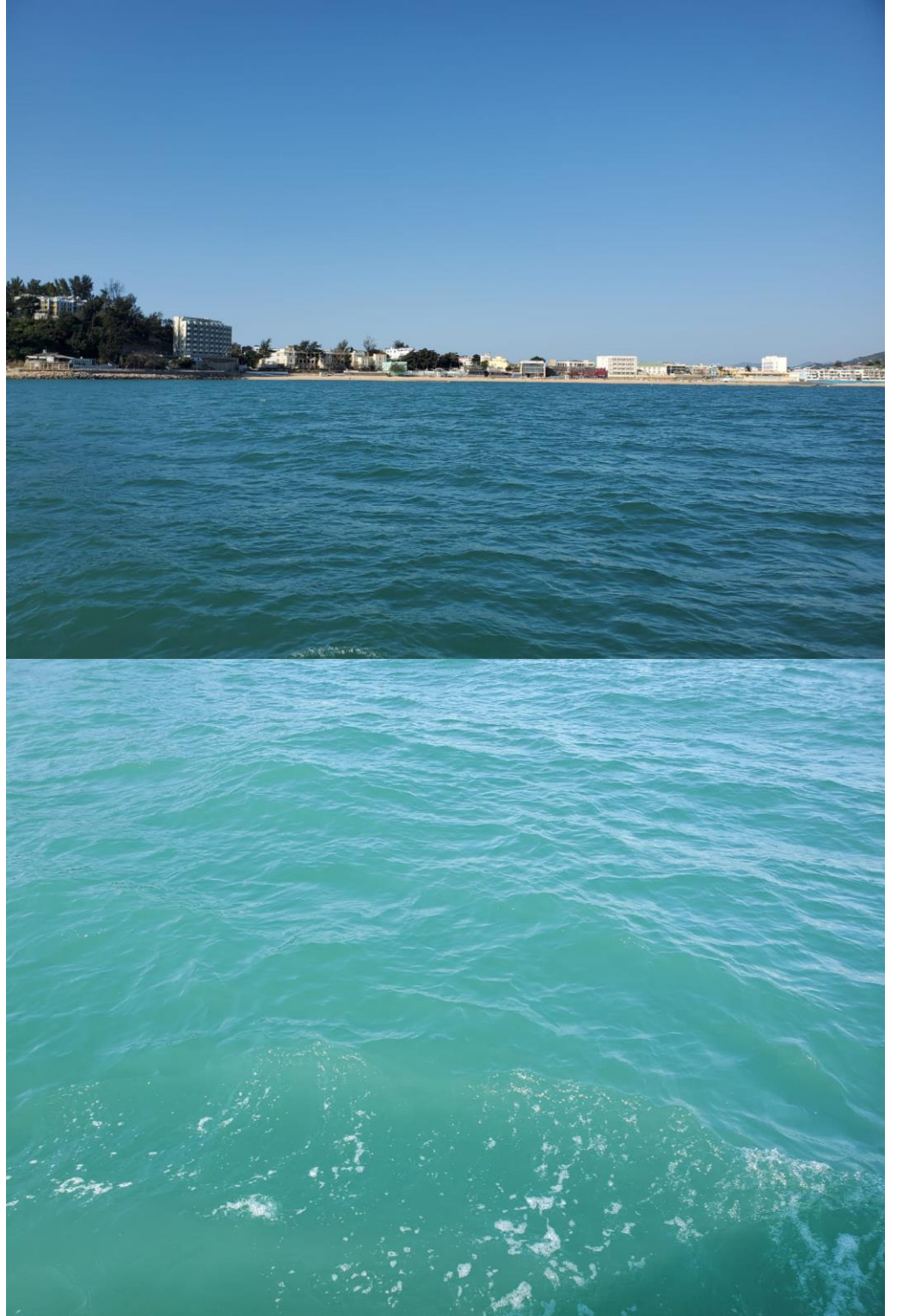
	<p>An exceedance of action level was found at B3 and an exceedance of limit level was found at M1.</p> <p>B3 and M1 are located at unrelated stream direction (neither upstream nor downstream, far away) to the works location. The exceedances are deemed to be unrelated to the Project.</p> <p>The installation 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 contributed to the increase of the suspended solids was recorded during the weekly inspection on 08 Feb and 17 Feb 2022.</p> <p>After the investigation, the exceedances on 11 Feb 2022 at B3 and M1 are deemed to be unrelated to the Project.</p>
--	--

Monitoring photos of
stations with exceedance

B3:

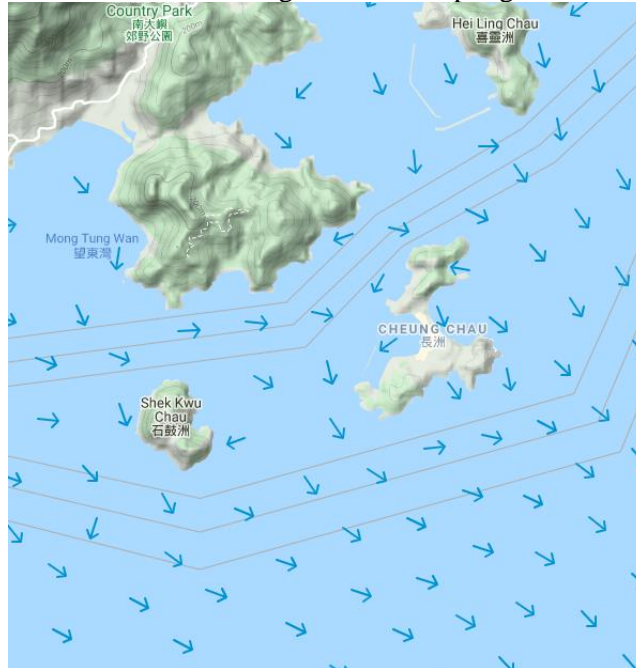


M1:



Remarks

Current direction during mid-ebb sampling on 11 Feb 2022:



Current direction during mid-flood sampling on 11 Feb 2022:



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 Jack Chow

Date 22 Feb 2022

Incident Report on Action Level or Limit Level Non-compliance

Project	Integrated Waste Management Facilities, Phase 1		
Date	16 Feb 2022 (Lab result received on 23 Feb 2022)		
Time	11:05 – 14:35 (Mid-Ebb)		
Monitoring Location	Mid-Ebb F1A, M1, CR1		
Parameter	Suspended Solid (SS)		
Action & Limit Levels	Action Level		Limit Level
	≥ 14.6 mg/L (120% of C1A)		≥ 15.8 mg/L (130% of C1A)
Measurement Level	Impact Station(s) of Exceedance	Control Stations	Impact Station(s) without Exceedance
	26.0 mg/L (F1A) 18.2 mg/L (M1) 19.2 mg/L (CR1)	12.2 mg/L (C1A) 20.8 mg/L (C2A)	12.3 mg/L (B1) 13.5 mg/L (B2) 12.5 mg/L (B3) 11.3 mg/L (B4) 14.5 mg/L (H1) 13.8 mg/L (CR2)
Possible reason for Action or Limit Level Non-compliance	<p>Works scheduled on site on 16 Feb 2022 include infilling of caisson, installation of concrete blocks at Seawall B Caissons 8 and 9, leveling of scour apron at Breakwater A CH780 - CH 810, landfilling works for below +6.00mPD, landfilling works for above +6.00mPD, piling pre-drilling works, piling works, piling works for driven pile, piling works for pre-bored socketed H-pile, blockwork seawall and existing caisson extension.</p> <p>Dominant 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 F1A, M1 and CR1.</p>		

	<p>F1A and M1 are located at unrelated stream direction (neither upstream nor downstream, far away) to the works location. Exceedances at 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 16 Feb 2022.</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 inspection on 17 Feb 2022.</p> <p>After the investigation, the exceedances on 16 Feb 2022 at F1A, M1 and CR1 are deemed to be unrelated to the Project.</p>
--	---

Monitoring photos of
stations with exceedance

F1A:

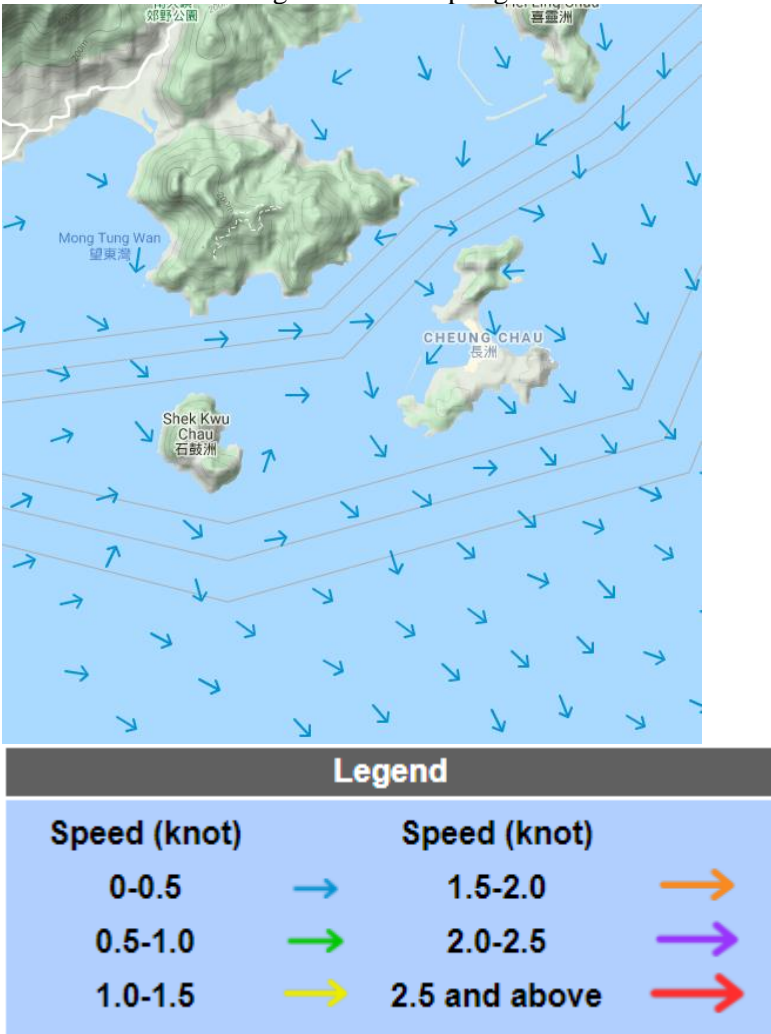


M1:

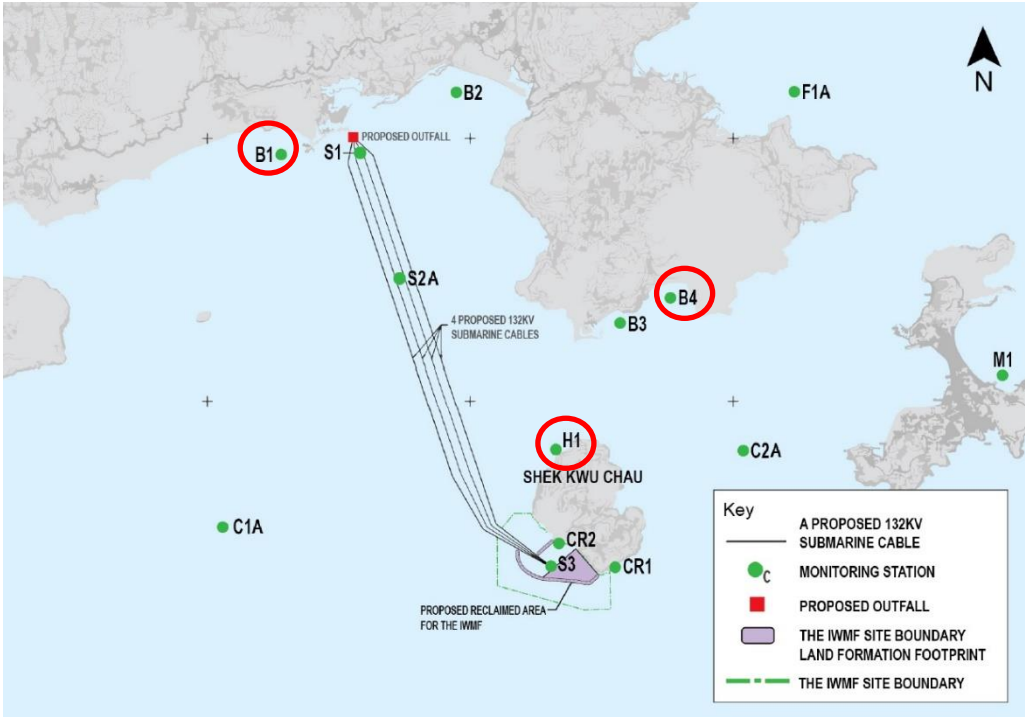


CR1:



<p>Remarks</p>	<p>Current direction during mid-ebb sampling on 16 Feb 2022:</p>  <p>(Sourced from http://current.hydro.gov.hk/en/map.html)</p>
<p>Prepared by</p>	<p>Jack Chow</p>
<p>Date</p>	<p>28 Feb 2022</p>

Incident Report on Action Level or Limit Level Non-compliance

Project	Integrated Waste Management Facilities, Phase 1		
Date	18 Feb 2022 (Lab result received on 24 Feb 2022)		
Time	11:45 – 15:15 (Mid-Ebb) 08:00 – 10:42 (Mid-Flood)		
Mid-Ebb			
Monitoring Location	B1, B4, 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	Measurement Level	Impact Station(s) without Exceedance
	10.8 mg/L (B1) 15.0 mg/L (B4) 13.5 mg/L (H1)	6.5 mg/L (C1A) 6.7 mg/L (C2A)	6.5 mg/L (B2) 5.0 mg/L (B3) 5.3 mg/L (F1A) 6.2 mg/L (M1) 6.0 mg/L (CR1) 5.8 mg/L (CR2)
Possible reason for Action or Limit Level Non-compliance	Works scheduled on site on 18 Feb 2022 include installation of concrete blocks at Seawall B Caisson 9, inspection works for underlayer rock at Caisson 53K, landfilling works for below +6.00mPD, landfilling works for above +6.00mPD, piling pre-drilling works, piling works, piling works for driven pile, piling works for pre-bored socketed H-pile, blockwork seawall and existing caisson extension. Dominant sea current direction was found to be from Northwest to Southeast at waters around Shek Kwu Chau. Exceedances of Limit level were found at B1, B4 and H1.		

	<p>B1, B4 and H1 are located at unrelated stream direction (neither upstream nor downstream, far away) to the works location. Exceedances 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 cloudy 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 inspection on 17 Feb and 23 Feb 2022.</p> <p>After the investigation, the exceedances on 18 Feb 2022 at B1, B4 and H1 are deemed to be unrelated to the Project.</p>
--	---

Monitoring photos of
stations with exceedance

B1:

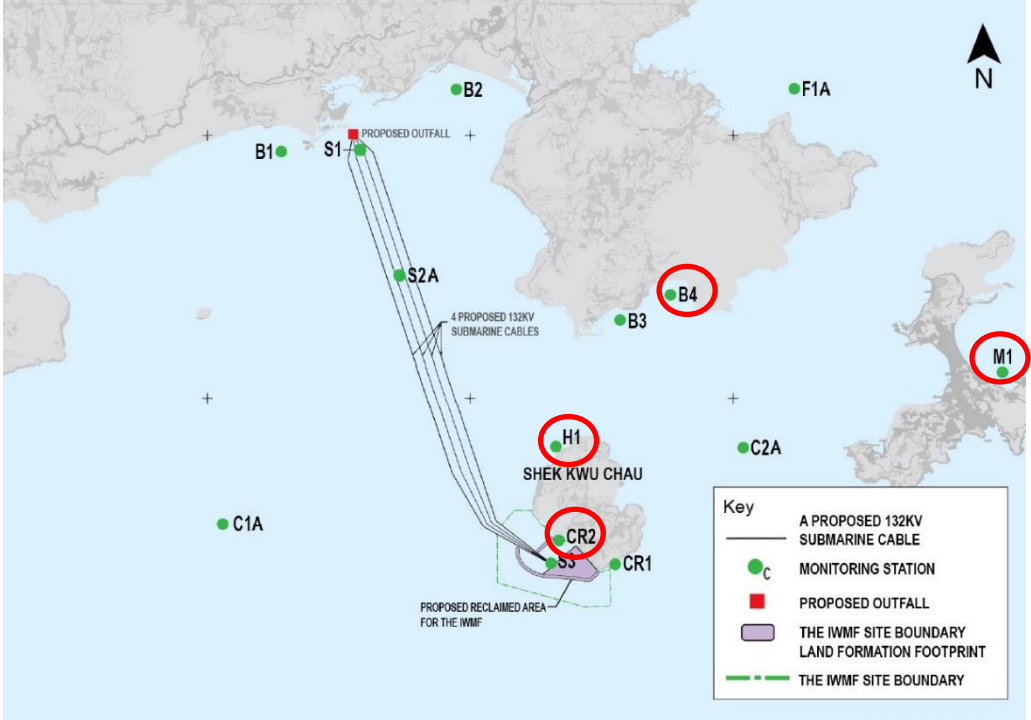


B4:



H1:



Mid-Flood			
Monitoring Location	B4, H1, M1, CR2 		
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
	8.8 mg/L (B4) 15.3 mg/L (H1) 12.8 mg/L (M1) 11.8 mg/L (CR2)	17.2 mg/L (C1A) 6.5 mg/L (C2A)	5.3 mg/L (B1) 6.3 mg/L (B2) 5.5 mg/L (B3) 6.2 mg/L (F1A) 7.3 mg/L (CR1)
Possible reason for Action or Limit Level Non-compliance	<p>Works scheduled on site on 18 Feb 2022 include installation of concrete blocks at Seawall B Caisson 9, inspection works for underlayer rock at Caisson 53K, landfilling works for below +6.00mPD, landfilling works for above +6.00mPD, piling pre-drilling works, piling works, piling works for driven pile, piling works for pre-bored socketed H-pile, blockwork seawall and existing caisson extension.</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 B4 and exceedances of limit level were found at H1, M1 and CR2.</p> <p>B4, H1 and M1 are located at unrelated stream direction (neither upstream nor downstream, far away) to the works location. The exceedances 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 18 Feb 2022.</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 inspection on 17 Feb and 23 Feb 2022.</p> <p>After the investigation, the exceedances on 18 Feb 2022 at B4, H1, M1 and CR2 are deemed to be unrelated to the Project.</p>
--	---

Monitoring photos of
stations with exceedance

B4:



H1:



M1:



CR2:



Remarks

Current direction during mid-ebb sampling on 18 Feb 2022:



Current direction during mid-flood sampling on 18 Feb 2022:



Legend

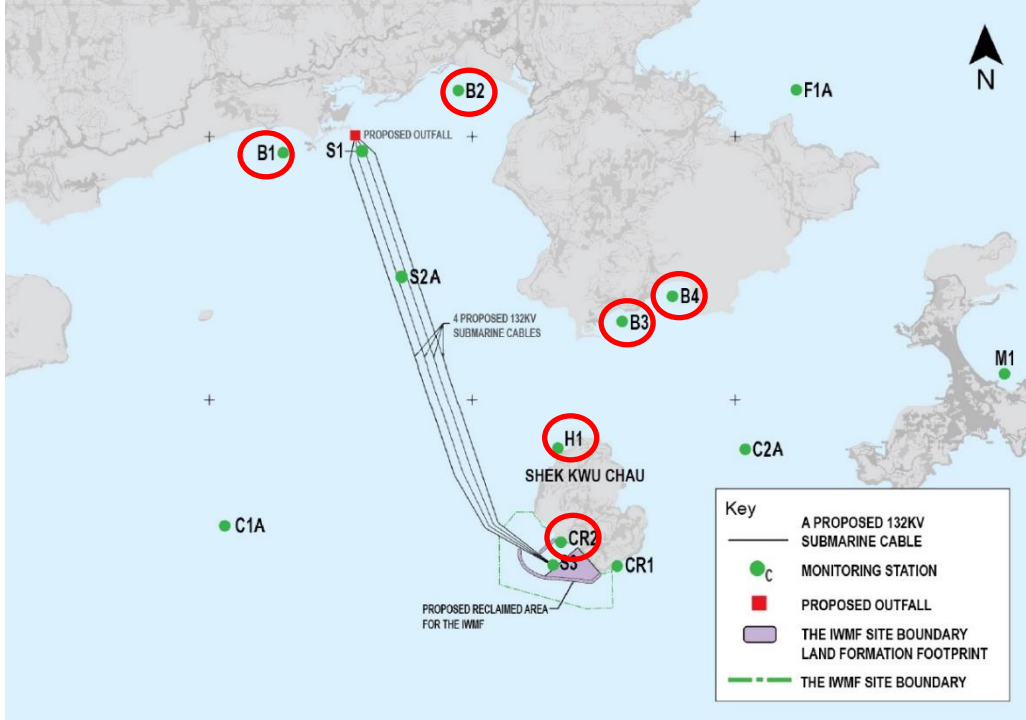
Speed (knot)		Speed (knot)	
0-0.5		1.5-2.0	
0.5-1.0		2.0-2.5	
1.0-1.5		2.5 and above	

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

Prepared by Jack Chow

Date 28 Feb 2022

Incident Report on Action Level or Limit Level Non-compliance

Project	Integrated Waste Management Facilities, Phase 1		
Date	21 Feb 2022 (Lab result received on 26 Feb 2022)		
Time	08:00 – 11:10 (Mid-Flood)		
Monitoring Location	Mid-Flood B1, B2, B3, B4, H1, CR2 		
Parameter	Suspended Solid (SS)		
Action & Limit Levels	Action Level		Limit Level
	≥ 19.6 mg/L (C2A of 120%)		≥ 21.2 mg/L (C2A of 130%)
Measurement Level	Impact Station(s) of Exceedance	Control Stations	Impact Station(s) without Exceedance
	20.3 mg/L (B1) 21.3 mg/L (B2) 23.0 mg/L (B3) 30.5 mg/L (B4) 22.3 mg/L (H1) 20.3 mg/L (CR2)	16.5 mg/L (C1A) 16.3 mg/L (C2A)	15.0 mg/L (F1A) 16.3 mg/L (M1) 16.0 mg/L (CR1)
Possible reason for Action or Limit Level Non-compliance	<p>Works scheduled on site on 21 Feb 2022 include infilling of caisson, received armour and underlayer rockfill from barge 振東 988, installation of caissons, piling pre-drilling works, piling works, piling works for driven pile, piling works for pre-bored socketed H-pile, blockwork seawall and existing caisson extension.</p> <p>Dominant 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 and CR2; exceedances of limit level were found at B2, B3, B4 and H1.</p> <p>B1, B2, B3, B4 and H1 are located at unrelated stream direction (neither upstream nor downstream, far away) to the works location. Exceedances 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 21 Feb 2022.</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 rainy 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 inspection on 23 Feb 2022.</p> <p>After the investigation, the exceedances on 21 Feb 2022 at B1, B2, B3, B4, H1 and CR2 are deemed to be unrelated to the Project.</p>
--	--

Monitoring photos of
stations with exceedance

B1:



B2:



B3:



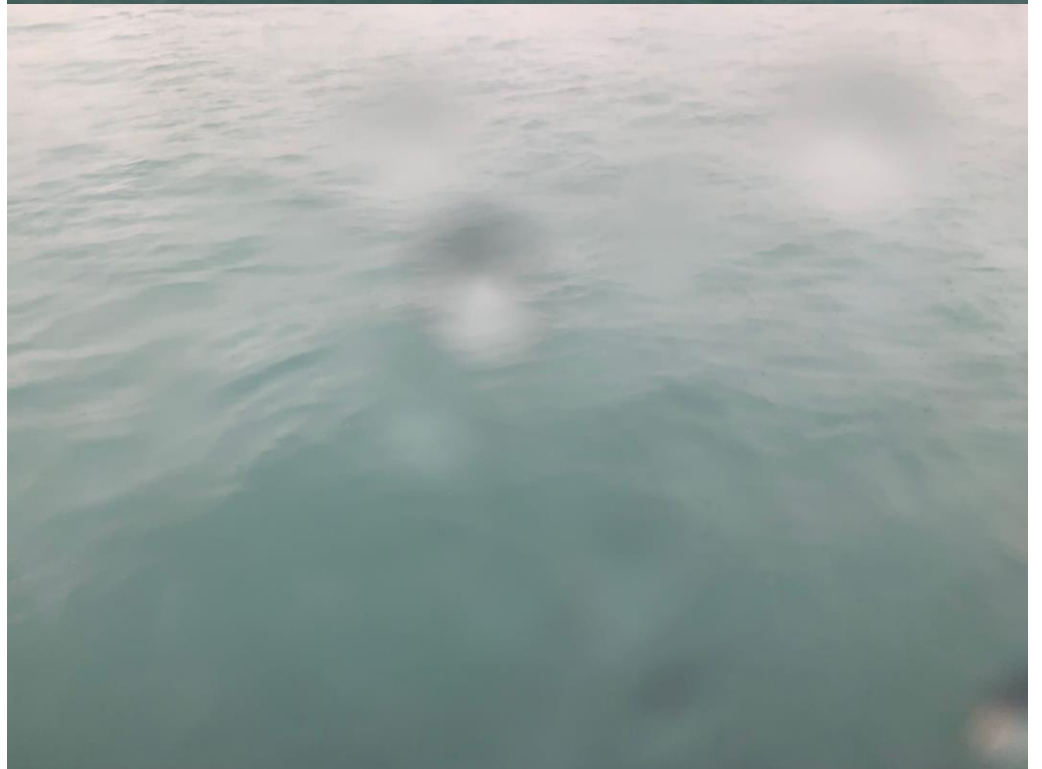
B4:

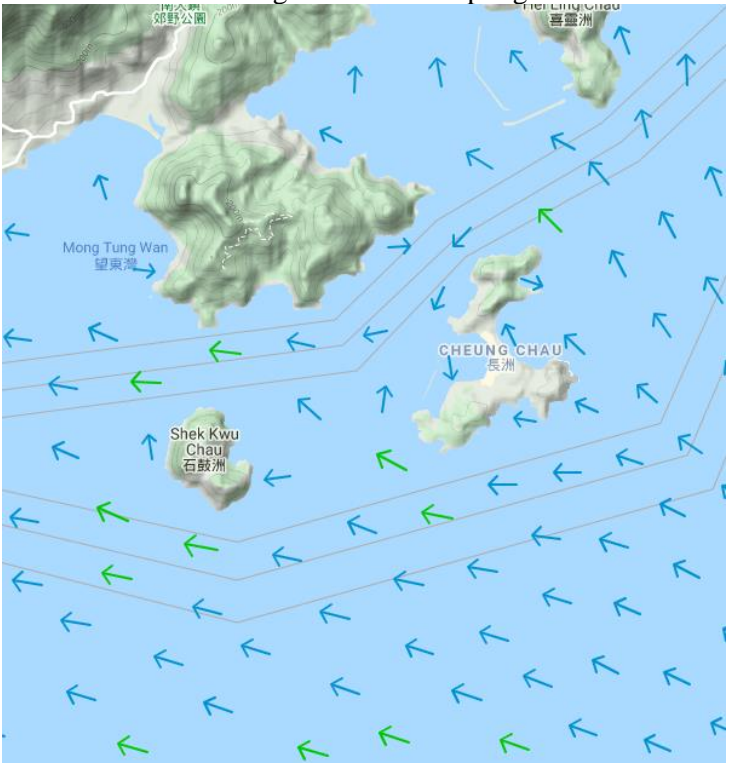




















H1:



CR2:



<p>Remarks</p>	<p>Current direction during mid-flood sampling on 21 Feb 2022:</p>  <table border="1" data-bbox="486 985 1260 1265"> <thead> <tr> <th colspan="4">Legend</th> </tr> <tr> <th>Speed (knot)</th> <th></th> <th>Speed (knot)</th> <th></th> </tr> </thead> <tbody> <tr> <td>0-0.5</td> <td></td> <td>1.5-2.0</td> <td></td> </tr> <tr> <td>0.5-1.0</td> <td></td> <td>2.0-2.5</td> <td></td> </tr> <tr> <td>1.0-1.5</td> <td></td> <td>2.5 and above</td> <td></td> </tr> </tbody> </table> <p>(Sourced from http://current.hydro.gov.hk/en/map.html)</p>	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	
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																			
<p>Prepared by</p>	<p>Joe Ho</p>																				
<p>Date</p>	<p>07 March 2022</p>																				

Incident Report on Action Level or Limit Level Non-compliance

Project	Integrated Waste Management Facilities, Phase 1		
Date	23 Feb 2022 (Lab result received on 01 Mar 2022)		
Time	08:43 – 12:13 (Mid-Flood)		
Mid-Flood			
Monitoring Location	B3, B4, F1A, CR1 		
Parameter	Suspended Solid (SS)		
Action & Limit Levels	Action Level		Limit Level
	≥ 12.8 mg/L (C2A of 120%)		≥ 13.9 mg/L (C2A of 130%)
Measurement Level	Impact Station(s) of Exceedance	Control Stations	Impact Station(s) without Exceedance
	15.0 mg/L (B3) 13.8 mg/L (B4) 13.7 mg/L (F1A) 13.5 mg/L (CR1)	15.0 mg/L (C1A) 10.7 mg/L (C2A)	11.3 mg/L (B1) 8.8 mg/L (B2) 9.3 mg/L (M1) 10.2 mg/L (H1) 11.2 mg/L (CR2)
Possible reason for Action or Limit Level Non-compliance	<p>Works scheduled on site on 23 Feb 2022 include infilling of caisson, received armour and underlayer rockfill from Barge 振東 988, installation of caissons, landfilling works for below +6.00mPD, landfilling works for above +6.00mPD, piling pre-drilling works, piling works, piling works for driven pile, piling works for pre-bored socketed H-pile, blockwork seawall and existing caisson extension.</p> <p>Dominant 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 CR1 and an exceedance of limit level was found at B3.</p> <p>B3, B4 and F1A are located at unrelated stream direction (neither upstream nor downstream, far away) to the works location. Exceedances 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 23 Feb 2022.</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 inspection on 23 Feb 2022.</p> <p>After the investigation, the exceedances on 23 Feb 2022 at B3, B4, F1A and CR1 are deemed to be unrelated to the Project.</p>
--	--

Monitoring photos of
stations with exceedance

B3:



B4:



F1A:



CR1:



Remarks

Current direction during mid-flood sampling on 23 Feb 2022:



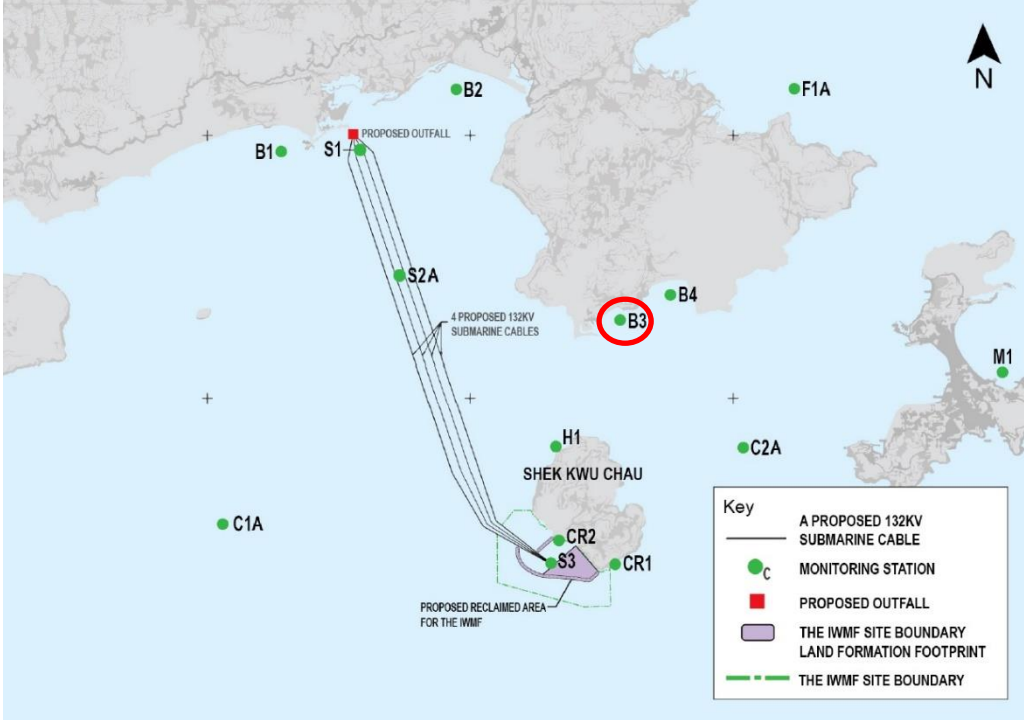
Legend			
Speed (knot)		Speed (knot)	
0-0.5		1.5-2.0	
0.5-1.0		2.0-2.5	
1.0-1.5		2.5 and above	

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

Prepared by Joe Ho

Date 07 Mar 2022

Incident Report on Action Level or Limit Level Non-compliance

Project	Integrated Waste Management Facilities, Phase 1		
Date	28 Feb 2022 (Lab result received on 04 Mar 2022)		
Time	14:15 – 17:45 (Mid-Flood)		
Mid-Flood			
Monitoring Location	B3 		
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 (B3)	5.0 mg/L (C1A) 5.5 mg/L (C2A)	6.3 mg/L (B1) 6.3 mg/L (B2) 7.0 mg/L (B4) 7.3 mg/L (F1A) 5.5 mg/L (H1) 6.0 mg/L (M1) 7.5 mg/L (CR1) 5.8 mg/L (CR2)
Possible reason for Action or Limit Level Non-compliance	<p>Works scheduled on site on 28 Feb 2022 include infilling of caisson, lifting of working platforms at Caisson 52, installation of caissons, landfilling works for below +6.00mPD, landfilling works for above +6.00mPD, piling pre-drilling works, piling works, piling works for driven pile, piling works for pre-bored socketed H-pile, blockwork seawall and existing caisson extension.</p> <p>Dominant 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. B3 is located at unrelated stream direction (neither upstream nor downstream, far away) to the works location. Exceedance 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 inspection on 23 Feb 2022.</p> <p>After the investigation, the exceedance on 28 Feb 2022 at B3 is deemed to be unrelated to the Project.</p>
--	--

Monitoring photos of
stations with exceedance

B3:



Remarks

Current direction during mid-flood sampling on 28 Feb 2022:



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

Prepared by	Joe Ho
Date	07 Mar 2022