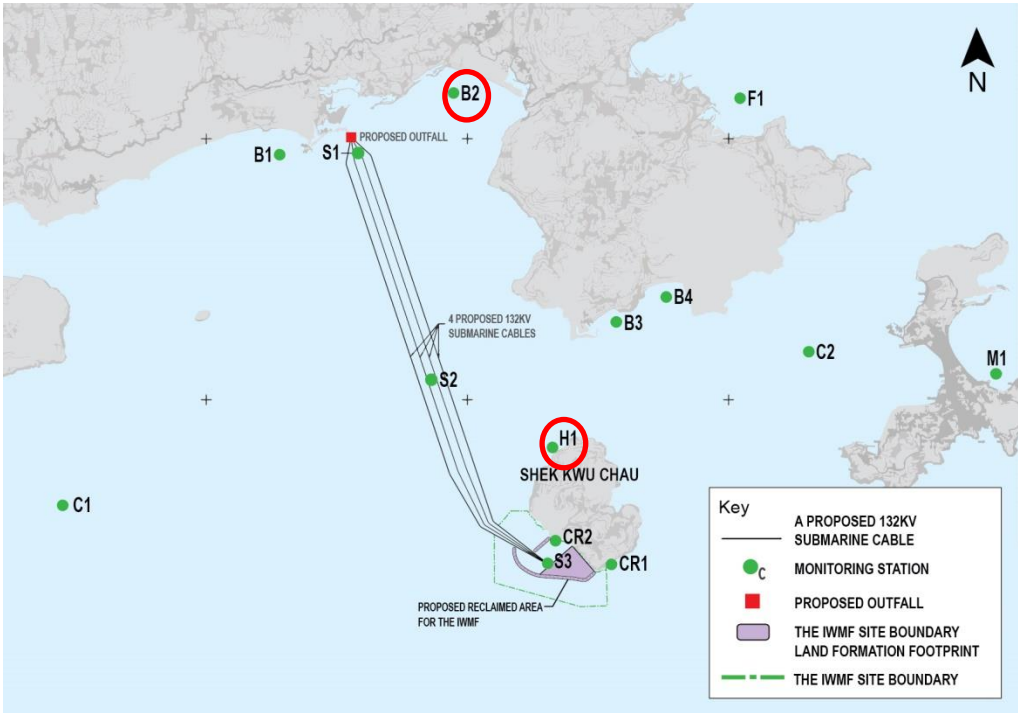



Appendix N Exceedance Report

Statistical Summary of Exceedances in the Reporting Period

Water Quality			
Location	Action Level	Limit Level	Total
B1	2	2	4
B2	2	1	3
B3	1	1	2
B4	0	0	0
CR1	2	2	4
CR2	0	1	1
F1	0	0	0
H1	3	2	5
S1	2	0	2
S2	2	0	2
S3	0	2	2
M1	2	2	4
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


Incident Report on Action Level or Limit Level Non-compliance

Project	Integrated Waste Management Facilities, Phase 1		
Date	3 September 2018 (Lab result received on 7 September 2018)		
Time	03:25 - 07:55 (Mid-Ebb)		
Monitoring Location	B2 & 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) with Exceedance	Control Stations	Impact Station(s) without Exceedance
	8.5 mg/L (B2) 9.0 mg/L (H1)	6.1 mg/L (C1) 7.3 mg/L (C2)	3.5 mg/L (B1) 4.8 mg/L (B3) 5.0 mg/L (B4) 6.3 mg/L (F1) 4.7 mg/L (M1) 5.7 mg/L (CR1) 7.3 mg/L (CR2) 5.3 mg/L (S1) 5.2 mg/L (S2) 4.3 mg/L (S3)
Possible reason for Action or Limit Level Non-compliance	<p>Works scheduled on site on 3/9 include ground investigation (GI) works of 3 small borehole drilling and 2 sample coring, which shall not be a major source of SS concentration increase considering the limited scale and nature of works.</p> <p>Dominating sea current direction was found to be from Northwest to Southeast at waters around Shek Kwu Chau.</p> <p>B2 is located at unrelated stream direction (neither upstream nor downstream, far away) and H1 is located at upstream direction to the works location, exceedance of this monitoring location is deemed to be unrelated to the Project at the sampling period.</p> <p>Site tidiness in the present barges in the Project site were checked during weekly site</p>		

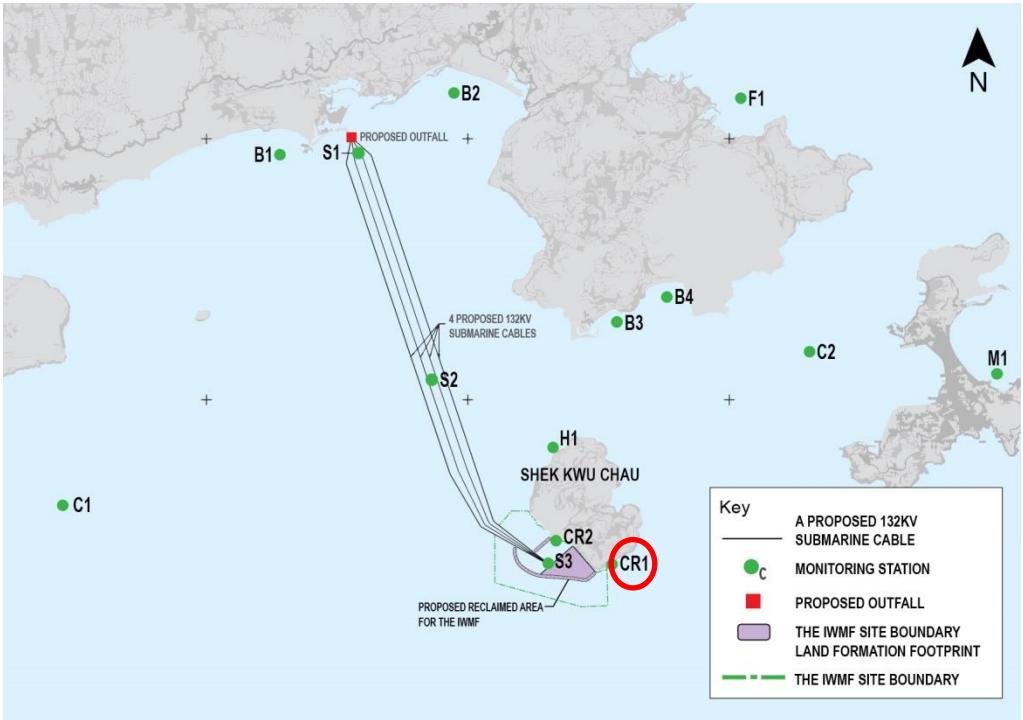
	inspection on 4/9, where applicable mitigation measures on water quality were found implemented and no improper site practice that might contribute to the increase in SS level was observed during the inspection.								
Actions taken / to be taken	Examination of environmental performance of the Project will be continued during the weekly inspection, and the Contractor is reminded to implement all applicable mitigation measures as per the Updated EM&A Manual.								
Remarks	<p>Current direction during mid-ebb sampling on 3/9:</p>  <p>Legend</p> <table border="1" data-bbox="472 1093 986 1245"> <thead> <tr> <th>Speed (knot)</th> <th>Speed (knot)</th> </tr> </thead> <tbody> <tr> <td>0-0.5</td> <td>1.5-2.0</td> </tr> <tr> <td>0.5-1.0</td> <td>2.0-2.5</td> </tr> <tr> <td>1.0-1.5</td> <td>2.5 and above</td> </tr> </tbody> </table> <p>(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	Nelson Tsui								
Date	10 September 2018								

Incident Report on Action Level or Limit Level Non-compliance

Project	Integrated Waste Management Facilities, Phase 1		
Date	14 September 2018 (Lab result received on 20 September 2018)		
Time	07:36 – 11:06 (Mid-Flood)		
Monitoring Location	<p>M1</p> <p>The map shows the Shek Kwu Chau area with various monitoring stations marked with green dots: B1, B2, B3, B4, C1, C2, F1, H1, CR1, CR2, CR3, S1, S2, S3, and M1. A red square indicates a proposed outfall. Four lines represent proposed 132KV submarine cables. A purple shaded area shows the IWMF site boundary, and a dashed green line shows the IWMF site boundary. A north arrow is in the top right corner.</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) with Exceedance	Control Stations	Impact Station(s) without Exceedance
	8.2 mg/L (M1)	4.3 mg/L (C1) 2.8 mg/L (C2)	4.8 mg/L (B1) 4.5 mg/L (B2) 4.5 mg/L (B3) 5.3 mg/L (B4) 3.5 mg/L (F1) 4.7 mg/L (H1) 5.7 mg/L (CR1) 5.5 mg/L (CR2)
Possible reason for Action or Limit Level Non-compliance	<p>All works scheduled on site on 14/9 were suspended due to the upcoming typhoon MANGKHUT.</p> <p>Dominating sea current direction was found to be from Southeast to Northwest at waters around Shek Kwu Chau.</p> <p>M1 is located at unrelated stream direction (neither upstream nor downstream, far away) and exceedance of this monitoring location is deemed to be unrelated to the Project at the sampling period.</p> <p>Site tidiness in the present barges in the Project site were checked during weekly site inspection on 11/9, where applicable mitigation measures on water quality were found implemented and no improper site practice that might contribute to the increase in SS level was observed during the inspection.</p>		
Actions taken / to be taken	Examination of environmental performance of the Project will be continued during the		

	weekly inspection, and the Contractor is reminded to implement all applicable mitigation measures as per the Updated EM&A Manual.																					
Remarks	<p>Current direction during mid-flood sampling on 14/9:</p>  <table border="1" data-bbox="472 922 986 1115"> <thead> <tr> <th colspan="4">Legend</th> </tr> <tr> <th colspan="2">Speed (knot)</th> <th colspan="2">Speed (knot)</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	→																			
Prepared by	Nelson Tsui																					
Date	21 September 2018																					

Incident Report on Action Level or Limit Level Non-compliance

Project	Integrated Waste Management Facilities, Phase 1		
Date	18 September 2018 (Lab result received on 24 September 2018)		
Time	13:40 – 17:10 (Mid-Flood)		
Monitoring Location	CR1 		
Parameter	Suspended Solid (SS)		
Action & Limit Levels	Action Level	Limit Level	
	≥ 13.8 mg/L (120% of C2)	≥ 15.0 mg/L (130% of C2)	
Measurement Level	Impact Station(s) with Exceedance	Control Stations	Impact Station(s) without Exceedance
	14.0 mg/L (CR1)	10.5 mg/L (C1) 11.5 mg/L (C2)	11.0 mg/L (B1) 9.8 mg/L (B2) 8.0 mg/L (B3) 12.0 mg/L (B4) 9.7 mg/L (F1) 10.8 mg/L (H1) 9.7 mg/L (M1) 7.5 mg/L (CR2)
Possible reason for Action or Limit Level Non-compliance	<p>All works scheduled on site on 18/9 were suspended due to the yet to recover progress from typhoon MANGKHUT.</p> <p>Dominating sea current direction was found to be from Southeast to Northwest at waters around Shek Kwu Chau.</p> <p>CR2 and S3, the closer downstream monitoring stations to CR1 (upstream monitoring station), exhibited a much lower SS level. The above and absent of works suggest that the exceedance at CR1 should be unrelated to the Project.</p> <p>Site tidiness in the present barges in the Project site were checked during weekly site inspection on 11/9, where applicable mitigation measures on water quality were found implemented and no improper site practice that might contribute to the increase in SS level was observed during the inspection.</p>		
Actions taken / to be taken	Examination of environmental performance of the Project will be continued during the		

weekly inspection, and the Contractor is reminded to implement all applicable mitigation measures as per the Updated EM&A Manual.

Remarks Current direction during mid-flood sampling on 18/9:

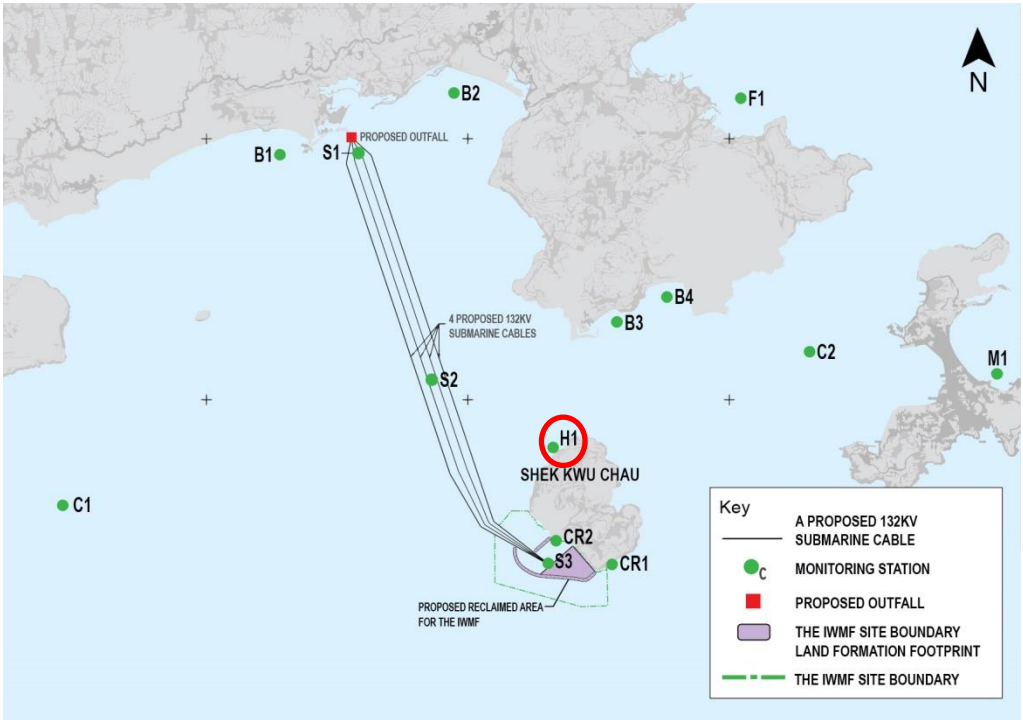


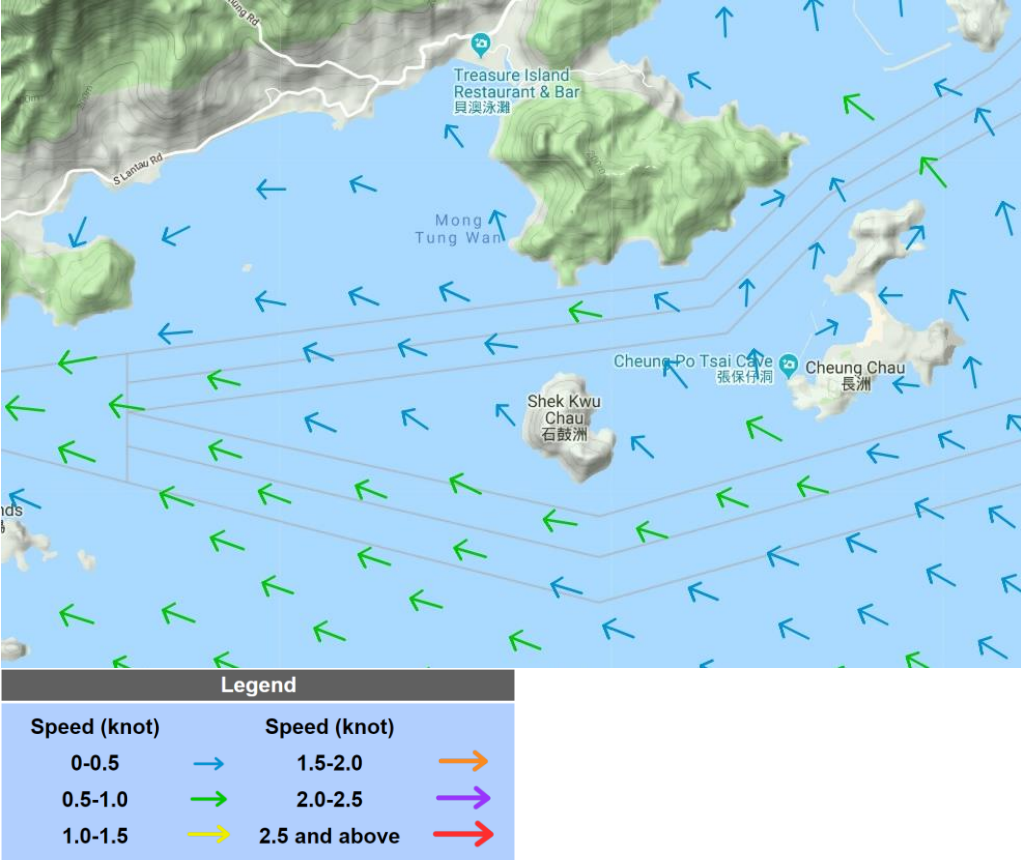
Legend	
Speed (knot)	Speed (knot)
0-0.5	1.5-2.0
0.5-1.0	2.0-2.5
1.0-1.5	2.5 and above

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

Prepared by	Nelson Tsui
Date	26 September 2018

Incident Report on Action Level or Limit Level Non-compliance

Project	Integrated Waste Management Facilities, Phase 1		
Date	24 September 2018 (Lab result received on 2 October 2018)		
Time	16:35 – 20:05 (Mid-Flood)		
Monitoring Location	H1 		
Parameter	Suspended Solid (SS)		
Action & Limit Levels	Action Level		Limit Level
	≥ 11.2 mg/L (120% of C2)		≥ 12.1 mg/L (130% of C2)
Measurement Level	Impact Station(s) with Exceedance	Control Stations	Impact Station(s) without Exceedance
	11.5 mg/L (H1)	8.8 mg/L (C1) 9.3 mg/L (C2)	8.8 mg/L (B1) 8.8 mg/L (B2) 9.0 mg/L (B3) 8.8 mg/L (B4) 8.8 mg/L (F1) 8.3 mg/L (M1) 7.8 mg/L (CR1) 10.2 mg/L (CR2)
Possible reason for Action or Limit Level Non-compliance	<p>Works scheduled on site on 24/9 include ground investigation (GI) works of 3 small borehole drilling, which shall not be a major source of SS concentration increase considering the limited scale and nature of works.</p> <p>Dominating sea current direction was found to be from Southeast to Northwest at waters around Shek Kwu Chau.</p> <p>CR2, the closest downstream monitoring stations to H1, exhibited a lower SS level. It may suggest that the exceedance at H1 should be unrelated to the Project.</p> <p>Site tidiness in the present barges in the Project site were checked during weekly site inspection on 26/9, where applicable mitigation measures on water quality were found implemented and no improper site practice that might contribute to the increase in SS level was observed during the inspection.</p>		
Actions taken / to be taken	Examination of environmental performance of the Project will be continued during the		

	weekly inspection, and the Contractor is reminded to implement all applicable mitigation measures as per the Updated EM&A Manual.	
Remarks	Current direction during mid-flood sampling on 24/9:  <p>(Sourced from http://current.hydro.gov.hk/en/map.html)</p>	
Prepared by	Nelson Tsui	
Date	3 October 2018	