

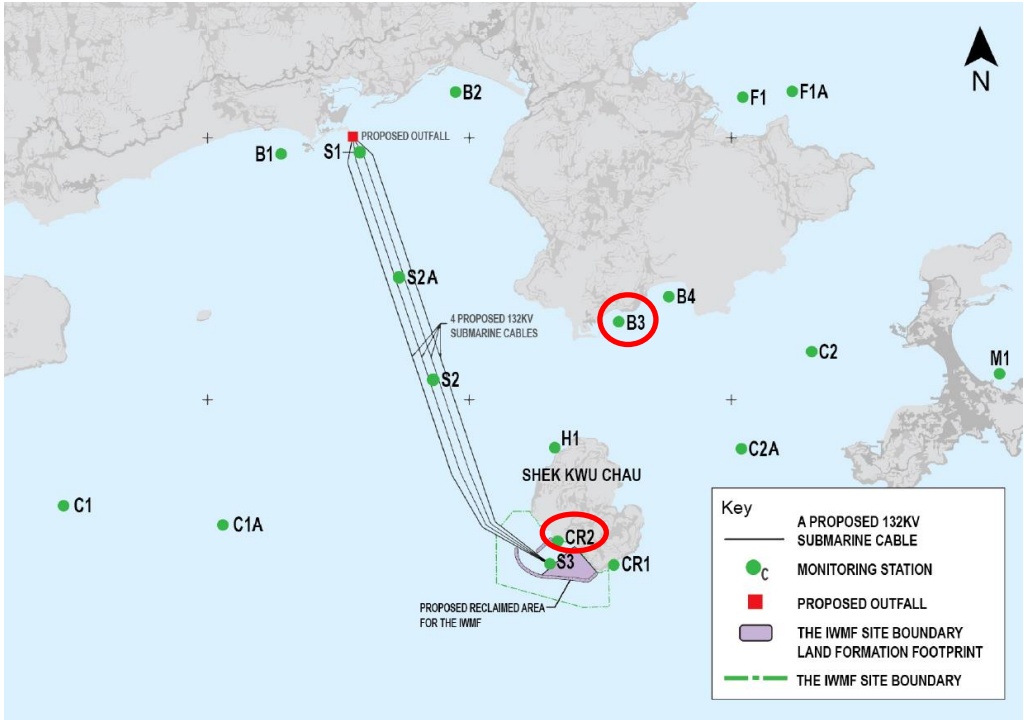
Appendix N Exceedance Report

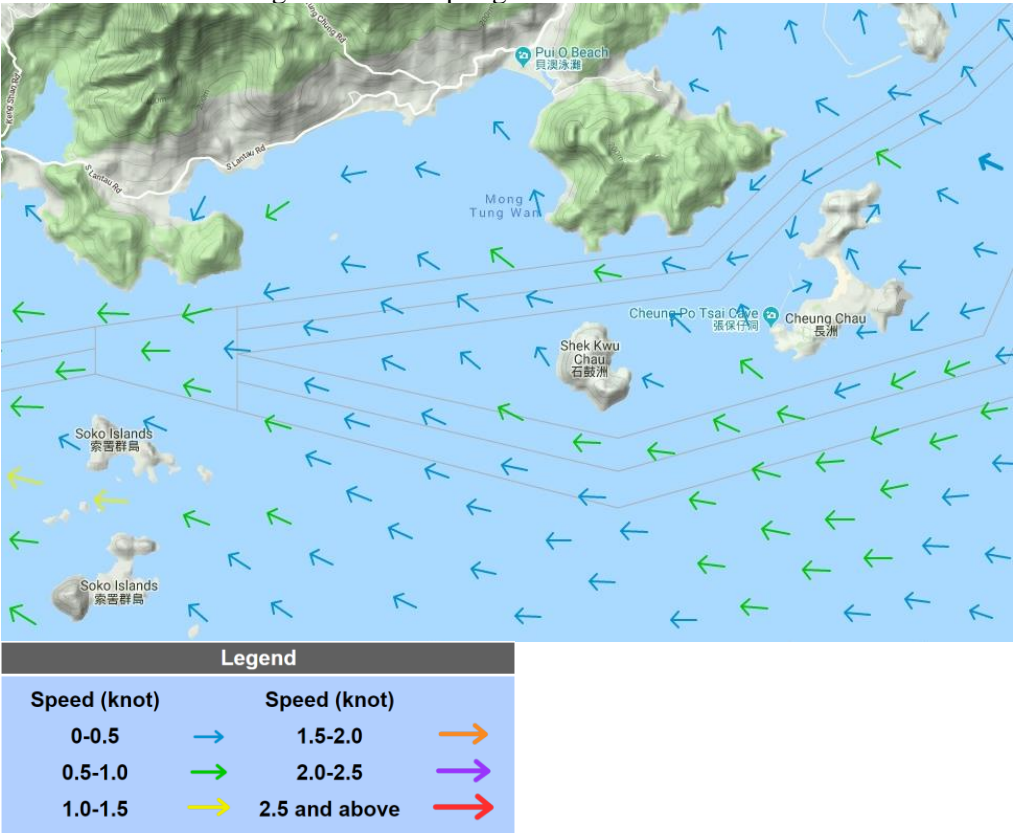
Statistical Summary of Exceedances in the Reporting Period

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

Noise (Day Time)			
Location	Action Level	Limit Level	Total
M1 / N_S1	0	0	0
M2 / N_S2	0	0	0
M3 / N_S3	0	0	0
Noise (Evening Time)			
Location	Action Level	Limit Level	Total
M1 / N_S1	0	0	0
M2 / N_S2	0	0	0
M3 / N_S3	0	0	0
Noise (Night Time)			
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	06 Sep 2019 (Lab result received on 11 Sep 2019)		
Time	10:53 – 14:23 (Mid-Flood)		
Mid-Flood			
Monitoring Location	B3 & CR2 		
Parameter	Suspended Solid (SS)		
Action & Limit Levels	Action Level		Limit Level
	≥ 12.0 mg/L		≥ 14.0 mg/L
Measurement Level	Impact Station(s) of Exceedance	Control Stations	Impact Station(s) without Exceedance
	12.3 mg/L (B3) 13.3 mg/L (CR2)	11.3 mg/L (C1A) 7.3 mg/L (C2A)	8.8 mg/L (B1) 9.3 mg/L (B2) 9.0 mg/L (B4) 8.5 mg/L (F1A) 9.2 mg/L (H1) 9.2 mg/L (M1) 10.3 mg/L (S1) 10.3 mg/L (S2A) 11.2 mg/L (S3) 9.5 mg/L (CR1)
Possible reason for Action or Limit Level Non-compliance	<p>Works scheduled on site on 06/09 include cone penetration test, sand blanket levelling and rock filling works.</p> <p>Dominating sea current direction was found to be from Southeast to Northwest at waters around Shek Kwu Chau.</p> <p>B3 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 unrelated to the Project.</p> <p>CR2 is located close to the works location within the Project site while silt curtain checking was implemented on Cheung Kee 10 (09:00), GD851 (07:00) & 宏建 2</p>		

	<p>(12:30) by the Contractor and checking results showed that no deficiency of silt curtain was found on that day. No rock filling work scheduled in Kam Ying 8 was carried out with refer to the site diary on 06/09/2019.</p> <p>From MMO monitoring records on 06/09, MMO teams were arranged for three derrick barges (宏建 2, GD-851 & Cheung Kee No.10) on that day while no deficiency of silt curtain was found before the commencement of and during construction activity. It might suggest that the SS exceedance at B3 & CR2 is deemed to be unrelated to the Project.</p> <p>Weekly site inspection for Portion 7 & 7A (Tung Chung) was conducted on 03/09. For reference, site tidiness in the present barges in the Project site were checked during weekly site inspection on 09/09, where two parts of secondary silt curtain of ESC-62 are found floating outward. Due to the temporal reason, this observation might not contribute to the increase of the suspended solids recorded in 06/09.</p>
<p>Actions taken / to be taken</p>	<p>Two parts of secondary silt curtain of ESC-62 has been maintained in good condition on 11/09. The Contractor was reminded to keep tracking on the status of the deployed silt curtain during construction works.</p> <p>Examination of environmental performance of the Project will be continued during the weekly inspection, and the Contractor is remained to implement all applicable mitigation measures as per the Updated EM&A Manual.</p>
<p>Remarks</p>	<p>Current direction during mid-ebb sampling on 06/09:</p>  <p>(Sourced from http://current.hydro.gov.hk/en/map.html)</p>
<p>Prepared by</p>	<p>Polar Chan</p>
<p>Date</p>	<p>12 Sep 2019</p>

Interim Incident Report on Action Level or Limit Level Non-compliance


Project	Integrated Waste Management Facilities, Phase 1		
Date	11 Sep 2019 (Lab result received on 16 Sep 2019)		
Time	09:06 – 12:36 (Mid-Ebb)		
Mid-Ebb			
Monitoring Location	<p>B1</p>		
Parameter	Suspended Solid (SS)		
Action & Limit Levels	Action Level		Limit Level
	≥ 12.0 mg/L		≥ 14.0 mg/L
Measurement Level	Impact Station(s) of Exceedance	Control Stations	Impact Station(s) without Exceedance
	12.8 mg/L (B1)	5.5 mg/L (C1A) 5.0 mg/L (C2A)	8.0 mg/L (B2) 4.0 mg/L (B3) 4.0 mg/L (B4) 6.2 mg/L (F1A) 6.8 mg/L (H1) 8.5 mg/L (M1) 6.8 mg/L (S1) 8.5 mg/L (S2A) 6.3 mg/L (S3) 6.2 mg/L (CR1) 6.3 mg/L (CR2)
Possible reason for Action or Limit Level Non-compliance	<p>Works scheduled on site on 11/09 include DCM main works, DCM sample coring for DCM main works, cone penetration test, levelling the sand blanket, surface rock removal at vertical seawall, rock filling works and flattening the formation of caisson seawall.</p> <p>Dominating sea current direction was found to be from Northwest to Southeast at waters around Shek Kwu Chau.</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 unrelated to the Project.</p>		







	<p>Silt curtain checking was implemented on Cheung Kee No.10 (17:00), ESC-61 (09:40), ESC-62 (12:00) & GD-851 (07:00) by the Contractor and checking results showed that no deficiency of silt curtain was found on that day. No surface rock removal at vertical seawall was carried out in Chun Tai 2 with refer to site diary on that day.</p> <p>Silt curtain checking record for 宏建 2 was pending for checking, yet as the timing of construction activity at 宏建 2 was conducted after the sampling event, thus the situation of 宏建 2 was considered irrelevant to the exceedance event.</p> <p>From MMO monitoring records on 11/09, MMO teams were arranged for four derrick barges (宏建 2, GD-851, Chun Tai 2 & Cheung Kee No.10) and two DCM barges (ESC-61 & ESC-62) on that day while no deficiency of silt curtain was found before the commencement of and during construction activity.</p> <p>Site tidiness in the present barges in the Project site were checked during weekly site inspection on 09/09, where two parts of secondary silt curtain of ESC-62 are found floating outward. However, according to the rationale in previous paragraphs, this observation might not contribute to the increase of the suspended solids recorded.</p>
<p>Actions taken / to be taken</p>	<p>Two parts of secondary silt curtain of ESC-62 has been maintained in good condition on 11/09. The Contractor was reminded to keep tracking on the status of the deployed silt curtain during construction works.</p> <p>Examination of environmental performance of the Project will be continued during the weekly inspection, and the Contractor is remained to implement all applicable mitigation measures as per the Updated EM&A Manual.</p>
<p>Remarks</p>	<p>Current direction during mid-ebb sampling on 11/09:</p>  <p>(Sourced from http://current.hydro.gov.hk/en/map.html)</p>
<p>Prepared by</p>	<p>Polar Chan</p>

Date	17 Sep 2019
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Incident Report on Action Level or Limit Level Non-compliance

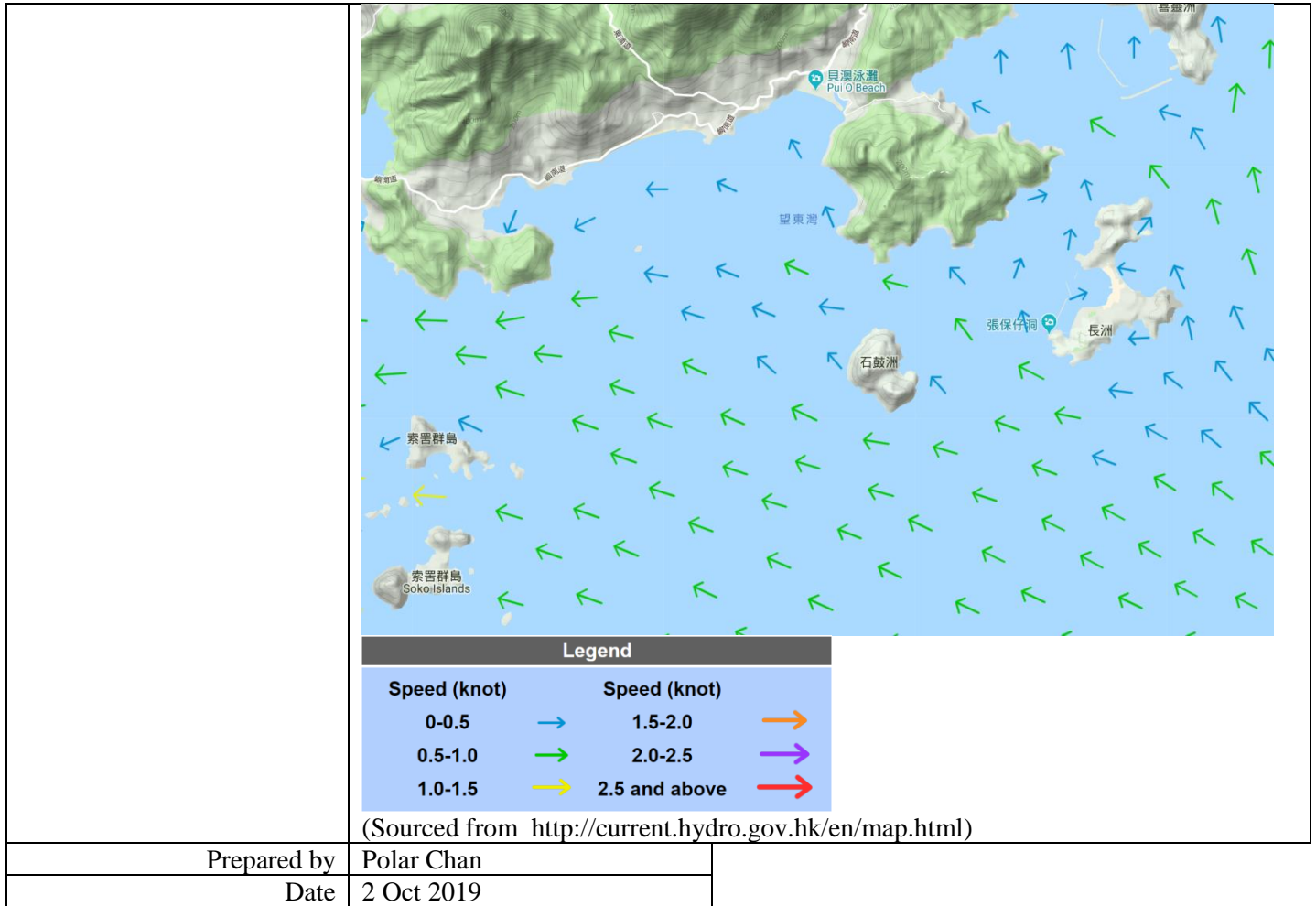
Project	Integrated Waste Management Facilities, Phase 1		
Date	18 Sep 2019 (Lab result received on 23 Sep 2019)		
Time	12:51 – 16:21 (Mid-Ebb)		
Monitoring Location	Mid-Ebb		
	<p>B4</p>		
Parameter	Suspended Solid (SS)		
Action & Limit Levels	Action Level		Limit Level
	≥ 12.0 mg/L		≥ 14.0 mg/L
Measurement Level	Impact Station(s) of Exceedance	Control Stations	Impact Station(s) without Exceedance
	14.0 mg/L (B4)	6.7 mg/L (C1A) 7.2 mg/L (C2A)	10.0 mg/L (B1) 10.0 mg/L (B2) 8.5 mg/L (B3) 7.7 mg/L (F1A) 10.2 mg/L (H1) 8.2 mg/L (M1) 6.5 mg/L (S1) 6.0 mg/L (S2A) 8.8 mg/L (S3) 7.8 mg/L (CR1) 7.3 mg/L (CR2)
Possible reason for Action or Limit Level Non-compliance	<p>Works scheduled on site on 18/09 include DCM main works, DCM sample coring for DCM main works, cone penetration test, levelling the sand blanket, rock filling works, flattening the formation of caisson seawall and laying geotextiles at reclamation area.</p> <p>Dominating sea current direction was found to be from Northwest to Southeast at waters around Shek Kwu Chau.</p> <p>B4 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 unrelated to the Project.</p>		

	<p>From MMO monitoring records on 18/09, MMO teams were arranged for one DCM barges (ESC62) and four derrick barges (宏建1, GD-853, GD-851 & Cheung Kee No.10) on that day while no deficiency of silt curtain was found before the commencement of and during construction activity. No silt curtain in ESC62 was checked by MMO due to absence of construction works, while MMO was deployed in ESC62 for the implementation of cluster marine mammal exclusion zone.</p> <p>Silt curtain checking was implemented on GD-851 (16:15), GD-853 (07:00) & Cheung Kee No.10 (10:00) by the Contractor and checking results showed that no deficiency of silt curtain was found on that day. No DCM main works was carried out in ESC62 with refer to the site diary on that day.</p> <p>Silt curtain checking record for 宏建 1 was pending for checking, yet as the timing of construction activity at 宏建 1 was conducted more than 12 hours before the sampling event according to MMO monitoring records, thus the situation of 宏建 1 was considered irrelevant to the exceedance event.</p> <p>Site tidiness in the present barges in the Project site were checked during weekly site inspection on 17/09, where two-double layers silt curtain for coral protection should be repaired and maintained in good condition. However, according to the rationale in previous paragraphs, this observation might not contribute to the increase of the suspended solids recorded.</p>
<p>Actions taken / to be taken</p>	<p>The two-double layers silt curtain for coral protection keep repairing. The Contractor was reminded to keep tracking on the status of the deployed silt curtain during construction works.</p> <p>Examination of environmental performance of the Project will be continued during the weekly inspection, and the Contractor is remained to implement all applicable mitigation measures as per the Updated EM&A Manual.</p>
<p>Remarks</p>	<p>Current direction during mid-ebb sampling on 18/09:</p> 

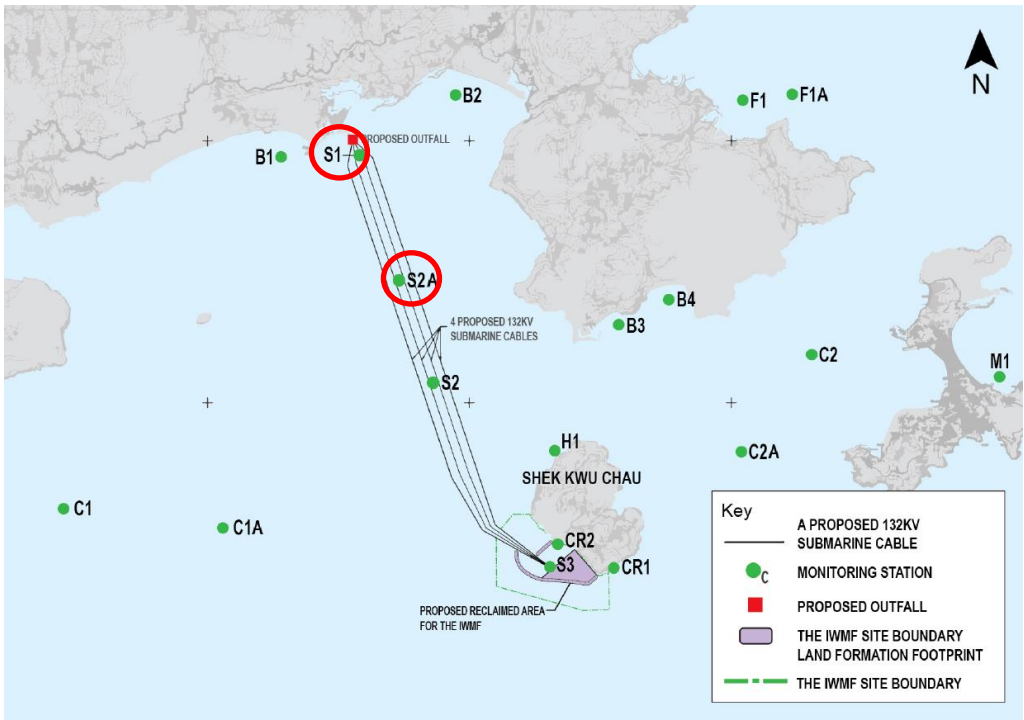
	Legend		
	Speed (knot)	Speed (knot)	
	0-0.5 	1.5-2.0 	
	0.5-1.0 	2.0-2.5 	
	1.0-1.5 	2.5 and above 	
	(Sourced from http://current.hydro.gov.hk/en/map.html)		
Prepared by	Polar Chan		
Date	25 Sep 2019		

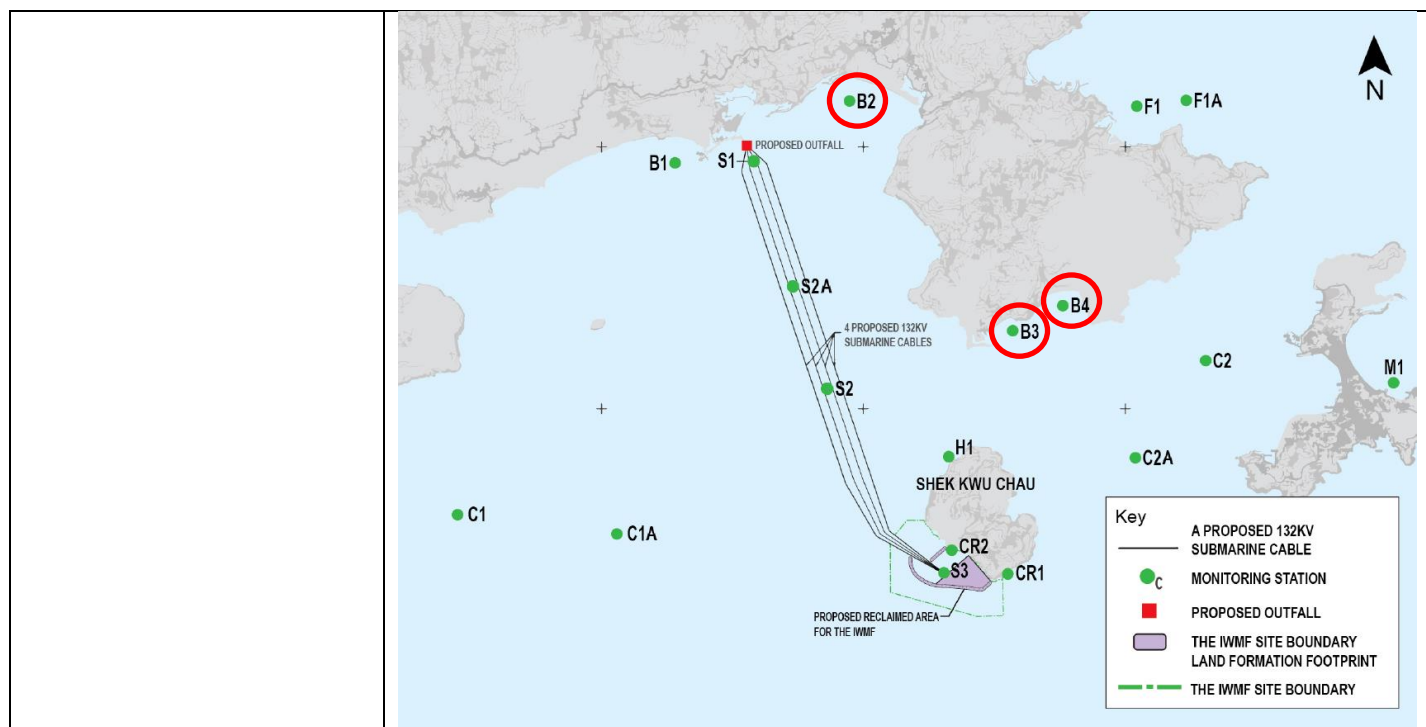
Interim Incident Report on Action Level or Limit Level Non-compliance

Project	Integrated Waste Management Facilities, Phase 1		
Date	25 Sep 2019 (Lab result received on 01 Oct 2019)		
Time	15:02 – 18:32 (Mid-Flood)		
Mid-Flood			
Monitoring Location	F1A 		
Parameter	Suspended Solid (SS)		
Action & Limit Levels	Action Level		Limit Level
	≥ 12.0 mg/L		≥ 14.0 mg/L
Measurement Level	Impact Station(s) of Exceedance	Control Stations	Impact Station(s) without Exceedance
	17.2 mg/L (F1A)	6.7 mg/L (C1A) 5.7 mg/L (C2A)	2.8 mg/L (B1) 4.0 mg/L (B2) 3.3 mg/L (B3) 4.3 mg/L (B4) 4.0 mg/L (H1) 3.8 mg/L (M1) 4.0 mg/L (S1) 3.3 mg/L (S2A) 4.3 mg/L (S3) 3.3 mg/L (CR1) 2.7 mg/L (CR2)
Possible reason for Action or Limit Level Non-compliance	Dominating sea current direction was found to be from Southeast to Northwest at waters around Shek Kwu Chau. F1A 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 unrelated to the Project.		
Actions taken / to be taken	Notified the Contractor to collect more information.		
Remarks	Current direction during mid-flood sampling on 25/09:		

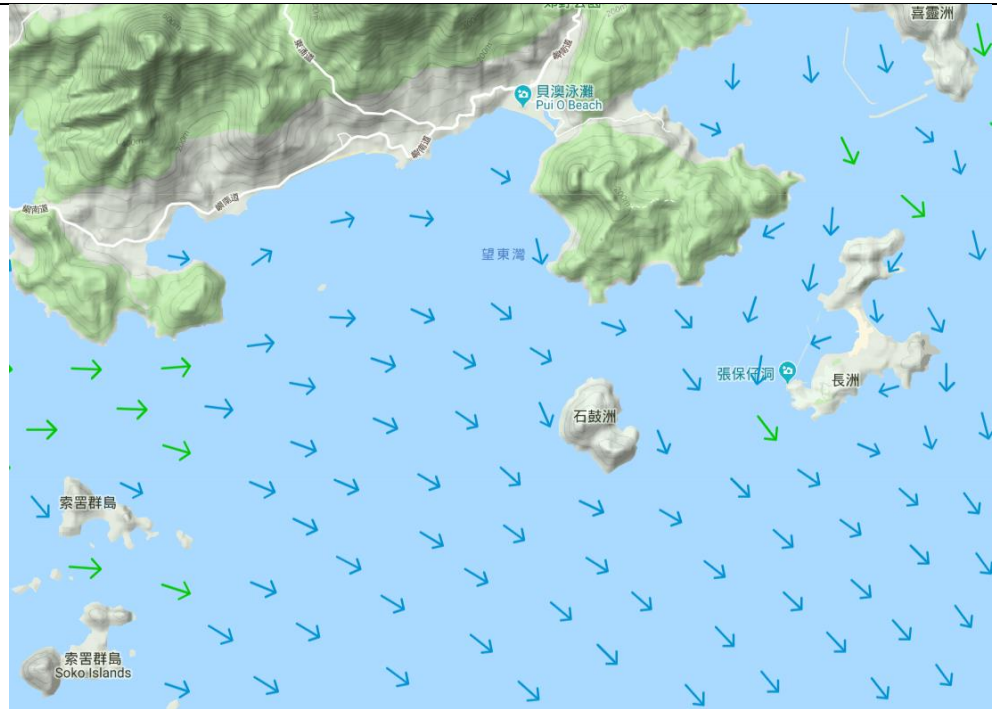


Interim Incident Report on Action Level or Limit Level Non-compliance

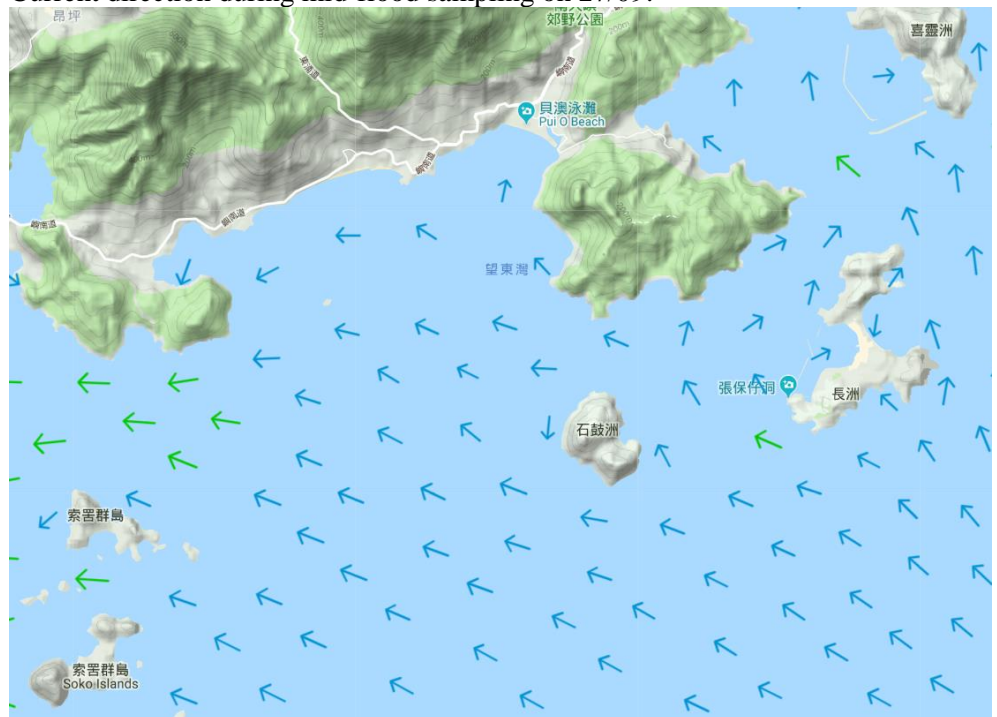
Project	Integrated Waste Management Facilities, Phase 1		
Date	27 Sep 2019 (Lab result received on 02 Oct 2019)		
Time	09:20 – 12:50 (Mid-Ebb) 14:50 – 19:00 (Mid-Flood)		
Mid-Ebb			
Monitoring Location	S1 & S2A 		
Parameter	Suspended Solid (SS)		
Action & Limit Levels	Action Level		Limit Level
	≥ 13.4 mg/L (120% of C1A)		≥ 14.5 mg/L (130% of C1A)
Measurement Level	Impact Station(s) of Exceedance	Control Stations	Impact Station(s) without Exceedance
	15.3 mg/L (S1) 13.8 mg/L (S2A)	11.2 mg/L (C1A) 8.8 mg/L (C2A)	10.5 mg/L (B1) 11.0 mg/L (B2) 10.5 mg/L (B3) 11.8 mg/L (B4) 11.0 mg/L (F1A) 10.5 mg/L (H1) 6.8 mg/L (M1) 7.7 mg/L (S3) 8.7 mg/L (CR1) 8.2 mg/L (CR2)
Possible reason for Action or Limit Level Non-compliance	Dominating sea current direction was found to be from Northwest to Southeast at waters around Shek Kwu Chau. S1 & S2A 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.		
Mid-Flood			
Monitoring Location	B2, B3 & B4		



Parameter	Suspended Solid (SS)		
Action & Limit Levels	Action Level		Limit Level
	≥ 13.6 mg/L (120% of C2A)		≥ 14.7 mg/L (130% of C2A)
Measurement Level	Impact Station(s) of Exceedance	Control Stations	Impact Station(s) without Exceedance
	14.0 mg/L (B2) 15.5 mg/L (B3) 17.8 mg/L (B4)	10.7 mg/L (C1A) 11.3 mg/L (C2A)	10.0 mg/L (B1) 10.5 mg/L (F1A) 13.2 mg/L (H1) 11.0 mg/L (M1) 10.0 mg/L (S1) 9.8 mg/L (S2A) 10.8 mg/L (S3) 12.2 mg/L (CR1) 11.3 mg/L (CR2)
Possible reason for Action or Limit Level Non-compliance	Dominating sea current direction was found to be from Southeast to Northwest at waters around Shek Kwu Chau.		
	B2, B3 & B4 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.		
Actions taken / to be taken	Notified the Contractor to collect more information.		
Remarks	Current direction during mid-ebb sampling on 27/09:		



Current direction during mid-flood sampling on 27/09:



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	Polar Chan
Date	2 Oct 2019