

Appendix N Exceedance Report

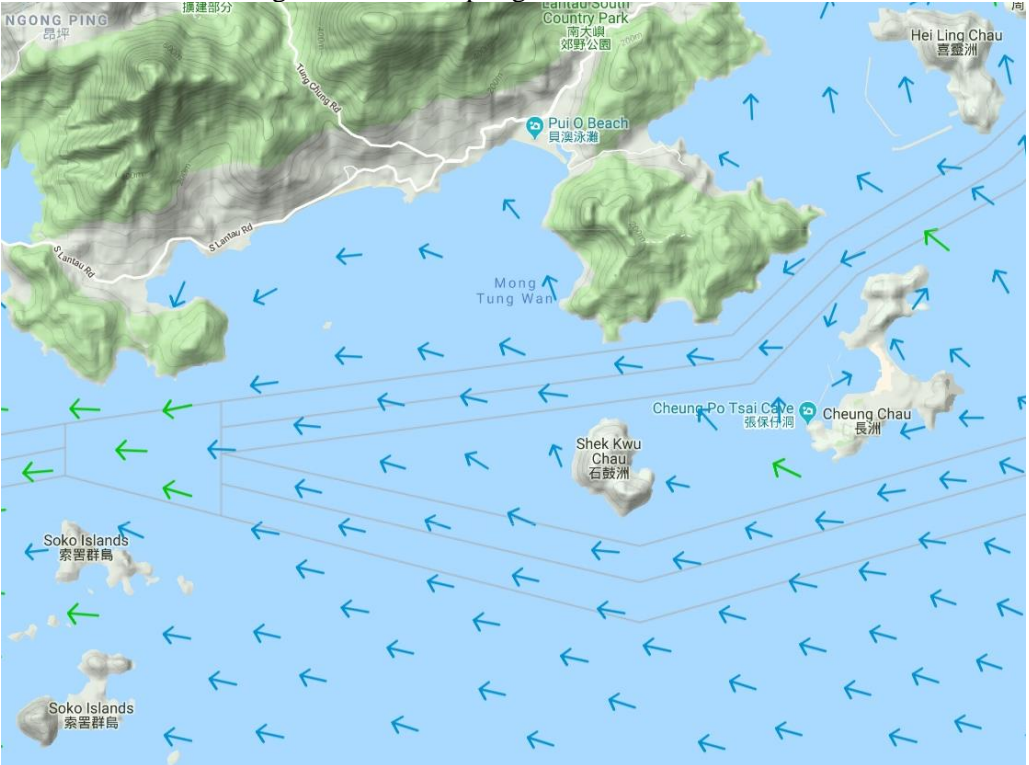
Statistical Summary of Exceedances in the Reporting Period

Water Quality			
Location	Action Level	Limit Level	Total
B1	0	0	0
B2	0	0	0
B3	0	0	0
B4	0	0	0
CR1	0	0	0
CR2	2	0	2
F1	0	0	0
H1	0	0	0
S1	0	0	0
S2	1	0	1
S3	0	0	0
M1	1	1	2
Water Quality (Intensive DCM)			
Location	Action Level	Limit Level	Total
I1	5	3	8
I2	2	7	9
I3	4	6	10
I4	1	10	11
I5	3	4	7
I6	3	4	7
I7	2	9	11
I8	0	5	5
I9	1	9	10
I10	3	5	8

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

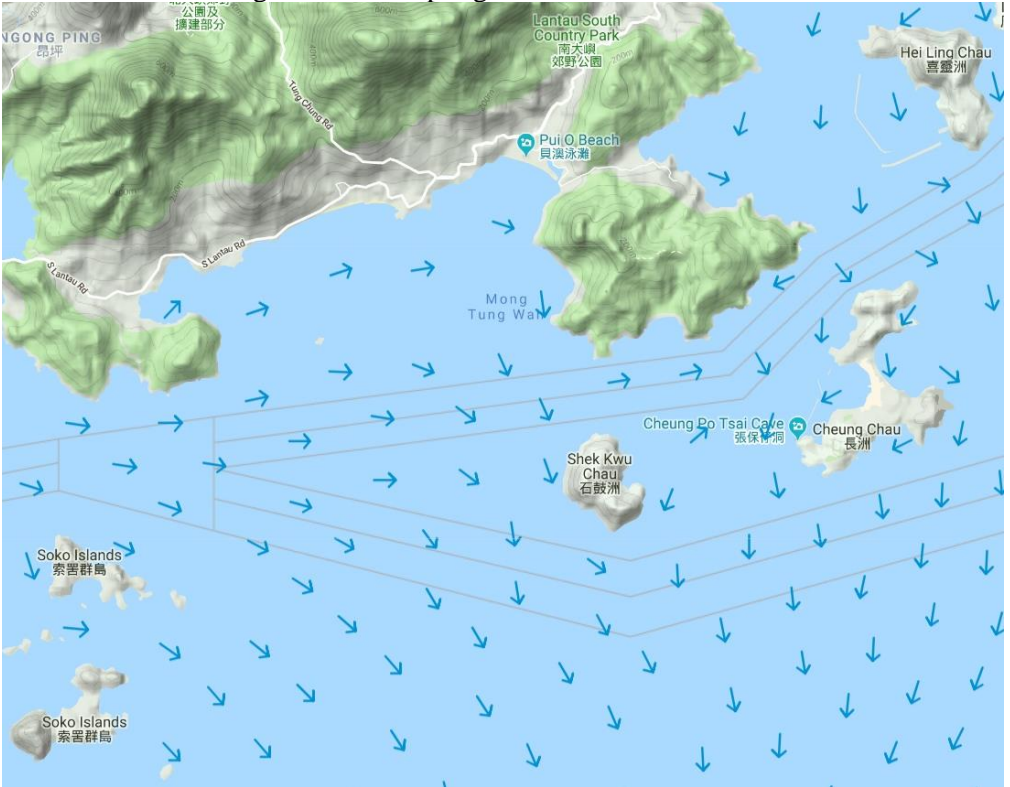
Project	Integrated Waste Management Facilities, Phase 1		
Date	1 February 2019 (Lab result received on 15 February 2019)		
Time	13:55 – 17:25 (Mid-Flood)		
Monitoring Location	Mid-Flood		
Monitoring Location	<p>M1</p> <p>The map shows the Shek Kwu Chau area with various monitoring stations (B1-F1, C1-C2, H1, CR1-CR2, S1-S3) and a proposed outfall (S1). It also indicates the location of 4 proposed 132KV submarine cables and a proposed reclaimed area for the IWMF. Station M1 is highlighted with a red circle.</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
	10.0 mg/L (M1)	5.3 mg/L (C1) 5.7 mg/L (C2)	3.5 mg/L (B1) 3.5 mg/L (B2) 5.8 mg/L (B3) 5.3 mg/L (B4) 5.7 mg/L (F1) 4.7 mg/L (H1) 3.3 mg/L (CR1) 4.5 mg/L (CR2) 4.5 mg/L (S1) 3.7 mg/L (S2) 3.2 mg/L (S3)
Possible reason for Action or Limit Level Non-compliance	<p>Works scheduled on site on 01/02 include ground investigation (GI) work of borehole drilling, cone penetration test plant trial, sand blanket laying at caisson seawall area, geotextile laying at reclamation area, DCM sample coring and DCM main works.</p> <p>Dominating sea current direction was found to be from Northwest to Southeast at waters around Shek Kwu Chau.</p> <p>M1 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 unrelated to the Project.</p>		

	<p>From MMO monitoring records on 01/02, MMO teams were arranged to two DCM barges (ESC-61 & ESC-62) and two derrick barges (Shun Tat D12 & FTB-19) on that day while no deficiency of silt curtain was found before the start of construction activity.</p> <p>Silt curtain checking was implemented on Shun Tat D12 (10:50), FTB-19 (15:30), ESC-61 (00:00) & ESC-62 (00:00) by the Contractor and checking results showed that no deficiency of silt curtain was found on that day.</p> <p>Site tidiness in the present barges in the Project site were checked during weekly site inspection on 04/02, where was no major observation of improper site practice that might contribute to the increase in SS level was observed during the inspection.</p>
<p>Actions taken / to be taken</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-flood sampling on 01/02:</p>  <p>(Sourced from http://current.hydro.gov.hk/en/map.html)</p>


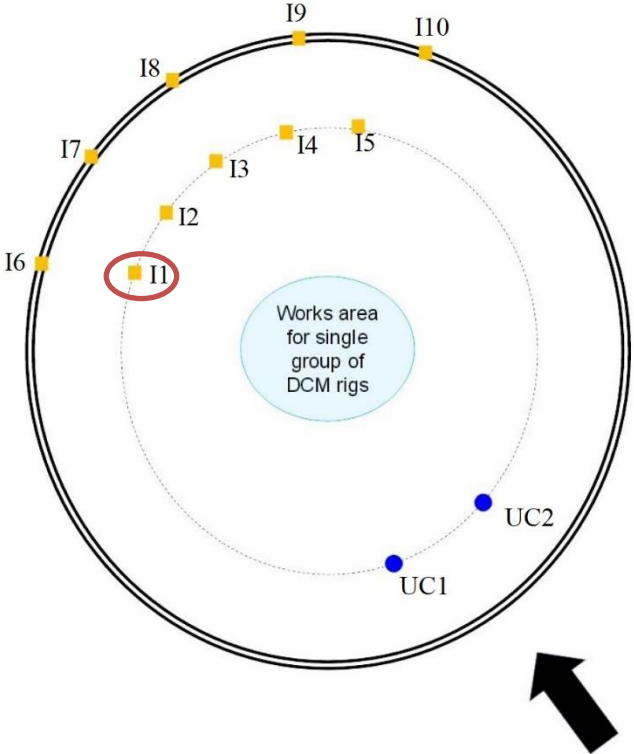
<p>Prepared by</p>	<p>Polar Chan</p>
<p>Date</p>	<p>18 February 2019</p>

Incident Report on Action Level or Limit Level Non-compliance

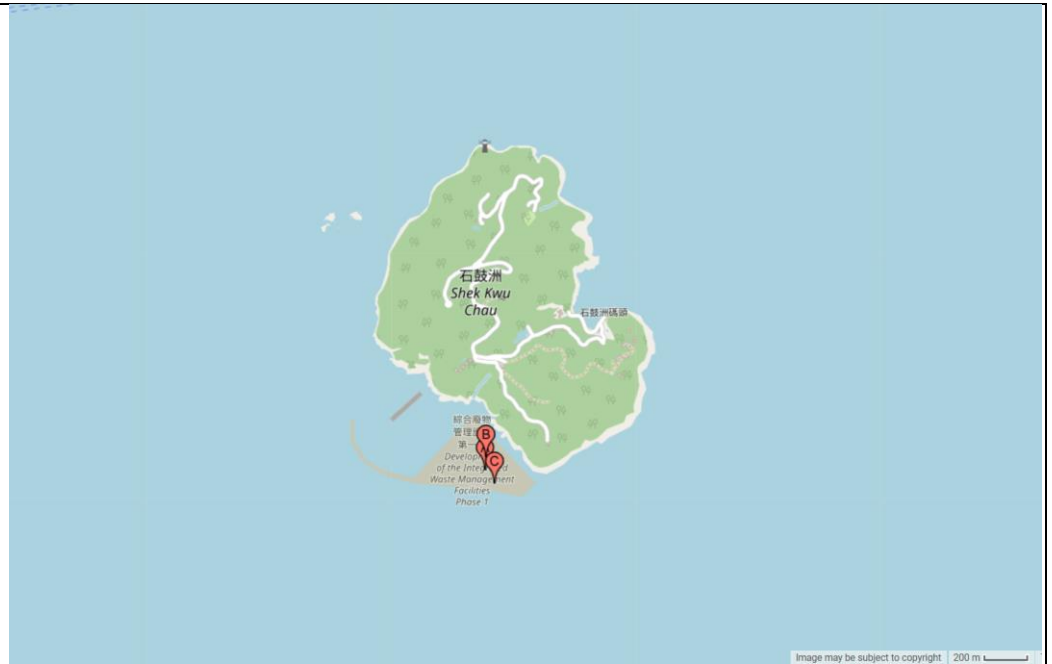
Project	Integrated Waste Management Facilities, Phase 1		
Date	4 February 2019 (Lab result received on 15 February 2019)		
Time	10:55 – 14:25 (Mid-Ebb)		
Monitoring Location	Mid-Ebb M1, CR2, S2		
	<p>The map shows the Shek Kwu Chau area with various monitoring stations marked with green dots: M1, CR2, S2, S1, B1, B2, B3, B4, C1, C2, F1, and H1. 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 formation footprint. 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) of Exceedance	Control Stations	Impact Station(s) without Exceedance
	9.8 mg/L (M1) 8.2 mg/L (CR2) 8.5 mg/L (S2)	3.5 mg/L (C1) 2.8 mg/L (C2)	5.3 mg/L (B1) 4.5 mg/L (B2) 3.0 mg/L (B3) 4.3 mg/L (B4) 4.0 mg/L (F1) 4.5 mg/L (H1) 6.7 mg/L (CR1) 4.8 mg/L (S1) 7.5 mg/L (S3)
Possible reason for Action or Limit Level Non-compliance	<p>Works scheduled on site on 04/02 include ground investigation (GI) work of borehole drilling, cone penetration test plant trial, sand blanket laying at both caisson seawall area and reclamation area, geotextile laying at reclamation area, DCM sample coring and DCM main works.</p> <p>Dominating sea current direction was found to be from Northwest to Southeast at waters around Shek Kwu Chau.</p> <p>M1 and S2 are located at unrelated stream direction (neither upstream nor downstream, far away) to the works location, exceedance of these monitoring stations are deemed to be unrelated to the Project.</p> <p>From MMO monitoring records on 04/02, MMO teams were arranged to two DCM</p>		

	<p>barges (ESC-61 & ESC-62) and one derrick barges (FTB-19) on that day while no deficiency of silt curtain was found before the start of construction activity.</p> <p>CR2 is located close to the works location within the Project site while the DCM main works scheduled in ESC-61 & ESC-62 were suspended due to maintenance works for DCM barges ESC-61 & ESC-62. No sand blanket laying works were carried out with referring to the site diary on that day. The absence of works might suggest that SS exceedance at CR2 is deemed to be unrelated to the Project.</p> <p>Site tidiness in the present barges in the Project site were checked during weekly site inspection on 04/02, where was no major observation of improper site practice that might contribute to the increase in SS level was observed during the inspection.</p>
<p>Actions taken / to be taken</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 04/02:</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>18 February 2019</p>

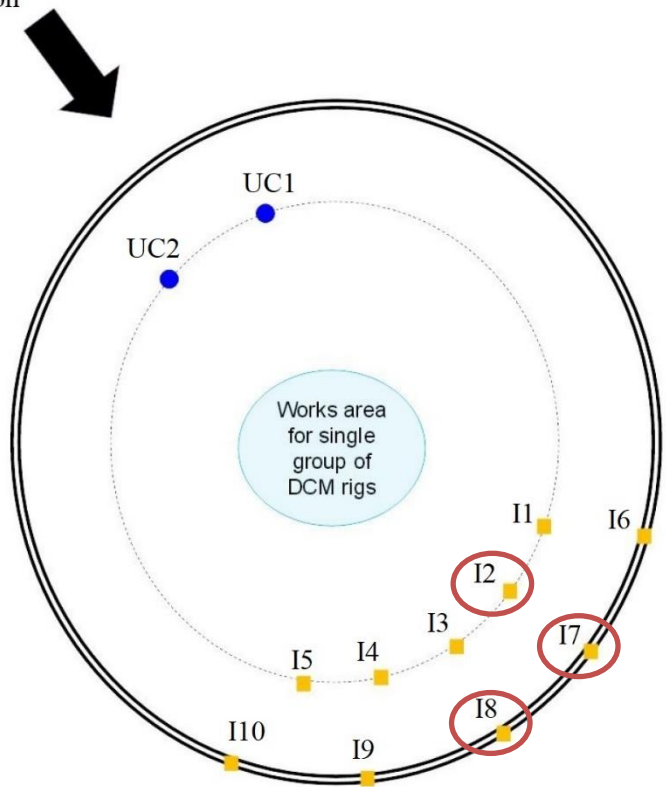
Incident Report on Action Level or Limit Level Non-compliance

Project	Integrated Waste Management Facilities, Phase 1
Date	11 February 2019 (Lab result received on 18 February 2019)
Time	08:38 – 12:08 (Mid-Flood) 14:52 – 18:22 (Mid-Ebb)
Mid-Flood	
Monitoring Location	<p>II : A (N22°11.406 E113° 59.968)</p>   <p>Note: Drawing is not to scale</p>
Parameter	Suspended Solid (SS)

Action & Limit Levels	Action Level		Limit Level	
	≥ 2.7 mg/L (120% of average of UC1 & UC2)		≥ 3.0 mg/L (130% of average of UC1 & UC2)	
Measurement Level	Impact Station(s) of Exceedance	Control Stations		Impact Station(s) without Exceedance
	2.8 mg/L (I1)	2.2 mg/L (UC1) 2.4 mg/L (UC2)		2.5 mg/L (I2) 2.0 mg/L (I3) 2.2 mg/L (I4) 2.0 mg/L (I5) 2.0 mg/L (I6) 2.2 mg/L (I7) 2.2 mg/L (I8) 2.2 mg/L (I9) N/A (I10)
Possible reason for Action or Limit Level Non-compliance	<p>Works scheduled on site on 11/02 include sand blanket laying at caisson seawall area, cone penetration test plant trial, DCM sample coring and DCM main works.</p> <p>Dominating sea current direction was found to be from Southeast to Northwest at waters around Shek Kwu Chau.</p> <p>From MMO monitoring records on 11/02, MMO teams were arranged to two DCM barges (ESC-61 & ESC-62) and two derrick barges (Shun Tat D12 & FTB-19) on that day while no deficiency of silt curtain was found before the start of construction activity.</p> <p>I1 is located close to the works location within the Project site while silt curtain checking was implemented on ESC-61 (09:00), ESC-62 (08:45) and Shun Tat D12 (10:00) by the Contractor and checking results showed that no deficiency of silt curtain was found on that day. No sand blanket laying work was carried out on FTB-19 due to maintenance of FTB-19 on that day. When compared to the baseline data of dry season (Action Level: 8mg/L & Limit Level: 10mg/L), most of the monitoring stations (including upstream control station UC1 and UC2) were relatively low, it might suggest that the SS exceedances at I1 is deemed to be unrelated to the Project.</p> <p>Site tidiness in the present barges in the Project site were checked during weekly site inspection on 13/02, where was no major observation of 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 remained to implement all applicable mitigation measures as per the Updated EM&A Manual.			
Mid-Ebb				
Monitoring Location	I2 : A (N22°11.312 E113°59.230) I7 : B (N22°11.345 E113°59.241) I8 : C (N22°11.279 E113°59.264)			

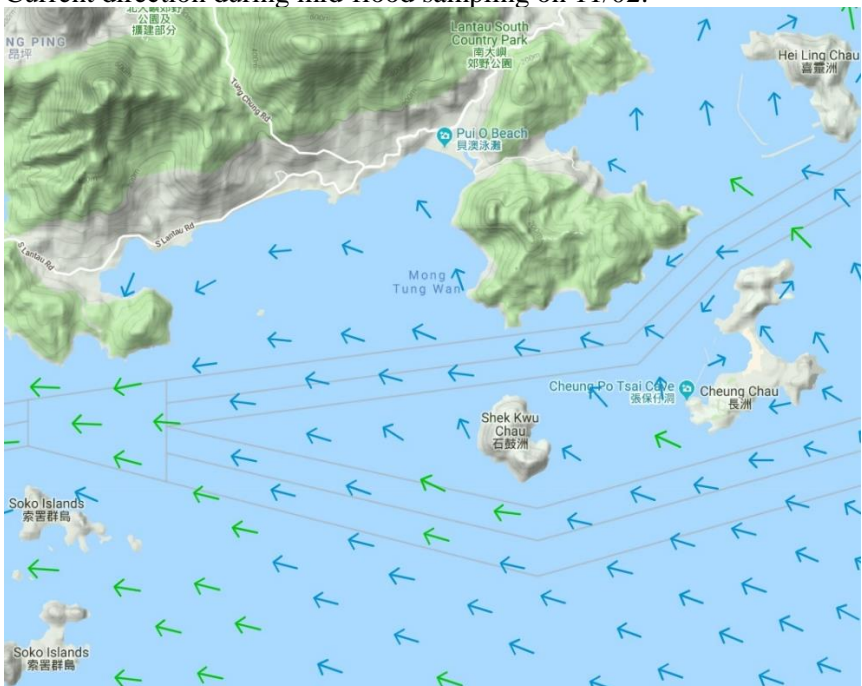


Tide Direction



Note: Drawing is not to scale

Parameter	Suspended Solid (SS)		
Action & Limit Levels	Action Level		Limit Level
	≥ 2.6 mg/L (120% of average of UC1 & UC2)		≥ 2.8 mg/L (130% of average of UC1 & UC2)
Measurement Level	Impact Station(s) of Exceedance	Control Stations	Impact Station(s) without Exceedance
	2.7 mg/L (I2) 3.0 mg/L (I7)	2.0 mg/L (UC1) 2.3 mg/L (UC2)	2.0 mg/L (I1) 2.0 mg/L (I3)

	3.5 mg/L (I8)		2.0 mg/L (I4) 2.0 mg/L (I5) 2.5 mg/L (I6) 2.3 mg/L (I9) 2.0 mg/L (I10)
Possible reason for Action or Limit Level Non-compliance	<p>Works scheduled on site on 11/02 include sand blanket laying at caisson seawall area, cone penetration test plant trial, DCM sample coring and DCM main works.</p> <p>Dominating sea current direction was found to be from Northwest to Southeast at waters around Shek Kwu Chau.</p> <p>From MMO monitoring records on 11/02, MMO teams were arranged to two DCM barges (ESC-61 & ESC-62) and two derrick barges (Shun Tat D12 & FTB-19) on that day while no deficiency of silt curtain was found before the start of construction activity.</p> <p>I2, I7 & I8 are located close to the works location within the Project site while silt curtain checking was implemented on ESC-61 (09:00), ESC-62 (08:45) and Shun Tat D12 (10:00) by the Contractor and checking results showed that no deficiency of silt curtain was found on that day. No sand blanket laying work was carried out on FTB-19 due to maintenance of FTB-19 on that day. When compared to the baseline data of dry season (Action Level: 8mg/L & Limit Level: 10mg/L), most of the monitoring stations (including upstream control station UC1 and UC2) were relatively low, it might suggest that the SS exceedances at I2, I7 & I8 are deemed to be unrelated to the Project.</p> <p>Site tidiness in the present barges in the Project site were checked during weekly site inspection on 13/02, where was no major observation of 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 remained to implement all applicable mitigation measures as per the Updated EM&A Manual.		
Remarks	<p>Note: N/A – cancelled due to the monitoring station positioning on land.</p> <p>Current direction during mid-flood sampling on 11/02:</p> 		

Current direction during mid-ebb sampling on 11/02:


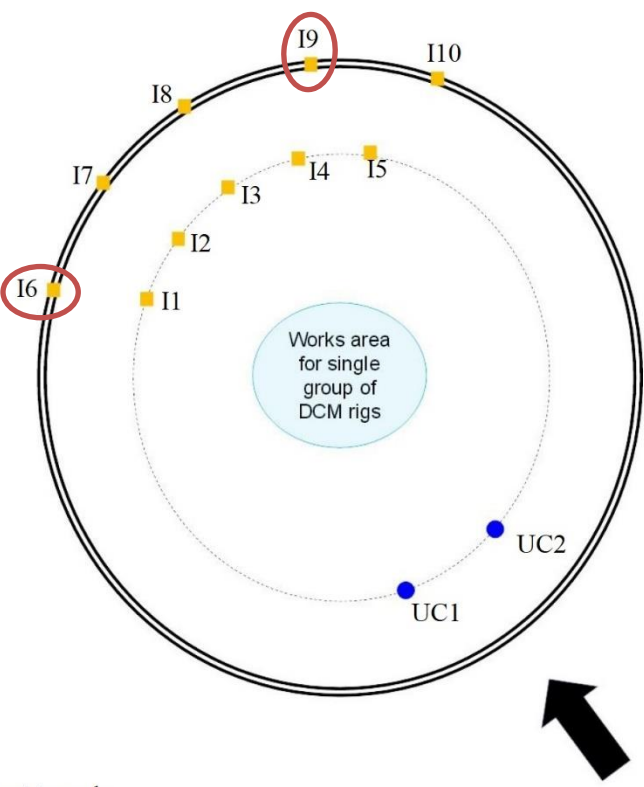


Legend	
Speed (knot)	Speed (knot)
0-0.5	1.5-2.0
0.5-1.0	2.0-2.5
1.0-1.5	2.5 and above

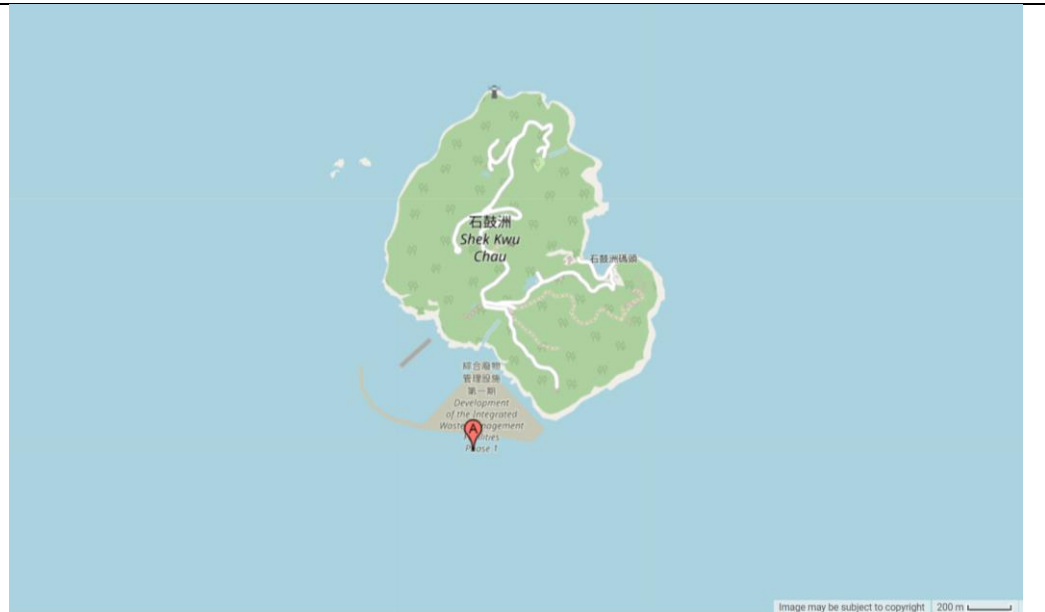
(Sourced from <http://current.hydro.gov.hk/en/map.html>)

Prepared by	Polar Chan
Date	19 February 2019

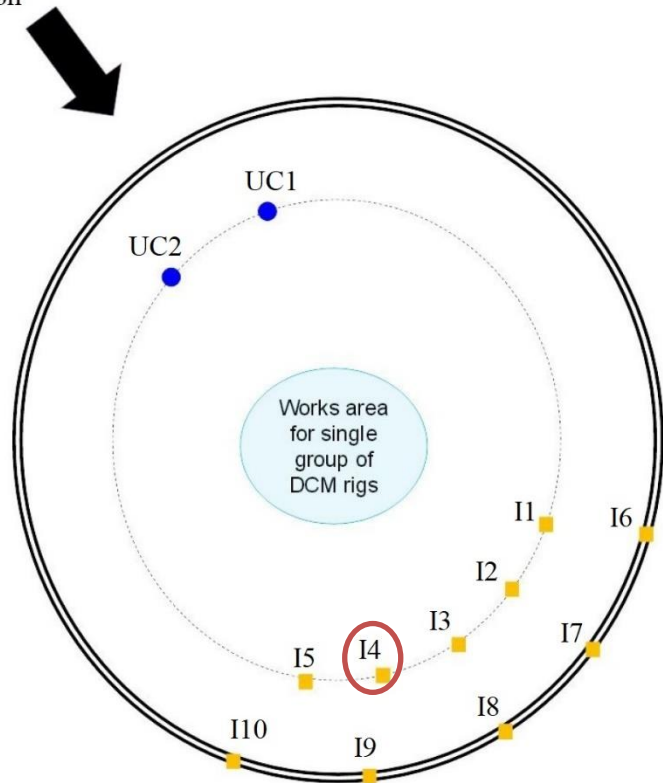
Incident Report on Action Level or Limit Level Non-compliance

Project	Integrated Waste Management Facilities, Phase 1	
Date	12 February 2019 (Lab result received on 19 February 2019)	
Time	09:22 – 12:52 (Mid-Flood) 15:07 – 19:00 (Mid-Ebb)	
Mid-Flood		
Monitoring Location	<p>I6 : A (N22°11.406 E113° 59.968) I9 : B (N22°11.415 E113° 59.032)</p>   <p>Note: Drawing is not to scale</p>	
Parameter	Suspended Solid (SS)	
Action & Limit Levels	Action Level	Limit Level

	≥ 3.5 mg/L (120% of average of UC1 & UC2)	≥ 3.8 mg/L (130% of average of UC1 & UC2)	
Measurement Level	Impact Station(s) of Exceedance	Control Stations	Impact Station(s) without Exceedance
	3.5 mg/L (I6) 4.0 mg/L (I9)	3.2 mg/L (UC1) 2.7 mg/L (UC2)	2.5 mg/L (I1) 2.3 mg/L (I2) 2.5 mg/L (I3) 2.7 mg/L (I4) N/A (I5) 2.5 mg/L (I7) 3.0 mg/L (I8) N/A (I10)
Possible reason for Action or Limit Level Non-compliance	<p>Works scheduled on site on 12/02 include Cone Penetration Test plant trial, sand blanket laying at caisson seawall area, DCM sample coring and DCM main works.</p> <p>Dominating sea current direction was found to be from Southeast to Northwest at waters around Shek Kwu Chau.</p> <p>From MMO monitoring records on 12/02, MMO teams were arranged to two DCM barges (ESC-61 & ESC-62) and two derrick barges (Shun Tat D12 & FTB-19) on that day while no deficiency of silt curtain was found before the start of construction activity.</p> <p>I6 & I9 are located close to the works location within the Project site while silt curtain checking was implemented on ESC-61 (08:00), ESC-62 (08:00) and Shun Tat D12 (11:00) by the Contractor and checking results showed that no deficiency of silt curtain was found on that day. No sand blanket playing work was carried out on FTB-19 with referring to the site diary on that day. When compared to the baseline data of dry season (Action Level: 8mg/L & Limit Level: 10mg/L), most of the monitoring stations (including upstream control station UC1 and UC2) were relatively low, it might suggest that the SS exceedances at I6 & I9 are deemed to be unrelated to the Project.</p> <p>Site tidiness in the present barges in the Project site were checked during weekly site inspection on 13/02, where was no major observation of 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 remained to implement all applicable mitigation measures as per the Updated EM&A Manual.		
Mid-Ebb			
Monitoring Location	I4 : A (N22°11.312 E113°59.230)		



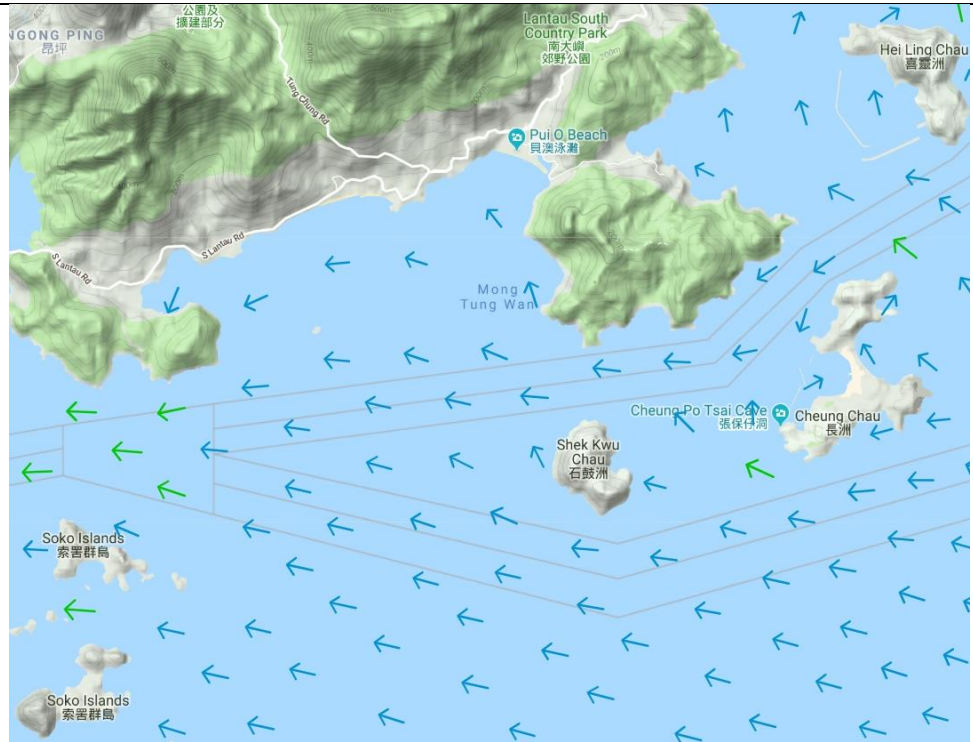
Tide Direction



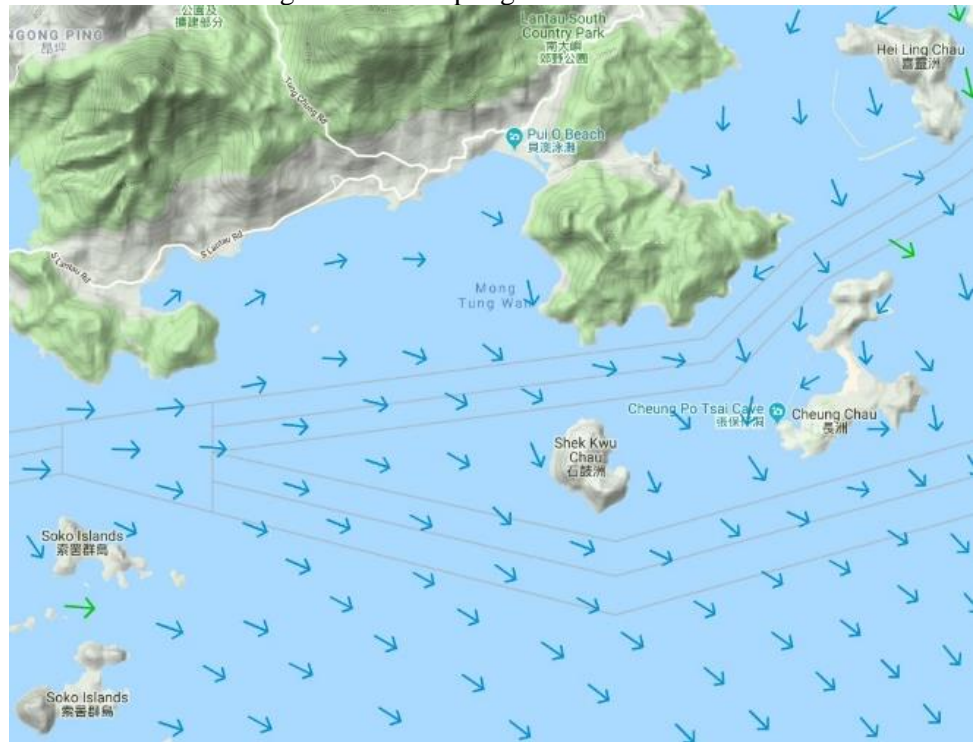
Note: Drawing is not to scale

Parameter	Suspended Solid (SS)		
Action & Limit Levels	Action Level		Limit Level
	≥ 5.3 mg/L (120% of average of UC1 & UC2)		≥ 5.7 mg/L (130% of average of UC1 & UC2)
Measurement Level	Impact Station(s) of Exceedance	Control Stations	Impact Station(s) without Exceedance
	5.3 mg/L (I4)	4.3 mg/L (UC1) 4.5 mg/L (UC2)	4.2 mg/L (I1) 5.0 mg/L (I2) 3.7 mg/L (I3)

			2.3 mg/L (I5) 3.3 mg/L (I6) 4.8 mg/L (I7) 3.3 mg/L (I8) 3.0 mg/L (I9) 4.2 mg/L (I10)
Possible reason for Action or Limit Level Non-compliance	<p>Works scheduled on site on 12/02 include Cone Penetration Test plant trial, sand blanket laying at caisson seawall area, DCM sample coring and DCM main works.</p> <p>Dominating sea current direction was found to be from Northwest to Southeast at waters around Shek Kwu Chau.</p> <p>From MMO monitoring records on 12/02, MMO teams were arranged to two DCM barges (ESC-61 & ESC-62) and two derrick barges (Shun Tat D12 & FTB-19) on that day while no deficiency of silt curtain was found before the start of construction activity.</p> <p>I4 is located close to the works location within the Project site while silt curtain checking was implemented on ESC-61 (08:00), ESC-62 (08:00) and Shun Tat D12 (11:00) by the Contractor and checking results showed that no deficiency of silt curtain was found on that day. No sand blanket playing work was carried out on FTB-19 with referring to the site diary on that day. When compared to the baseline data of dry season (Action Level: 8mg/L & Limit Level: 10mg/L), most of the monitoring stations (including upstream control station UC1 and UC2) were relatively low, it might suggest that the SS exceedances at I4 is deemed to be unrelated to the Project.</p> <p>Site tidiness in the present barges in the Project site were checked during weekly site inspection on 13/02, where was no major observation of 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 remained to implement all applicable mitigation measures as per the Updated EM&A Manual.		
Remarks	Note: N/A – cancelled due to the monitoring station positioning on land. Current direction during mid-flood sampling on 12/02:		



Current direction during mid-ebb sampling on 12/02:




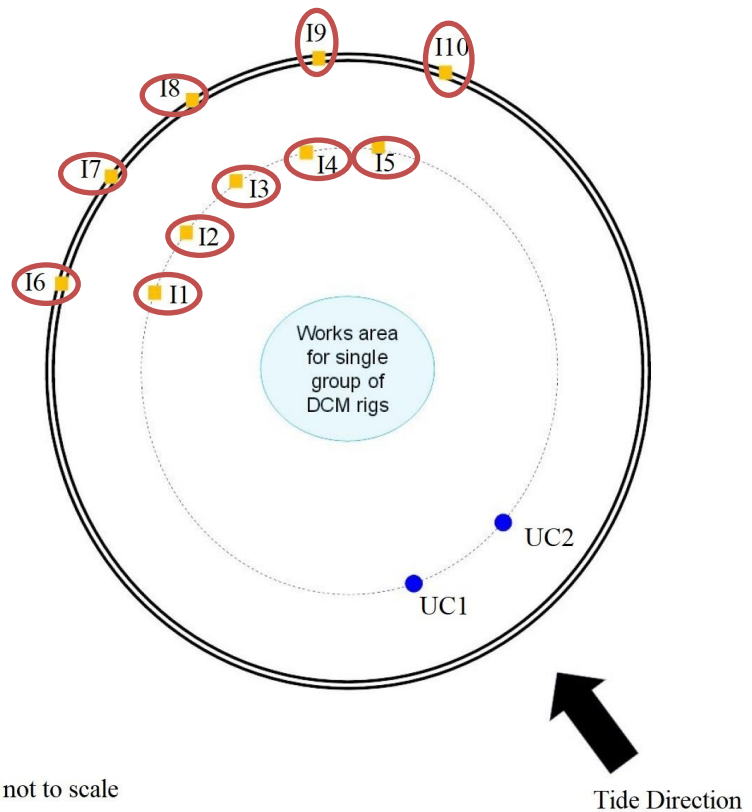
Legend	
Speed (knot)	Speed (knot)
0-0.5	1.5-2.0
0.5-1.0	2.0-2.5
1.0-1.5	2.5 and above

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

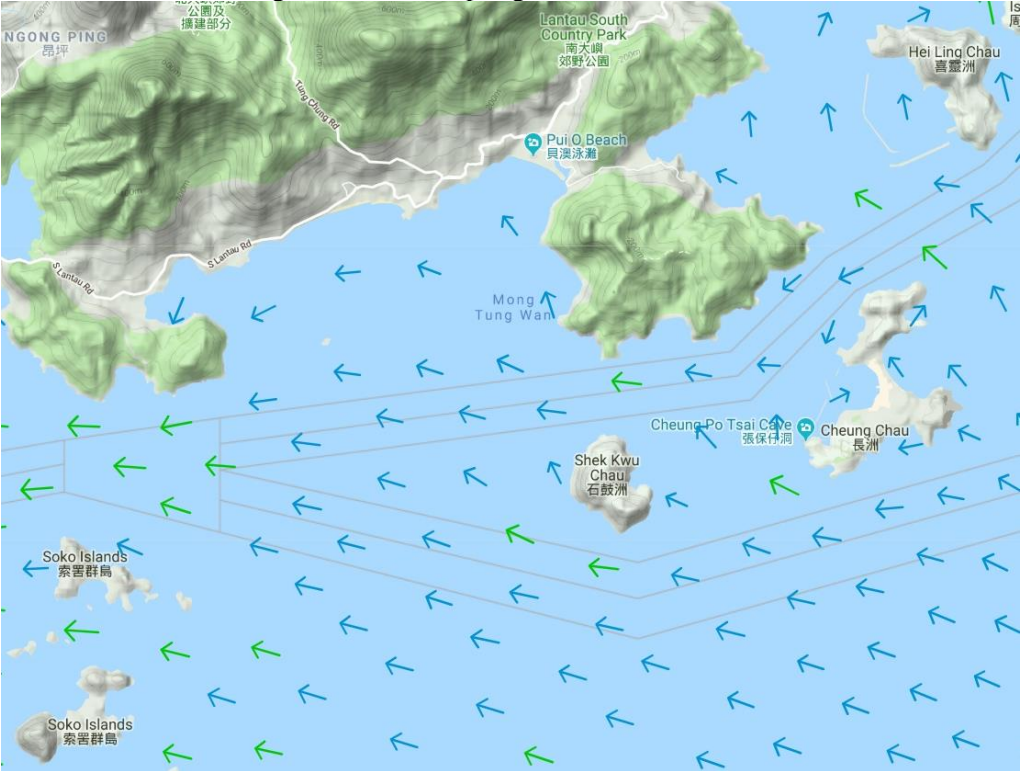
Prepared by	Polar Chan
Date	20 February 2019

Incident Report on Action Level or Limit Level Non-compliance


Project	Integrated Waste Management Facilities, Phase 1
Date	13 February 2019 (Lab result received on 19 February 2019)
Time	10:05 – 13:35 (Mid-Flood)
Mid-Flood	
Monitoring Location	<p> I1 : A (N22°11.342 E113° 59.010) I2 : B (N22°11.348 E113° 59.030) I3 : C (N22°11.395 E113° 59.069) I4 : D (N22°11.406 E113° 59.055) I5 : E (N22°11.438 E113° 59.107) I6 : F (N22°11.308 E113° 58.944) I7 : G (N22°11.383 E113° 58.956) I8 : H (N22°11.415 E113° 58.983) I9 : I (N22°11.447 E113° 59.026) I10 : J (N22°11.475 E113° 59.045) </p> 

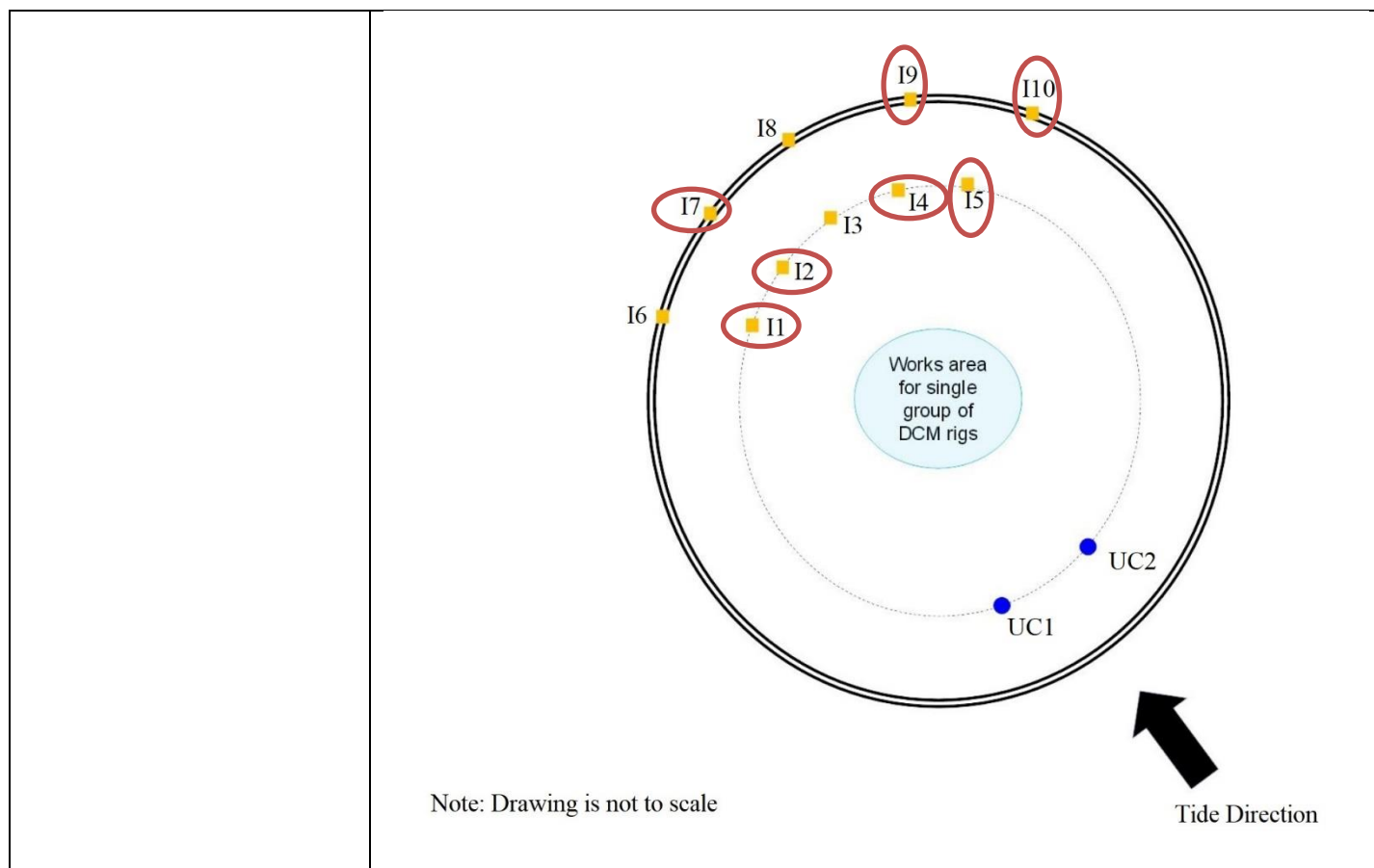


Parameter	Suspended Solid (SS)		
Action & Limit Levels	Action Level		Limit Level
	≥ 3.7 mg/L (120% of average of UC1 & UC2)		≥ 4.0 mg/L (130% of average of UC1 & UC2)
Measurement Level	Impact Station(s) of Exceedance	Control Stations	Impact Station(s) without Exceedance
	3.8 mg/L (I1) 4.0 mg/L (I2) 4.3 mg/L (I3) 5.8 mg/L (I4) 10.0 mg/L (I5) 6.7 mg/L (I6) 6.8 mg/L (I7) 6.7 mg/L (I8) 5.0 mg/L (I9) 9.2 mg/L (I10)	3.7 mg/L (UC1) 2.5 mg/L (UC2)	
Possible reason for Action or Limit Level Non-compliance	<p>Works scheduled on site on 13/02 include cone penetration test plant trial, post Cone Penetration Test work for DCM main works, laying of sand blanket at caisson seawall area, DCM sample coring and DCM main works.</p> <p>Dominating sea current direction was found to be from Southeast to Northwest at waters around Shek Kwu Chau.</p> <p>From MMO monitoring records on 13/02, MMO teams were arranged to two DCM barges (ESC-61 & ESC-62) and two derrick barges (Shun Tat D12 & FTB-19) on that day while no deficiency of silt curtain was found before the start of construction activity.</p> <p>I1, I2, I3, I4, I5, I6, I7, I8, I9 & I10 are located close to works location within the</p>		


	<p>project site while silt curtain checking was implemented on ESC-61 (08:50), ESC-62 (08:40) and Shun Tat D12 (10:00) by the Contractor and checking results showed that no deficiency of silt curtain was found on that day. No sand blanket playing works were carried out on FTB-19 & Cheung Kee No.7 with referring to the site diary on that day. It might suggest that the SS exceedances are deemed to be unrelated to the Project.</p> <p>Site tidiness in the present barges in the Project site were checked during weekly site inspection on 13/02, where was no major observation of improper site practice that might contribute to the increase in SS level was observed during the inspection.</p>
<p>Actions taken / to be taken</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-flood sampling on 13/02:</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>20 February 2019</p>

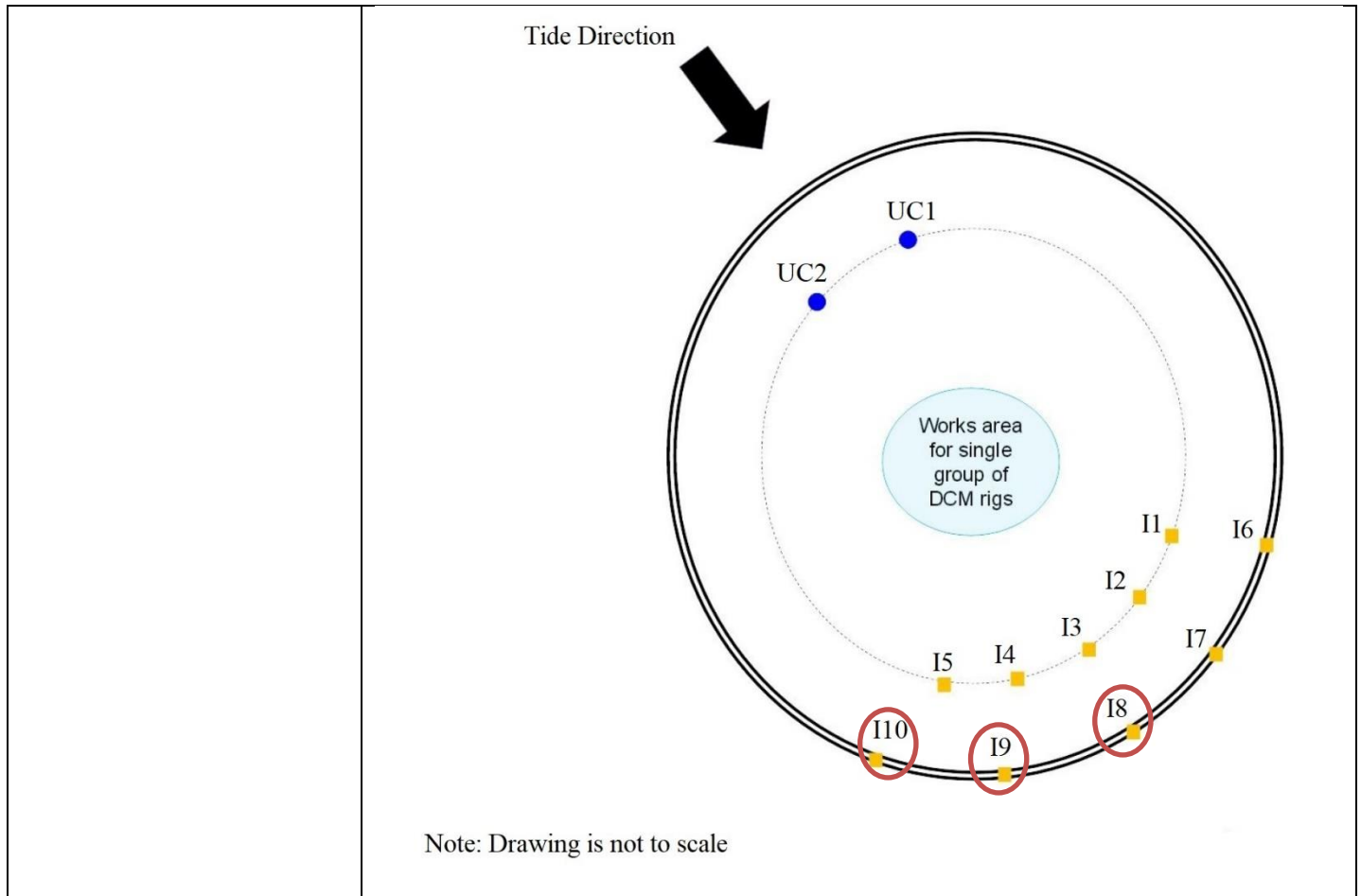
Incident Report on Action Level or Limit Level Non-compliance

Project	Integrated Waste Management Facilities, Phase 1
Date	14 February 2019 (Lab result received on 20 February 2019)
Time	10:47 – 14:17 (Mid-Flood) 16:55 – 19:00 (Mid-Ebb)
Mid-Flood	
Monitoring Location	<p> I1 : A (N22°11.312 E113° 59.909) I2 : B (N22°11.351 E113° 58.976) I4 : C (N22°11.420 E113° 59.024) I5 : D (N22°11.448 E113° 59.046) I7 : E (N22°11.348 E113° 58.912) I9 : F (N22°11.474 E113° 58.947) I10 : G (N22°11.485 E113° 59.008) </p> 

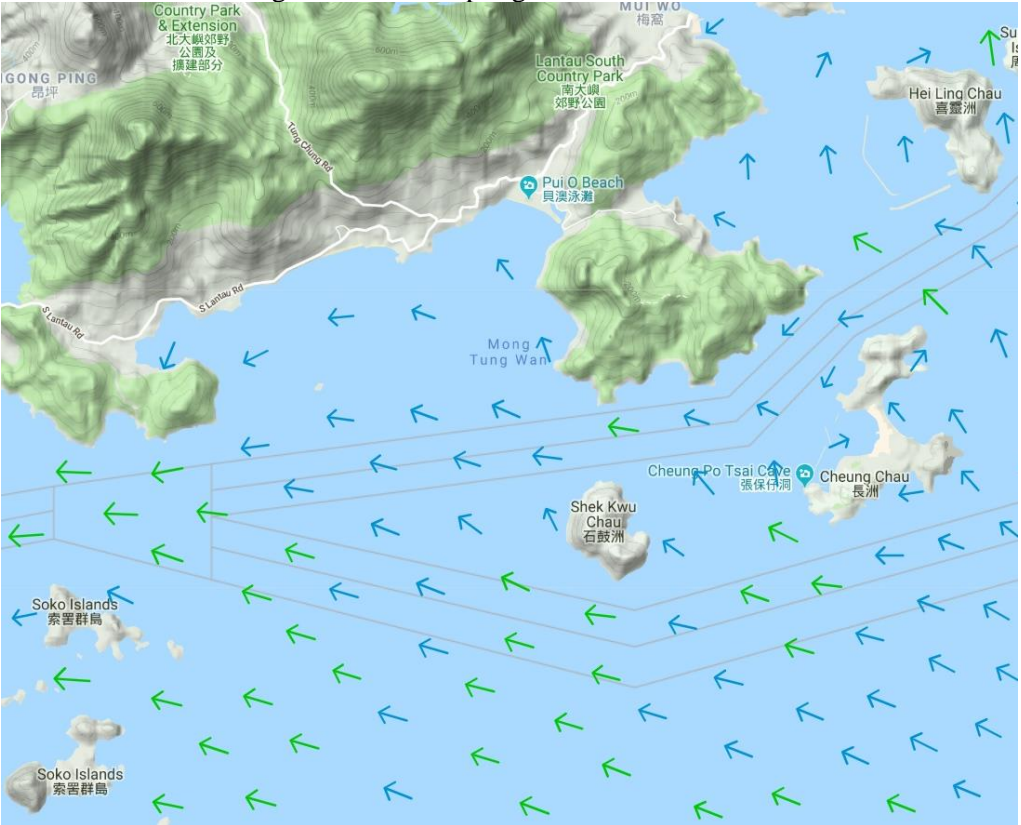


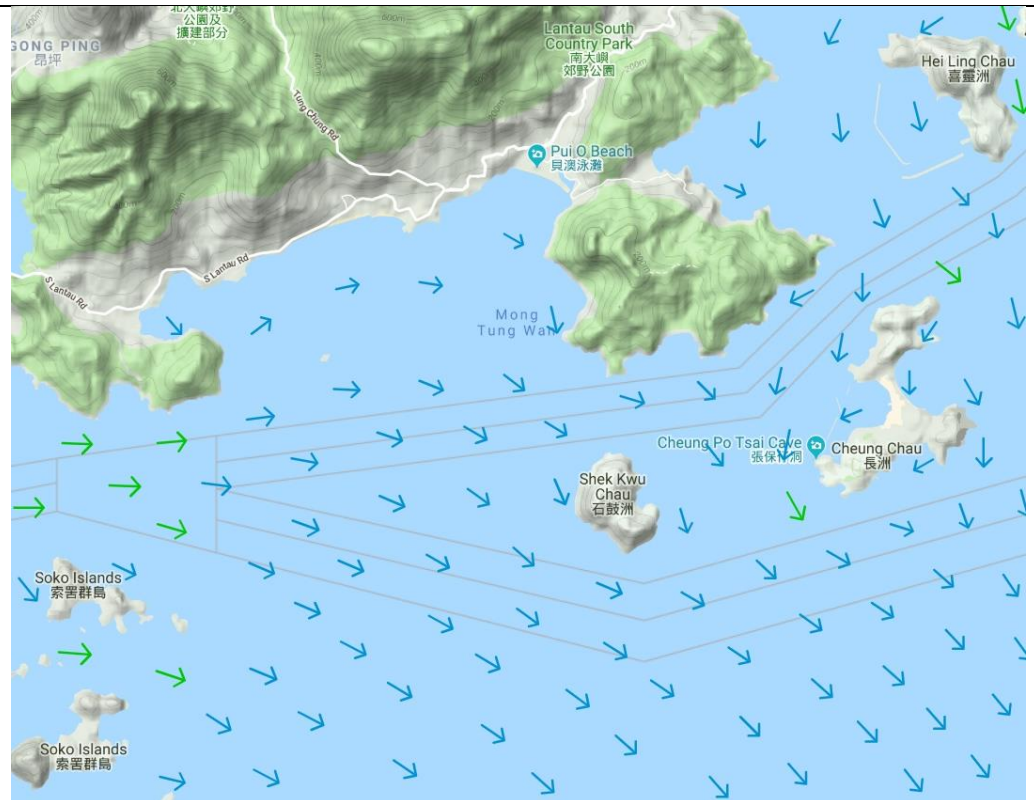
Parameter	Suspended Solid (SS)		
Action & Limit Levels	Action Level		Limit Level
	≥ 4.9 mg/L (120% of average of UC1 & UC2)		≥ 5.3 mg/L (130% of average of UC1 & UC2)
Measurement Level	Impact Station(s) of Exceedance	Control Stations	Impact Station(s) without Exceedance
	5.2 mg/L (I1) 6.7 mg/L (I2) 6.3 mg/L (I4) 5.0 mg/L (I5) 5.8 mg/L (I7) 5.5 mg/L (I9) 7.5 mg/L (I10)	3.3 mg/L (UC1) 4.8 mg/L (UC2)	4.0 mg/L (I3) 4.8 mg/L (I6) 4.5 mg/L (I8)
Possible reason for Action or Limit Level Non-compliance	<p>Works scheduled on site on 14/02 include sand blanket laying at caisson seawall area, cone penetration test plant trial, post cone penetration test work, DCM sample coring and DCM main works.</p> <p>Dominating sea current direction was found to be from Southeast to Northwest at waters around Shek Kwu Chau.</p> <p>From MMO monitoring records on 14/02, MMO teams were arranged to two DCM barges (ESC-61 & ESC-62) and one derrick barge (FTB-19) on that day while no deficiency of silt curtain was found before the start of construction activity.</p> <p>I1, I2, I4, I5, I7, I9 & I10 are located close to the works location within the Project site while silt curtain checking was implemented on ESC-61 (07:30) and ESC-62 (07:30) by the Contractor and checking results showed that no deficiency of silt curtain was found on that day. No sand blanket laying works were carried out on Shun Tat D12, FTB-19, Cheung Kee No.7 and Kam Ying No.8 with referring to the site diary on that</p>		

	<p>day. It might suggest that SS exceedances are deemed to be unrelated to the Project.</p> <p>Site tidiness in the present barges in the Project site were checked during weekly site inspection on 13/02, where was no major observation of improper site practice that might contribute to the increase in SS level was observed during the inspection.</p>
<p>Actions taken / to be taken</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>Mid-Ebb</p>	
<p>Monitoring Location</p>	<p>I8 : A (N22°11.259 E113° 59.248) I9 : B (N22°11.180 E113° 59.207) I10 : C (N22°11.170 E113° 59.147)</p> 



Parameter	Suspended Solid (SS)		
Action & Limit Levels	Action Level		Limit Level
	≥ 5.8 mg/L (120% of average of UC1 & UC2)		≥ 6.3 mg/L (130% of average of UC1 & UC2)
Measurement Level	Impact Station(s) of Exceedance	Control Stations	Impact Station(s) without Exceedance
	7.7 mg/L (I8) 10.0 mg/L (I9) 11.0 mg/L (I10)	5.0 mg/L (UC1) 4.7 mg/L (UC2)	2.0 mg/L (I1) 3.3 mg/L (I2) 4.2 mg/L (I3) 4.7 mg/L (I4) 3.8 mg/L (I5) 2.5 mg/L (I6) 4.7 mg/L (I7)
Possible reason for Action or Limit Level Non-compliance	<p>Works scheduled on site on 14/02 include sand blanket laying at caisson seawall area, cone penetration test plant trial, post cone penetration test work, DCM sample coring and DCM main works.</p> <p>Dominating sea current direction was found to be from Southeast to Northwest at waters around Shek Kwu Chau.</p> <p>From MMO monitoring records on 14/02, MMO teams were arranged to two DCM barges (ESC-61 & ESC-62) and one derrick barge (FTB-19) on that day while no deficiency of silt curtain was found before the start of construction activity.</p> <p>I8, I9 & I10 are located close to the works location within the Project site while silt curtain checking was implemented on ESC-61 (07:30) and ESC-62 (07:30) by the Contractor and checking results showed that no deficiency of silt curtain was found on that day. No sand blanket laying works were carried out on Shun Tat D12, FTB-19,</p>		

	<p>Cheung Kee No.7 and Kam Ying No.8 with referring to the site diary on that day. It might suggest that SS exceedances are deemed to be unrelated to the Project.</p> <p>Site tidiness in the present barges in the Project site were checked during weekly site inspection on 13/02, where was no major observation of improper site practice that might contribute to the increase in SS level was observed during the inspection.</p>
<p>Actions taken / to be taken</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-flood sampling on 14/02:</p>  <p>Current direction during mid-ebb sampling on 14/02:</p>



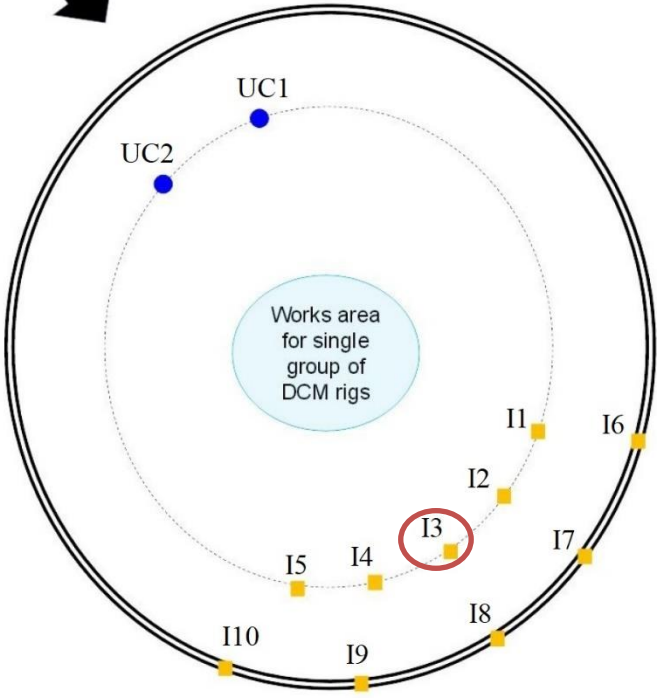


Legend			
Speed (knot)		Speed (knot)	
0-0.5	→	1.5-2.0	→
0.5-1.0	→	2.0-2.5	→
1.0-1.5	→	2.5 and above	→

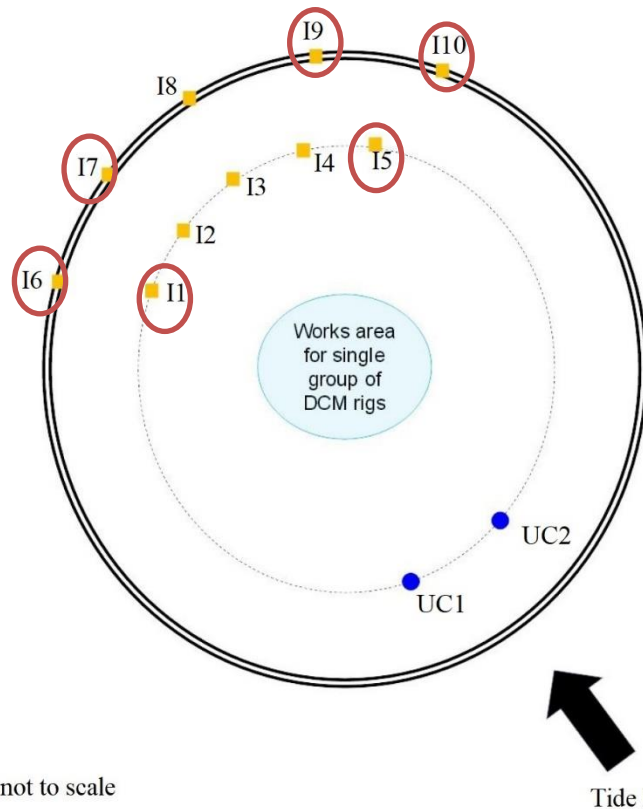
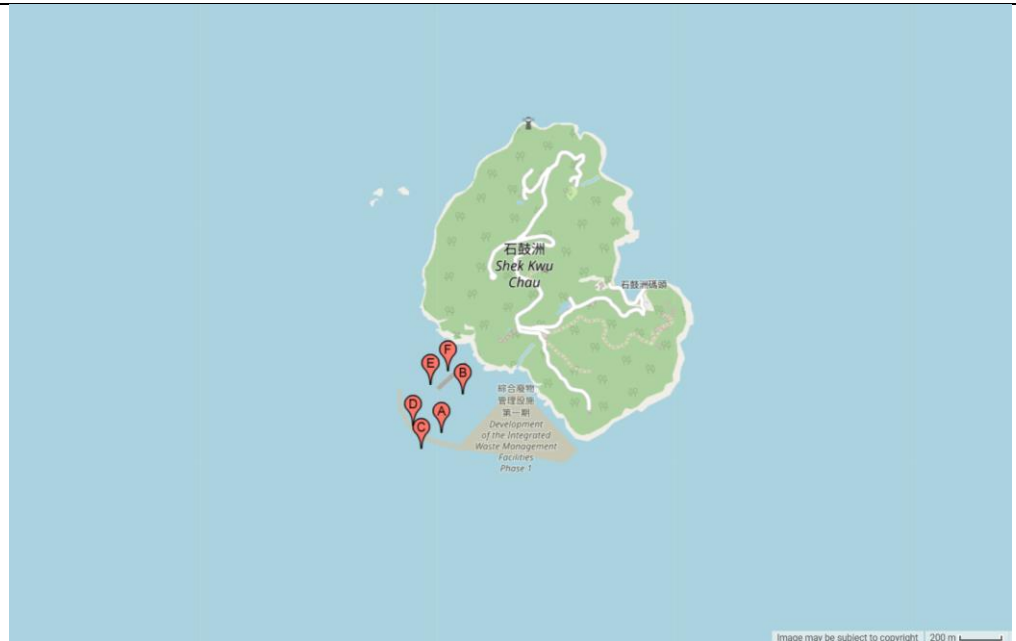
(Sourced from <http://current.hydro.gov.hk/en/map.html>)

Prepared by	Polar Chan
Date	21 February 2019

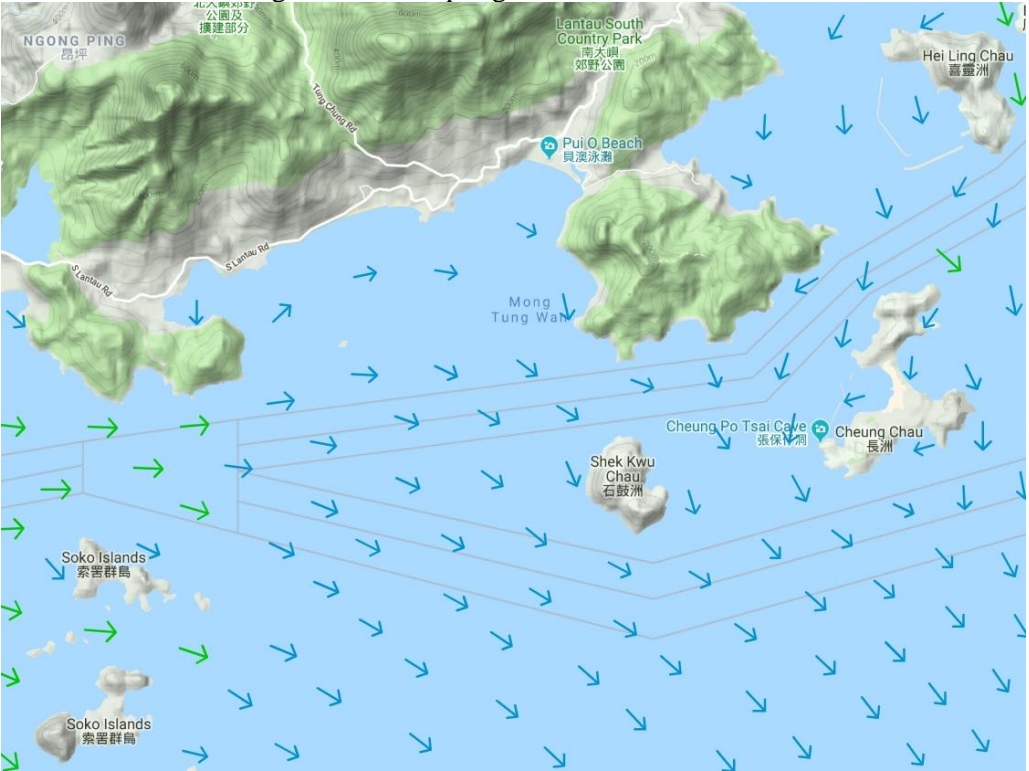
Incident Report on Action Level or Limit Level Non-compliance

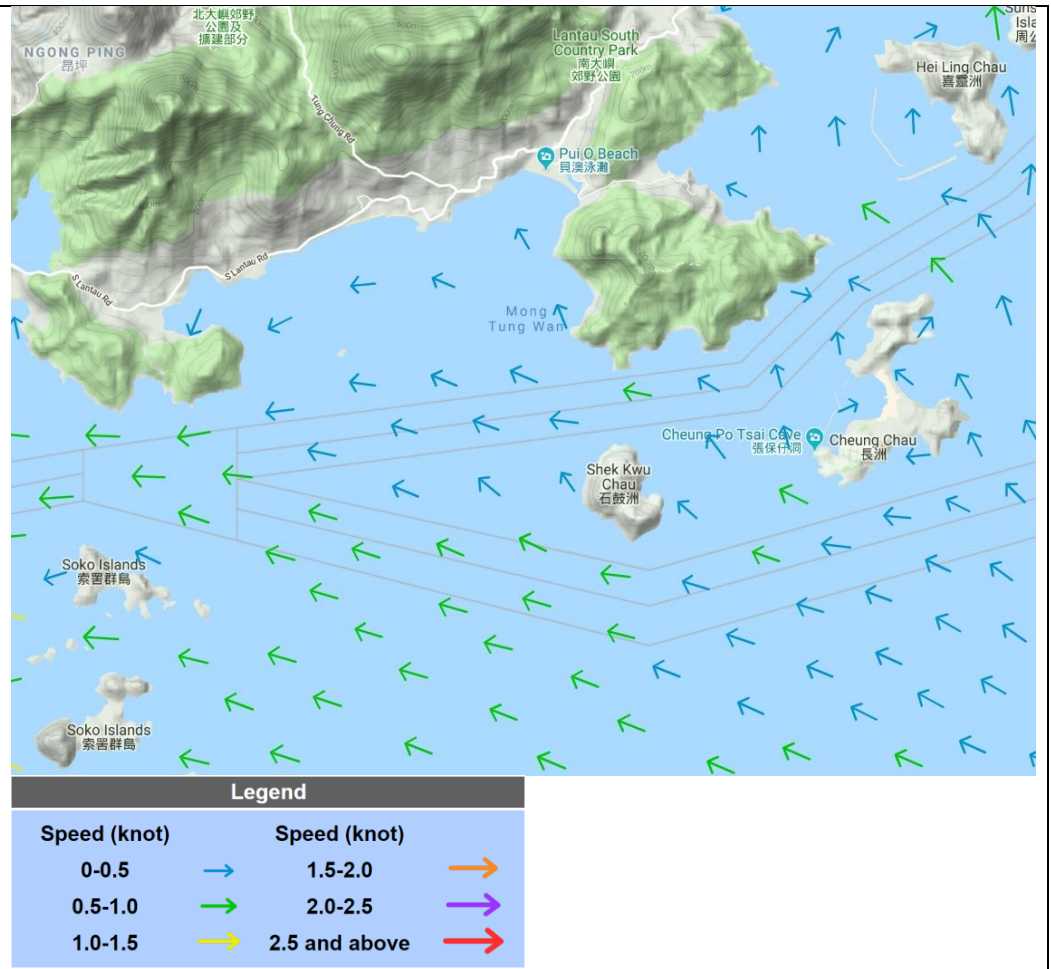
Project	Integrated Waste Management Facilities, Phase 1
Date	15 February 2019 (Lab result received on 20 February 2019)
Time	08:00 – 09:17 (Mid-Ebb) 11:39 – 15:09 (Mid-Flood)
Mid-Ebb	
Monitoring Location	<p>I3 : A (N22°11.258 E113° 59.226)</p>  <p style="text-align: right; font-size: small;">Image may be subject to copyright 200 m</p> <p style="text-align: center;">Tide Direction </p>  <p>Note: Drawing is not to scale</p>

Parameter	Suspended Solid (SS)		
Action & Limit Levels	Action Level		Limit Level
	≥ 4.0 mg/L (120% of average of UC1 & UC2)		≥ 4.3 mg/L (130% of average of UC1 & UC2)
Measurement Level	Impact Station(s) of Exceedance	Control Stations	Impact Station(s) without Exceedance
	4.0 mg/L (I3)	4.0 mg/L (UC1) 2.7 mg/L (UC2)	2.8 mg/L (I1) 3.8 mg/L (I2) 2.7 mg/L (I4) 2.7 mg/L (I5) 2.3 mg/L (I6) 3.2 mg/L (I7) 3.3 mg/L (I8) 2.5 mg/L (I9) 2.5 mg/L (I10)
Possible reason for Action or Limit Level Non-compliance	<p>Works scheduled on site on 15/02 include sand blanket laying at caisson seawall area, cone penetration test plant trial, post cone penetration tests for DCM main works, DCM sample coring and DCM main works.</p> <p>Dominating sea current direction was found to be from Northwest to Southeast at waters around Shek Kwu Chau.</p> <p>From MMO monitoring records on 15/02, MMO teams were arranged to two DCM barges (ESC-61 & ESC-62) and two derrick barges (Shun Tat D12 & FTB-19) on that day while no deficiency of silt curtain was found before the start of construction activity.</p> <p>I3 is located close to the works location within the Project site while silt curtain checking was implemented on ESC-61 (08:00) and ESC-62 (09:00) by the Contractor and checking results showed that no deficiency of silt curtain was found on that day. No sand blanket laying works were carried out at Shun Tat D12 & FTB-19 with referring to the site diary on the day. Since most of the monitoring locations had relatively low SS results (including upstream control station UC1 and UC2), it might suggest that the SS exceedances at I3 is deemed to be unrelated to the Project.</p>		
Actions taken / to be taken	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.		
Mid-Flood			
Monitoring Location	I1: A (N22°11.322 E113° 58.997) I5 : B (N22°11.423 E113° 59.057) I6 : C (N22°11.283 E113° 58.941) I7 : D (N22°11.341 E113° 58.918) I9 : E (N22°11.448 E113° 58.965) I10 : F (N22°11.483 E113° 59.014)		



Parameter	Suspended Solid (SS)		
Action & Limit Levels	Action Level		Limit Level
	≥ 2.5 mg/L (120% of average of UC1 & UC2)		≥ 2.7 mg/L (130% of average of UC1 & UC2)
Measurement Level	Impact Station(s) of Exceedance	Control Stations	Impact Station(s) without Exceedance
	2.5 mg/L (I1) 2.8 mg/L (I5) 2.5 mg/L (I6) 3.7 mg/L (I7)	2.2 mg/L (UC1) 2.0 mg/L (UC2)	2.2 mg/L (I2) 2.3 mg/L (I3) 2.0 mg/L (I4) 2.2 mg/L (I8)


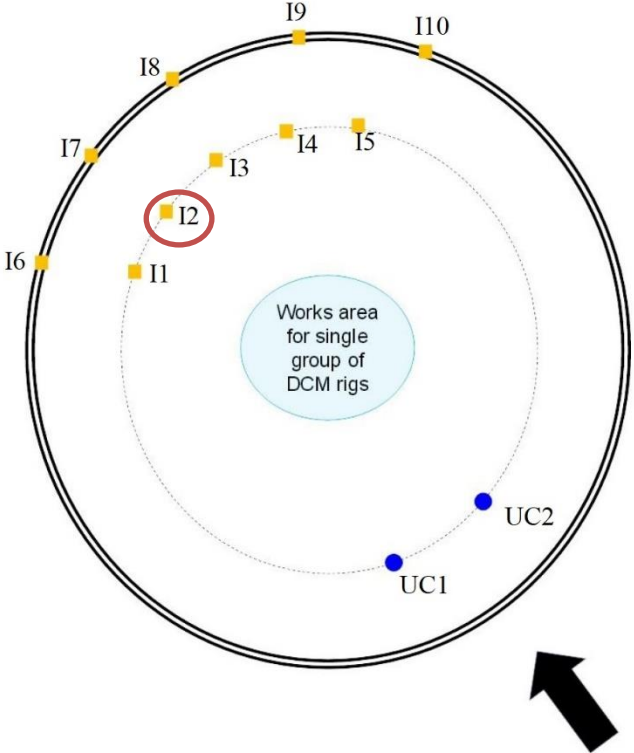
	2.8 mg/L (I9) 4.0 mg/L (I10)		
Possible reason for Action or Limit Level Non-compliance	<p>Works scheduled on site on 15/02 include sand blanket laying at caisson seawall area, cone penetration test plant trial, post cone penetration tests for DCM main works, DCM sample coring and DCM main works.</p> <p>Dominating sea current direction was found to be from Southeast to Northwest at waters around Shek Kwu Chau.</p> <p>From MMO monitoring records on 15/02, MMO teams were arranged to two DCM barges (ESC-61 & ESC-62) and two derrick barges (Shun Tat D12 & FTB-19) on that day while no deficiency of silt curtain was found before the start of construction activity.</p> <p>I1, I5, I6, I7, I9 and I10 are located close to the works location within the Project site while silt curtain checking was implemented on ESC-61 (08:00) and ESC-62 (09:00) by the Contractor and checking results showed that no deficiency of silt curtain was found on that day. No sand blanket laying works were carried out at Shun Tat D12 & FTB-19 with referring to the site diary on the day. Since most of the monitoring locations had relatively low SS results (including upstream control station UC1 and UC2), it might suggest that the SS exceedances at I1, I5, I6, I7, I9 and I10 are deemed to be unrelated to the Project.</p>		
Actions taken / to be taken	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.		
Remarks	<p>Current direction during mid-ebb sampling on 15/02:</p>  <p>Current direction during mid-flood sampling on 15/02:</p>		



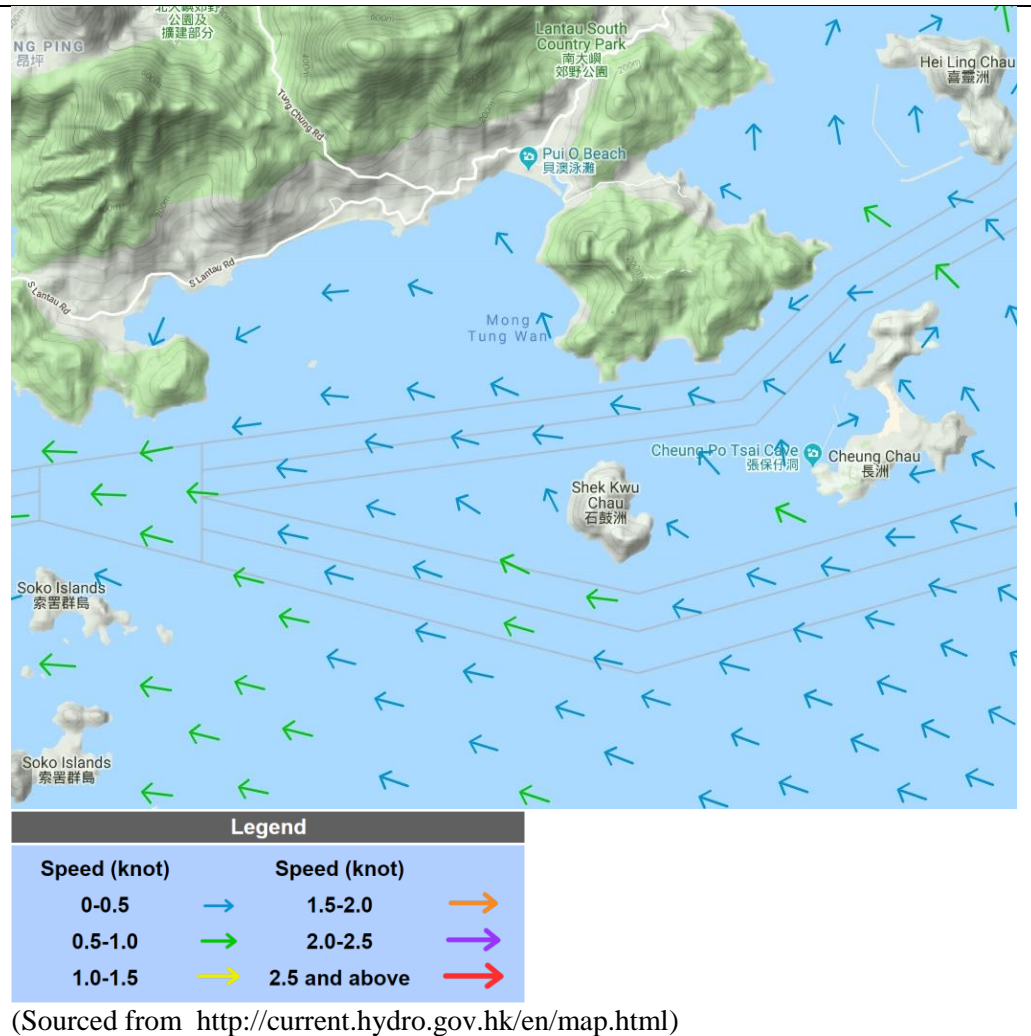
(Sourced from <http://current.hydro.gov.hk/en/map.html>)

Prepared by	Polar Chan
Date	21 February 2019

Incident Report on Action Level or Limit Level Non-compliance


Project	Integrated Waste Management Facilities, Phase 1	
Date	16 February 2019 (Lab result received on 20 February 2019)	
Time	12:51 – 16:21 (Mid-Flood)	
Monitoring Location	Mid-Flood	
	I2 : A (N22°11.350 E113° 58.994)	
		
	 <p data-bbox="520 1861 820 1890">Note: Drawing is not to scale</p> <p data-bbox="1294 1872 1449 1901">Tide Direction</p>	
Parameter	Suspended Solid (SS)	
Action & Limit Levels	Action Level	Limit Level
	≥ 4.6 mg/L (120% of average of UC1 & UC2)	≥ 5.0 mg/L (130% of average of UC1 & UC2)

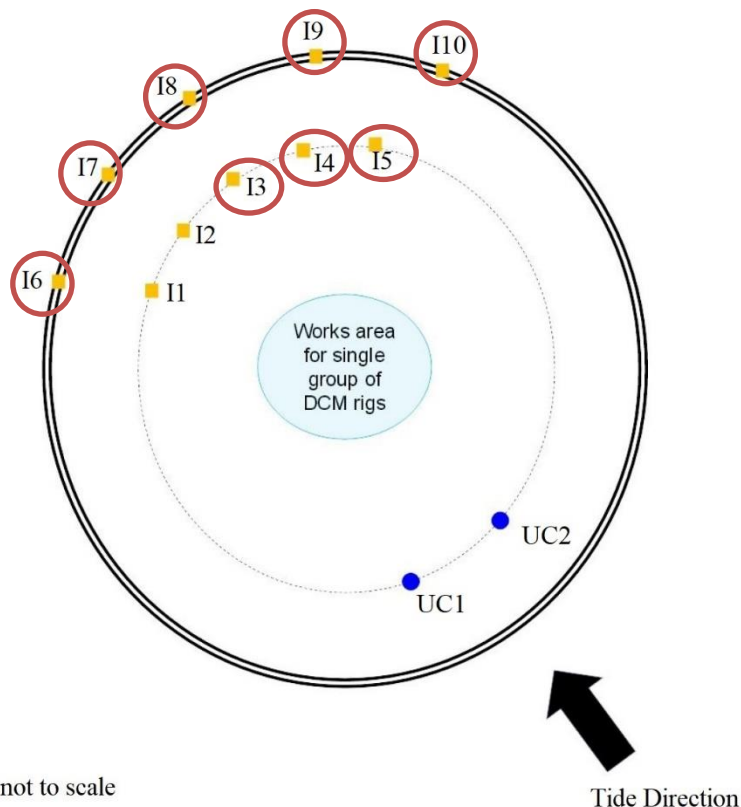
Measurement Level	Impact Station(s) of Exceedance	Control Stations	Impact Station(s) without Exceedance
	4.8 mg/L (I2)	3.2 mg/L (UC1) 4.5 mg/L (UC2)	4.2 mg/L (I1) 2.2 mg/L (I3) 2.0 mg/L (I4) 2.0 mg/L (I5) 4.3 mg/L (I6) 4.0 mg/L (I7) 3.0 mg/L (I8) 3.8 mg/L (I9) 2.0 mg/L (I10)
Possible reason for Action or Limit Level Non-compliance	<p>Works scheduled on site on 16/02 include laying of sand blanket at caisson seawall area, cone penetration test plant trial, post cone penetration test for DCM main works, DCM sample coring for DCM main works and DCM main works.</p> <p>Dominating sea current direction was found to be from Southeast to Northwest at waters around Shek Kwu Chau.</p> <p>From MMO monitoring records on 16/02, MMO teams were arranged to two DCM barges (ESC-61 & ESC-62) and two derrick barges (Shun Tat D12 & FTB-19) on that day while no deficiency of silt curtain was found before the start of construction activity.</p> <p>I2 is located close to the work location within the Project site while silt curtain checking was implemented on ESC-61 (08:15), ESC-62 (07:20), Shun Tat D12 (11:00) and FTB-19 (12:30) by the Contractor and checking results showed that no deficiency of silt curtain was found on that day. No sand blanket laying work scheduled in Kam Ying No.8 was carried out with referring to site diary on that day. When compared to the baseline data of dry season (Action Level: 8mg/L & Limit Level: 10mg/L), most of the monitoring stations (including upstream control station UC1 and UC2) were relatively low, it might suggest that the SS exceedance at I2 is deemed to be unrelated to the Project.</p>		
Actions taken / to be taken	<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>		
Remarks	<p>Current direction during mid-flood sampling on 16/02:</p>		



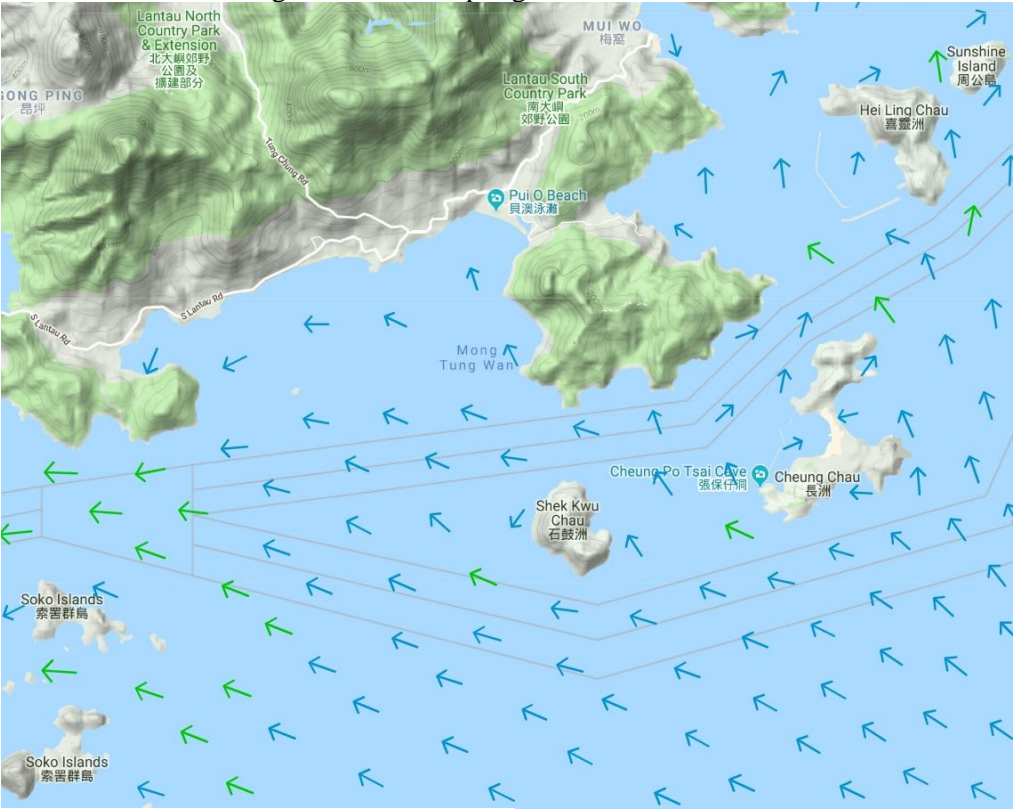
Prepared by	Polar Chan
Date	21 February 2019

Incident Report on Action Level or Limit Level Non-compliance


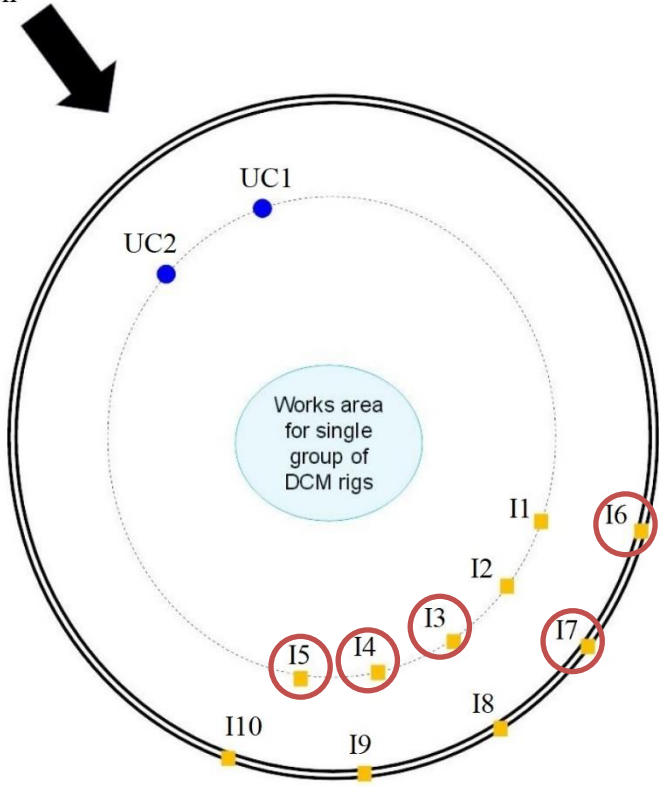
Project	Integrated Waste Management Facilities, Phase 1
Date	17 February 2019 (Lab result received on 21 February 2019)
Time	14:04 – 17:34 (Mid-Flood)
Mid-Flood	
Monitoring Location	<p>I3 : A (N22°11.374 E113° 59.005) I4 : B (N22°11.412 E113° 59.034) I5 : C (N22°11.429 E113° 59.082) I6 : D (N22°11.265 E113° 58.899) I7 : E (N22°11.327 E113° 58.916) I8 : F (N22°11.385 E113° 58.923) I9 : G (N22°11.421 E113° 58.975) I10 : H (N22°11.469 E113° 59.040)</p> 



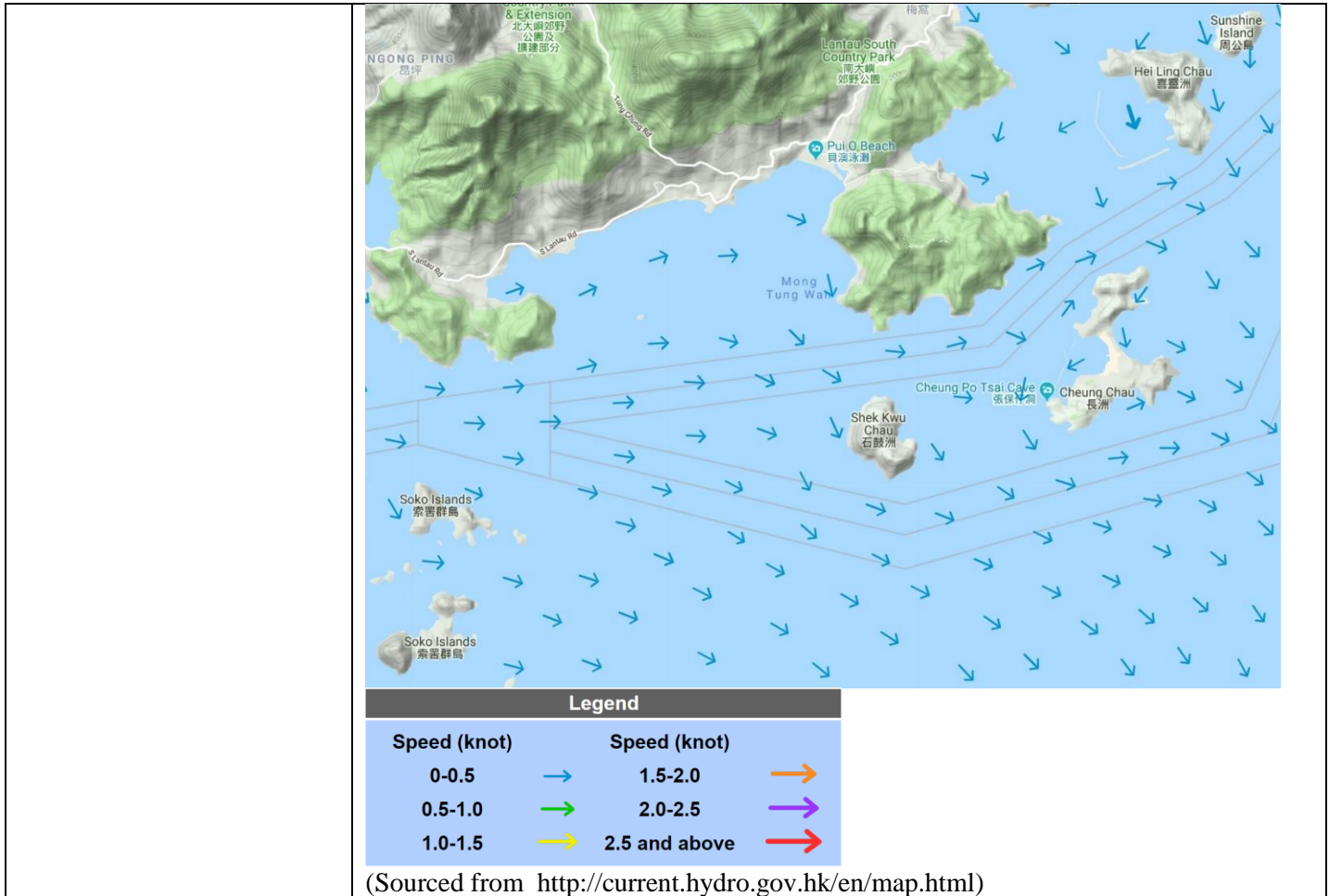
Parameter	Suspended Solid (SS)		
Action & Limit Levels	Action Level		Limit Level
	≥ 2.4 mg/L (120% of average of UC1 & UC2)		≥ 2.6 mg/L (130% of average of UC1 & UC2)
Measurement Level	Impact Station(s) of Exceedance	Control Stations	Impact Station(s) without Exceedance
	3.2 mg/L (I3) 2.7 mg/L (I4) 3.5 mg/L (I5) 3.2 mg/L (I6) 3.0 mg/L (I7) 2.8 mg/L (I8) 3.2 mg/L (I9) 2.5 mg/L (I10)	2.0 mg/L (UC1) 2.0 mg/L (UC2)	2.0 mg/L (I1) 2.0 mg/L (I2)
Possible reason for Action or Limit Level Non-compliance	<p>Works scheduled on site on 17/02 include laying of sand blanket at caisson seawall area, DCM sample coring for DCM main works and DCM main works.</p> <p>Dominating sea current direction was found to be from Southeast to Northwest at waters around Shek Kwu Chau.</p> <p>From MMO monitoring records on 17/02, MMO teams were arranged to two DCM barges (ESC-61 & ESC-62) and three derrick barges (DENSON3, Shun Tat D12 & FTB-19) on that day while no deficiency of silt curtain was found before the start of construction activity.</p> <p>I3, I4, I5, I6, I7, I8, I9 & I10 are located close to the work location within the Project site while silt curtain checking was implemented on Shun Tat D12 (09:00) by the Contractor and checking results showed that no deficiency of silt curtain was found on that day. No sand blanket laying works scheduled in FTB-19 & Kam Ying No.8 were</p>		

	<p>carried out with referring to site diary on that day. No DCM main works scheduled in ESC-61 & ESC-62 were carried out with referring to site diary on that day. When compared to the baseline data of dry season (Action Level: 8mg/L & Limit Level: 10mg/L), most of the monitoring stations (including upstream control station UC1 and UC2) were relatively low, it might suggest that the SS exceedance at I3, I4, I5, I6, I7, I8, I9 & I10 are deemed to be unrelated to the Project.</p>
<p>Actions taken / to be taken</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-flood sampling on 17/02:</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>22 February 2019</p>

Incident Report on Action Level or Limit Level Non-compliance

Project	Integrated Waste Management Facilities, Phase 1
Date	18 February 2019 (Lab result received on 21 February 2019)
Time	09:55 – 13:25 (Mid-Ebb)
Mid-Ebb	
Monitoring Location	<p>I3 : A (N22°11.247 E113° 59.227) I4 : B (N22°11.211 E113° 59.188) I5 : C (N22°11.192 E113° 59.238) I6 : D (N22°11.288 E113° 59.281) I7 : E (N22°11.303 E113° 59.258)</p>  <p style="text-align: right; font-size: small;">Image may be subject to copyright 200 m</p> <p style="text-align: center;">Tide Direction</p>  <p style="text-align: center;">Note: Drawing is not to scale</p>



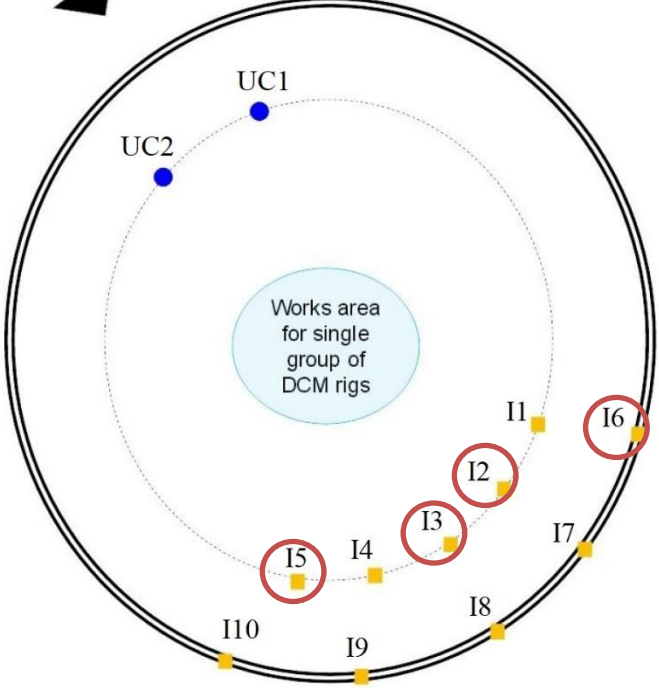
Parameter	Suspended Solid (SS)		
Action & Limit Levels	Action Level		Limit Level
	≥ 4.5 mg/L (120% of average of UC1 & UC2)		≥ 4.9 mg/L (130% of average of UC1 & UC2)
Measurement Level	Impact Station(s) of Exceedance	Control Stations	Impact Station(s) without Exceedance
	5.0 mg/L (I3) 6.5 mg/L (I4) 7.3 mg/L (I5) 5.5 mg/L (I6) 5.3 mg/L (I7)	3.8 mg/L (UC1) 3.7 mg/L (UC2)	3.8 mg/L (I1) 3.0 mg/L (I2) 3.5 mg/L (I8) 4.0 mg/L (I9) 3.7 mg/L (I10)
Possible reason for Action or Limit Level Non-compliance	<p>Works scheduled on site on 18/02 include laying of sand blanket at caisson seawall area, cone penetration test plant trial, post cone penetration test, DCM sample coring for DCM main works and DCM main works.</p> <p>Dominating sea current direction was found to be from Southeast to Northwest at waters around Shek Kwu Chau.</p> <p>From MMO monitoring records on 18/02, MMO teams were arranged to two DCM barges (ESC-61 & ESC-62) and two derrick barges (Shun Tat D12 & FTB-19) on that day while no deficiency of silt curtain was found before the start of construction activity.</p> <p>I3, I4, I5, I6 & I7 are located close to the work location within the Project site while no sand blanket laying works scheduled in FTB-19, Shun Tat D12, Cheung Kee No.7 & Kam Ying No.8 were carried out with referring to site diary on that day. No DCM main works scheduled in ESC-61 & ESC-62 were carried out due to adverse wave condition on that day. It might suggest that the SS exceedance at I3, I4, I5, I6 & I7 are deemed to be unrelated to the Project.</p>		
Actions taken / to be taken	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.		
Remarks	Current direction during mid-ebb sampling on 18/02:		




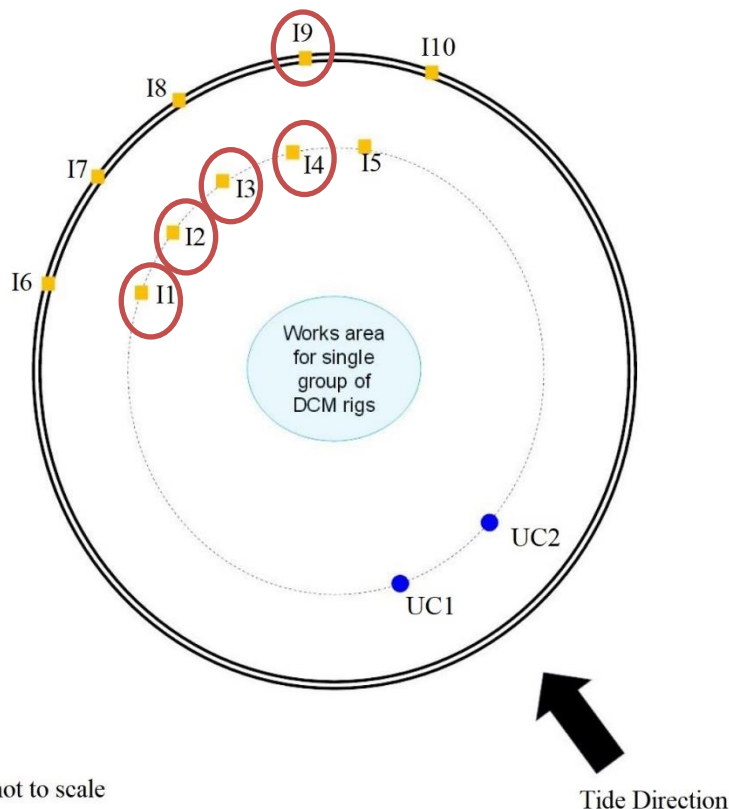
(Sourced from <http://current.hydro.gov.hk/en/map.html>)

Prepared by	Polar Chan
Date	22 February 2019

Incident Report on Action Level or Limit Level Non-compliance

Project	Integrated Waste Management Facilities, Phase 1
Date	19 February 2019 (Lab result received on 21 February 2019)
Time	10:43 – 14:13 (Mid-Ebb) 14:54 – 19:00 (Mid-Flood)
Mid-Ebb	
Monitoring Location	<p>I2 : A (N22°11.274 E113° 59.254) I3 : B (N22°11.238 E113° 59.228) I5 : C (N22°11.202 E113° 59.155) I6 : D (N22°11.329 E113° 59.274)</p>  <p style="text-align: center;">Tide Direction </p>  <p>Note: Drawing is not to scale</p>

Parameter	Suspended Solid (SS)		
Action & Limit Levels	Action Level		Limit Level
	≥ 8.7 mg/L (120% of average of UC1 & UC2)		≥ 9.4 mg/L (130% of average of UC1 & UC2)
Measurement Level	Impact Station(s) of Exceedance	Control Stations	Impact Station(s) without Exceedance
	9.5 mg/L (I2) 9.3 mg/L (I3) 9.3 mg/L (I5) 9.2 mg/L (I6)	6.7 mg/L (UC1) 7.8 mg/L (UC2)	6.8 mg/L (I1) 7.3 mg/L (I4) 8.7 mg/L (I7) 8.2 mg/L (I8) 7.3 mg/L (I9) 8.7 mg/L (I10)
Possible reason for Action or Limit Level Non-compliance	<p>Works scheduled on site on 19/02 include sand blanket laying at caisson seawall area, post cone penetration test work, DCM sample coring, DCM main works and DCM plant trial.</p> <p>Dominating sea current direction was found to be from Northwest to Southeast at waters around Shek Kwu Chau.</p> <p>From MMO monitoring records on 19/02, MMO teams were arranged to two DCM barges (ESC-61 & ESC-62) and two derrick barge (FTB-19 & Kam Ying No.8) on that day while no deficiency of silt curtain was found before the start of construction activity.</p> <p>I2, I3, I5 & I6 are located close to the works location within the Project site while silt curtain checking was implemented on FTB-19 (07:00), Kam Ying (18:00), ESC-61 (10:30) and ESC-62 (00:00) by the Contractor and checking results showed that no deficiency of silt curtain was found on that day. No sand blanket laying work was carried out on Cheung Kee No.7 with referring to the site diary on that day. It might suggest that SS exceedances are deemed to be unrelated to the Project.</p>		
Actions taken / to be taken	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.		
Mid-Flood			
Monitoring Location	<p>I1 : A (N22°11.283 E113° 59.016) I2 : B (N22°11.324 E113° 58.994) I3 : C (N22°11.363 E113° 59.011) I4 : D (N22°11.405 E113° 59.028) I9 : E (N22°11.453 E113° 58.974)</p> 		

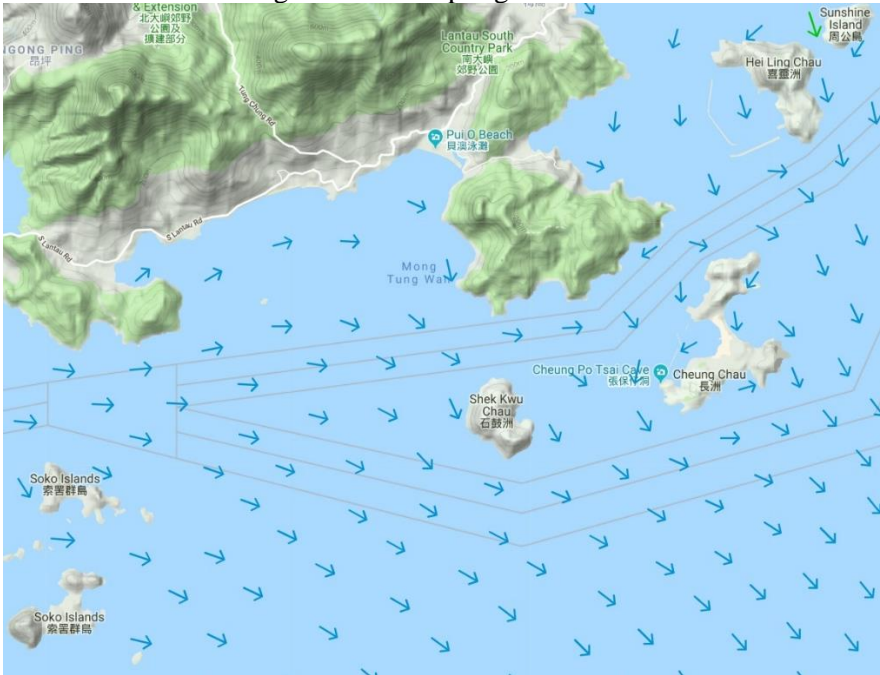


Parameter	Suspended Solid (SS)		
Action & Limit Levels	Action Level		Limit Level
	≥ 7.1 mg/L (120% of average of UC1 & UC2)		≥ 7.7 mg/L (130% of average of UC1 & UC2)
Measurement Level	Impact Station(s) of Exceedance	Control Stations	Impact Station(s) without Exceedance
	9.2 mg/L (I1) 8.2 mg/L (I2) 9.0 mg/L (I3) 8.7 mg/L (I4) 8.0 mg/L (I9)	5.2 mg/L (UC1) 6.7 mg/L (UC2)	6.5 mg/L (I5) 5.5 mg/L (I6) 5.7 mg/L (I7) 5.7 mg/L (I8) 6.7 mg/L (I10)
Possible reason for Action or Limit Level Non-compliance	<p>Works scheduled on site on 19/02 include sand blanket laying at caisson seawall area, post cone penetration test work, DCM sample coring, DCM main works and DCM plant trial.</p> <p>Dominating sea current direction was found to be from Southeast to Northwest at waters around Shek Kwu Chau.</p> <p>From MMO monitoring records on 19/02, MMO teams were arranged to two DCM barges (ESC-61 & ESC-62) and two derrick barge (FTB-19 & Kam Ying No.8) on that day while no deficiency of silt curtain was found before the start of construction activity.</p> <p>I1, I2, I3, I4 & I9 are located close to the works location within the Project site while silt curtain checking was implemented on FTB-19 (07:00), Kam Ying (18:00), ESC-61 (10:30) and ESC-62 (00:00) by the Contractor and checking results showed that no deficiency of silt curtain was found on that day. No sand blanket laying work was carried out on Cheung Kee No.7 with referring to the site diary on that day. It might suggest that SS exceedances are deemed to be unrelated to the Project.</p>		

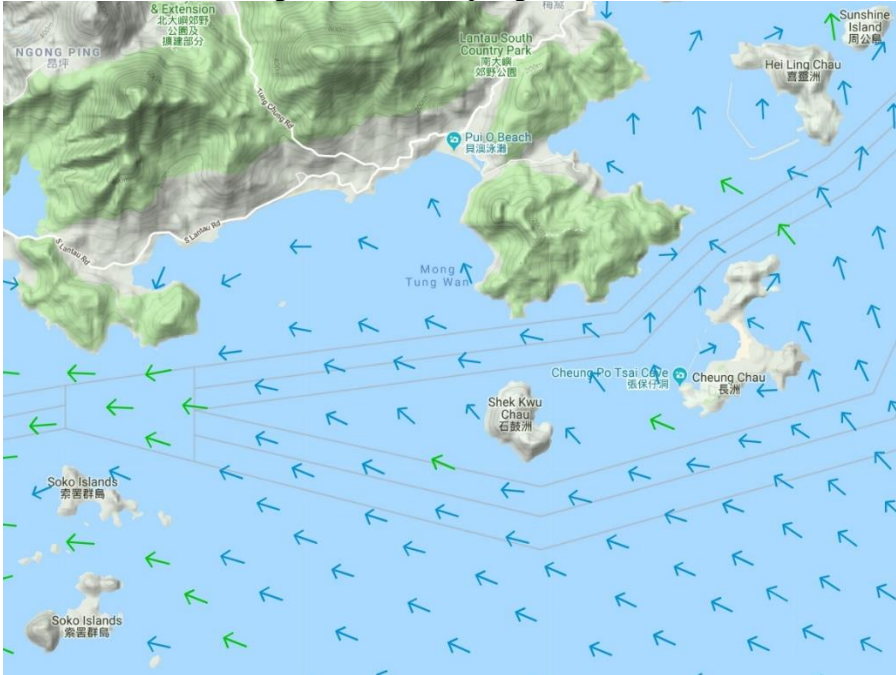
Actions taken / to be taken Examination of environmental performance of the Project will be continued during the weekly inspection, and the Contractor is remained to implement all applicable mitigation measures as per the Updated EM&A Manual.

Remarks

Current direction during mid-ebb sampling on 19/02:



Current direction during mid-flood sampling on 19/02:

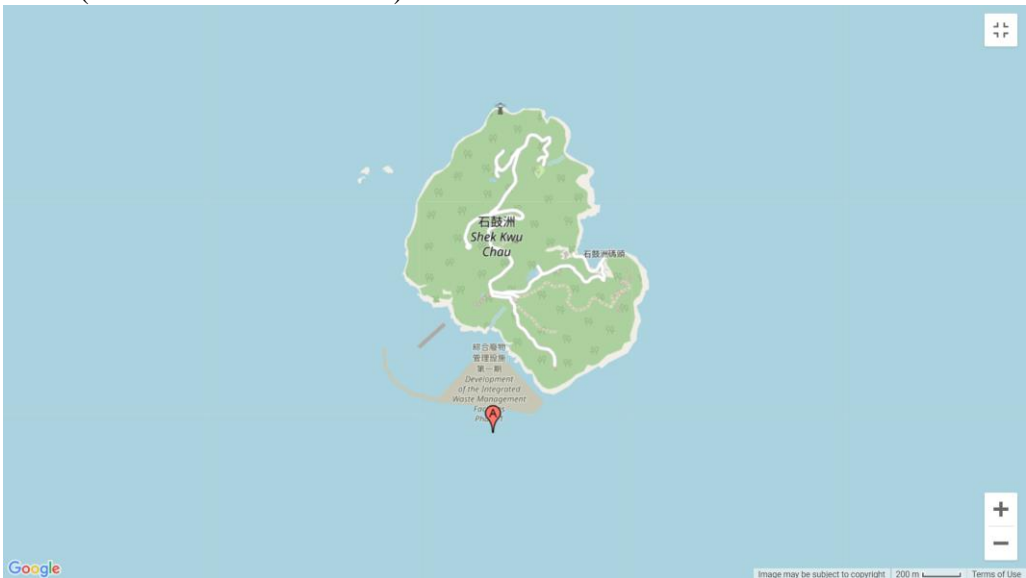
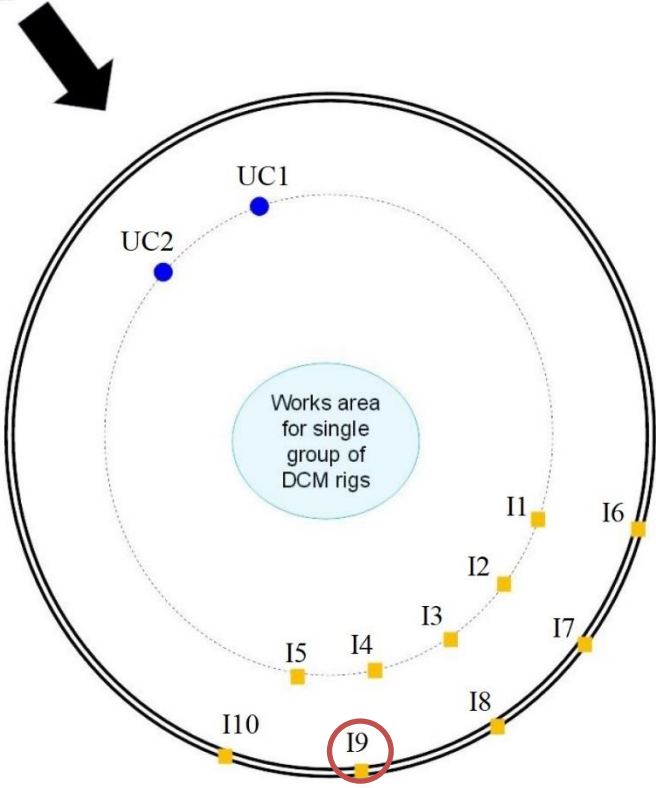


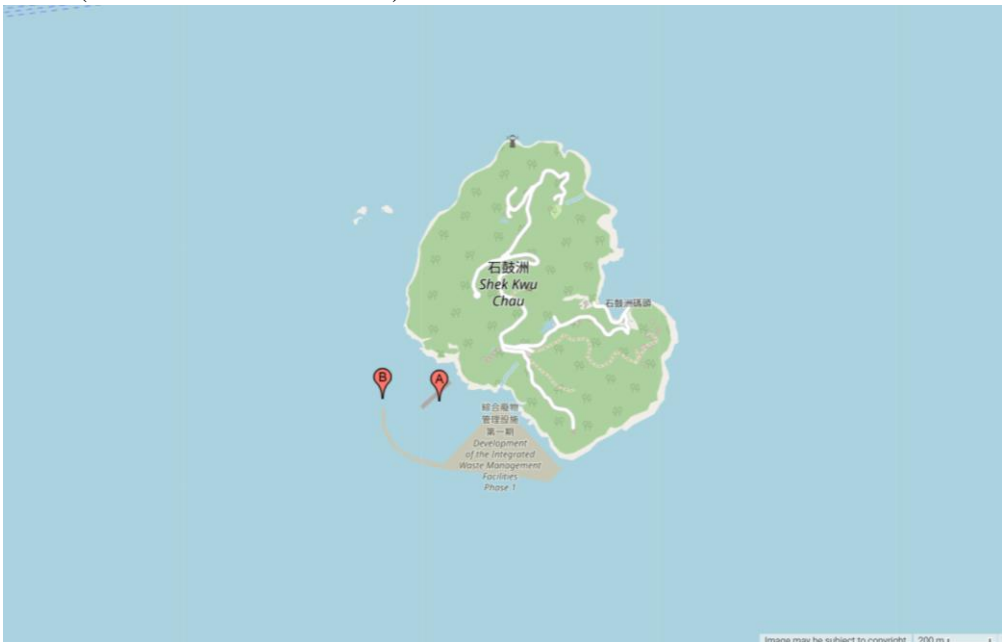
Legend			
Speed (knot)	→	Speed (knot)	→
0-0.5	→	1.5-2.0	→
0.5-1.0	→	2.0-2.5	→
1.0-1.5	→	2.5 and above	→

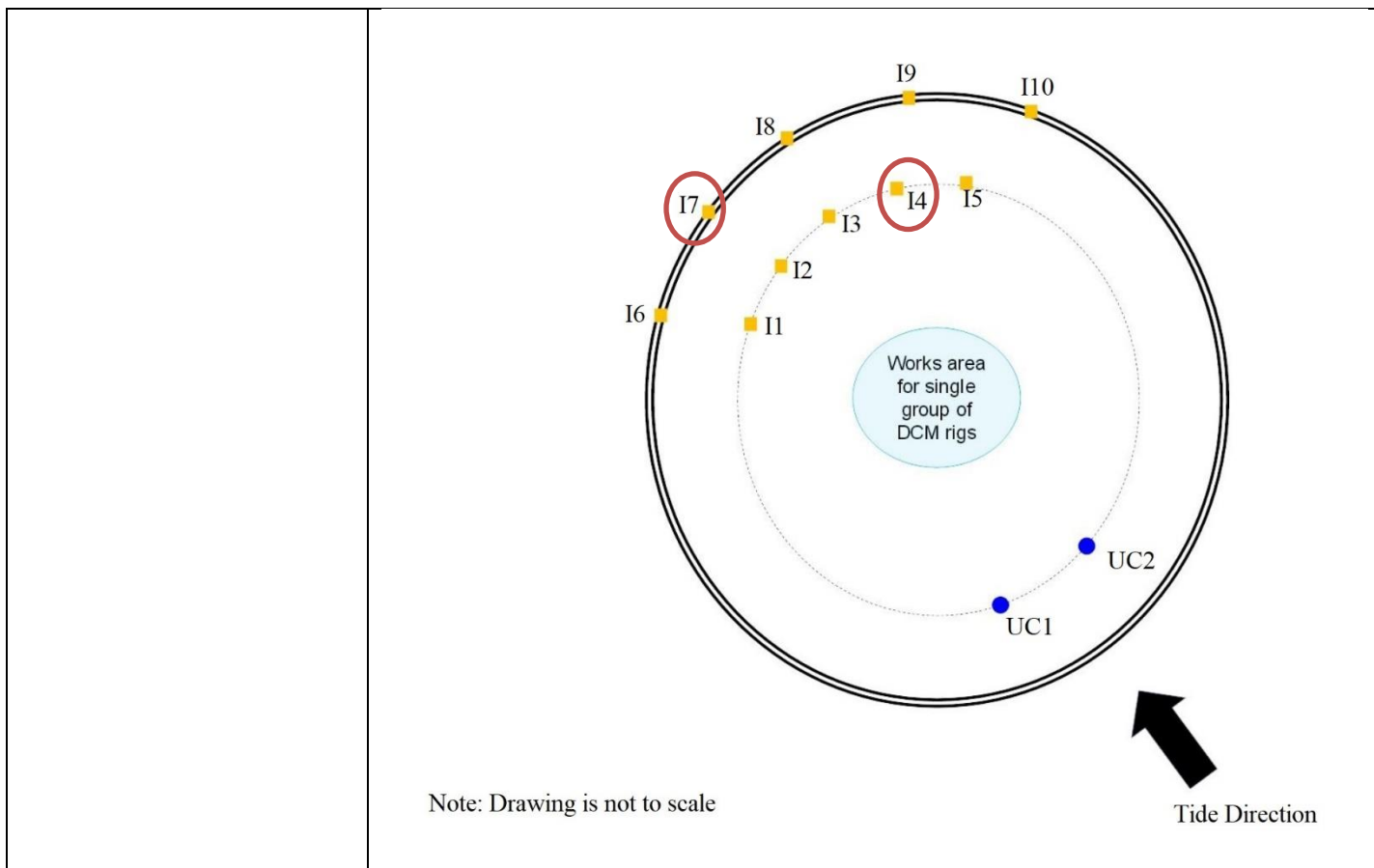
(Sourced from <http://current.hydro.gov.hk/en/map.html>)

Prepared by	Polar Chan
Date	22 February 2019

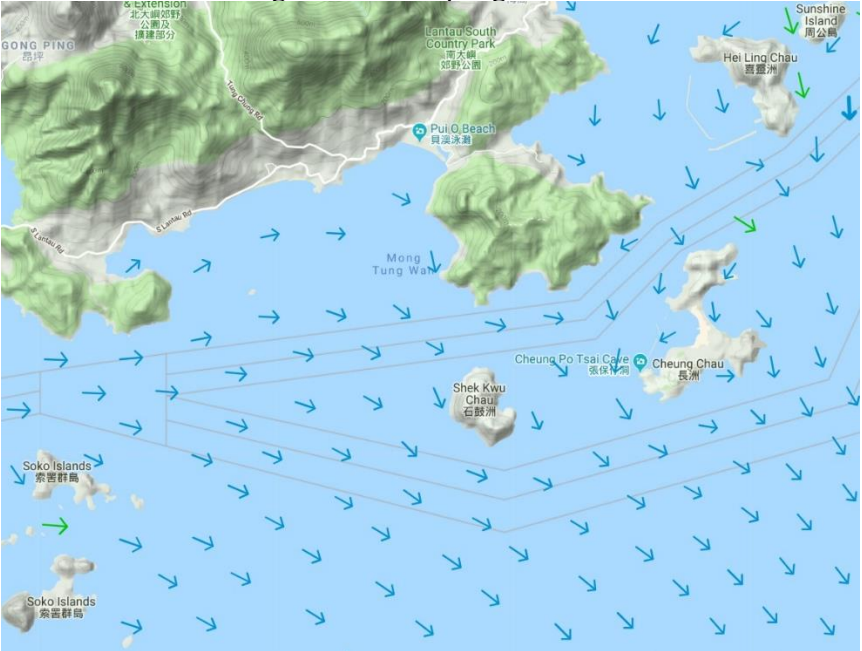

Incident Report on Action Level or Limit Level Non-compliance

Project	Integrated Waste Management Facilities, Phase 1	
Date	20 February 2019 (Lab result received on 22 February 2019)	
Time	11:25 – 14:55 (Mid-Ebb) 15:46 – 19:00 (Mid-Flood)	
Mid-Ebb		
Monitoring Location	I9 : A (N22°11.192 E113° 59.216)	
		
	<p style="text-align: center;">Tide Direction</p>  <p style="text-align: center;">Note: Drawing is not to scale</p>	
Parameter	Suspended Solid (SS)	
Action & Limit Levels	Action Level	Limit Level
	≥ 8.2 mg/L (120% of average of UC1 & UC2)	≥ 8.9 mg/L (130% of average of UC1 & UC2)


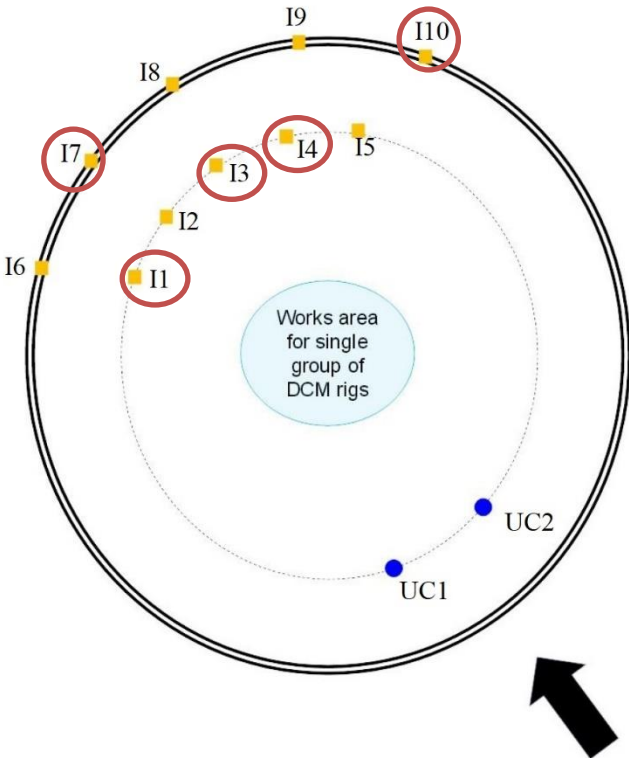
	UC2)		UC2)
Measurement Level	Impact Station(s) of Exceedance	Control Stations	Impact Station(s) without Exceedance
	9.5 mg/L (I9)	7.0 mg/L (UC1) 6.7 mg/L (UC2)	7.5 mg/L (I1) 7.7 mg/L (I2) 6.3 mg/L (I3) 4.8 mg/L (I4) 6.3 mg/L (I5) 6.2 mg/L (I6) 7.5 mg/L (I7) 7.8 mg/L (I8) 7.7 mg/L (I10)
Possible reason for Action or Limit Level Non-compliance	<p>Works scheduled on site on 20/02 include laying of geotextile at reclamation area, laying of sand blanket at caisson seawall area, post cone penetration test works, DCM sample coring, DCM main works and DCM plant trial.</p> <p>Dominating sea current direction was found to be from Northwest to Southeast at waters around Shek Kwu Chau.</p> <p>From MMO monitoring records on 20/02, MMO teams were arranged to two DCM barges (ESC-61 & ESC-62) and two derrick barge (FTB-19 & Kam Ying No.8) on that day while no deficiency of silt curtain was found before the start of construction activity.</p> <p>I9 is located close to the works location within the Project site while silt curtain checking was implemented on FTB-19 (08:00), Kam Ying No.8 (09:00), ESC-61 (16:00) and ESC-62 (07:00) by the Contractor and checking results showed that no deficiency of silt curtain was found on that day. It might suggest that SS exceedance is deemed to be unrelated to the Project.</p>		
Actions taken / to be taken	<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>		
Mid-Flood			
Monitoring Location	<p>I1 : A (N22°11.454 E113° 59.035) I2 : B (N22°11.459 E113° 58.879)</p> 		



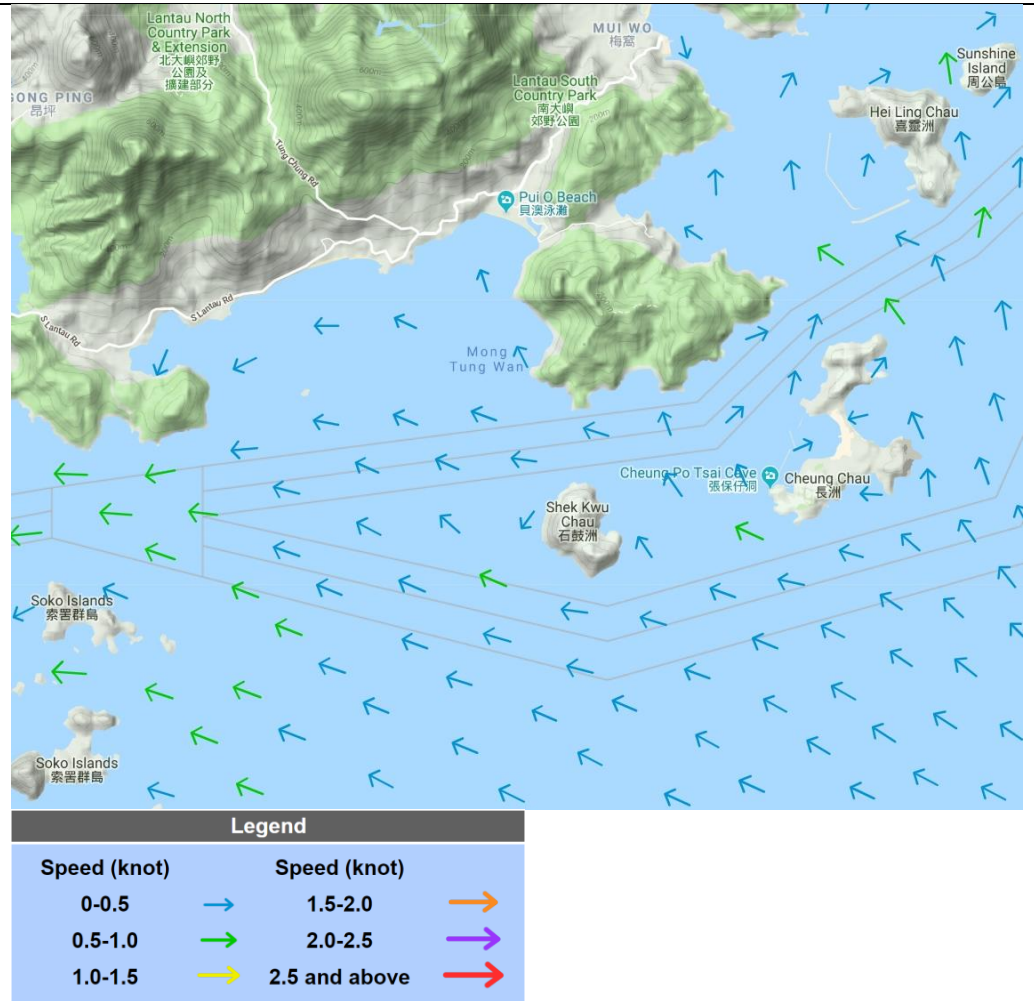
Parameter	Suspended Solid (SS)		
Action & Limit Levels	Action Level		Limit Level
	≥ 7.0 mg/L (120% of average of UC1 & UC2)		≥ 7.6 mg/L (130% of average of UC1 & UC2)
Measurement Level	Impact Station(s) of Exceedance	Control Stations	Impact Station(s) without Exceedance
	7.7 mg/L (I4) 7.3 mg/L (I7)	5.8 mg/L (UC1) 5.8 mg/L (UC2)	5.8 mg/L (I1) 5.7 mg/L (I2) 6.2 mg/L (I3) 6.7 mg/L (I5) 4.8 mg/L (I6) 6.0 mg/L (I8) 5.7 mg/L (I9) 5.3 mg/L (I10)
Possible reason for Action or Limit Level Non-compliance	<p>Works scheduled on site on 20/02 include laying of geotextile at reclamation area, laying of sand blanket at caisson seawall area, post cone penetration test works, DCM sample coring, DCM main works and DCM plant trial.</p> <p>Dominating sea current direction was found to be from Southeast to Northwest at waters around Shek Kwu Chau.</p> <p>From MMO monitoring records on 20/02, MMO teams were arranged to two DCM barges (ESC-61 & ESC-62) and two derrick barge (FTB-19 & Kam Ying No.8) on that day while no deficiency of silt curtain was found before the start of construction activity.</p> <p>I4 & I7 are located close to the works location within the Project site while silt curtain checking was implemented on FTB-19 (08:00), Kam Ying No.8 (09:00), ESC-61 (16:00) and ESC-62 (07:00) by the Contractor and checking results showed that no</p>		

	deficiency of silt curtain was found on that day. It might suggest that SS exceedances are deemed to be unrelated to the Project.																				
Actions taken / to be taken	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.																				
Remarks	<p>Current direction during mid-ebb sampling on 20/02:</p>  <p>Current direction during mid-flood sampling on 20/02:</p>  <table border="1" data-bbox="472 1756 986 1944"> <thead> <tr> <th colspan="4">Legend</th> </tr> <tr> <th>Speed (knot)</th> <th>Color</th> <th>Speed (knot)</th> <th>Color</th> </tr> </thead> <tbody> <tr> <td>0-0.5</td> <td>Blue arrow</td> <td>1.5-2.0</td> <td>Orange arrow</td> </tr> <tr> <td>0.5-1.0</td> <td>Green arrow</td> <td>2.0-2.5</td> <td>Purple arrow</td> </tr> <tr> <td>1.0-1.5</td> <td>Yellow arrow</td> <td>2.5 and above</td> <td>Red arrow</td> </tr> </tbody> </table> <p>(Sourced from http://current.hydro.gov.hk/en/map.html)</p>	Legend				Speed (knot)	Color	Speed (knot)	Color	0-0.5	Blue arrow	1.5-2.0	Orange arrow	0.5-1.0	Green arrow	2.0-2.5	Purple arrow	1.0-1.5	Yellow arrow	2.5 and above	Red arrow
Legend																					
Speed (knot)	Color	Speed (knot)	Color																		
0-0.5	Blue arrow	1.5-2.0	Orange arrow																		
0.5-1.0	Green arrow	2.0-2.5	Purple arrow																		
1.0-1.5	Yellow arrow	2.5 and above	Red arrow																		
Prepared by	Polar Chan																				
Date	23 February 2019																				

Incident Report on Action Level or Limit Level Non-compliance

Project	Integrated Waste Management Facilities, Phase 1
Date	21 February 2019 (Lab result received on 26 February 2019)
Time	08:00 - 09:50 (Mid-Flood)
Mid-Flood	
Monitoring Location	<p> I1 : A (N22°11.343 E113° 59.976) I3 : B (N22°11.429 E113° 58.967) I4 : C (N22°11.465 E113° 58.996) I7 : D (N22°11.419 E113° 58.835) I10 : E (N22°11.496 E113° 59.019) </p>   <p>Note: Drawing is not to scale</p> <p style="text-align: right;">Tide Direction</p>


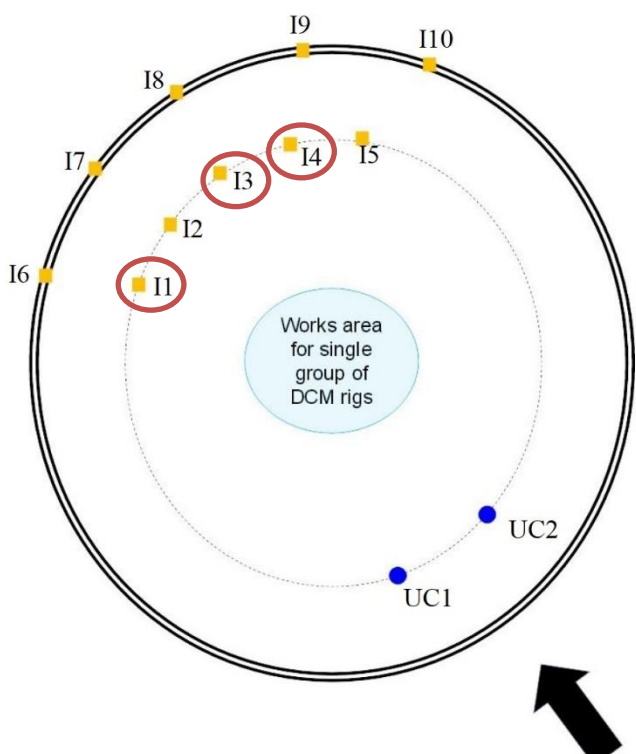
Parameter	Suspended Solid (SS)		
Action & Limit Levels	Action Level		Limit Level
	≥ 5.4 mg/L (120% of average of UC1 & UC2)		≥ 5.9 mg/L (130% of average of UC1 & UC2)
Measurement Level	Impact Station(s) of Exceedance	Control Stations	Impact Station(s) without Exceedance
	6.5 mg/L (I1) 5.5 mg/L (I3) 6.2 mg/L (I4) 5.7 mg/L (I7) 5.7 mg/L (I10)	2.5 mg/L (UC1) 6.5 mg/L (UC2)	2.0 mg/L (I2) 3.7 mg/L (I5) 3.2 mg/L (I6) 5.2 mg/L (I8) 4.0 mg/L (I9)
Possible reason for Action or Limit Level Non-compliance	<p>Works scheduled on site on 21/02 include laying of geotextile at caisson seawall area, laying of sand blanket at caisson seawall area, removal of surface rock at vertical blockwork seawall area, post cone penetration test work, post cone penetration test for Pre-construction Site Trial, DCM sample coring for DCM main works and DCM main works.</p> <p>Dominating sea current direction was found to be from Southeast to Northwest at waters around Shek Kwu Chau.</p> <p>From MMO monitoring records on 21/02, MMO teams were arranged to two DCM barges (ESC-61 & ESC-62) and three derrick barges (DL-5, Kam Ying No.8 & FTB-19) on that day while no deficiency of silt curtain was found before the start of construction activity.</p> <p>I1, I3, I4, I7 & I10 are located close to the work location within the Project site while silt curtain checking was implemented on DL5 (08:00), FTB19 (15:00), ESC-62 (07:00), ESC-61 (14:30) and Kam Ying No.8 (16:30) by the Contractor and checking results showed that no deficiency of silt curtain was found on that day. When compared to the baseline data of dry season (Action Level: 8mg/L & Limit Level: 10mg/L), most of the monitoring stations (including upstream control station UC1 and UC2) were relatively low, it might suggest that the SS exceedance at I1, I3, I4, I7 & I10 are deemed to be unrelated to the Project.</p>		
Actions taken / to be taken	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.		
Remarks	Current direction during mid-flood sampling on 21/02:		



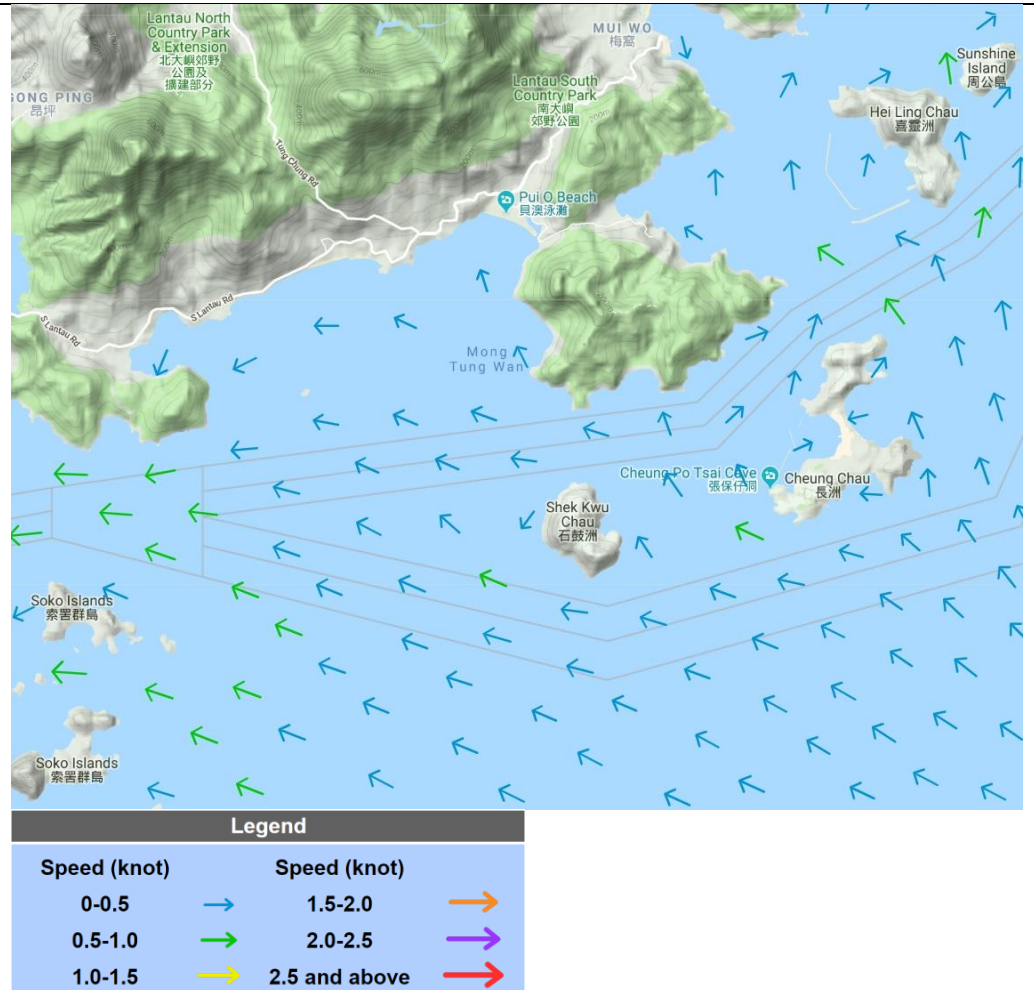
(Sourced from <http://current.hydro.gov.hk/en/map.html>)

Prepared by	Polar Chan
Date	27 February 2019

Incident Report on Action Level or Limit Level Non-compliance

Project	Integrated Waste Management Facilities, Phase 1	
Date	22 February 2019 (Lab result received on 27 February 2019)	
Time	08:00 - 10:22 (Mid-Flood)	
Monitoring Location	Mid-Flood	
	I1 : A (N22°11.348 E113° 58.937) I3 : B (N22°11.407 E113° 59.000) I4 : C (N22°11.407 E113° 59.038)	
		
	 <p data-bbox="518 1915 821 1948">Note: Drawing is not to scale</p>	
Parameter	Suspended Solid (SS)	
Action & Limit Levels	Action Level	Limit Level

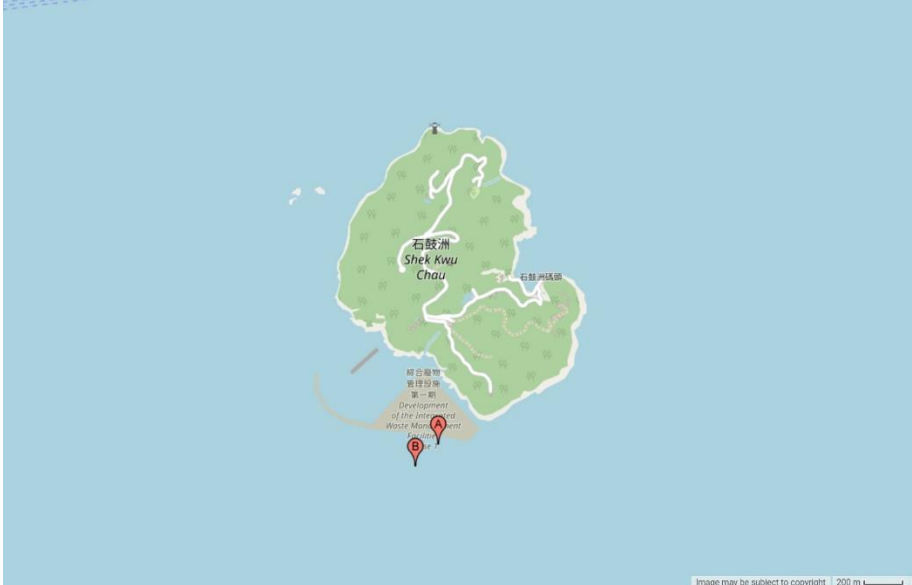
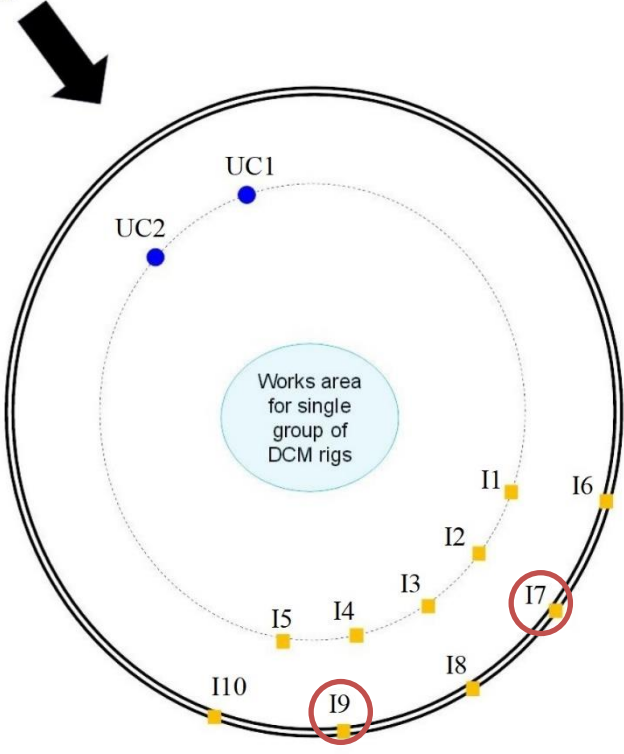
	≥ 2.6 mg/L (120% of average of UC1 & UC2)	≥ 2.8 mg/L (130% of average of UC1 & UC2)	
Measurement Level	Impact Station(s) of Exceedance	Control Stations	Impact Station(s) without Exceedance
	2.7 mg/L (I1) 4.2 mg/L (I3) 3.0 mg/L (I4)	2.3 mg/L (UC1) 2.0mg/L (UC2)	2.0 mg/L (I2) 2.3 mg/L (I5) 2.5 mg/L (I6) 2.5 mg/L (I7) 2.5 mg/L (I8) 2.2 mg/L (I9) 2.0 mg/L (I10)
Possible reason for Action or Limit Level Non-compliance	<p>Works scheduled on site on 22/02 include laying of geotextile at caisson seawall area, laying of sand blanket at caisson seawall area, post cone penetration test work, DCM sample coring for DCM main works and DCM main works.</p> <p>Dominating sea current direction was found to be from Southeast to Northwest at waters around Shek Kwu Chau.</p> <p>From MMO monitoring records on 22/02, MMO teams were arranged to two DCM barges (ESC-61 & ESC-62) and two derrick barges (Kam Ying No,8 & FTB-19) on that day while no deficiency of silt curtain was found before the start of construction activity.</p> <p>I1, I3 & I4 are located close to the work location within the Project site while silt curtain checking was implemented on FTB19 (08:00), ESC-62 (07:00), ESC-61 (08:30) and Kam Ying No.8 (16:00) by the Contractor and checking results showed that no deficiency of silt curtain was found on that day. When compared to the baseline data of dry season (Action Level: 8mg/L & Limit Level: 10mg/L), most of the monitoring stations (including upstream control station UC1 and UC2) were relatively low, it might suggest that the SS exceedance at I1, I3 & I4 are deemed to be unrelated to the Project.</p> <p>Site tidiness in the present barges in the Project site were checked during weekly site inspection on 26/02, where was no major observation of 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 remained to implement all applicable mitigation measures as per the Updated EM&A Manual.		
Remarks	Current direction during mid-flood sampling on 22/02:		



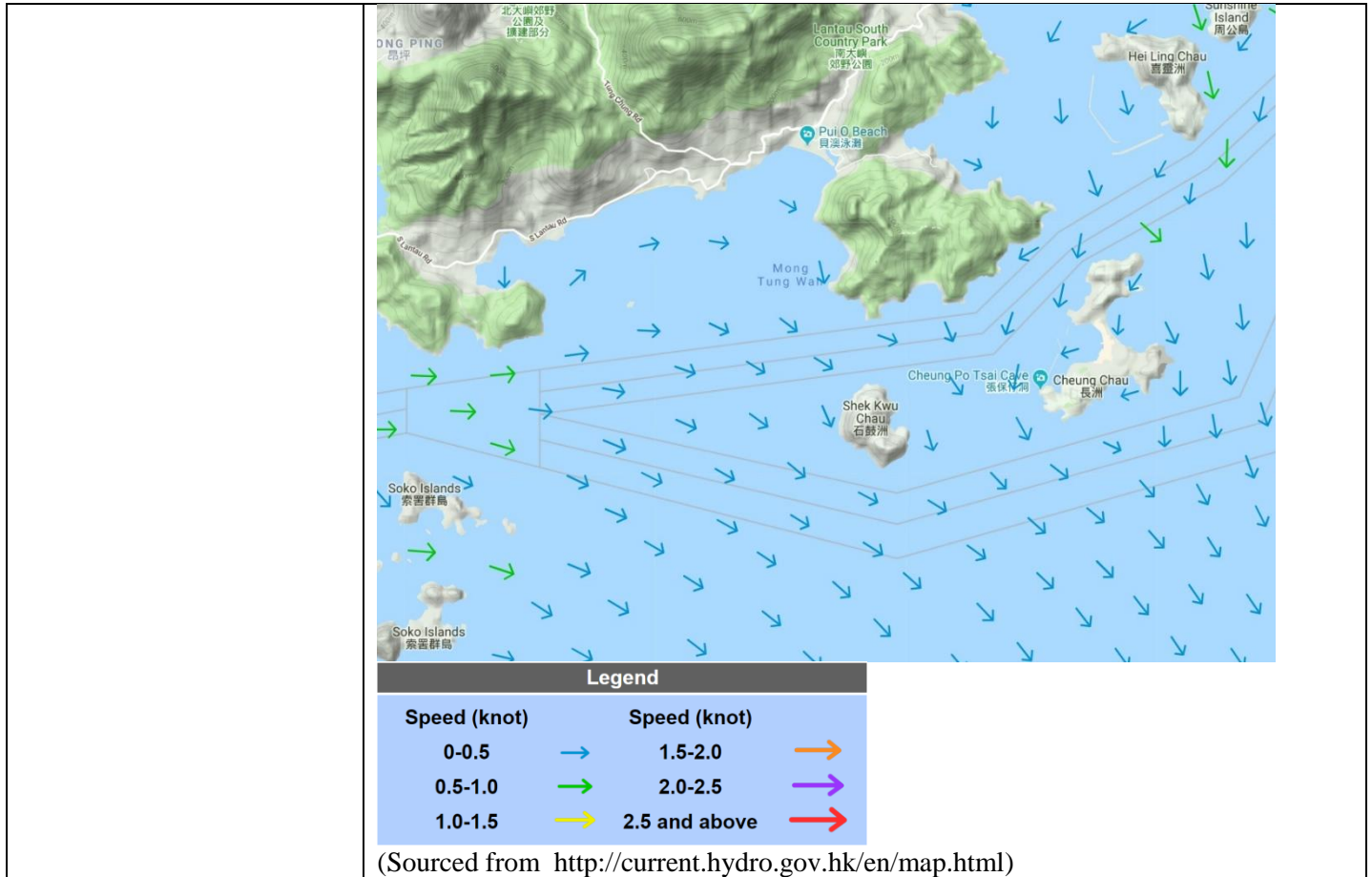
(Sourced from <http://current.hydro.gov.hk/en/map.html>)

Prepared by	Polar Chan
Date	28 February 2019

Incident Report on Action Level or Limit Level Non-compliance

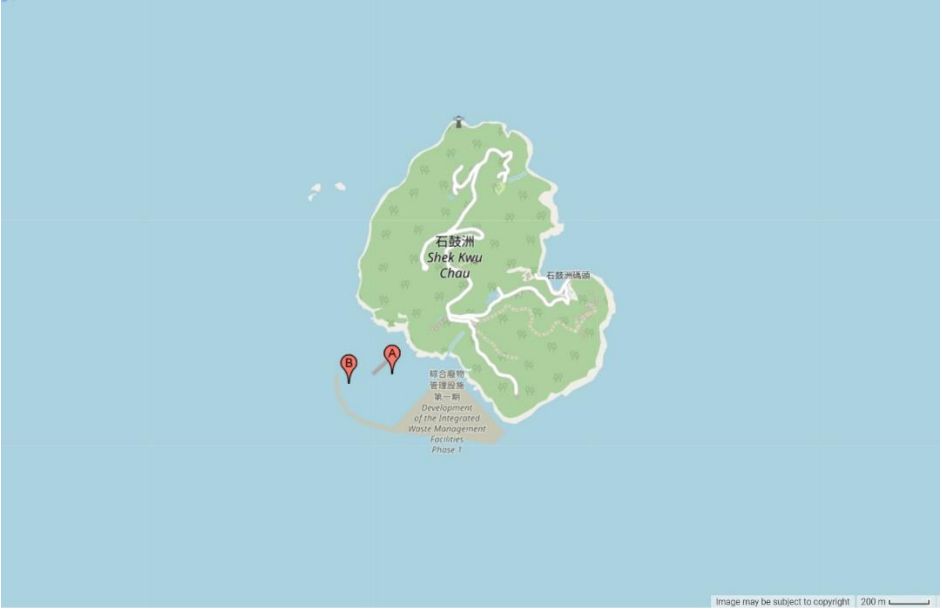
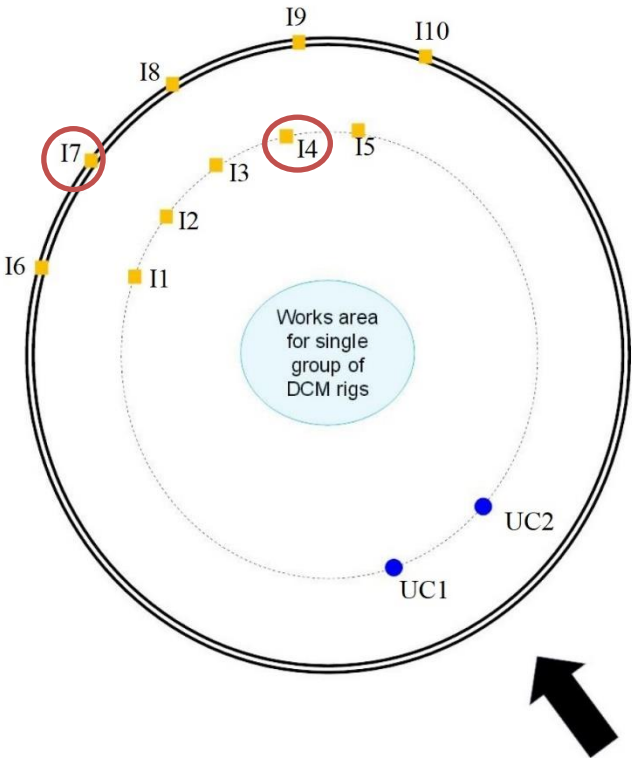
Project	Integrated Waste Management Facilities, Phase 1	
Date	23 February 2019 (Lab result received on 26 February 2019)	
Time	13:21 - 16:51 (Mid-Ebb)	
Monitoring Location	<p style="text-align: center;">Mid-Ebb</p> <p>I7 : A (N22°11.236 E113° 59.249) I9 : B (N22°11.236 E113° 59.179)</p>  <p style="text-align: center;">Tide Direction</p>  <p style="text-align: center;">Note: Drawing is not to scale</p>	
Parameter	Suspended Solid (SS)	
Action & Limit Levels	Action Level	Limit Level
	≥ 4.3 mg/L (120% of average of UC1 &	≥ 4.7 mg/L (130% of average of UC1 &

	UC2)		UC2)
Measurement Level	Impact Station(s) of Exceedance	Control Stations	Impact Station(s) without Exceedance
	4.7 mg/L (I7) 4.5 mg/L (I9)	3.5 mg/L (UC1) 3.7mg/L (UC2)	3.3 mg/L (I1) 3.3 mg/L (I2) 3.5 mg/L (I3) 3.7 mg/L (I4) 3.8 mg/L (I5) 4.2 mg/L (I6) 4.0 mg/L (I8) 3.5 mg/L (I10)
Possible reason for Action or Limit Level Non-compliance	<p>Works scheduled on site on 23/02 include laying of sand blanket at caisson seawall area, post cone penetration test work, removal of surface rock at vertical blockwork seawall area, DCM sample coring for DCM main works and DCM main works.</p> <p>Dominating sea current direction was found to be from Northwest to Southeast at waters around Shek Kwu Chau.</p> <p>From MMO monitoring records on 23/02, MMO teams were arranged to two DCM barges (ESC-61 & ESC-62) and two derrick barges (DL-5 & FTB-19) on that day while no deficiency of silt curtain was found before the start of construction activity.</p> <p>I7 & I9 are located close to the work location within the Project site while silt curtain checking was implemented on DL5 (15:15), FTB19 (07:00), ESC-62 (07:00) and ESC-61 (08:00) by the Contractor and checking results showed that no deficiency of silt curtain was found on that day. No sand blanket laying works scheduled Kam Ying No.8 was carried out with referring to site diary on that day. When compared to the baseline data of dry season (Action Level: 8mg/L & Limit Level: 10mg/L), most of the monitoring stations (including upstream control station UC1 and UC2) were relatively low, it might suggest that the SS exceedance at I7 & I9 are deemed to be unrelated to the Project.</p> <p>Site tidiness in the present barges in the Project site were checked during weekly site inspection on 26/02, where was no major observation of 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 remained to implement all applicable mitigation measures as per the Updated EM&A Manual.		
Remarks	Current direction during mid-ebb sampling on 23/02:		

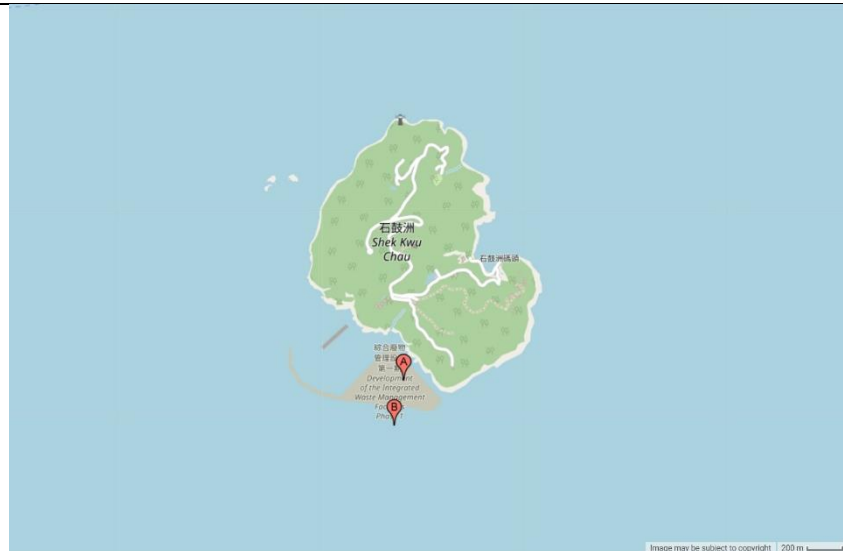


Prepared by	Polar Chan
Date	27 February 2019

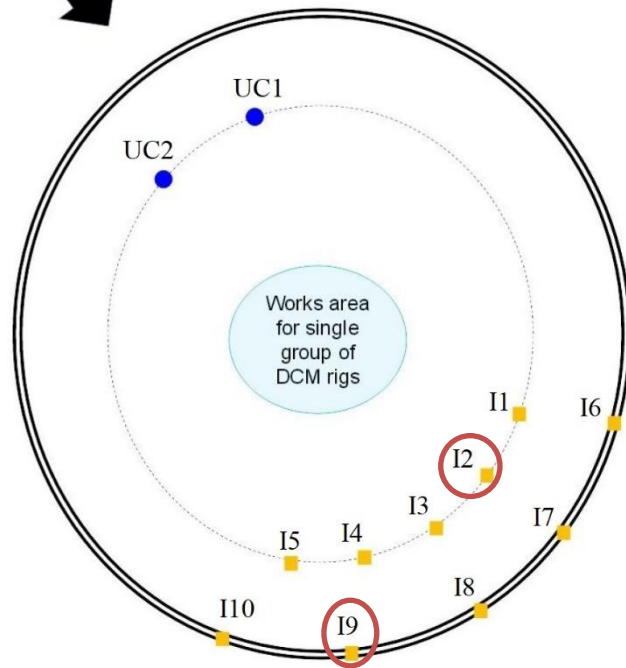
Incident Report on Action Level or Limit Level Non-compliance

Project	Integrated Waste Management Facilities, Phase 1	
Date	24 February 2019 (Lab result received on 27 February 2019)	
Time	08:00 - 11:27 (Mid-Flood) 14:03 - 17:33 (Mid-Ebb)	
Mid-Flood		
Monitoring Location	<p>I4 : A (N22°11.437 E113° 59.043) I7 : B (N22°11.412 E113° 58.918)</p>   <p>Note: Drawing is not to scale</p>	
Parameter	Suspended Solid (SS)	
Action & Limit Levels	Action Level	Limit Level

	≥ 5.8 mg/L (120% of average of UC1 & UC2)	≥ 6.3 mg/L (130% of average of UC1 & UC2)	
Measurement Level	Impact Station(s) of Exceedance	Control Stations	Impact Station(s) without Exceedance
	6.3 mg/L (I4) 6.5 mg/L (I7)	4.8 mg/L (UC1) 4.8mg/L (UC2)	4.8 mg/L (I1) 4.2 mg/L (I2) 7.2 mg/L (I3) 5.7 mg/L (I5) 5.5 mg/L (I6) 5.3 mg/L (I8) 4.7 mg/L (I9) 4.3 mg/L (I10)
Possible reason for Action or Limit Level Non-compliance	<p>Works scheduled on site on 24/02 include laying of sand blanket at caisson seawall area, removal of surface rock at vertical blockwork seawall area, DCM sample coring for DCM main works and DCM main works.</p> <p>Dominating sea current direction was found to be from Southeast to Northwest at waters around Shek Kwu Chau.</p> <p>From MMO monitoring records on 24/02, MMO teams were arranged to two DCM barges (ESC-61 & ESC-62) and two derrick barges (DL-5 & FTB-19) on that day while no deficiency of silt curtain was found before the start of construction activity.</p> <p>I4 & I7 are located close to the work location within the Project site while silt curtain checking was implemented on DL5 (07:00), FTB19 (08:00), ESC-62 (08:00) and ESC-61 (08:15) by the Contractor and checking results showed that no deficiency of silt curtain was found on that day. When compared to the baseline data of dry season (Action Level: 8mg/L & Limit Level: 10mg/L), most of the monitoring stations (including upstream control station UC1 and UC2) were relatively low, it might suggest that the SS exceedance at I4 & I7 are deemed to be unrelated to the Project.</p> <p>Site tidiness in the present barges in the Project site were checked during weekly site inspection on 26/02, where was no major observation of 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 remained to implement all applicable mitigation measures as per the Updated EM&A Manual.		
Mid-Ebb			
Monitoring Location	I2 : A (N22°11.339 E113° 59.250) I6 : B (N22°11.204 E113° 59.219)		




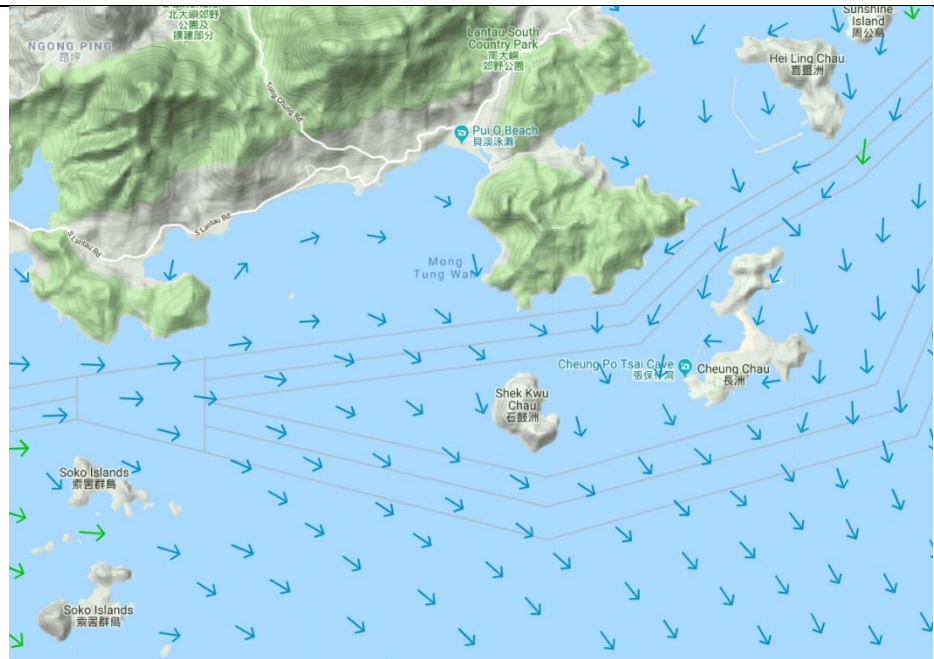
Tide Direction



Note: Drawing is not to scale

Parameter	Suspended Solid (SS)		
Action & Limit Levels	Action Level		Limit Level
	≥ 6.1 mg/L (120% of average of UC1 & UC2)		≥ 6.6 mg/L (130% of average of UC1 & UC2)
Measurement Level	Impact Station(s) of Exceedance	Control Stations	Impact Station(s) without Exceedance
	8.8 mg/L (I2) 7.0 mg/L (I9)	5.7 mg/L (UC1) 4.5mg/L (UC2)	5.2 mg/L (I1) 5.3 mg/L (I3) 5.0 mg/L (I4) 4.3 mg/L (I5) 4.3 mg/L (I6) 5.7 mg/L (I7) 3.5 mg/L (I8)

	6.0 mg/L (I10)
Possible reason for Action or Limit Level Non-compliance	<p>Works scheduled on site on 24/02 include laying of sand blanket at caisson seawall area, removal of surface rock at vertical blockwork seawall area, DCM sample coring for DCM main works and DCM main works.</p> <p>Dominating sea current direction was found to be from Northwest to Southeast at waters around Shek Kwu Chau.</p> <p>From MMO monitoring records on 24/02, MMO teams were arranged to two DCM barges (ESC-61 & ESC-62) and two derrick barges (DL-5 & FTB-19) on that day while no deficiency of silt curtain was found before the start of construction activity.</p> <p>I2 & I9 are located close to the work location within the Project site while silt curtain checking was implemented on DL5 (07:00), FTB19 (08:00), ESC-62 (08:00) and ESC-61 (08:15) by the Contractor and checking results showed that no deficiency of silt curtain was found on that day. It might suggest that the SS exceedance at I2 & I9 are deemed to be unrelated to the Project.</p> <p>Site tidiness in the present barges in the Project site were checked during weekly site inspection on 26/02, where was no major observation of 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 remained to implement all applicable mitigation measures as per the Updated EM&A Manual.
Remarks	<p>Current direction during mid-flood sampling on 24/02:</p>  <p>Current direction during mid-ebb sampling on 24/02:</p>

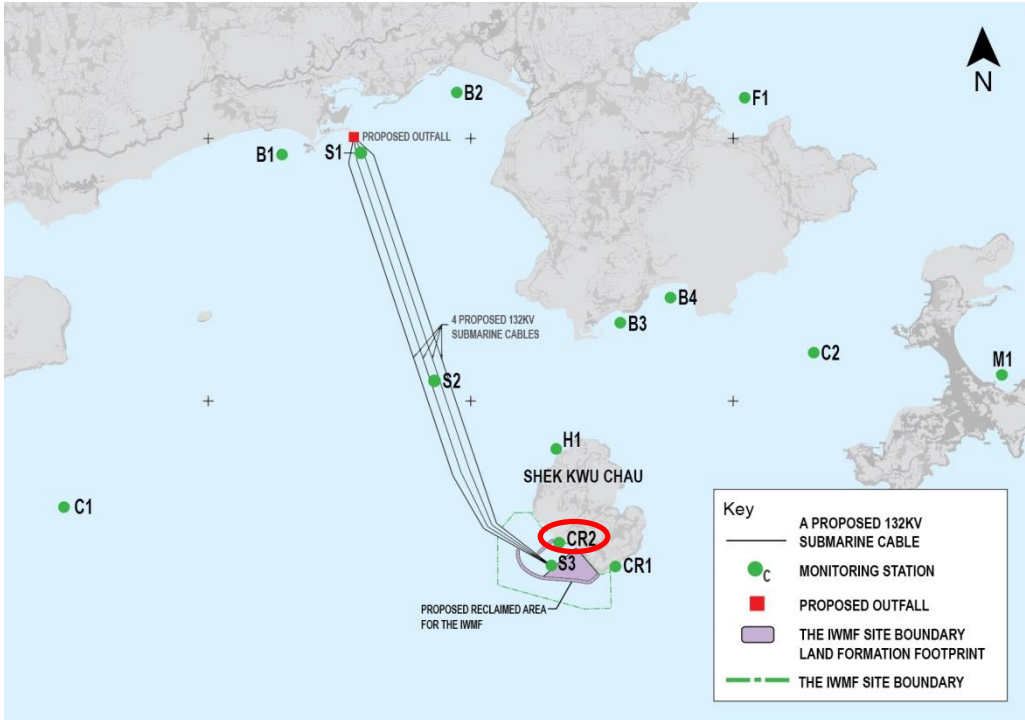


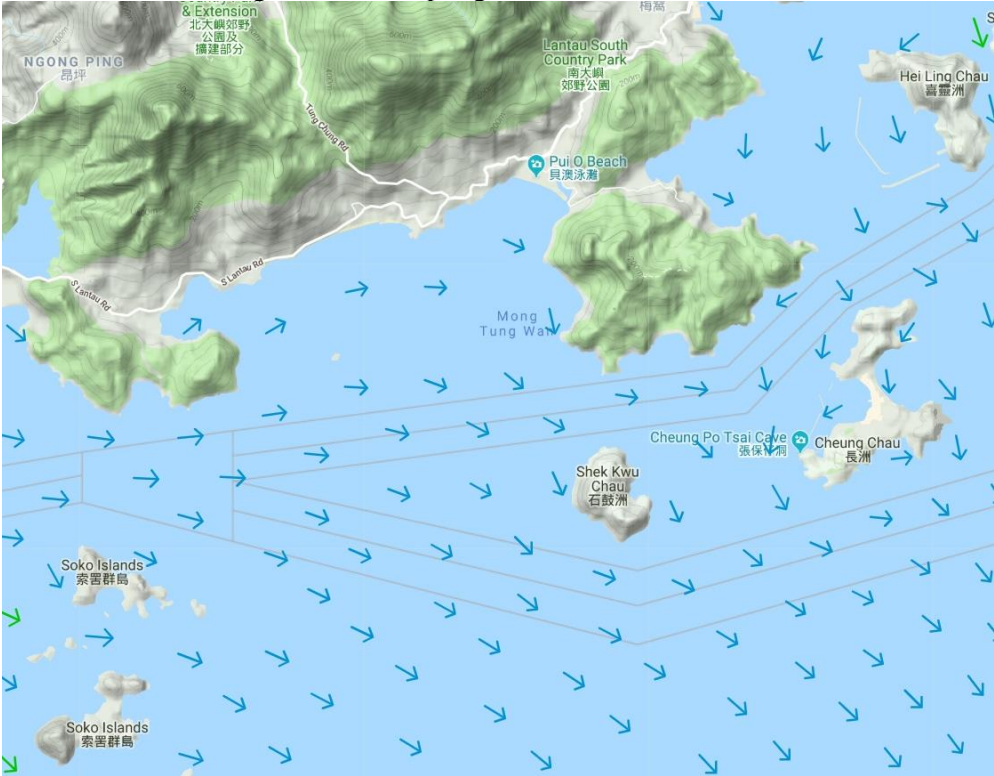
Legend	
Speed (knot)	Speed (knot)
0-0.5	1.5-2.0
0.5-1.0	2.0-2.5
1.0-1.5	2.5 and above

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

Prepared by	Polar Chan
Date	28 February 2019


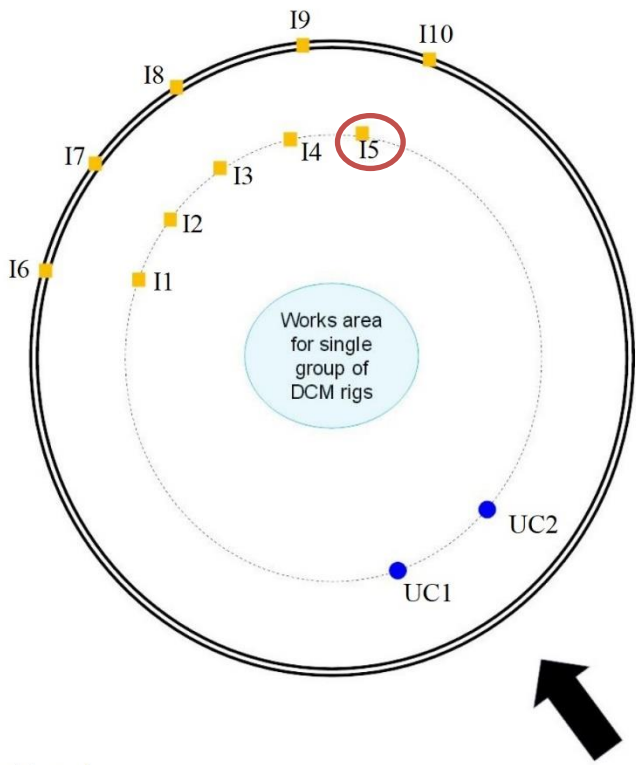
Incident Report on Action Level or Limit Level Non-compliance

Project	Integrated Waste Management Facilities, Phase 1		
Date	25 February 2019 (Lab result received on 5 March 2019)		
Time	14:56 – 18:26 (Mid-Ebb)		
Mid-Ebb			
Monitoring Location	CR2 		
Parameter	Suspended Solid (SS)		
Action & Limit Levels	Action Level		Limit Level
	≥ 9.2 mg/L (120% of C1)		≥ 10.0 mg/L (130% of C1)
Measurement Level	Impact Station(s) of Exceedance	Control Stations	Impact Station(s) without Exceedance
	9.3 mg/L (CR2)	7.7 mg/L (C1) 7.5 mg/L (C2)	6.0 mg/L (B1) 5.8 mg/L (B2) 6.3 mg/L (B3) 5.8 mg/L (B4) 7.0 mg/L (F1) 4.3 mg/L (H1) 7.0 mg/L (M1) 7.5 mg/L (CR1)
Possible reason for Action or Limit Level Non-compliance	<p>Works scheduled on site on 25/02 include laying of sand blanket and geotextile at caisson seawall area, removal of surface rock at vertical blockwork seawall area, DCM sample coring for DCM main works and DCM main works.</p> <p>Dominating sea current direction was found to be from Northwest to Southeast at waters around Shek Kwu Chau.</p> <p>From MMO monitoring records on 25/02, MMO teams were arranged to two DCM barges (ESC-61 & ESC-62) and three derrick barges (FTB-19, DL5 & Shun Tat D12) on that day while no deficiency of silt curtain was found before the start of construction activity.</p> <p>CR2 is located close to the works location within the Project site while silt curtain checking implemented on DL5 (09:00), ESC-62 (07:15), Shun Tat D12 (10:00), FTB-</p>		

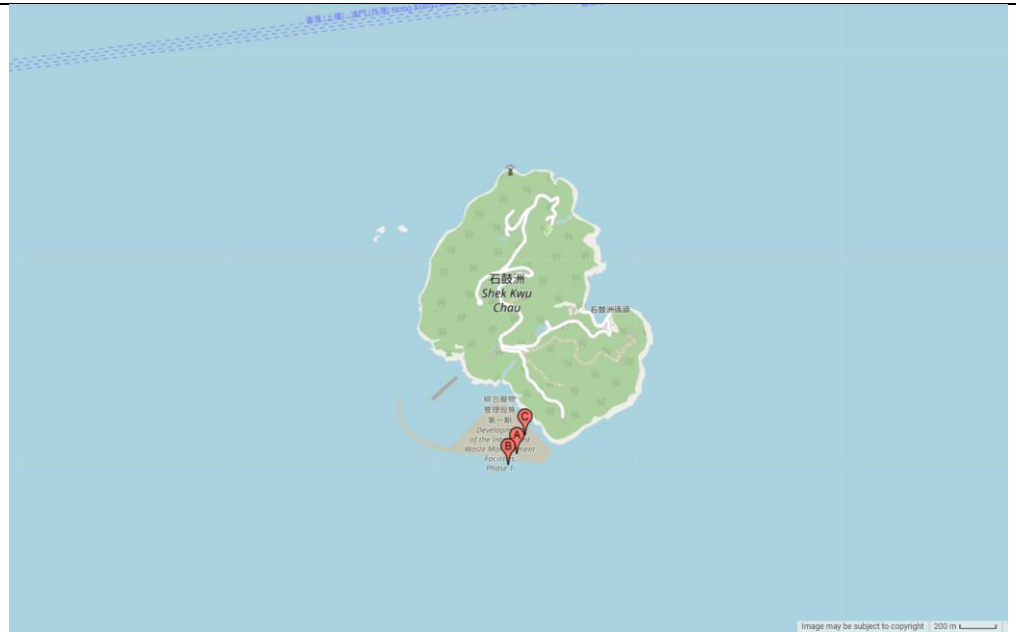
	<p>19 (07:00) & ESC-61 (08:30) by the Contractor and checking results showed that no deficiency of silt curtain was found on that day. No sand blanket laying work scheduled in Cheung Kee No.7 was carried out with referring to the site diary on that day. It might suggest that the SS exceedance at CR2 is deemed to be unrelated to the Project.</p> <p>Site tidiness in the present barges in the Project site were checked during weekly site inspection on 26/02, where was no major observation of improper site practice that might contribute to the increase in SS level was observed during the inspection.</p>
<p>Actions taken / to be taken</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 25/02:</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>6 March 2019</p>

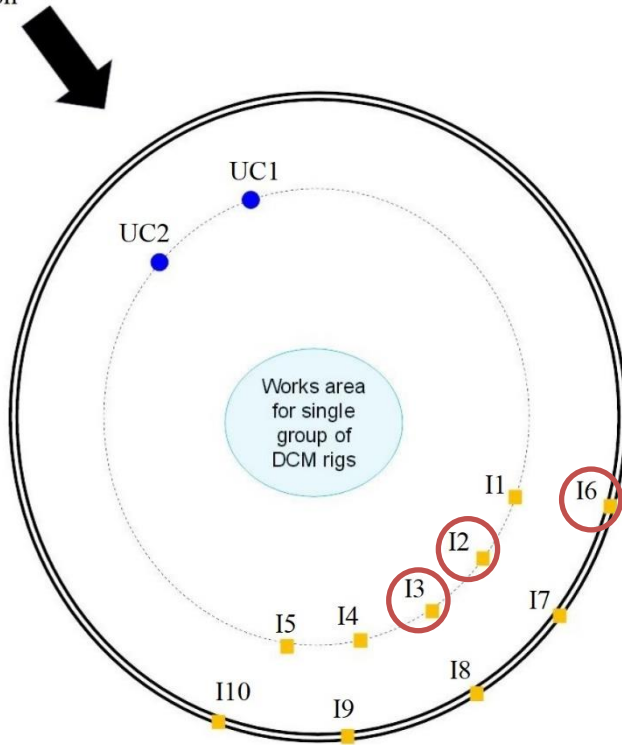
Incident Report on Action Level or Limit Level Non-compliance

Project	Integrated Waste Management Facilities, Phase 1		
Date	26 February 2019 (Lab result received on 6 March 2019)		
Time	09:13 - 12:43 (Mid-Flood) 16:13 - 19:00 (Mid-Ebb)		
Mid-Flood			
Monitoring Location	I5 : A (N22°11.449 E113° 59.067)		
			
	 <p style="text-align: center;">Note: Drawing is not to scale</p> <p style="text-align: right;">Tide Direction</p>		
Parameter	Suspended Solid (SS)		
Action & Limit Levels	Action Level	Limit Level	
	≥ 6.9 mg/L (120% of average of UC1 & UC2)	≥ 7.5 mg/L (130% of average of UC1 & UC2)	
Measurement Level	Impact Station(s) of	Control Stations	Impact Station(s) without

	Exceedance		Exceedance
	7.3 mg/L (I5)	4.8 mg/L (UC1) 6.7mg/L (UC2)	5.8 mg/L (I1) 5.3 mg/L (I2) 3.0 mg/L (I3) 6.3 mg/L (I4) 5.7 mg/L (I6) 4.7 mg/L (I7) 4.7 mg/L (I8) 3.2 mg/L (I9) 6.0 mg/L (I10)
Possible reason for Action or Limit Level Non-compliance	<p>Works scheduled on site on 26/02 include laying of geotextile at caisson seawall area, laying of sand blanket at caisson seawall area, removal of surface rock at vertical blockwork seawall area, post cone penetration test works, DCM sample coring for DCM main works and DCM main works.</p> <p>Dominating sea current direction was found to be from Southeast to Northwest at waters around Shek Kwu Chau.</p> <p>From MMO monitoring records on 26/02, MMO teams were arranged to two DCM barges (ESC-61 & ESC-62) and three derrick barges (DL-5, Shun Tat D12 & FTB-19) on that day while no deficiency of silt curtain was found before the start of construction activity.</p> <p>I5 is located close to the work location within the Project site while silt curtain checking was implemented on DL5 (09:00), FTB19 (20:30), ESC-62 (10:00), ESC-61 (07:00) and Shun Tat D12 (15:00) by the Contractor and checking results showed that no deficiency of silt curtain was found on that day. When compared to the baseline data of dry season (Action Level: 8mg/L & Limit Level: 10mg/L), most of the monitoring stations (including upstream control station UC1 and UC2) were relatively low, it might suggest that the SS exceedance at I5 is deemed to be unrelated to the Project.</p> <p>Site tidiness in the present barges in the Project site were checked during weekly site inspection on 26/02, where was no major observation of improper site practice that might contribute to the increase in SS level was observed during the inspection.</p>		
Actions taken / to be taken	<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>		
Mid-Ebb			
Monitoring Location	<p>I2 : A (N22°11.276 E113° 59.259) I3 : B (N22°11.242 E113° 59.232) I6 : C (N22°11.331 E113° 59.284)</p>		

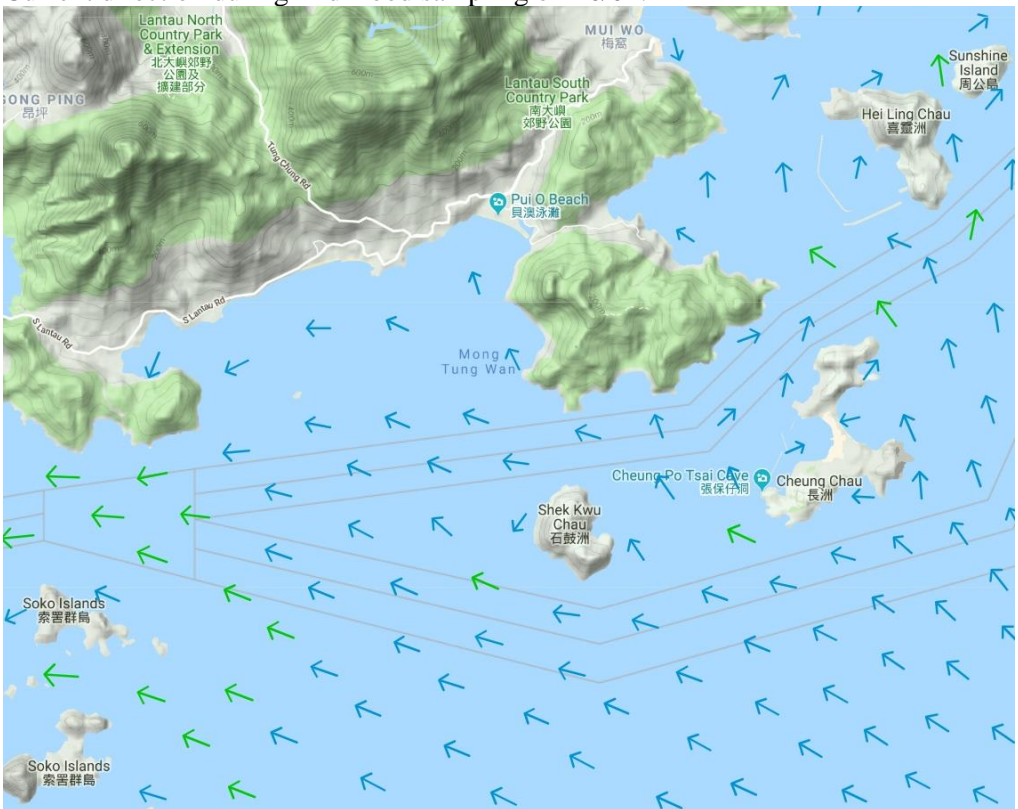


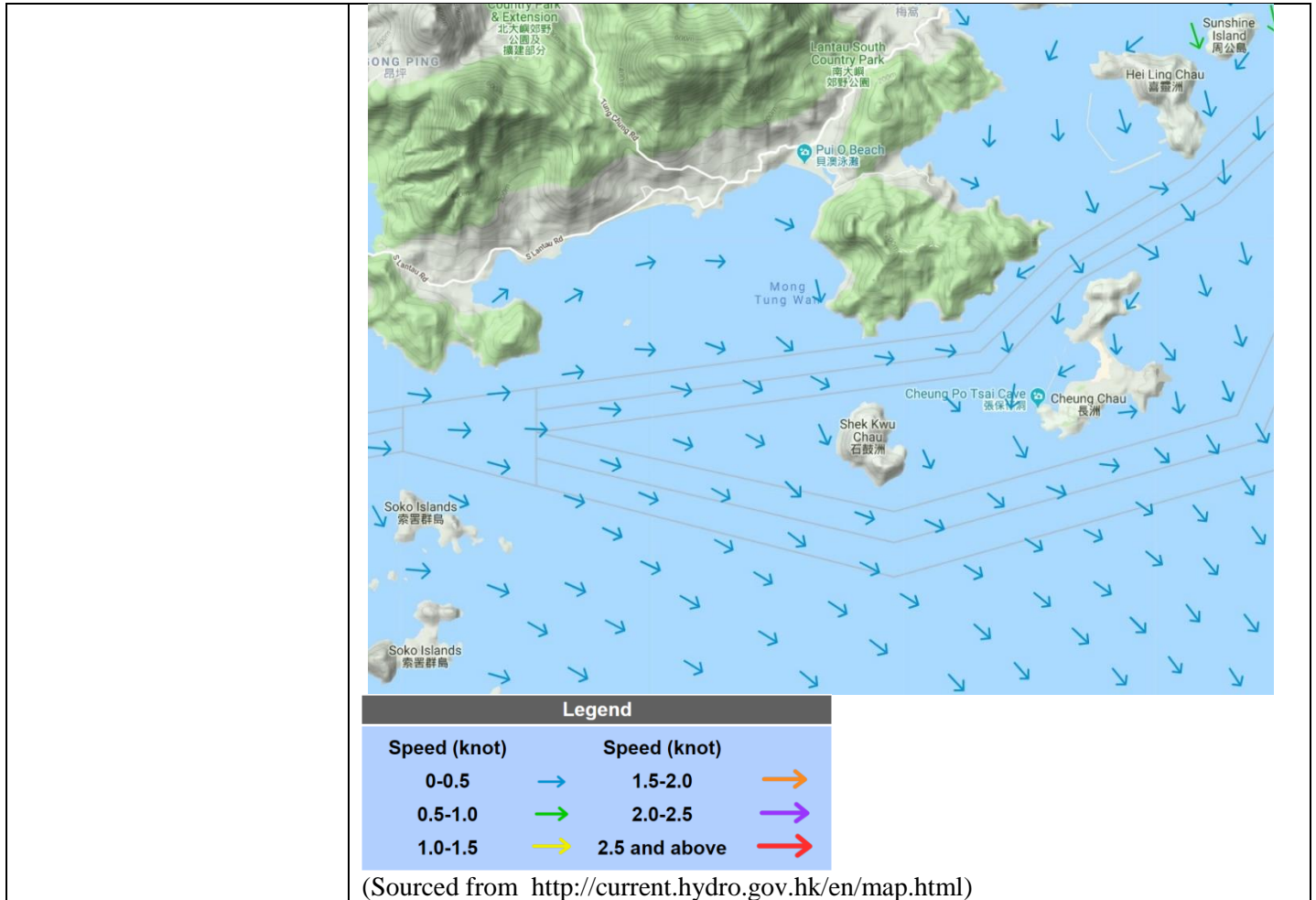
Tide Direction



Note: Drawing is not to scale


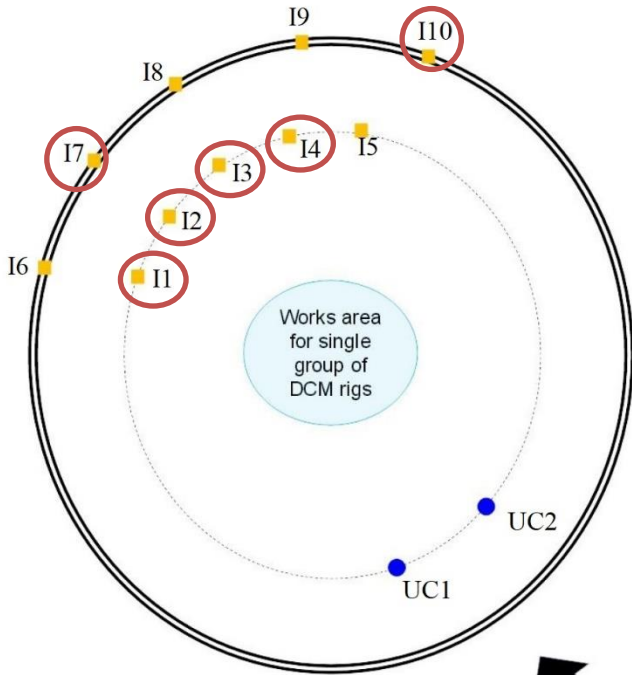
Parameter	Suspended Solid (SS)		
Action & Limit Levels	Action Level		Limit Level
	≥ 9.4 mg/L (120% of average of UC1 & UC2)		≥ 10.2 mg/L (130% of average of UC1 & UC2)
Measurement Level	Impact Station(s) of Exceedance	Control Stations	Impact Station(s) without Exceedance
	12.3 mg/L (I2) 15.0 mg/L (I3) 10.8 mg/L (I6)	7.7 mg/L (UC1) 8.0 mg/L (UC2)	6.5 mg/L (I1) 7.3 mg/L (I4) 8.7 mg/L (I5) 9.0 mg/L (I7) 8.7 mg/L (I8)

		6.3 mg/L (I9) 9.0 mg/L (I10)
Possible reason for Action or Limit Level Non-compliance	<p>Works scheduled on site on 26/02 include laying of geotextile at caisson seawall area, laying of sand blanket at caisson seawall area, removal of surface rock at vertical blockwork seawall area, post cone penetration test works, DCM sample coring for DCM main works and DCM main works.</p> <p>Dominating sea current direction was found to be from Northwest to Southeast at waters around Shek Kwu Chau.</p> <p>From MMO monitoring records on 26/02, MMO teams were arranged to two DCM barges (ESC-61 & ESC-62) and three derrick barges (DL-5, Shun Tat D12 & FTB-19) on that day while no deficiency of silt curtain was found before the start of construction activity.</p> <p>I2, I3 & I6 are located close to the work location within the Project site while silt curtain checking was implemented on DL5 (09:00), FTB19 (20:30), ESC-62 (10:00), ESC-61 (07:00) and Shun Tat D12 (15:00) by the Contractor and checking results showed that no deficiency of silt curtain was found on that day.</p> <p>Site tidiness in the present barges in the Project site were checked during weekly site inspection on 26/02, where was no major observation of 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 remained to implement all applicable mitigation measures as per the Updated EM&A Manual.	
Remarks	<p>Current direction during mid-flood sampling on 26/02:</p>  <p>Current direction during mid-ebb sampling on 26/02:</p>	

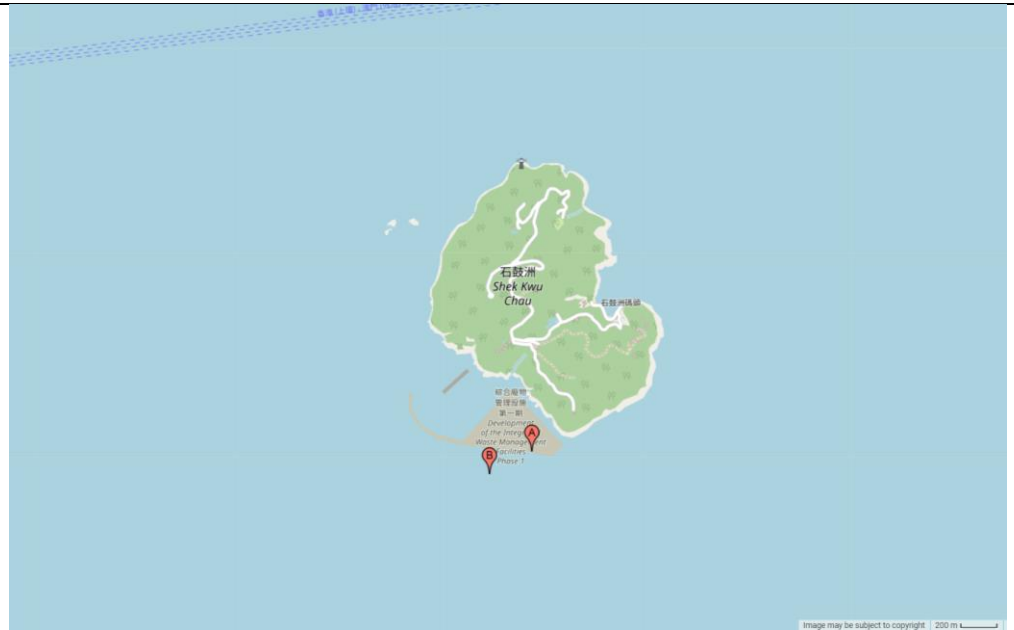


Prepared by	Polar Chan
Date	7 March 2019

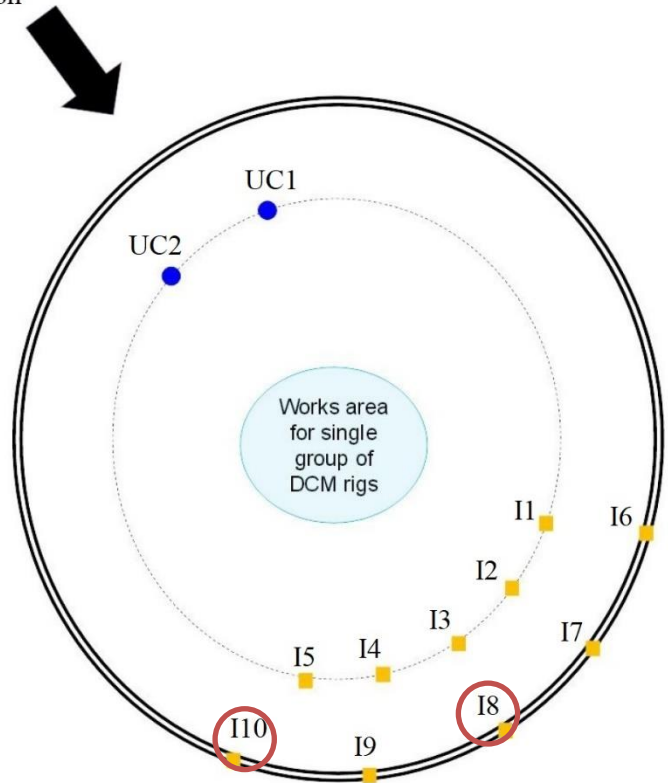
Incident Report on Action Level or Limit Level Non-compliance

Project	Integrated Waste Management Facilities, Phase 1
Date	28 February 2019 (Lab result received on 7 March 2019)
Time	11:11 - 14:41 (Mid-Flood) 17:10 - 19:00 (Mid-Ebb)
Mid-Flood	
Monitoring Location	<p> I1 : A (N22°11.310 E113° 58.985) I2 : B (N22°11.334 E113° 59.001) I3 : C (N22°11.371 E113° 59.026) I4 : D (N22°11.419 E113° 59.057) I7 : E (N22°11.460 E113° 58.865) I10 : F (N22°11.505 E113° 58.990) </p>   <p>Note: Drawing is not to scale</p> <p style="text-align: right;">Tide Direction</p>

Parameter	Suspended Solid (SS)		
Action & Limit Levels	Action Level		Limit Level
	≥ 4.2 mg/L (120% of average of UC1 & UC2)		≥ 4.6 mg/L (130% of average of UC1 & UC2)
Measurement Level	Impact Station(s) of Exceedance	Control Stations	Impact Station(s) without Exceedance
	5.8 mg/L (I1) 4.7 mg/L (I2) 4.2 mg/L (I3) 5.5 mg/L (I4) 4.7 mg/L (I7) 4.7 mg/L (I10)	2.7 mg/L (UC1) 4.3 mg/L (UC2)	3.2 mg/L (I5) 2.7 mg/L (I6) 3.0 mg/L (I8) 3.2 mg/L (I9)
Possible reason for Action or Limit Level Non-compliance	<p>Works scheduled on site on 28/02 include laying of geotextile at caisson seawall area, laying of sand blanket at caisson seawall area, post cone penetration test works, DCM sample coring for DCM main works and DCM main works.</p> <p>Dominating sea current direction was found to be from Southeast to Northwest at waters around Shek Kwu Chau.</p> <p>From MMO monitoring records on 28/02, MMO teams were arranged to two DCM barges (ESC-61 & ESC-62) and two derrick barges (Shun Tat D12 & FTB-19) on that day while no deficiency of silt curtain was found before the start of construction activity.</p> <p>I1, I2, I3, I4, I7 & I10 are located close to the work location within the Project site while silt curtain checking was implemented on FTB19 (07:00), ESC-62 (7:00), ESC-61 (07:00) and Shun Tat D12 (08:30) by the Contractor and checking results showed that no deficiency of silt curtain was found on that day. When compared to the baseline data of dry season (Action Level: 8mg/L & Limit Level: 10mg/L), most of the monitoring stations (including upstream control station UC1 and UC2) were relatively low, it might suggest that the SS exceedance at I1, I2, I3, I4, I7 & I10 are deemed to be unrelated to the Project.</p> <p>Site tidiness in the present barges in the Project site were checked during weekly site inspection on 26/02, where was no major observation of 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 remained to implement all applicable mitigation measures as per the Updated EM&A Manual.		
Mid-Ebb			
Monitoring Location	I8 : A (N22°11.261 E113° 59.272) I10 : B (N22°11.195 E113° 59.137)		

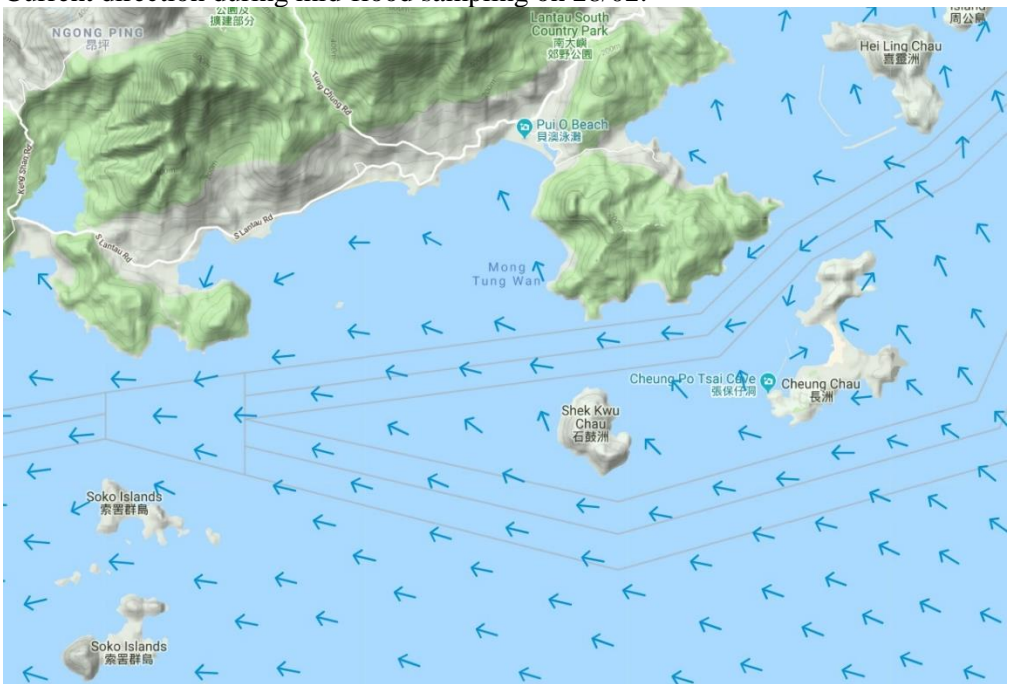


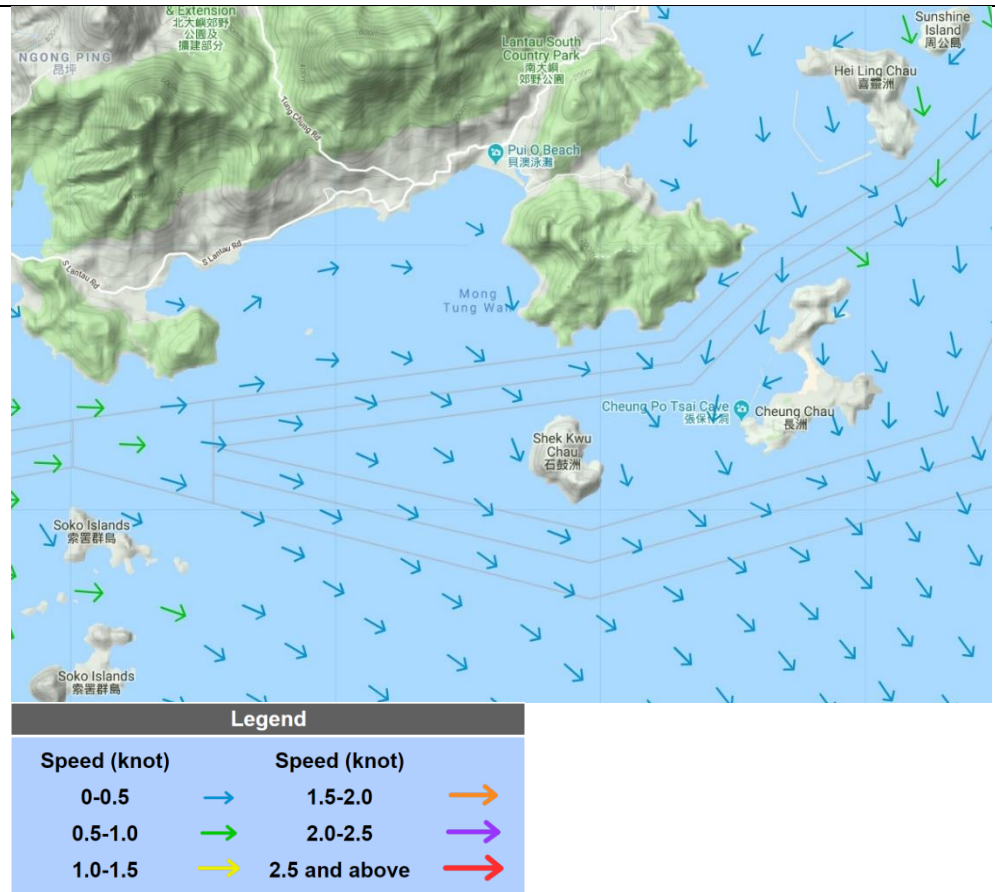
Tide Direction



Note: Drawing is not to scale

Parameter	Suspended Solid (SS)		
Action & Limit Levels	Action Level		Limit Level
	≥ 4.9 mg/L (120% of average of UC1 & UC2)		≥ 5.3 mg/L (130% of average of UC1 & UC2)
Measurement Level	Impact Station(s) of Exceedance	Control Stations	Impact Station(s) without Exceedance
	6.2 mg/L (I8) 5.0 mg/L (I10)	5.3 mg/L (UC1) 2.8 mg/L (UC2)	3.0 mg/L (I1) 2.8 mg/L (I2) 2.5 mg/L (I3)

		3.3 mg/L (I4) 4.8 mg/L (I5) 3.8 mg/L (I6) 3.5 mg/L (I7) 3.8 mg/L (I9)
Possible reason for Action or Limit Level Non-compliance	<p>Works scheduled on site on 28/02 include laying of geotextile at caisson seawall area, laying of sand blanket at caisson seawall area, post cone penetration test works, DCM sample coring for DCM main works and DCM main works.</p> <p>Dominating sea current direction was found to be from Southeast to Northwest at waters around Shek Kwu Chau.</p> <p>From MMO monitoring records on 28/02, MMO teams were arranged to two DCM barges (ESC-61 & ESC-62) and two derrick barges (Shun Tat D12 & FTB-19) on that day while no deficiency of silt curtain was found before the start of construction activity.</p> <p>I8 & I10 are located close to the work location within the Project site while silt curtain checking was implemented on FTB19 (07:00), ESC-62 (7:00), ESC-61 (07:00) and Shun Tat D12 (08:30) by the Contractor and checking results showed that no deficiency of silt curtain was found on that day. When compared to the baseline data of dry season (Action Level: 8mg/L & Limit Level: 10mg/L), most of the monitoring stations (including upstream control station UC1 and UC2) were relatively low, it might suggest that the SS exceedance at I8 & I10 are deemed to be unrelated to the Project.</p> <p>Site tidiness in the present barges in the Project site were checked during weekly site inspection on 26/02, where was no major observation of 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 remained to implement all applicable mitigation measures as per the Updated EM&A Manual.	
Remarks	<p>Current direction during mid-flood sampling on 28/02:</p>  <p>Current direction during mid-ebb sampling on 28/02:</p>	



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

Prepared by	Polar Chan
Date	8 March 2019