

*Appendix N1 Cumulative Statistics on Exceedances*

		Total No. recorded in this reporting month	Total No. recorded since project commencement
1-Hr TSP	Action	0	0
	Limit	0	1
24-Hr TSP	Action	0	2
	Limit	0	0
Noise	Action	0	0
	Limit	0	0
Water Quality	Action	48	224
	Limit	5	24
Impact Dolphin Monitoring	Action	0	11
	Limit	0	13

*Appendix N2 Cumulative Statistics on Complaints, Notifications of Summons and Successful Prosecutions*

Reporting Period	Cumulative Statistics		
	Complaints	Notifications of Summons	Successful Prosecutions
This Reporting Month (September 2018)	0	0	0
Total No. received since project commencement	14	0	0

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**To** Ramboll Hong Kong Limited (ENPO)

**From** ERM- Hong Kong, Limited

**Ref/Project number** Contract No. HY/2012/07  
Tuen Mun – Chek Lap Kok Link – Southern  
Connection Viaduct Section

**Subject** Notification of Exceedance for Marine Water  
Quality Impact Monitoring

**Date** 04 September 2018

2507,  
25/F One Harbourfront,  
18 Tak Fung Street,  
Hung Hom, Hong Kong  
Telephone: (852) 2271 3113  
Facsimile: (852) 2723 5660  
E-mail: jasmine.ng@erm.com



**ERM**

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Dear Sir/ Madam,

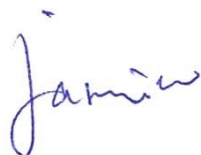
Please find attached the Notification of Exceedance (NOE) of the following  
Log no.:

Action Level Exceedance

0215660\_03 September 2018\_ Surface and Middle-depth DO\_E\_Station IS(Mf)16  
0215660\_03 September 2018\_ Bottom-depth DO\_E\_Station IS(Mf)16  
0215660\_03 September 2018\_ Surface and Middle-depth DO\_E\_SR4(N)  
0215660\_03 September 2018\_ Bottom-depth DO\_E\_Station SR4(N)  
0215660\_03 September 2018\_ Surface and Middle-depth DO\_E\_Station IS8  
0215660\_03 September 2018\_ Bottom-depth DO\_E\_Station IS8  
0215660\_03 September 2018\_ Surface and Middle-depth DO\_E\_Station IS(Mf)9  
0215660\_03 September 2018\_ Bottom-depth DO\_E\_Station IS(Mf)9  
0215660\_03 September 2018\_ Bottom-depth DO\_F\_Station IS(Mf)16  
0215660\_03 September 2018\_ Bottom-depth DO\_F\_Station SR4a

A total of ten exceedances were recorded on 03 September 2018.

Regards,



Dr Jasmine Ng  
Environmental Team Leader

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ERM-Hong Kong, Limited

CONTRACT NO. HY/2012/07

TUEN MUN – CHEK LAP KOK LINK –  
SOUTHERN CONNECTION VIADUCT SECTION

*Marine Water Quality Impact Monitoring*

Notification of Exceedance

<b>Log No.</b>	<p style="text-align: center;"><u>Action Level Exceedance</u></p> <p style="text-align: center;">0215660_03 September 2018_ Surface and Middle-depth DO_E_Station IS(Mf)16            0215660_03 September 2018_ Bottom-depth DO_E_Station IS(Mf)16            0215660_03 September 2018_ Surface and Middle-depth DO_E_SR4(N)            0215660_03 September 2018_ Bottom-depth DO_E_Station SR4(N)            0215660_03 September 2018_ Surface and Middle-depth DO_E_Station IS8            0215660_03 September 2018_ Bottom-depth DO_E_Station IS8            0215660_03 September 2018_ Surface and Middle-depth DO_E_Station IS(Mf)9            0215660_03 September 2018_ Bottom-depth DO_E_Station IS(Mf)9            0215660_03 September 2018_ Bottom-depth DO_F_Station IS(Mf)16            0215660_03 September 2018_ Bottom-depth DO_F_Station SR4a</p> <p style="text-align: center;">[Total No. of Exceedance = 10]</p>	
<b>Date</b>	<p style="text-align: center;">03 September 2018 (Measured)            04 September 2018 (<i>In situ</i> results received by ERM)            07 September 2018 (Laboratory results received by ERM)</p>	
<b>Monitoring Station</b>	<p style="text-align: center;">CS(Mf)5, SR4a, SR4(N), IS8, IS(Mf)16, IS(Mf)9, CS(Mf)3(N)</p>	
<b>Parameter(s) with Exceedance(s)</b>	<p style="text-align: center;">Surface and Middle-depth DO, Bottom DO</p>	
<b>Action Levels for DO</b>	Surface and Middle-depth DO	5.0 mg/L
	Bottom-depth DO	4.7 mg/L
<b>Limit Levels for DO</b>	Surface and Middle-depth DO	4.2 mg/L
	Bottom-depth DO	3.6 mg/L
<b>Measured Levels</b>	<p>Please refer to the attached data.</p>	
<b>Works Undertaken (at the time of monitoring event)</b>	<p>Demolition of marine platform was undertaken at Viaduct E under this Contract on 03 September 2018.</p>	
<b>Possible Reason for Action or Limit Level Exceedance(s)</b>	<p>The exceedances of DO are unlikely to be due to the Project, in view of the following</p> <ul style="list-style-type: none"> <li>• All monitored parameters, except DO, at all monitoring stations were in compliance with the Action and Limit Levels during both mid-ebb and mid-flood tides on the same day.</li> <li>• Surface and Middle-depth and Bottom-depth DO levels during mid-ebb tide at IS(Mf)16, SR4(N), IS8 and IS(Mf)9 were similar to the upstream control station CS(Mf)3(N), in which the recorded level of Surface and Middle-depth and Bottom-depth DO were low.</li> <li>• Low Bottom-depth DO during both mid-ebb and mid-flood tide is likely due to relatively higher Salinity recorded at the bottom level which was possibly caused by the stratification of seawater during summer when the freshwater discharged from the Pearl River tended to form a surface layer of lower salinity water, which is probably responsible for the lower Salinity recorded at the surface and middle levels compared to the higher Salinity recorded at the bottom level of the monitoring stations.</li> <li>• No particular observation was reported at IS(Mf)16, SR4a, SR4(N), IS8 and IS(Mf)9.</li> </ul>	
<b>Actions Taken/ To Be Taken</b>	<p>No immediate action is considered necessary. The ET will monitor for future trends in exceedances.</p>	
<b>Remarks</b>	<p>The monitoring results on 03 September 2018 and locations of water quality monitoring stations are attached. Site photo record on 03 September 2018 is attached.</p>	

Project	Works	Date (yyyy-mm-dd)	Tide	Station	Start Time	Level	Replicate	Temperature (°C)	pH	Salinity (ppt)	DO (mg/L)	Average DO (mg/L)	Turbidity (NTU)	Depth-Averaged Turbidity	SS (mg/L)	Depth-Averaged SS
TMCLKL	HY/2012/07	2018-09-03	Mid-Ebb	CS(Mf)5	5:27	Surface	1	27.9	7.9	14.9	4.9	4.7	1.6	3.4	2.4	3.7
TMCLKL	HY/2012/07	2018-09-03	Mid-Ebb	CS(Mf)5	5:27	Surface	2	27.9	7.9	15.1	4.9		3.3		3.3	
TMCLKL	HY/2012/07	2018-09-03	Mid-Ebb	CS(Mf)5	5:27	Middle	1	27.3	8.0	20.0	4.4		2.5		4.7	
TMCLKL	HY/2012/07	2018-09-03	Mid-Ebb	CS(Mf)5	5:27	Middle	2	27.3	8.0	20.3	4.4		3.8		5.3	
TMCLKL	HY/2012/07	2018-09-03	Mid-Ebb	CS(Mf)5	5:27	Bottom	1	25.7	8.0	27.5	4.0	4.0	4.9	3.4	2.6	3.7
TMCLKL	HY/2012/07	2018-09-03	Mid-Ebb	CS(Mf)5	5:27	Bottom	2	25.7	8.0	27.9	4.0		4.3		3.7	
TMCLKL	HY/2012/07	2018-09-03	Mid-Ebb	CS(Mf)3(N)	5:54	Surface	1	28.2	7.7	13.7	4.5	4.4	4.3	6.9	6.2	5.5
TMCLKL	HY/2012/07	2018-09-03	Mid-Ebb	CS(Mf)3(N)	5:54	Surface	2	28.1	7.7	13.7	4.5		4.0		3.9	
TMCLKL	HY/2012/07	2018-09-03	Mid-Ebb	CS(Mf)3(N)	5:54	Middle	1	27.5	7.8	19.9	4.2		8.1		6.0	
TMCLKL	HY/2012/07	2018-09-03	Mid-Ebb	CS(Mf)3(N)	5:54	Middle	2	27.4	7.8	20.1	4.2		8.0		6.0	
TMCLKL	HY/2012/07	2018-09-03	Mid-Ebb	CS(Mf)3(N)	5:54	Bottom	1	27.3	7.8	21.0	4.3	4.3	8.6	3.5	5.4	3.9
TMCLKL	HY/2012/07	2018-09-03	Mid-Ebb	CS(Mf)3(N)	5:54	Bottom	2	27.2	7.8	21.1	4.3		8.4		5.2	
TMCLKL	HY/2012/07	2018-09-03	Mid-Ebb	IS(Mf)16	5:58	Surface	1	27.6	7.9	19.3	4.3	4.3	2.7	3.5	3.9	3.9
TMCLKL	HY/2012/07	2018-09-03	Mid-Ebb	IS(Mf)16	5:58	Surface	2	27.6	7.9	19.5	4.3		4.4		4.7	
TMCLKL	HY/2012/07	2018-09-03	Mid-Ebb	IS(Mf)16	5:58	Middle	1					4.2		3.5		3.9
TMCLKL	HY/2012/07	2018-09-03	Mid-Ebb	IS(Mf)16	5:58	Middle	2									
TMCLKL	HY/2012/07	2018-09-03	Mid-Ebb	IS(Mf)16	5:58	Bottom	1	27.4	7.9	20.2	4.2	4.2	3.6	3.5	3.4	3.9
TMCLKL	HY/2012/07	2018-09-03	Mid-Ebb	IS(Mf)16	5:58	Bottom	2	27.4	7.9	20.5	4.2		3.3		3.7	
TMCLKL	HY/2012/07	2018-09-03	Mid-Ebb	SR4a	6:09	Surface	1	27.3	8.0	16.2	6.3	6.3	3.4	3.3	4.1	3.9
TMCLKL	HY/2012/07	2018-09-03	Mid-Ebb	SR4a	6:09	Surface	2	27.4	8.0	16.4	6.3		4.1		3.2	
TMCLKL	HY/2012/07	2018-09-03	Mid-Ebb	SR4a	6:09	Middle	1									
TMCLKL	HY/2012/07	2018-09-03	Mid-Ebb	SR4a	6:09	Middle	2									
TMCLKL	HY/2012/07	2018-09-03	Mid-Ebb	SR4a	6:09	Bottom	1	27.2	8.0	16.4	6.4	6.4	2.5	3.3	3.6	3.9
TMCLKL	HY/2012/07	2018-09-03	Mid-Ebb	SR4a	6:09	Bottom	2	27.2	8.0	16.6	6.4		3.1		4.8	
TMCLKL	HY/2012/07	2018-09-03	Mid-Ebb	SR4(N)	6:14	Surface	1	27.7	7.9	17.4	4.3	4.3	3.7	4.2	5.1	6.4
TMCLKL	HY/2012/07	2018-09-03	Mid-Ebb	SR4(N)	6:14	Surface	2	27.8	7.9	17.6	4.3		4.2		6.0	
TMCLKL	HY/2012/07	2018-09-03	Mid-Ebb	SR4(N)	6:14	Middle	1									
TMCLKL	HY/2012/07	2018-09-03	Mid-Ebb	SR4(N)	6:14	Middle	2									
TMCLKL	HY/2012/07	2018-09-03	Mid-Ebb	SR4(N)	6:14	Bottom	1	27.7	7.9	18.8	4.2	4.2	4.2	3.3	7.2	3.1
TMCLKL	HY/2012/07	2018-09-03	Mid-Ebb	SR4(N)	6:14	Bottom	2	27.7	7.9	19.0	4.2		4.8		7.1	
TMCLKL	HY/2012/07	2018-09-03	Mid-Ebb	IS8	6:20	Surface	1	27.7	7.9	17.2	4.7	4.7	4.9	4.1	2.0	2.4
TMCLKL	HY/2012/07	2018-09-03	Mid-Ebb	IS8	6:20	Surface	2	27.7	7.9	17.6	4.6		3.6		2.7	
TMCLKL	HY/2012/07	2018-09-03	Mid-Ebb	IS8	6:20	Middle	1									
TMCLKL	HY/2012/07	2018-09-03	Mid-Ebb	IS8	6:20	Middle	2									
TMCLKL	HY/2012/07	2018-09-03	Mid-Ebb	IS8	6:20	Bottom	1	27.6	7.9	19.6	4.2	4.2	4.5	3.3	2.4	3.1
TMCLKL	HY/2012/07	2018-09-03	Mid-Ebb	IS8	6:20	Bottom	2	27.6	7.9	19.7	4.1		3.3		2.4	
TMCLKL	HY/2012/07	2018-09-03	Mid-Ebb	IS(Mf)9	6:28	Surface	1	27.8	7.9	16.7	4.9	4.9	1.8	3.3	2.7	3.1
TMCLKL	HY/2012/07	2018-09-03	Mid-Ebb	IS(Mf)9	6:28	Surface	2	27.8	7.9	17.0	4.9		3.5		3.0	
TMCLKL	HY/2012/07	2018-09-03	Mid-Ebb	IS(Mf)9	6:28	Middle	1									
TMCLKL	HY/2012/07	2018-09-03	Mid-Ebb	IS(Mf)9	6:28	Middle	2									
TMCLKL	HY/2012/07	2018-09-03	Mid-Ebb	IS(Mf)9	6:28	Bottom	1	27.8	7.9	17.9	4.4	4.4	4.0	3.3	3.8	3.1
TMCLKL	HY/2012/07	2018-09-03	Mid-Ebb	IS(Mf)9	6:28	Bottom	2	27.8	7.9	18.2	4.4		3.9		2.9	

Project	Works	Date (yyyy-mm-dd)	Tide	Station	Start Time	Level	Replicate	Temperature (°C)	pH	Salinity (ppt)	DO (mg/L)	Average DO (mg/L)	Turbidity (NTU)	Depth-Averaged Turbidity	SS (mg/L)	Depth-Averaged SS
TMCLKL	HY/2012/07	2018-09-03	Mid-Flood	CS(Mf)5	12:58	Surface	1	28.1	7.9	16.6	4.7	4.1	3.1	4.2	3.4	4.2
TMCLKL	HY/2012/07	2018-09-03	Mid-Flood	CS(Mf)5	12:58	Surface	2	28.2	7.9	16.6	4.8		2.2		4.7	
TMCLKL	HY/2012/07	2018-09-03	Mid-Flood	CS(Mf)5	12:58	Middle	1	25.9	8.0	26.7	3.5		2.0		3.8	
TMCLKL	HY/2012/07	2018-09-03	Mid-Flood	CS(Mf)5	12:58	Middle	2	25.9	8.0	26.9	3.5		3.3		4.7	
TMCLKL	HY/2012/07	2018-09-03	Mid-Flood	CS(Mf)5	12:58	Bottom	1	24.6	8.0	31.1	3.4	3.4	7.2	4.2	4.3	4.2
TMCLKL	HY/2012/07	2018-09-03	Mid-Flood	CS(Mf)5	12:58	Bottom	2	24.7	8.0	31.4	3.4		7.1		4.2	
TMCLKL	HY/2012/07	2018-09-03	Mid-Flood	CS(Mf)3(N)	11:47	Surface	1	28.6	7.5	8.6	4.4	4.4	6.1	5.9	6.5	6.0
TMCLKL	HY/2012/07	2018-09-03	Mid-Flood	CS(Mf)3(N)	11:47	Surface	2	28.6	7.5	8.5	4.4		5.9		5.7	
TMCLKL	HY/2012/07	2018-09-03	Mid-Flood	CS(Mf)3(N)	11:47	Middle	1	28.3	7.6	9.7	4.4		5.7		5.7	
TMCLKL	HY/2012/07	2018-09-03	Mid-Flood	CS(Mf)3(N)	11:47	Middle	2	28.2	7.6	9.9	4.4		5.5		5.9	
TMCLKL	HY/2012/07	2018-09-03	Mid-Flood	CS(Mf)3(N)	11:47	Bottom	1	27.9	7.6	16.6	4.2	4.2	6.3	4.2	4.8	6.1
TMCLKL	HY/2012/07	2018-09-03	Mid-Flood	CS(Mf)3(N)	11:47	Bottom	2	27.9	7.6	16.7	4.2		5.9		7.4	
TMCLKL	HY/2012/07	2018-09-03	Mid-Flood	IS(Mf)16	12:31	Surface	1	27.9	7.9	15.2	5.2	5.2	5.3	11.8	5.4	6.1
TMCLKL	HY/2012/07	2018-09-03	Mid-Flood	IS(Mf)16	12:31	Surface	2	28.0	7.9	15.3	5.2		5.3		4.1	
TMCLKL	HY/2012/07	2018-09-03	Mid-Flood	IS(Mf)16	12:31	Middle	1									
TMCLKL	HY/2012/07	2018-09-03	Mid-Flood	IS(Mf)16	12:31	Middle	2									
TMCLKL	HY/2012/07	2018-09-03	Mid-Flood	IS(Mf)16	12:31	Bottom	1	27.6	7.9	18.7	4.6	4.6	18.6	9.0	6.5	3.8
TMCLKL	HY/2012/07	2018-09-03	Mid-Flood	IS(Mf)16	12:31	Bottom	2	27.7	7.9	19.0	4.5	18.0	8.4			
TMCLKL	HY/2012/07	2018-09-03	Mid-Flood	SR4a	12:21	Surface	1	28.2	7.8	13.5	5.1	5.1	7.6	9.0	2.8	3.8
TMCLKL	HY/2012/07	2018-09-03	Mid-Flood	SR4a	12:21	Surface	2	28.2	7.9	13.6	5.1		6.8		3.4	
TMCLKL	HY/2012/07	2018-09-03	Mid-Flood	SR4a	12:21	Middle	1									
TMCLKL	HY/2012/07	2018-09-03	Mid-Flood	SR4a	12:21	Middle	2									
TMCLKL	HY/2012/07	2018-09-03	Mid-Flood	SR4a	12:21	Bottom	1	27.8	7.8	19.1	4.3	4.3	11.0	9.0	4.5	3.8
TMCLKL	HY/2012/07	2018-09-03	Mid-Flood	SR4a	12:21	Bottom	2	27.8	7.9	19.2	4.2	10.6	4.5			
TMCLKL	HY/2012/07	2018-09-03	Mid-Flood	SR4(N)	12:16	Surface	1	28.4	7.9	14.0	5.2	5.2	4.2	5.7	5.6	4.8
TMCLKL	HY/2012/07	2018-09-03	Mid-Flood	SR4(N)	12:16	Surface	2	28.4	7.9	14.1	5.2		4.6		5.6	
TMCLKL	HY/2012/07	2018-09-03	Mid-Flood	SR4(N)	12:16	Middle	1									
TMCLKL	HY/2012/07	2018-09-03	Mid-Flood	SR4(N)	12:16	Middle	2									
TMCLKL	HY/2012/07	2018-09-03	Mid-Flood	SR4(N)	12:16	Bottom	1	28.0	7.9	17.1	4.9	5.0	7.0	7.3	5.1	2.8
TMCLKL	HY/2012/07	2018-09-03	Mid-Flood	SR4(N)	12:16	Bottom	2	28.0	7.9	17.1	5.0		7.1		2.7	
TMCLKL	HY/2012/07	2018-09-03	Mid-Flood	IS8	12:11	Surface	1	28.1	7.9	13.9	5.0	5.0	6.2	7.3	2.6	2.8
TMCLKL	HY/2012/07	2018-09-03	Mid-Flood	IS8	12:11	Surface	2	28.2	7.9	14.0	5.0		6.1		3.5	
TMCLKL	HY/2012/07	2018-09-03	Mid-Flood	IS8	12:11	Middle	1									
TMCLKL	HY/2012/07	2018-09-03	Mid-Flood	IS8	12:11	Middle	2									
TMCLKL	HY/2012/07	2018-09-03	Mid-Flood	IS8	12:11	Bottom	1	28.0	7.9	16.2	4.9	4.9	8.7	7.3	2.5	2.8
TMCLKL	HY/2012/07	2018-09-03	Mid-Flood	IS8	12:11	Bottom	2	28.0	7.9	16.4	4.9		8.3		2.6	
TMCLKL	HY/2012/07	2018-09-03	Mid-Flood	IS(Mf)9	12:03	Surface	1					5.1		7.2		4.6
TMCLKL	HY/2012/07	2018-09-03	Mid-Flood	IS(Mf)9	12:03	Surface	2									
TMCLKL	HY/2012/07	2018-09-03	Mid-Flood	IS(Mf)9	12:03	Middle	1	27.9	7.9	16.8	5.1		7.1		5.0	
TMCLKL	HY/2012/07	2018-09-03	Mid-Flood	IS(Mf)9	12:03	Middle	2	28.0	7.9	17.0	5.1		7.2		4.2	
TMCLKL	HY/2012/07	2018-09-03	Mid-Flood	IS(Mf)9	12:03	Bottom	1							7.2		4.6
TMCLKL	HY/2012/07	2018-09-03	Mid-Flood	IS(Mf)9	12:03	Bottom	2									

Note: Indicates Exceedance of Action Level  
Indicates Exceedance of Limit Level

Photo 1 - Mid-Ebb at IS(Mf)16 on 03 September 2018



Photo 2 - Mid-ebb at SR4(N) on 03 September 2018



Photo 3 - Mid-ebb at IS8 on 03 September 2018



Photo 4 - Mid-ebb at IS(Mf)9 on 03 September 2018

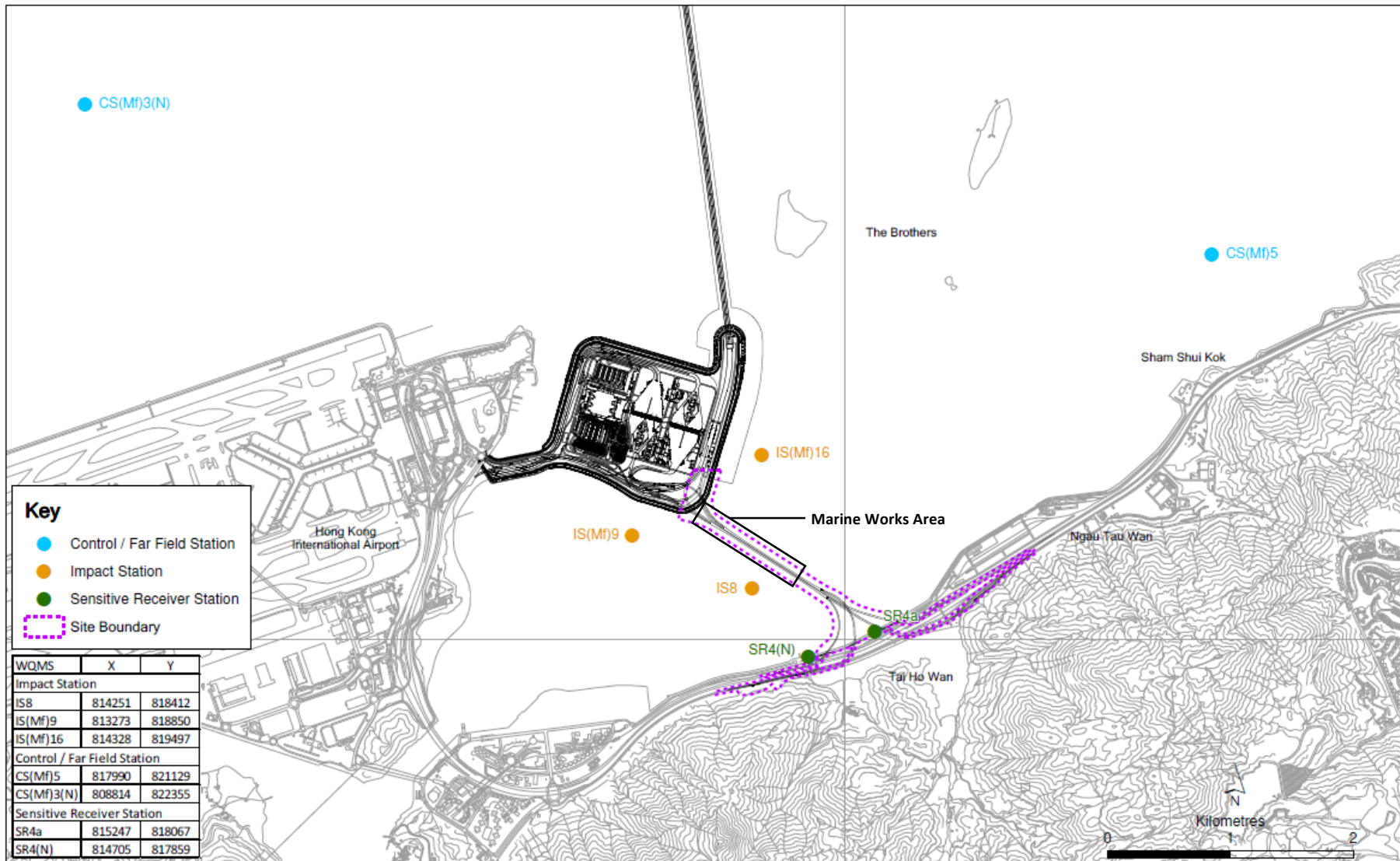


**Photo 5 - Mid-Flood at IS(Mf)16 on 03 September 2018**



**Photo 6 - Mid-Flood at SR4a on 03 September 2018**





**Key**

- Control / Far Field Station
- Impact Station
- Sensitive Receiver Station
- Site Boundary

WQMS	X	Y
<b>Impact Station</b>		
IS8	814251	818412
IS(Mf)9	813273	818850
IS(Mf)16	814328	819497
<b>Control / Far Field Station</b>		
CS(Mf)5	817990	821129
CS(Mf)3(N)	808814	822355
<b>Sensitive Receiver Station</b>		
SR4a	815247	818067
SR4(N)	814705	817859

Locations of Water Quality Monitoring Stations



Email  
message

Environmental  
Resources  
Management

**To** Ramboll Hong Kong Limited (ENPO)

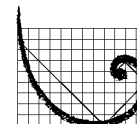
**From** ERM- Hong Kong, Limited

**Ref/Project number** Contract No. HY/2012/07  
Tuen Mun – Chek Lap Kok Link – Southern  
Connection Viaduct Section

**Subject** Notification of Exceedance for Marine Water  
Quality Impact Monitoring

**Date** 06 September 2018

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25/F One Harbourfront,  
18 Tak Fung Street,  
Hung Hom, Hong Kong  
Telephone: (852) 2271 3113  
Facsimile: (852) 2723 5660  
E-mail: jasmine.ng@erm.com



**ERM**

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Dear Sir/ Madam,

Please find attached the Notification of Exceedance (NOE) of the following  
Log no.:

Action Level Exceedance

0215660\_05 September 2018\_ Bottom-depth DO\_E\_Station IS(Mf)16  
0215660\_05 September 2018\_ Bottom-depth DO\_E\_Station SR4a  
0215660\_05 September 2018\_ Surface and Middle-depth DO\_E\_SR4(N)  
0215660\_05 September 2018\_ Bottom-depth DO\_F\_Station SR4a

Limit Level Exceedance

0215660\_05 September 2018\_ Bottom-depth DO\_E\_Station SR4(N)

A total of five exceedances were recorded on 05 September 2018.

Regards,



Dr Jasmine Ng  
*Environmental Team Leader*

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ERM-Hong Kong, Limited

CONTRACT NO. HY/2012/07

TUEN MUN – CHEK LAP KOK LINK –  
SOUTHERN CONNECTION VIADUCT SECTION

*Marine Water Quality Impact Monitoring*

**Notification of Exceedance**

<b>Log No.</b>	<p style="text-align: center;"><u>Action Level Exceedance</u></p> <p style="text-align: center;">0215660_05 September 2018_ Bottom-depth DO_E_Station IS(Mf)16 0215660_05 September 2018_ Bottom-depth DO_E_Station SR4a 0215660_05 September 2018_ Surface and Middle-depth DO_E_SR4(N) 0215660_05 September 2018_ Bottom-depth DO_F_Station SR4a</p> <p style="text-align: center;"><u>Limit Level Exceedance</u></p> <p style="text-align: center;">0215660_05 September 2018_ Bottom-depth DO_E_Station SR4(N)</p> <p style="text-align: center;">[Total No. of Exceedance = 5]</p>	
<b>Date</b>	<p style="text-align: center;">05 September 2018 (Measured) 06 September 2018 (<i>In situ</i> results received by ERM) 10 September 2018 (Laboratory results received by ERM)</p>	
<b>Monitoring Station</b>	<p style="text-align: center;">CS(Mf)5, SR4a, SR4(N), IS8, IS(Mf)16, IS(Mf)9, CS(Mf)3(N)</p>	
<b>Parameter(s) with Exceedance(s)</b>	<p style="text-align: center;">Surface and Middle-depth DO, Bottom DO</p>	
<b>Action Levels for DO</b>	Surface and Middle-depth DO	5.0 mg/L
	Bottom-depth DO	4.7 mg/L
<b>Limit Levels for DO</b>	Surface and Middle-depth DO	4.2 mg/L
	Bottom-depth DO	3.6 mg/L
<b>Measured Levels</b>	Refer to the attached data.	
<b>Works Undertaken (at the time of monitoring event)</b>	Demolition of marine platform was undertaken at Viaduct E under this Contract on 05 September 2018.	
<b>Possible Reason for Action or Limit Level Exceedance(s)</b>	<p>The exceedances of DO are unlikely to be due to the Project, in view of the following</p> <ul style="list-style-type: none"> <li>• All monitored parameters, except DO, at all monitoring stations were in compliance with the Action and Limit Levels during both mid-ebb and mid-flood tides on the same day.</li> <li>• Apart from marginal exceedance of Surface and Middle-depth DO level at SR4(N), all Surface and Middle-depth DO at all monitoring stations were in compliance with the Action and Limit Levels during both tides.</li> <li>• Low Bottom-depth DO during both mid-ebb and mid-flood tide is likely due to relatively higher Salinity recorded at the bottom level which was possibly caused by the stratification of seawater during summer when the freshwater discharged from the Pearl River tended to form a surface layer of lower salinity water, which is probably responsible for the lower Salinity recorded at the surface and middle levels compared to the higher Salinity recorded at the bottom level of the monitoring stations.</li> <li>• No particular observation was reported at IS(Mf)16, SR4a and SR4(N).</li> </ul>	
<b>Actions Taken / To Be Taken</b>	No immediate action is considered necessary. The ET will monitor for future trends in exceedances.	
<b>Remarks</b>	The monitoring results on 05 September 2018 and locations of water quality monitoring stations are attached. Site photo record on 05 September 2018 is attached.	

Project	Works	Date (yyyy-mm-dd)	Tide	Station	Start Time	Level	Replicate	Temperature (°C)	pH	Salinity (ppt)	DO (mg/L)	Average DO (mg/L)	Turbidity (NTU)	Depth-Averaged Turbidity	SS (mg/L)	Depth-Averaged SS
TMCLKL	HY/2012/07	2018-09-05	Mid-Ebb	CS(Mf)5	8:26	Surface	1	28.3	7.9	14.6	5.3	5.2	3.0	2.7	2.6	2.3
TMCLKL	HY/2012/07	2018-09-05	Mid-Ebb	CS(Mf)5	8:26	Surface	2	28.3	7.9	14.6	5.2		2.9		2.6	
TMCLKL	HY/2012/07	2018-09-05	Mid-Ebb	CS(Mf)5	8:26	Middle	1	28.3	7.9	14.9	5.1		3.0		2.0	
TMCLKL	HY/2012/07	2018-09-05	Mid-Ebb	CS(Mf)5	8:26	Middle	2	28.3	7.9	14.9	5.1	4.1	2.8	2.7	1.9	2.3
TMCLKL	HY/2012/07	2018-09-05	Mid-Ebb	CS(Mf)5	8:26	Bottom	1	26.1	8.0	26.3	4.1		2.6		2.1	
TMCLKL	HY/2012/07	2018-09-05	Mid-Ebb	CS(Mf)5	8:26	Bottom	2	26.1	8.0	26.3	4.0	5.2	1.6	8.4	2.3	1.9
TMCLKL	HY/2012/07	2018-09-05	Mid-Ebb	CS(Mf)3(N)	9:47	Surface	1	28.9	7.7	10.7	5.6		8.8		2.5	
TMCLKL	HY/2012/07	2018-09-05	Mid-Ebb	CS(Mf)3(N)	9:47	Surface	2	28.9	7.8	10.8	5.6		8.7		1.8	
TMCLKL	HY/2012/07	2018-09-05	Mid-Ebb	CS(Mf)3(N)	9:47	Middle	1	28.3	7.8	14.3	4.7	5.0	8.2	8.4	1.0	1.9
TMCLKL	HY/2012/07	2018-09-05	Mid-Ebb	CS(Mf)3(N)	9:47	Middle	2	28.4	7.8	14.3	4.7		8.1		1.4	
TMCLKL	HY/2012/07	2018-09-05	Mid-Ebb	CS(Mf)3(N)	9:47	Bottom	1	27.3	7.7	21.9	4.9	5.6	8.2	4.9	2.3	2.5
TMCLKL	HY/2012/07	2018-09-05	Mid-Ebb	CS(Mf)3(N)	9:47	Bottom	2	27.2	7.7	22.6	5.0		8.1		2.4	
TMCLKL	HY/2012/07	2018-09-05	Mid-Ebb	IS(Mf)16	8:57	Surface	1	28.8	8.0	13.9	5.6	5.6	3.7	4.9	3.0	2.5
TMCLKL	HY/2012/07	2018-09-05	Mid-Ebb	IS(Mf)16	8:57	Surface	2	28.9	8.0	13.9	5.6		3.1		2.6	
TMCLKL	HY/2012/07	2018-09-05	Mid-Ebb	IS(Mf)16	8:57	Middle	1									
TMCLKL	HY/2012/07	2018-09-05	Mid-Ebb	IS(Mf)16	8:57	Middle	2					3.7		4.9		2.5
TMCLKL	HY/2012/07	2018-09-05	Mid-Ebb	IS(Mf)16	8:57	Bottom	1	27.5	7.8	20.1	3.7		6.7		2.4	
TMCLKL	HY/2012/07	2018-09-05	Mid-Ebb	IS(Mf)16	8:57	Bottom	2	27.6	7.9	20.1	3.7	5.6	6.1	6.9	2.0	2.5
TMCLKL	HY/2012/07	2018-09-05	Mid-Ebb	SR4a	9:06	Surface	1	28.9	7.9	13.1	5.6		4.5		1.7	
TMCLKL	HY/2012/07	2018-09-05	Mid-Ebb	SR4a	9:06	Surface	2	28.9	8.0	13.1	5.6		3.7		2.3	
TMCLKL	HY/2012/07	2018-09-05	Mid-Ebb	SR4a	9:06	Middle	1					5.6		6.9		2.5
TMCLKL	HY/2012/07	2018-09-05	Mid-Ebb	SR4a	9:06	Middle	2									
TMCLKL	HY/2012/07	2018-09-05	Mid-Ebb	SR4a	9:06	Bottom	1	27.6	7.8	19.5	3.8	3.8	9.5	6.9	2.9	2.5
TMCLKL	HY/2012/07	2018-09-05	Mid-Ebb	SR4a	9:06	Bottom	2	27.6	7.8	19.5	3.8		9.7		3.1	
TMCLKL	HY/2012/07	2018-09-05	Mid-Ebb	SR4(N)	9:14	Surface	1	28.9	7.9	13.7	4.9	4.9	7.2	12.8	1.2	2.6
TMCLKL	HY/2012/07	2018-09-05	Mid-Ebb	SR4(N)	9:14	Surface	2	28.9	7.9	13.7	4.9		6.5		2.1	
TMCLKL	HY/2012/07	2018-09-05	Mid-Ebb	SR4(N)	9:14	Middle	1									
TMCLKL	HY/2012/07	2018-09-05	Mid-Ebb	SR4(N)	9:14	Middle	2					3.0		12.8		2.6
TMCLKL	HY/2012/07	2018-09-05	Mid-Ebb	SR4(N)	9:14	Bottom	1	27.8	7.7	18.9	3.0		18.7		3.3	
TMCLKL	HY/2012/07	2018-09-05	Mid-Ebb	SR4(N)	9:14	Bottom	2	27.8	7.8	18.9	3.0	5.6	18.9	4.7	3.8	1.8
TMCLKL	HY/2012/07	2018-09-05	Mid-Ebb	IS8	9:20	Surface	1	29.1	7.9	14.2	5.6		4.8		2.2	
TMCLKL	HY/2012/07	2018-09-05	Mid-Ebb	IS8	9:20	Surface	2	29.1	8.0	14.2	5.5		4.0		1.4	
TMCLKL	HY/2012/07	2018-09-05	Mid-Ebb	IS8	9:20	Middle	1					5.6		4.7		1.8
TMCLKL	HY/2012/07	2018-09-05	Mid-Ebb	IS8	9:20	Middle	2									
TMCLKL	HY/2012/07	2018-09-05	Mid-Ebb	IS8	9:20	Bottom	1	28.7	7.9	15.4	5.1	5.1	5.3	4.7	1.0	2.2
TMCLKL	HY/2012/07	2018-09-05	Mid-Ebb	IS8	9:20	Bottom	2	28.8	7.9	15.4	5.0		4.8		2.4	
TMCLKL	HY/2012/07	2018-09-05	Mid-Ebb	IS(Mf)9	9:27	Surface	1	29.1	7.9	14.0	5.8	5.8	3.7	3.5	2.3	2.2
TMCLKL	HY/2012/07	2018-09-05	Mid-Ebb	IS(Mf)9	9:27	Surface	2	29.1	8.0	14.0	5.8		2.7		2.9	
TMCLKL	HY/2012/07	2018-09-05	Mid-Ebb	IS(Mf)9	9:27	Middle	1									
TMCLKL	HY/2012/07	2018-09-05	Mid-Ebb	IS(Mf)9	9:27	Middle	2					5.4		3.5		2.2
TMCLKL	HY/2012/07	2018-09-05	Mid-Ebb	IS(Mf)9	9:27	Bottom	1	28.9	7.9	14.8	5.4		4.1		1.7	
TMCLKL	HY/2012/07	2018-09-05	Mid-Ebb	IS(Mf)9	9:27	Bottom	2	29.0	8.0	14.8	5.4	5.4	3.4	3.5	2.0	2.2
TMCLKL	HY/2012/07	2018-09-05	Mid-Ebb	IS(Mf)9	9:27	Bottom	2	29.0	8.0	14.8	5.4					

Project	Works	Date (yyyy-mm-dd)	Tide	Station	Start Time	Level	Replicate	Temperature (°C)	pH	Salinity (ppt)	DO (mg/L)	Average DO (mg/L)	Turbidity (NTU)	Depth-Averaged Turbidity	SS (mg/L)	Depth-Averaged SS
TMCLKL	HY/2012/07	2018-09-05	Mid-Flood	CS(Mf)5	16:19	Surface	1	29.7	8.1	12.4	7.0	5.4	2.7	4.7	1.4	2.1
TMCLKL	HY/2012/07	2018-09-05	Mid-Flood	CS(Mf)5	16:19	Surface	2	29.7	8.2	13.1	7.0		2.2		1.2	
TMCLKL	HY/2012/07	2018-09-05	Mid-Flood	CS(Mf)5	16:19	Middle	1	26.1	7.9	25.7	3.8		4.3		2.5	
TMCLKL	HY/2012/07	2018-09-05	Mid-Flood	CS(Mf)5	16:19	Middle	2	26.1	8.0	25.7	3.8	3.5	4.0	4.7	2.8	2.1
TMCLKL	HY/2012/07	2018-09-05	Mid-Flood	CS(Mf)5	16:19	Bottom	1	24.6	8.0	31.2	3.5		7.3		2.3	
TMCLKL	HY/2012/07	2018-09-05	Mid-Flood	CS(Mf)5	16:19	Bottom	2	24.6	8.0	31.2	3.4	5.5	7.8	7.0	2.4	4.7
TMCLKL	HY/2012/07	2018-09-05	Mid-Flood	CS(Mf)3(N)	15:03	Surface	1	30.0	7.7	8.1	6.1		5.9		4.4	
TMCLKL	HY/2012/07	2018-09-05	Mid-Flood	CS(Mf)3(N)	15:03	Surface	2	29.9	7.8	8.2	6.1		5.3		4.6	
TMCLKL	HY/2012/07	2018-09-05	Mid-Flood	CS(Mf)3(N)	15:03	Middle	1	28.5	7.7	12.9	4.8	5.0	8.1	7.0	4.9	4.7
TMCLKL	HY/2012/07	2018-09-05	Mid-Flood	CS(Mf)3(N)	15:03	Middle	2	28.5	7.7	12.9	4.8		8.2		5.8	
TMCLKL	HY/2012/07	2018-09-05	Mid-Flood	CS(Mf)3(N)	15:03	Bottom	1	27.8	7.6	16.8	5.0	7.2	7.5	6.5	4.6	4.8
TMCLKL	HY/2012/07	2018-09-05	Mid-Flood	CS(Mf)3(N)	15:03	Bottom	2	27.8	7.7	16.7	5.0		7.1		4.0	
TMCLKL	HY/2012/07	2018-09-05	Mid-Flood	IS(Mf)16	15:41	Surface	1	29.4	8.1	13.7	7.1	7.2	6.3	6.5	5.0	4.8
TMCLKL	HY/2012/07	2018-09-05	Mid-Flood	IS(Mf)16	15:41	Surface	2	29.4	8.2	13.7	7.2		6.6		5.4	
TMCLKL	HY/2012/07	2018-09-05	Mid-Flood	IS(Mf)16	15:41	Middle	1									
TMCLKL	HY/2012/07	2018-09-05	Mid-Flood	IS(Mf)16	15:41	Middle	2					5.3		6.5		4.8
TMCLKL	HY/2012/07	2018-09-05	Mid-Flood	IS(Mf)16	15:41	Bottom	1	28.5	7.9	15.7	5.3		6.3		3.8	
TMCLKL	HY/2012/07	2018-09-05	Mid-Flood	IS(Mf)16	15:41	Bottom	2	28.5	8.0	15.8	5.3	7.4	6.8	10.9	5.0	5.9
TMCLKL	HY/2012/07	2018-09-05	Mid-Flood	SR4a	15:31	Surface	1	30.3	8.2	13.1	7.3		6.6		6.8	
TMCLKL	HY/2012/07	2018-09-05	Mid-Flood	SR4a	15:31	Surface	2	30.3	8.3	13.1	7.4		6.1		5.3	
TMCLKL	HY/2012/07	2018-09-05	Mid-Flood	SR4a	15:31	Middle	1					4.0		10.9		5.9
TMCLKL	HY/2012/07	2018-09-05	Mid-Flood	SR4a	15:31	Middle	2						15.7		5.2	
TMCLKL	HY/2012/07	2018-09-05	Mid-Flood	SR4a	15:31	Bottom	1	28.2	7.8	17.5	4.0	7.0	15.0	6.8	6.1	5.6
TMCLKL	HY/2012/07	2018-09-05	Mid-Flood	SR4a	15:31	Bottom	2	28.3	7.8	17.5	4.0		6.0		5.8	
TMCLKL	HY/2012/07	2018-09-05	Mid-Flood	SR4(N)	15:26	Surface	1	29.7	8.0	13.3	7.0		5.1		5.8	
TMCLKL	HY/2012/07	2018-09-05	Mid-Flood	SR4(N)	15:26	Surface	2	29.8	8.1	13.3	6.9	6.3		6.8		5.6
TMCLKL	HY/2012/07	2018-09-05	Mid-Flood	SR4(N)	15:26	Middle	1									
TMCLKL	HY/2012/07	2018-09-05	Mid-Flood	SR4(N)	15:26	Middle	2					7.0		6.3		6.3
TMCLKL	HY/2012/07	2018-09-05	Mid-Flood	SR4(N)	15:26	Bottom	1	29.3	8.0	13.9	6.3		8.1		5.4	
TMCLKL	HY/2012/07	2018-09-05	Mid-Flood	SR4(N)	15:26	Bottom	2	29.3	8.1	13.9	6.3	6.3	8.1	6.3	5.3	6.3
TMCLKL	HY/2012/07	2018-09-05	Mid-Flood	IS8	15:20	Surface	1	29.7	8.1	13.3	7.0		5.1		6.0	
TMCLKL	HY/2012/07	2018-09-05	Mid-Flood	IS8	15:20	Surface	2	29.7	8.1	13.3	7.0	7.0	5.5	6.3	5.8	6.3
TMCLKL	HY/2012/07	2018-09-05	Mid-Flood	IS8	15:20	Middle	1									
TMCLKL	HY/2012/07	2018-09-05	Mid-Flood	IS8	15:20	Middle	2					6.7		6.3		6.3
TMCLKL	HY/2012/07	2018-09-05	Mid-Flood	IS8	15:20	Bottom	1	29.4	8.1	13.5	6.7		7.3		7.4	
TMCLKL	HY/2012/07	2018-09-05	Mid-Flood	IS8	15:20	Bottom	2	29.5	8.1	13.5	6.7	6.8	7.2	6.4	5.8	4.9
TMCLKL	HY/2012/07	2018-09-05	Mid-Flood	IS(Mf)9	15:13	Surface	1									
TMCLKL	HY/2012/07	2018-09-05	Mid-Flood	IS(Mf)9	15:13	Surface	2									
TMCLKL	HY/2012/07	2018-09-05	Mid-Flood	IS(Mf)9	15:13	Middle	1	29.5	8.1	13.9	6.7	6.8	6.3	6.4	4.9	4.9
TMCLKL	HY/2012/07	2018-09-05	Mid-Flood	IS(Mf)9	15:13	Middle	2	29.6	8.2	13.8	6.8		6.5		4.9	
TMCLKL	HY/2012/07	2018-09-05	Mid-Flood	IS(Mf)9	15:13	Bottom	1					6.8		6.4		4.9
TMCLKL	HY/2012/07	2018-09-05	Mid-Flood	IS(Mf)9	15:13	Bottom	2									

Note: Indicates Exceedance of Action Level  
Indicates Exceedance of Limit Level

Photo 1 - Mid-Ebb at IS(Mf)16 on 05 September 2018



Photo 2 - Mid-Ebb at SR4a on 05 September 2018

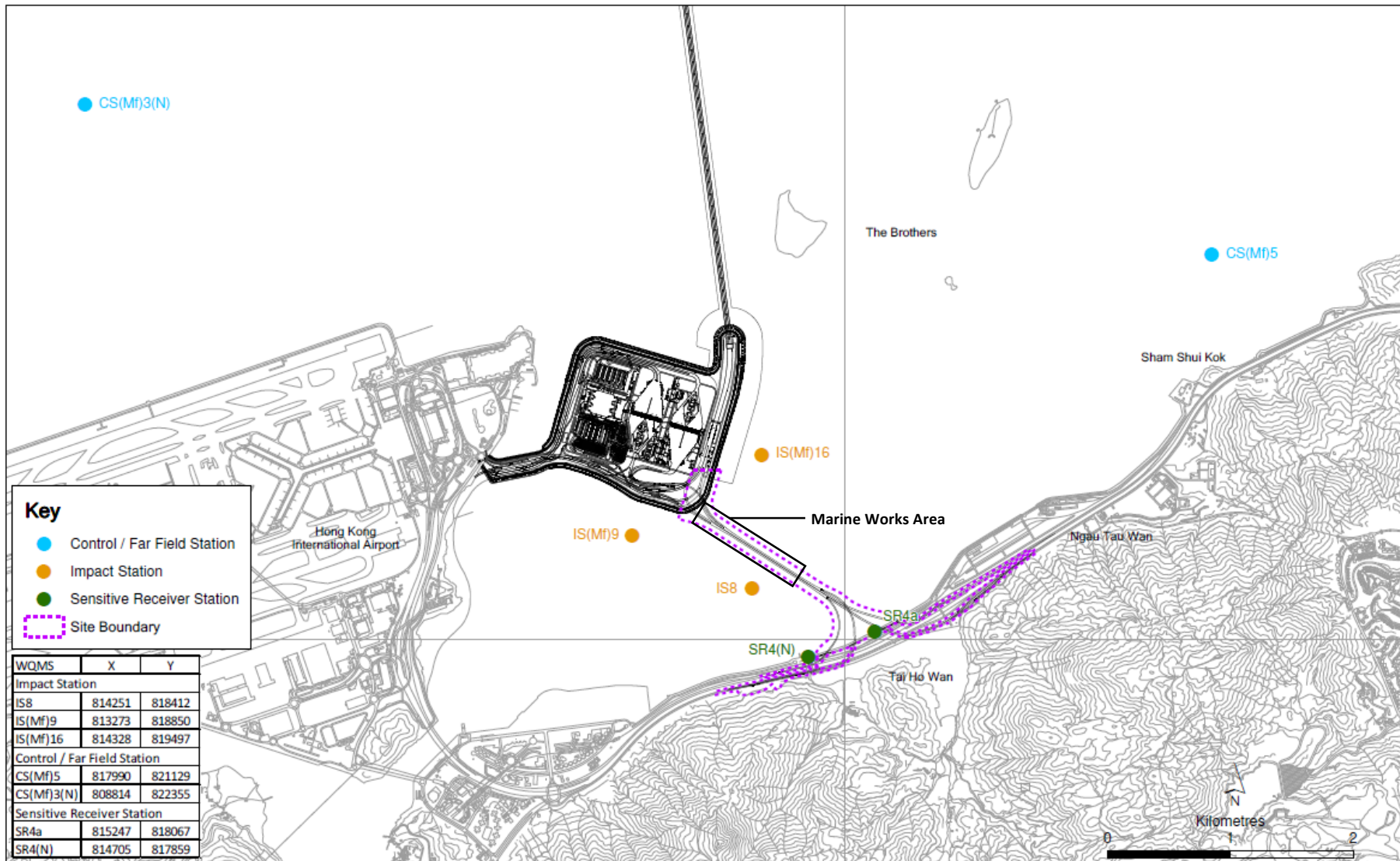


Photo 3 - Mid-Ebb at SR4(N) on 05 September 2018



Photo 4 - Mid-Flood at SR4a on 05 September 2018





**Key**

- Control / Far Field Station
- Impact Station
- Sensitive Receiver Station
- Site Boundary

WQMS	X	Y
<b>Impact Station</b>		
IS8	814251	818412
IS(Mf)9	813273	818850
IS(Mf)16	814328	819497
<b>Control / Far Field Station</b>		
CS(Mf)5	817990	821129
CS(Mf)3(N)	808814	822355
<b>Sensitive Receiver Station</b>		
SR4a	815247	818067
SR4(N)	814705	817859

Locations of Water Quality Monitoring Stations

Email  
message

Environmental  
Resources  
Management

**To** Ramboll Hong Kong Limited (ENPO)

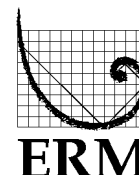
**From** ERM- Hong Kong, Limited

**Ref/Project number** Contract No. HY/2012/07  
Tuen Mun – Chek Lap Kok Link – Southern  
Connection Viaduct Section

**Subject** Notification of Exceedance for Marine Water  
Quality Impact Monitoring

**Date** 10 September 2018

2507,  
25/F One Harbourfront,  
18 Tak Fung Street,  
Hung Hom, Hong Kong  
Telephone: (852) 2271 3113  
Facsimile: (852) 2723 5660  
E-mail: jasmine.ng@erm.com



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Dear Sir/ Madam,

Please find attached the Notification of Exceedance (NOE) of the following  
Log no.:

Action Level Exceedance

0215660\_07 September 2018\_ Bottom-depth DO\_E\_Station IS(Mf)16  
0215660\_07 September 2018\_ Bottom-depth DO\_E\_Station SR4a  
0215660\_07 September 2018\_ Surface and Middle-depth DO\_E\_SR4(N)  
0215660\_07 September 2018\_ Bottom-depth DO\_E\_Station SR4(N)  
0215660\_07 September 2018\_ Bottom-depth DO\_F\_Station SR4a

Limit Level Exceedance

0215660\_07 September 2018\_ Bottom-depth DO\_E\_Station IS8

A total of six exceedances were recorded on 07 September 2018.

Regards,

Dr Jasmine Ng  
Environmental Team Leader

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ERM-Hong Kong, Limited

CONTRACT NO. HY/2012/07

TUEN MUN – CHEK LAP KOK LINK –  
SOUTHERN CONNECTION VIADUCT SECTION

*Marine Water Quality Impact Monitoring*

**Notification of Exceedance**

Log No.	<p style="text-align: center;"><u>Action Level Exceedance</u></p> <p style="text-align: center;">0215660_07 September 2018_ Bottom-depth DO_E_Station IS(Mf)16 0215660_07 September 2018_ Bottom-depth DO_E_Station SR4a 0215660_07 September 2018_ Surface and Middle-depth DO_E_SR4(N) 0215660_07 September 2018_ Bottom-depth DO_E_Station SR4(N) 0215660_07 September 2018_ Bottom-depth DO_F_Station SR4a</p> <p style="text-align: center;"><u>Limit Level Exceedance</u></p> <p style="text-align: center;">0215660_07 September 2018_ Bottom-depth DO_E_Station IS8</p> <p style="text-align: center;">[Total No. of Exceedance = 6]</p>	
Date	<p>07 September 2018 (Measured)</p> <p>08 September 2018 (<i>In situ</i> results received by ERM)</p> <p>17 September 2018 (Laboratory results received by ERM)</p>	
Monitoring Station	CS(Mf)5, SR4a, SR4(N), IS8, IS(Mf)16, IS(Mf)9, CS(Mf)3(N)	
Parameter(s) with Exceedance(s)	Surface and Middle-depth DO, Bottom DO	
Action Levels for DO	Surface and Middle-depth DO	5.0 mg/L
	Bottom-depth DO	4.7 mg/L
Limit Levels for DO	Surface and Middle-depth DO	4.2 mg/L
	Bottom-depth DO	3.6 mg/L
Measured Levels	Refer to the attached data.	
Works Undertaken (at the time of monitoring event)	Demolition of marine platform was undertaken at Viaduct E under this Contract on 07 September 2018.	
Possible Reason for Action or Limit Level Exceedance(s)	<p>The exceedances of DO are unlikely to be due to the Project, in view of the following</p> <ul style="list-style-type: none"> <li>• All monitored parameters, except DO, at all monitoring stations were in compliance with the Action and Limit Levels during both mid-ebb and mid-flood tides on the same day.</li> <li>• Bottom-depth DO levels at IS(Mf)16, SR4a, SR4(N) and IS8 were similar to the corresponding control stations, CS(Mf)3(N) and CS(Mf)5, during mid-ebb and mid-flood tides respectively, in which the recorded Bottom-depth DO levels at the corresponding control stations were below Action Level.</li> <li>• Low Bottom-depth DO during both mid-ebb and mid-flood tide is likely due to relatively higher Salinity recorded at the bottom level which was possibly caused by the stratification of seawater during summer when the freshwater discharged from the Pearl River tended to form a surface layer of lower salinity water, which is probably responsible for the lower Salinity recorded at the surface and middle levels compared to the higher Salinity recorded at the bottom level of the monitoring stations.</li> <li>• Surface and Middle-depth DO level at SR4(N) was comparable with the corresponding control station CS(Mf)3(N) at mid-ebb tide where the surface and middle-depth DO was below Action Level.</li> <li>• No particular observation was reported at IS(Mf)16, SR4a, SR4(N) and IS8.</li> </ul>	
Actions Taken / To Be Taken	No immediate action is considered necessary. The ET will monitor for future trends in exceedances.	

<b>Remarks</b>	The monitoring results on 07 September 2018 and locations of water quality monitoring stations are attached. Site photo record on 07 September 2018 is attached.
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Project	Works	Date (yyyy-mm-dd)	Tide	Station	Start Time	Level	Replicate	Temperature (°C)	pH	Salinity (ppt)	DO (mg/L)	Average DO (mg/L)	Turbidity (NTU)	Depth-Averaged Turbidity	SS (mg/L)	Depth-Averaged SS		
TMCLKL	HY/2012/07	2018-09-07	Mid-Ebb	CS(Mf)5	10:36	Surface	1	27.8	8.1	20.8	5.3	4.7	2.8	6.0	3.6	5.9		
TMCLKL	HY/2012/07	2018-09-07	Mid-Ebb	CS(Mf)5	10:36	Surface	2	27.8	8.1	21.1	5.3		3.0		4.0			
TMCLKL	HY/2012/07	2018-09-07	Mid-Ebb	CS(Mf)5	10:36	Middle	1	26.5	8.0	25.5	4.1		4.5		6.1			
TMCLKL	HY/2012/07	2018-09-07	Mid-Ebb	CS(Mf)5	10:36	Middle	2	26.5	8.1	25.5	4.1		4.3		5.6			
TMCLKL	HY/2012/07	2018-09-07	Mid-Ebb	CS(Mf)5	10:36	Bottom	1	25.2	8.0	29.8	3.9	3.9	10.3	10.4	8.0	5.9		
TMCLKL	HY/2012/07	2018-09-07	Mid-Ebb	CS(Mf)5	10:36	Bottom	2	25.3	8.1	29.7	3.8		10.9		8.2			
TMCLKL	HY/2012/07	2018-09-07	Mid-Ebb	CS(Mf)3(N)	11:48	Surface	1	28.4	8.0	17.5	4.8	4.6	8.8	10.4	5.0	5.9		
TMCLKL	HY/2012/07	2018-09-07	Mid-Ebb	CS(Mf)3(N)	11:48	Surface	2	28.4	7.9	17.7	4.8		8.4		5.4			
TMCLKL	HY/2012/07	2018-09-07	Mid-Ebb	CS(Mf)3(N)	11:48	Middle	1	27.7	8.0	20.0	4.3		9.0		5.8			
TMCLKL	HY/2012/07	2018-09-07	Mid-Ebb	CS(Mf)3(N)	11:48	Middle	2	27.6	7.9	20.2	4.3		9.6		5.5			
TMCLKL	HY/2012/07	2018-09-07	Mid-Ebb	CS(Mf)3(N)	11:48	Bottom	1	27.0	8.0	23.2	4.1	4.1	13.1	7.5	6.4	6.4		
TMCLKL	HY/2012/07	2018-09-07	Mid-Ebb	CS(Mf)3(N)	11:48	Bottom	2	27.0	7.9	23.5	4.1		13.2		7.2			
TMCLKL	HY/2012/07	2018-09-07	Mid-Ebb	IS(Mf)16	11:09	Surface	1	27.9	8.1	21.8	5.0	5.0	4.4	7.5	5.8	6.4		
TMCLKL	HY/2012/07	2018-09-07	Mid-Ebb	IS(Mf)16	11:09	Surface	2	27.9	8.2	21.8	5.0		4.2		5.5			
TMCLKL	HY/2012/07	2018-09-07	Mid-Ebb	IS(Mf)16	11:09	Middle	1											
TMCLKL	HY/2012/07	2018-09-07	Mid-Ebb	IS(Mf)16	11:09	Middle	2											
TMCLKL	HY/2012/07	2018-09-07	Mid-Ebb	IS(Mf)16	11:09	Bottom	1	26.9	7.9	25.0	3.6	3.6	11.0	10.0	7.1	4.7		
TMCLKL	HY/2012/07	2018-09-07	Mid-Ebb	IS(Mf)16	11:09	Bottom	2	26.9	8.0	25.0	3.6	10.4	7.0					
TMCLKL	HY/2012/07	2018-09-07	Mid-Ebb	SR4a	11:17	Surface	1	28.3	8.1	20.0	5.5	5.5	3.2		3.8			
TMCLKL	HY/2012/07	2018-09-07	Mid-Ebb	SR4a	11:17	Surface	2	28.3	8.2	20.0	5.5		3.4		3.7			
TMCLKL	HY/2012/07	2018-09-07	Mid-Ebb	SR4a	11:17	Middle	1											
TMCLKL	HY/2012/07	2018-09-07	Mid-Ebb	SR4a	11:17	Middle	2											
TMCLKL	HY/2012/07	2018-09-07	Mid-Ebb	SR4a	11:17	Bottom	1	27.0	7.9	23.6	3.6	3.6	16.4	9.0	5.4	8.1		
TMCLKL	HY/2012/07	2018-09-07	Mid-Ebb	SR4a	11:17	Bottom	2	27.1	8.0	23.6	3.6	16.8	5.7					
TMCLKL	HY/2012/07	2018-09-07	Mid-Ebb	SR4(N)	11:23	Surface	1	27.8	8.0	21.4	4.3	4.3	8.6	9.0	7.9	8.1		
TMCLKL	HY/2012/07	2018-09-07	Mid-Ebb	SR4(N)	11:23	Surface	2	27.8	8.0	21.3	4.3		8.1		8.4			
TMCLKL	HY/2012/07	2018-09-07	Mid-Ebb	SR4(N)	11:23	Middle	1											
TMCLKL	HY/2012/07	2018-09-07	Mid-Ebb	SR4(N)	11:23	Middle	2											
TMCLKL	HY/2012/07	2018-09-07	Mid-Ebb	SR4(N)	11:23	Bottom	1	27.2	7.9	23.0	3.7	3.7	9.4	9.6	7.9	6.2		
TMCLKL	HY/2012/07	2018-09-07	Mid-Ebb	SR4(N)	11:23	Bottom	2	27.2	8.0	23.0	3.6	10.0	8.2					
TMCLKL	HY/2012/07	2018-09-07	Mid-Ebb	IS8	11:29	Surface	1	28.5	8.1	20.3	5.7	5.7	4.7		9.6		6.3	6.2
TMCLKL	HY/2012/07	2018-09-07	Mid-Ebb	IS8	11:29	Surface	2	28.5	8.2	20.4	5.7		4.5				5.9	
TMCLKL	HY/2012/07	2018-09-07	Mid-Ebb	IS8	11:29	Middle	1											
TMCLKL	HY/2012/07	2018-09-07	Mid-Ebb	IS8	11:29	Middle	2											
TMCLKL	HY/2012/07	2018-09-07	Mid-Ebb	IS8	11:29	Bottom	1	27.3	7.9	23.3	3.5	3.5	14.5	6.1	6.3	5.4		
TMCLKL	HY/2012/07	2018-09-07	Mid-Ebb	IS8	11:29	Bottom	2	27.3	8.0	23.3	3.5		14.5		6.2			
TMCLKL	HY/2012/07	2018-09-07	Mid-Ebb	IS(Mf)9	11:38	Surface	1	28.8	8.2	19.4	6.6	6.7	3.3	6.1	4.6	5.4		
TMCLKL	HY/2012/07	2018-09-07	Mid-Ebb	IS(Mf)9	11:38	Surface	2	28.9	8.3	19.4	6.7		4.0		4.7			
TMCLKL	HY/2012/07	2018-09-07	Mid-Ebb	IS(Mf)9	11:38	Middle	1											
TMCLKL	HY/2012/07	2018-09-07	Mid-Ebb	IS(Mf)9	11:38	Middle	2											
TMCLKL	HY/2012/07	2018-09-07	Mid-Ebb	IS(Mf)9	11:38	Bottom	1	27.8	8.0	21.2	4.7	4.7	8.1	6.1	6.0	5.4		
TMCLKL	HY/2012/07	2018-09-07	Mid-Ebb	IS(Mf)9	11:38	Bottom	2	27.9	8.1	21.2	4.7		9.0		6.3			

Project	Works	Date (yyyy-mm-dd)	Tide	Station	Start Time	Level	Replicate	Temperature (°C)	pH	Salinity (ppt)	DO (mg/L)	Average DO (mg/L)	Turbidity (NTU)	Depth-Averaged Turbidity	SS (mg/L)	Depth-Averaged SS
TMCLKL	HY/2012/07	2018-09-07	Mid-Flood	CS(Mf)5	18:14	Surface	1	27.1	8.1	24.4	5.1	4.8	2.3	5.2	6.4	6.9
TMCLKL	HY/2012/07	2018-09-07	Mid-Flood	CS(Mf)5	18:14	Surface	2	27.1	8.1	24.3	5.1		2.8		6.0	
TMCLKL	HY/2012/07	2018-09-07	Mid-Flood	CS(Mf)5	18:14	Middle	1	25.7	8.0	28.9	4.4		4.0		6.0	
TMCLKL	HY/2012/07	2018-09-07	Mid-Flood	CS(Mf)5	18:14	Middle	2	25.8	8.1	28.8	4.4	3.6	4.7	5.2	6.4	6.9
TMCLKL	HY/2012/07	2018-09-07	Mid-Flood	CS(Mf)5	18:14	Bottom	1	25.2	8.0	29.8	3.6		8.8		8.3	
TMCLKL	HY/2012/07	2018-09-07	Mid-Flood	CS(Mf)5	18:14	Bottom	2	25.2	8.1	29.8	3.6	5.1	8.4	5.9	8.0	5.8
TMCLKL	HY/2012/07	2018-09-07	Mid-Flood	CS(Mf)3(N)	16:47	Surface	1	29.3	7.7	12.0	5.2		5.8		5.0	
TMCLKL	HY/2012/07	2018-09-07	Mid-Flood	CS(Mf)3(N)	16:47	Surface	2	29.3	7.8	12.0	5.2		5.4		5.4	
TMCLKL	HY/2012/07	2018-09-07	Mid-Flood	CS(Mf)3(N)	16:47	Middle	1	29.2	7.7	13.0	5.0	4.8	5.9	5.9	5.7	5.8
TMCLKL	HY/2012/07	2018-09-07	Mid-Flood	CS(Mf)3(N)	16:47	Middle	2	29.2	7.8	12.9	5.0		5.5		5.8	
TMCLKL	HY/2012/07	2018-09-07	Mid-Flood	CS(Mf)3(N)	16:47	Bottom	1	28.4	7.7	16.0	4.8	4.8	6.5	7.0	6.3	8.4
TMCLKL	HY/2012/07	2018-09-07	Mid-Flood	CS(Mf)3(N)	16:47	Bottom	2	28.4	7.8	15.7	4.8		6.3		6.5	
TMCLKL	HY/2012/07	2018-09-07	Mid-Flood	IS(Mf)16	17:45	Surface	1	28.6	8.2	20.4	7.2	7.2	4.1	7.0	7.8	8.4
TMCLKL	HY/2012/07	2018-09-07	Mid-Flood	IS(Mf)16	17:45	Surface	2	28.6	8.3	20.3	7.2		4.6		8.3	
TMCLKL	HY/2012/07	2018-09-07	Mid-Flood	IS(Mf)16	17:45	Middle	1									
TMCLKL	HY/2012/07	2018-09-07	Mid-Flood	IS(Mf)16	17:45	Middle	2					5.1		7.0		8.4
TMCLKL	HY/2012/07	2018-09-07	Mid-Flood	IS(Mf)16	17:45	Bottom	1	27.6	8.0	22.4	5.1		9.4		8.8	
TMCLKL	HY/2012/07	2018-09-07	Mid-Flood	IS(Mf)16	17:45	Bottom	2	27.6	8.1	22.3	5.1	6.5	9.8	11.2	8.7	8.9
TMCLKL	HY/2012/07	2018-09-07	Mid-Flood	SR4a	17:34	Surface	1	29.0	8.1	18.0	6.5		6.9		6.1	
TMCLKL	HY/2012/07	2018-09-07	Mid-Flood	SR4a	17:34	Surface	2	29.0	8.2	18.0	6.5		7.2		5.9	
TMCLKL	HY/2012/07	2018-09-07	Mid-Flood	SR4a	17:34	Middle	1					6.5		11.2		8.9
TMCLKL	HY/2012/07	2018-09-07	Mid-Flood	SR4a	17:34	Middle	2									
TMCLKL	HY/2012/07	2018-09-07	Mid-Flood	SR4a	17:34	Bottom	1	27.4	8.0	23.0	4.3	4.3	15.7			
TMCLKL	HY/2012/07	2018-09-07	Mid-Flood	SR4a	17:34	Bottom	2	27.5	8.0	23.0	4.3	4.3	15.1			
TMCLKL	HY/2012/07	2018-09-07	Mid-Flood	SR4(N)	17:29	Surface	1	28.9	8.2	18.4	6.7	6.8	5.8	7.6	6.3	6.9
TMCLKL	HY/2012/07	2018-09-07	Mid-Flood	SR4(N)	17:29	Surface	2	28.9	8.3	18.4	6.8		5.3		6.5	
TMCLKL	HY/2012/07	2018-09-07	Mid-Flood	SR4(N)	17:29	Middle	1					6.8		7.6		6.9
TMCLKL	HY/2012/07	2018-09-07	Mid-Flood	SR4(N)	17:29	Middle	2									
TMCLKL	HY/2012/07	2018-09-07	Mid-Flood	SR4(N)	17:29	Bottom	1	28.9	8.2	19.5	7.3	7.3	9.3	9.3	7.4	8.2
TMCLKL	HY/2012/07	2018-09-07	Mid-Flood	SR4(N)	17:29	Bottom	2	28.9	8.3	19.4	7.3		9.8		7.2	
TMCLKL	HY/2012/07	2018-09-07	Mid-Flood	IS8	17:23	Surface	1					6.4		9.3		8.2
TMCLKL	HY/2012/07	2018-09-07	Mid-Flood	IS8	17:23	Surface	2									
TMCLKL	HY/2012/07	2018-09-07	Mid-Flood	IS8	17:23	Middle	1	28.6	8.1	19.3	6.4	6.4	9.4	9.3	8.3	8.2
TMCLKL	HY/2012/07	2018-09-07	Mid-Flood	IS8	17:23	Middle	2	28.6	8.2	19.2	6.4		9.1		8.1	
TMCLKL	HY/2012/07	2018-09-07	Mid-Flood	IS8	17:23	Bottom	1					7.2		11.2		8.9
TMCLKL	HY/2012/07	2018-09-07	Mid-Flood	IS8	17:23	Bottom	2									
TMCLKL	HY/2012/07	2018-09-07	Mid-Flood	IS(Mf)9	17:14	Surface	1					7.2		11.2		8.9
TMCLKL	HY/2012/07	2018-09-07	Mid-Flood	IS(Mf)9	17:14	Surface	2									
TMCLKL	HY/2012/07	2018-09-07	Mid-Flood	IS(Mf)9	17:14	Middle	1	28.5	8.2	20.7	7.2	7.2	11.1	11.2	8.5	8.9
TMCLKL	HY/2012/07	2018-09-07	Mid-Flood	IS(Mf)9	17:14	Middle	2	28.6	8.3	20.6	7.2		11.3		9.2	
TMCLKL	HY/2012/07	2018-09-07	Mid-Flood	IS(Mf)9	17:14	Bottom	1					7.2		11.2		8.9
TMCLKL	HY/2012/07	2018-09-07	Mid-Flood	IS(Mf)9	17:14	Bottom	2									

Note: Indicates Exceedance of Action Level  
Indicates Exceedance of Limit Level

Photo 1 - Mid-Ebb at IS(Mf)16 on 7 September 2018



Photo 2 - Mid-Ebb at SR4a on 7 September 2018



Photo 3 - Mid-Ebb at SR4(N) on 7 September 2018

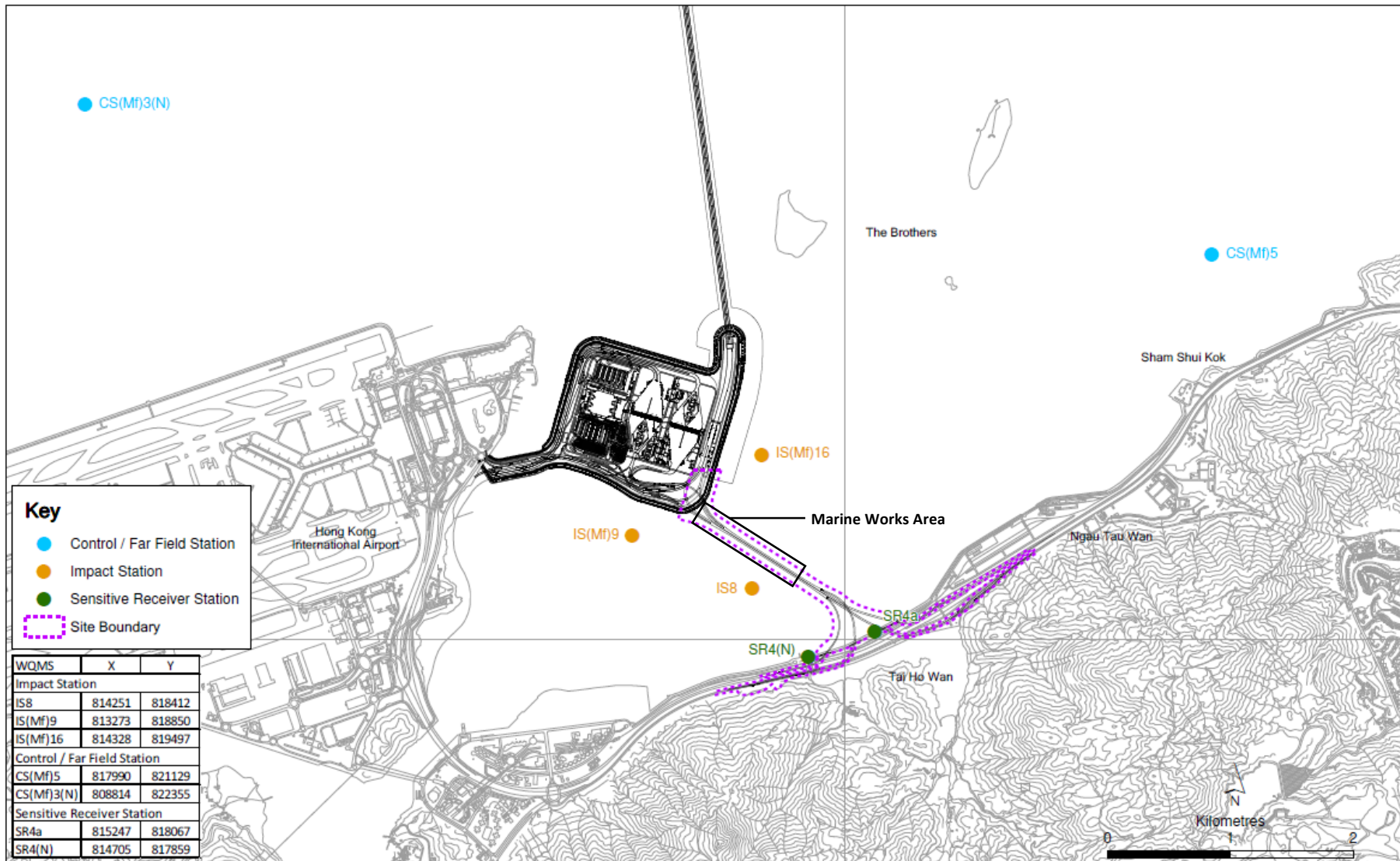


Photo 4 - Mid-Ebb at IS8 on 7 September 2018



Photo 5 - Mid-Flood at SR4a on 7 September 2018





**Key**

- Control / Far Field Station
- Impact Station
- Sensitive Receiver Station
- Site Boundary

WQMS	X	Y
<b>Impact Station</b>		
IS8	814251	818412
IS(Mf)9	813273	818850
IS(Mf)16	814328	819497
<b>Control / Far Field Station</b>		
CS(Mf)5	817990	821129
CS(Mf)3(N)	808814	822355
<b>Sensitive Receiver Station</b>		
SR4a	815247	818067
SR4(N)	814705	817859

Locations of Water Quality Monitoring Stations

Email  
message

Environmental  
Resources  
Management

**To** Ramboll Hong Kong Limited (ENPO)

**From** ERM- Hong Kong, Limited

**Ref/Project number** Contract No. HY/2012/07  
Tuen Mun – Chek Lap Kok Link – Southern  
Connection Viaduct Section

**Subject** Notification of Exceedance for Marine Water  
Quality Impact Monitoring

**Date** 12 September 2018

2507,  
25/F One Harbourfront,  
18 Tak Fung Street,  
Hung Hom, Hong Kong  
Telephone: (852) 2271 3113  
Facsimile: (852) 2723 5660  
E-mail: jasmine.ng@erm.com



**ERM**

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Dear Sir/ Madam,

Please find attached the Notification of Exceedance (NOE) of the following  
Log no.:

Action Level Exceedance

0215660\_10 September 2018\_ Bottom-depth DO\_E\_Station IS(Mf)16  
0215660\_10 September 2018\_ Bottom-depth DO\_E\_Station SR4a  
0215660\_10 September 2018\_ Surface and Middle-depth DO\_E\_SR4(N)  
0215660\_10 September 2018\_ Bottom-depth DO\_E\_Station SR4(N)  
0215660\_10 September 2018\_ Surface and Middle-depth DO\_E\_Station IS8  
0215660\_10 September 2018\_ Surface and Middle-depth DO\_E\_Station IS(Mf)9  
0215660\_10 September 2018\_ Surface and Middle-depth DO\_F\_Station IS(Mf)16  
0215660\_10 September 2018\_ Bottom-depth DO\_F\_Station IS(Mf)16  
0215660\_10 September 2018\_ Bottom-depth DO\_F\_Station SR4a  
0215660\_10 September 2018\_ Surface and Middle-depth DO\_F\_SR4(N)  
0215660\_10 September 2018\_ Bottom-depth DO\_F\_Station SR4(N)  
0215660\_10 September 2018\_ Surface and Middle-depth DO\_F\_Station IS8  
0215660\_10 September 2018\_ Bottom-depth DO\_F\_Station IS8  
0215660\_10 September 2018\_ Surface and Middle-depth DO\_F\_Station IS(Mf)9  
0215660\_10 September 2018\_ Bottom-depth DO\_F\_Station IS(Mf)9

Limit Level Exceedance

0215660\_10 September 2018\_ Surface and Middle-depth DO\_E\_Station IS(Mf)16  
0215660\_10 September 2018\_ Surface and Middle-depth DO\_E\_Station SR4a  
0215660\_10 September 2018\_ Surface and Middle-depth DO\_F\_Station SR4a

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Email  
message

A total of eighteen exceedances were recorded on 10 September 2018.

Regards,

A handwritten signature in blue ink, appearing to read "Jasmine".

Dr Jasmine Ng  
*Environmental Team Leader*



ERM-Hong Kong, Limited

CONTRACT NO. HY/2012/07

TUEN MUN – CHEK LAP KOK LINK –  
SOUTHERN CONNECTION VIADUCT SECTION

*Marine Water Quality Impact Monitoring*

**Notification of Exceedance**

<b>Log No.</b>	<p style="text-align: center;"><u>Action Level Exceedance</u></p> <p style="text-align: center;">0215660_10 September 2018_ Bottom-depth DO_E_Station IS(Mf)16          0215660_10 September 2018_ Bottom-depth DO_E_Station SR4a          0215660_10 September 2018_ Surface and Middle-depth DO_E_SR4(N)          0215660_10 September 2018_ Bottom-depth DO_E_Station SR4(N)          0215660_10 September 2018_ Surface and Middle-depth DO_E_Station IS8          0215660_10 September 2018_ Surface and Middle-depth DO_E_Station IS(Mf)9          0215660_10 September 2018_ Surface and Middle-depth DO_F_Station IS(Mf)16          0215660_10 September 2018_ Bottom-depth DO_F_Station IS(Mf)16          0215660_10 September 2018_ Bottom-depth DO_F_Station SR4a          0215660_10 September 2018_ Surface and Middle-depth DO_F_SR4(N)          0215660_10 September 2018_ Bottom-depth DO_F_Station SR4(N)          0215660_10 September 2018_ Surface and Middle-depth DO_F_Station IS8          0215660_10 September 2018_ Bottom-depth DO_F_Station IS8          0215660_10 September 2018_ Surface and Middle-depth DO_F_Station IS(Mf)9          0215660_10 September 2018_ Bottom-depth DO_F_Station IS(Mf)9</p> <p style="text-align: center;"><u>Limit Level Exceedance</u></p> <p style="text-align: center;">0215660_10 September 2018_ Surface and Middle-depth DO_E_Station IS(Mf)16          0215660_10 September 2018_ Surface and Middle-depth DO_E_Station SR4a          0215660_10 September 2018_ Surface and Middle-depth DO_F_Station SR4a</p> <p style="text-align: center;">[Total No. of Exceedance = 18]</p>	
<b>Date</b>	10 September 2018 (Measured) 11 September 2018 ( <i>In situ</i> results received by ERM) 20 September 2018 (Laboratory results received by ERM)	
<b>Monitoring Station</b>	CS(Mf)5, SR4a, SR4(N), IS8, IS(Mf)16, IS(Mf)9, CS(Mf)3(N)	
<b>Parameter(s) with Exceedance(s)</b>	Surface and Middle-depth DO, Bottom DO	
<b>Action Levels for DO</b>	Surface and Middle-depth DO	5.0 mg/L
	Bottom-depth DO	4.7 mg/L
<b>Limit Levels for DO</b>	Surface and Middle-depth DO	4.2 mg/L
	Bottom-depth DO	3.6 mg/L
<b>Measured Levels</b>	Refer to the attached data.	
<b>Works Undertaken (at the time of monitoring event)</b>	Demolition of marine platform was undertaken at Viaduct E under this Contract on 10 September 2018.	

<b>Possible Reason for Action or Limit Level Exceedance(s)</b>	<p>The exceedances of DO are unlikely to be due to the Project, in view of the following</p> <ul style="list-style-type: none"> <li>• All monitored parameters, except DO, at all monitoring stations were in compliance with the Action and Limit Levels during both mid-ebb and mid-flood tides on the same day.</li> <li>• Bottom-depth DO levels at IS(Mf)16, SR4a and SR4(N) were similar to the corresponding control station, CS(Mf)3(N), during mid-ebb tide, in which the recorded Bottom-depth DO levels at the corresponding control station were below Action Level.</li> <li>• Bottom-depth DO levels at IS(Mf)16, SR4a, SR4(N), IS8 and IS(Mf)9 were similar to the corresponding control stations, CS(Mf)5, during mid-flood tide, in which the recorded Bottom-depth DO levels at the corresponding control station were below Action Level.</li> <li>• Surface and Middle-depth DO levels at IS(Mf)16, SR4a, SR4(N), IS8 and IS(Mf)9 were comparable with the corresponding control stations, CS(Mf)3(N) and CS(Mf)5, during mid-ebb and mid-flood tides where the surface and middle-depth DO was below Action Level.</li> <li>• No particular observation was reported at all monitoring stations.</li> </ul>
<b>Actions Taken/ To Be Taken</b>	<p>No immediate action is considered necessary. The ET will monitor for future trends in exceedances.</p>
<b>Remarks</b>	<p>The monitoring results on 10 September 2018 and locations of water quality monitoring stations are attached. Site photo record on 10 September 2018 is attached.</p>

Project	Works	Date (yyyy-mm-dd)	Tide	Station	Start Time	Level	Replicate	Temperature (°C)	pH	Salinity (ppt)	DO (mg/L)	Average DO (mg/L)	Turbidity (NTU)	Depth-Averaged Turbidity	SS (mg/L)	Depth-Averaged SS
TMCLKL	HY/2012/07	2018-09-10	Mid-Ebb	CS(Mf)5	12:51	Surface	1	26.2	8.1	27.0	3.8	3.7	7.2	7.4	7.8	8.3
TMCLKL	HY/2012/07	2018-09-10	Mid-Ebb	CS(Mf)5	12:51	Surface	2	26.2	8.0	27.0	3.8		7.4		8.3	
TMCLKL	HY/2012/07	2018-09-10	Mid-Ebb	CS(Mf)5	12:51	Middle	1	25.8	8.1	28.1	3.6		7.4		8.0	
TMCLKL	HY/2012/07	2018-09-10	Mid-Ebb	CS(Mf)5	12:51	Middle	2	25.7	8.0	28.2	3.6		7.5		8.2	
TMCLKL	HY/2012/07	2018-09-10	Mid-Ebb	CS(Mf)5	12:51	Bottom	1	25.9	8.1	28.0	3.7		7.3		8.7	
TMCLKL	HY/2012/07	2018-09-10	Mid-Ebb	CS(Mf)5	12:51	Bottom	2	25.8	8.0	28.0	3.7	3.7	7.4	8.8		
TMCLKL	HY/2012/07	2018-09-10	Mid-Ebb	CS(Mf)3(N)	12:16	Surface	1	27.0	7.9	23.3	4.3	4.2	6.2	9.6	8.0	9.1
TMCLKL	HY/2012/07	2018-09-10	Mid-Ebb	CS(Mf)3(N)	12:16	Surface	2	27.0	8.0	23.0	4.3		6.7		8.1	
TMCLKL	HY/2012/07	2018-09-10	Mid-Ebb	CS(Mf)3(N)	12:16	Middle	1	26.8	7.9	24.5	4.0		8.3		9.3	
TMCLKL	HY/2012/07	2018-09-10	Mid-Ebb	CS(Mf)3(N)	12:16	Middle	2	26.8	8.0	24.3	4.1		8.8		8.9	
TMCLKL	HY/2012/07	2018-09-10	Mid-Ebb	CS(Mf)3(N)	12:16	Bottom	1	26.2	7.9	25.8	3.9		3.9		14.0	
TMCLKL	HY/2012/07	2018-09-10	Mid-Ebb	CS(Mf)3(N)	12:16	Bottom	2	26.2	8.0	25.6	3.9	3.9	13.8	10.2		
TMCLKL	HY/2012/07	2018-09-10	Mid-Ebb	IS(Mf)16	12:29	Surface	1	26.4	8.1	26.5	4.1	4.1	4.8	4.4	7.0	7.4
TMCLKL	HY/2012/07	2018-09-10	Mid-Ebb	IS(Mf)16	12:29	Surface	2	26.4	8.0	26.6	4.1		4.9		6.8	
TMCLKL	HY/2012/07	2018-09-10	Mid-Ebb	IS(Mf)16	12:29	Middle	1									
TMCLKL	HY/2012/07	2018-09-10	Mid-Ebb	IS(Mf)16	12:29	Middle	2									
TMCLKL	HY/2012/07	2018-09-10	Mid-Ebb	IS(Mf)16	12:29	Bottom	1	25.9	8.1	27.8	3.9		4.0		3.8	
TMCLKL	HY/2012/07	2018-09-10	Mid-Ebb	IS(Mf)16	12:29	Bottom	2	25.9	8.0	27.8	4.0	4.0	3.9	8.0		
TMCLKL	HY/2012/07	2018-09-10	Mid-Ebb	SR4a	12:20	Surface	1	26.6	8.0	25.4	3.9	3.9	9.6	10.5	11.0	13.2
TMCLKL	HY/2012/07	2018-09-10	Mid-Ebb	SR4a	12:20	Surface	2	26.6	8.0	25.5	3.9		9.7		11.3	
TMCLKL	HY/2012/07	2018-09-10	Mid-Ebb	SR4a	12:20	Middle	1									
TMCLKL	HY/2012/07	2018-09-10	Mid-Ebb	SR4a	12:20	Middle	2									
TMCLKL	HY/2012/07	2018-09-10	Mid-Ebb	SR4a	12:20	Bottom	1	26.6	8.0	25.7	3.9		4.0		11.3	
TMCLKL	HY/2012/07	2018-09-10	Mid-Ebb	SR4a	12:20	Bottom	2	26.5	8.0	25.7	4.0	4.0	11.4	15.2		
TMCLKL	HY/2012/07	2018-09-10	Mid-Ebb	SR4(N)	12:17	Surface	1	26.9	8.1	24.4	4.4	4.4	7.6	7.7	9.0	9.8
TMCLKL	HY/2012/07	2018-09-10	Mid-Ebb	SR4(N)	12:17	Surface	2	26.9	8.0	24.5	4.4		7.7		9.4	
TMCLKL	HY/2012/07	2018-09-10	Mid-Ebb	SR4(N)	12:17	Middle	1									
TMCLKL	HY/2012/07	2018-09-10	Mid-Ebb	SR4(N)	12:17	Middle	2									
TMCLKL	HY/2012/07	2018-09-10	Mid-Ebb	SR4(N)	12:17	Bottom	1	26.9	8.1	24.5	4.4		4.4		7.7	
TMCLKL	HY/2012/07	2018-09-10	Mid-Ebb	SR4(N)	12:17	Bottom	2	26.9	8.0	24.5	4.4	4.4	7.9	10.7		
TMCLKL	HY/2012/07	2018-09-10	Mid-Ebb	IS8	12:12	Surface	1	27.2	8.1	24.9	4.6	4.6	4.4	4.4	7.6	8.3
TMCLKL	HY/2012/07	2018-09-10	Mid-Ebb	IS8	12:12	Surface	2	27.2	8.0	24.9	4.6		4.5		7.2	
TMCLKL	HY/2012/07	2018-09-10	Mid-Ebb	IS8	12:12	Middle	1									
TMCLKL	HY/2012/07	2018-09-10	Mid-Ebb	IS8	12:12	Middle	2									
TMCLKL	HY/2012/07	2018-09-10	Mid-Ebb	IS8	12:12	Bottom	1	27.2	8.1	24.8	4.7		4.7		4.2	
TMCLKL	HY/2012/07	2018-09-10	Mid-Ebb	IS8	12:12	Bottom	2	27.2	8.0	24.9	4.7	4.7	4.3	9.1		
TMCLKL	HY/2012/07	2018-09-10	Mid-Ebb	IS(Mf)9	12:05	Surface	1	27.2	8.1	24.8	4.7	4.7	4.1	4.2	8.9	10.3
TMCLKL	HY/2012/07	2018-09-10	Mid-Ebb	IS(Mf)9	12:05	Surface	2	27.2	8.0	24.9	4.7		4.2		9.5	
TMCLKL	HY/2012/07	2018-09-10	Mid-Ebb	IS(Mf)9	12:05	Middle	1									
TMCLKL	HY/2012/07	2018-09-10	Mid-Ebb	IS(Mf)9	12:05	Middle	2									
TMCLKL	HY/2012/07	2018-09-10	Mid-Ebb	IS(Mf)9	12:05	Bottom	1	27.3	8.1	24.8	4.7		4.7		4.2	
TMCLKL	HY/2012/07	2018-09-10	Mid-Ebb	IS(Mf)9	12:05	Bottom	2	27.3	8.0	24.8	4.7	4.7	4.4	11.2		

Project	Works	Date (yyyy-mm-dd)	Tide	Station	Start Time	Level	Replicate	Temperature (°C)	pH	Salinity (ppt)	DO (mg/L)	Average DO (mg/L)	Turbidity (NTU)	Depth-Averaged Turbidity	SS (mg/L)	Depth-Averaged SS
TMCLKL	HY/2012/07	2018-09-10	Mid-Flood	CS(Mf)5	6:02	Surface	1	26.4	8.1	25.7	4.2	4.0	4.7	6.9	8.3	9.1
TMCLKL	HY/2012/07	2018-09-10	Mid-Flood	CS(Mf)5	6:02	Surface	2	26.4	8.0	25.8	4.2		4.8		8.0	
TMCLKL	HY/2012/07	2018-09-10	Mid-Flood	CS(Mf)5	6:02	Middle	1	25.7	8.1	27.5	3.8		8.4		9.1	
TMCLKL	HY/2012/07	2018-09-10	Mid-Flood	CS(Mf)5	6:02	Middle	2	25.6	8.0	27.7	3.7		8.5		9.5	
TMCLKL	HY/2012/07	2018-09-10	Mid-Flood	CS(Mf)5	6:02	Bottom	1	26.0	8.1	28.8	3.7	3.7	7.3		10.1	
TMCLKL	HY/2012/07	2018-09-10	Mid-Flood	CS(Mf)5	6:02	Bottom	2	26.0	8.0	29.0	3.7		7.4		9.6	
TMCLKL	HY/2012/07	2018-09-10	Mid-Flood	CS(Mf)3(N)	7:20	Surface	1	26.9	7.9	22.2	4.5	4.5	15.2	17.1	30.9	27.9
TMCLKL	HY/2012/07	2018-09-10	Mid-Flood	CS(Mf)3(N)	7:20	Surface	2	26.9	7.9	22.4	4.5		15.8		30.7	
TMCLKL	HY/2012/07	2018-09-10	Mid-Flood	CS(Mf)3(N)	7:20	Middle	1	26.9	7.9	22.3	4.4		16.6		25.4	
TMCLKL	HY/2012/07	2018-09-10	Mid-Flood	CS(Mf)3(N)	7:20	Middle	2	26.9	7.9	22.5	4.4		16.0		25.8	
TMCLKL	HY/2012/07	2018-09-10	Mid-Flood	CS(Mf)3(N)	7:20	Bottom	1	26.9	7.9	22.3	4.4	4.4	19.5		27.1	
TMCLKL	HY/2012/07	2018-09-10	Mid-Flood	CS(Mf)3(N)	7:20	Bottom	2	26.9	7.9	22.5	4.4		19.4		27.6	
TMCLKL	HY/2012/07	2018-09-10	Mid-Flood	IS(Mf)16	6:27	Surface	1	26.6	8.1	24.8	4.3	4.3	4.5	5.5	7.7	8.3
TMCLKL	HY/2012/07	2018-09-10	Mid-Flood	IS(Mf)16	6:27	Surface	2	26.6	8.0	24.8	4.3		4.6		7.2	
TMCLKL	HY/2012/07	2018-09-10	Mid-Flood	IS(Mf)16	6:27	Middle	1									
TMCLKL	HY/2012/07	2018-09-10	Mid-Flood	IS(Mf)16	6:27	Middle	2									
TMCLKL	HY/2012/07	2018-09-10	Mid-Flood	IS(Mf)16	6:27	Bottom	1	26.5	8.1	25.5	4.2	4.2	6.4		9.1	
TMCLKL	HY/2012/07	2018-09-10	Mid-Flood	IS(Mf)16	6:27	Bottom	2	26.5	8.0	25.6	4.2		6.5		9.3	
TMCLKL	HY/2012/07	2018-09-10	Mid-Flood	SR4a	6:36	Surface	1	26.6	8.0	24.9	4.1	4.1	7.1	7.4	9.8	10.1
TMCLKL	HY/2012/07	2018-09-10	Mid-Flood	SR4a	6:36	Surface	2	26.6	8.0	24.9	4.1		7.2		10.0	
TMCLKL	HY/2012/07	2018-09-10	Mid-Flood	SR4a	6:36	Middle	1									
TMCLKL	HY/2012/07	2018-09-10	Mid-Flood	SR4a	6:36	Middle	2									
TMCLKL	HY/2012/07	2018-09-10	Mid-Flood	SR4a	6:36	Bottom	1	26.6	8.0	24.9	4.2	4.2	7.6		10.2	
TMCLKL	HY/2012/07	2018-09-10	Mid-Flood	SR4a	6:36	Bottom	2	26.6	8.0	24.9	4.1		7.8		10.5	
TMCLKL	HY/2012/07	2018-09-10	Mid-Flood	SR4(N)	6:43	Surface	1	26.6	8.1	24.8	4.2	4.2	6.2	6.3	9.2	9.1
TMCLKL	HY/2012/07	2018-09-10	Mid-Flood	SR4(N)	6:43	Surface	2	26.6	8.0	24.9	4.2		6.3		9.1	
TMCLKL	HY/2012/07	2018-09-10	Mid-Flood	SR4(N)	6:43	Middle	1									
TMCLKL	HY/2012/07	2018-09-10	Mid-Flood	SR4(N)	6:43	Middle	2									
TMCLKL	HY/2012/07	2018-09-10	Mid-Flood	SR4(N)	6:43	Bottom	1	26.6	8.1	24.8	4.3	4.3	6.2		8.9	
TMCLKL	HY/2012/07	2018-09-10	Mid-Flood	SR4(N)	6:43	Bottom	2	26.6	8.0	24.8	4.2		6.3		9.3	
TMCLKL	HY/2012/07	2018-09-10	Mid-Flood	IS8	6:49	Surface	1	26.6	8.1	24.9	4.2	4.2	6.2	6.7	8.1	9.9
TMCLKL	HY/2012/07	2018-09-10	Mid-Flood	IS8	6:49	Surface	2	26.6	8.0	25.0	4.2		6.3		8.5	
TMCLKL	HY/2012/07	2018-09-10	Mid-Flood	IS8	6:49	Middle	1									
TMCLKL	HY/2012/07	2018-09-10	Mid-Flood	IS8	6:49	Middle	2									
TMCLKL	HY/2012/07	2018-09-10	Mid-Flood	IS8	6:49	Bottom	1	26.6	8.1	25.2	4.2	4.2	7.1		11.3	
TMCLKL	HY/2012/07	2018-09-10	Mid-Flood	IS8	6:49	Bottom	2	26.5	8.0	25.3	4.2		7.2		11.7	
TMCLKL	HY/2012/07	2018-09-10	Mid-Flood	IS(Mf)9	6:57	Surface	1	26.5	8.1	25.2	4.2	4.2	5.1	5.1	7.3	9.1
TMCLKL	HY/2012/07	2018-09-10	Mid-Flood	IS(Mf)9	6:57	Surface	2	26.5	8.0	25.3	4.2		5.2		7.2	
TMCLKL	HY/2012/07	2018-09-10	Mid-Flood	IS(Mf)9	6:57	Middle	1									
TMCLKL	HY/2012/07	2018-09-10	Mid-Flood	IS(Mf)9	6:57	Middle	2									
TMCLKL	HY/2012/07	2018-09-10	Mid-Flood	IS(Mf)9	6:57	Bottom	1	26.6	8.1	25.1	4.2	4.2	5.0		10.8	
TMCLKL	HY/2012/07	2018-09-10	Mid-Flood	IS(Mf)9	6:57	Bottom	2	26.5	8.0	25.2	4.2		5.1		11.2	

Note: Indicates Exceedance of Action Level  
Indicates Exceedance of Limit Level

Photo 1 - Mid-Ebb at IS(Mf)16 on 10 September 2018



Photo 2 - Mid-Ebb at SR4a on 10 September 2018



Photo 3 - Mid-Ebb at SR4(N) on 10 September 2018



Photo 4 - Mid-Ebb at IS8 on 10 September 2018



Photo 5 - Mid-Ebb at IS(Mf)9 on 10 September 2018



Photo 6 - Mid-Flood at IS(Mf)16 on 10 September 2018



Photo 7 - Mid-Flood at SR4a on 10 September 2018



Photo 8 - Mid-Flood at SR4(N) on 10 September 2018



Photo 9 - Mid-Flood at IS8 on 10 September 2018

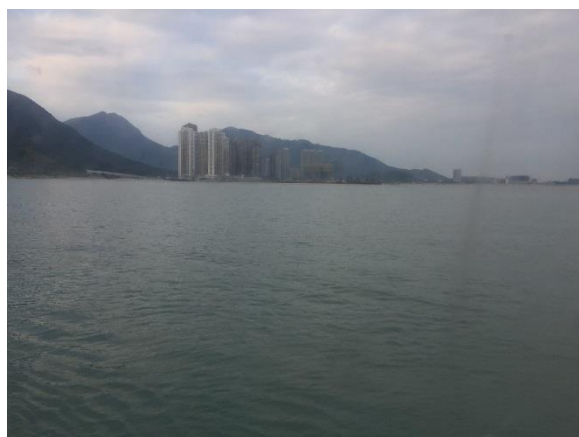
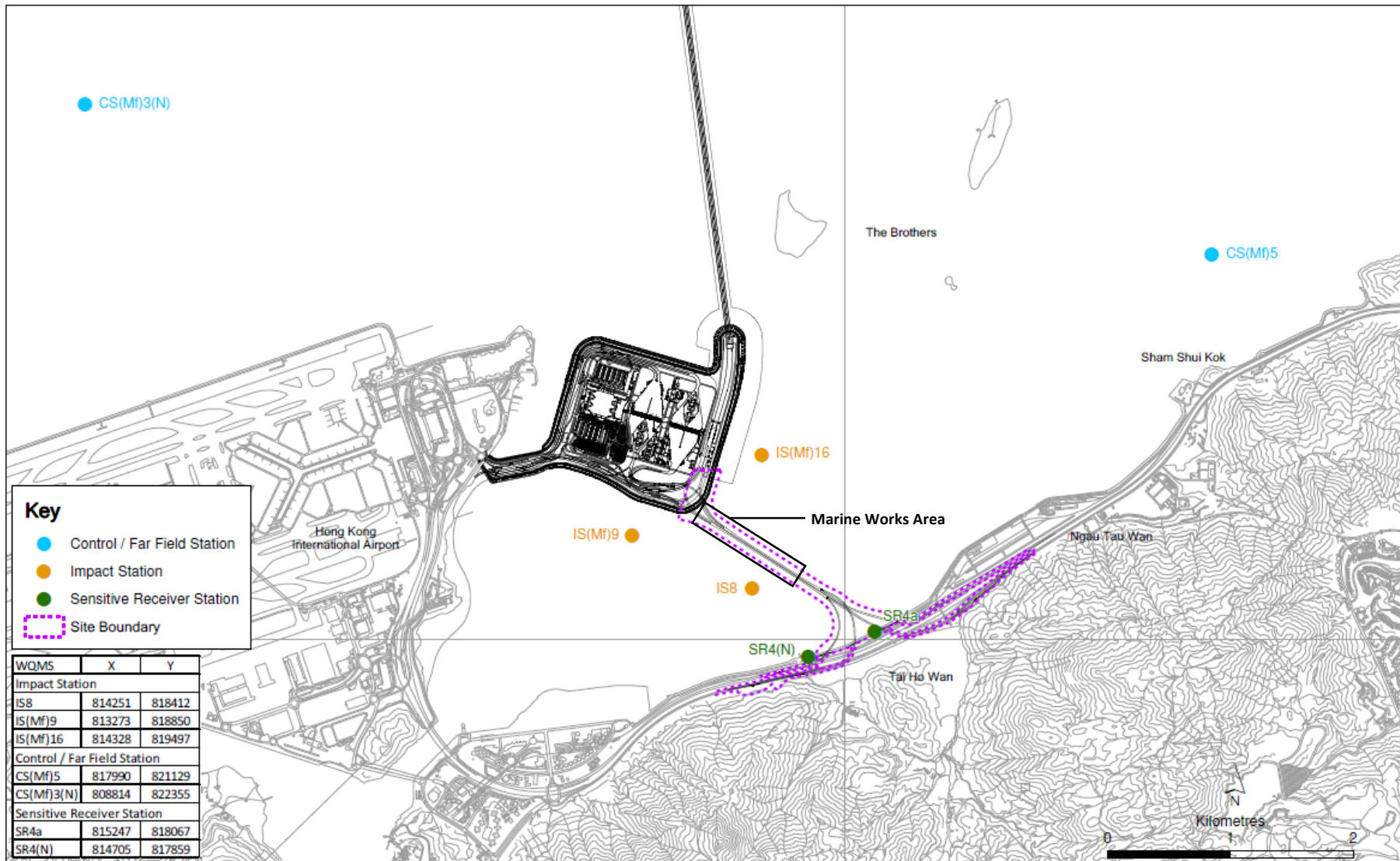




Photo 10 - Mid-Flood at IS(Mf)9 on 10 September 2018





**Key**

- Control / Far Field Station
- Impact Station
- Sensitive Receiver Station
- Site Boundary

WQMS	X	Y
<b>Impact Station</b>		
IS8	814251	818412
IS(Mf)9	813273	818850
IS(Mf)16	814328	819497
<b>Control / Far Field Station</b>		
CS(Mf)5	817990	821129
CS(Mf)3(N)	808814	822355
<b>Sensitive Receiver Station</b>		
SR4a	815247	818067
SR4(N)	814705	817859

Locations of Water Quality Monitoring Stations

Email  
message

Environmental  
Resources  
Management

**To** Ramboll Hong Kong Limited (ENPO)

**From** ERM- Hong Kong, Limited

**Ref/Project number** Contract No. HY/2012/07  
Tuen Mun – Chek Lap Kok Link – Southern  
Connection Viaduct Section

**Subject** Notification of Exceedance for Marine Water  
Quality Impact Monitoring

**Date** 14 September 2018

2507,  
25/F One Harbourfront,  
18 Tak Fung Street,  
Hung Hom, Hong Kong  
Telephone: (852) 2271 3113  
Facsimile: (852) 2723 5660  
E-mail: jasmine.ng@erm.com



**ERM**

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Dear Sir/ Madam,

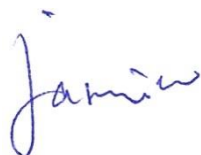
Please find attached the Notification of Exceedance (NOE) of the following  
Log no.:

Action Level Exceedance

0215660\_12 September 2018\_ Surface and Middle-depth DO\_F\_Station IS(Mf)16  
0215660\_12 September 2018\_ Bottom-depth DO\_F\_Station IS(Mf)16  
0215660\_12 September 2018\_ Surface and Middle-depth DO\_F\_Station SR4a  
0215660\_12 September 2018\_ Surface and Middle-depth DO\_F\_SR4(N)  
0215660\_12 September 2018\_ Bottom-depth DO\_F\_Station SR4(N)  
0215660\_12 September 2018\_ Surface and Middle-depth DO\_F\_Station IS8  
0215660\_12 September 2018\_ Bottom-depth DO\_F\_Station IS8  
0215660\_12 September 2018\_ Surface and Middle-depth DO\_F\_Station IS(Mf)9  
0215660\_12 September 2018\_ Bottom-depth DO\_F\_Station IS(Mf)9

A total of nine exceedances were recorded on 12 September 2018.

Regards,



Dr Jasmine Ng  
Environmental Team Leader

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ERM-Hong Kong, Limited

CONTRACT NO. HY/2012/07

TUEN MUN – CHEK LAP KOK LINK –  
SOUTHERN CONNECTION VIADUCT SECTION

*Marine Water Quality Impact Monitoring*

**Notification of Exceedance**

Log No.	<p style="text-align: center;"><u>Action Level Exceedance</u></p> <p style="text-align: center;">0215660_12 September 2018_ Surface and Middle-depth DO_F_Station IS(Mf)16            0215660_12 September 2018_ Bottom-depth DO_F_Station IS(Mf)16            0215660_12 September 2018_ Surface and Middle-depth DO_F_Station SR4a            0215660_12 September 2018_ Surface and Middle-depth DO_F_SR4(N)            0215660_12 September 2018_ Bottom-depth DO_F_Station SR4(N)            0215660_12 September 2018_ Surface and Middle-depth DO_F_Station IS8            0215660_12 September 2018_ Bottom-depth DO_F_Station IS8            0215660_12 September 2018_ Surface and Middle-depth DO_F_Station IS(Mf)9            0215660_12 September 2018_ Bottom-depth DO_F_Station IS(Mf)9</p> <p style="text-align: center;">[Total No. of Exceedance = 9]</p>	
Date	12 September 2018 (Measured) 13 September 2018 ( <i>In situ</i> results received by ERM) 20 September 2018 (Laboratory results received by ERM)	
Monitoring Station	CS(Mf)5, SR4a, SR4(N), IS8, IS(Mf)16, IS(Mf)9, CS(Mf)3(N)	
Parameter(s) with Exceedance(s)	Surface and Middle-depth DO, Bottom DO	
Action Levels for DO	Surface and Middle-depth DO	5.0 mg/L
	Bottom-depth DO	4.7 mg/L
Limit Levels for DO	Surface and Middle-depth DO	4.2 mg/L
	Bottom-depth DO	3.6 mg/L
Measured Levels	Refer to the attached data.	
Works Undertaken (at the time of monitoring event)	No marine works was undertaken under this Contract on 12 September 2018.	
Possible Reason for Action or Limit Level Exceedance(s)	<p>The exceedances of DO are unlikely to be due to the Project, in view of the following</p> <ul style="list-style-type: none"> <li>• No marine works was carried out on 12 September 2018.</li> <li>• All monitored parameters, except DO, at all monitoring stations were in compliance with the Action and Limit Levels during mid-flood tides on the same day.</li> <li>• Bottom-depth DO levels at IS(Mf)16, SR4(N), IS8 and IS(Mf)9 were similar to the corresponding control stations, CS(Mf)5, during the same tide, in which the recorded Bottom-depth DO level at the corresponding control station was below Action Level.</li> <li>• Surface and Middle-depth DO level at IS(Mf)16, SR4a, SR4(N), IS8 and IS(Mf)9 were similar to the corresponding control stations, CS(Mf)5, during the same tide, in which the recorded Surface and Middle-depth DO level at the corresponding control station was below Action Level.</li> <li>• No particular observation was reported at IS(Mf)16, SR4a, SR4(N), IS8 and IS(Mf)9.</li> </ul>	
Actions Taken/ To Be Taken	No immediate action is considered necessary. The ET will monitor for future trends in exceedances.	
Remarks	The monitoring results on 12 September 2018 and locations of water quality monitoring stations are attached. Site photo record on 12 September 2018 is attached.	

Project	Works	Date (yyyy-mm-dd)	Tide	Station	Start Time	Level	Replicate	Temperature (°C)	pH	Salinity (ppt)	DO (mg/L)	Average DO (mg/L)	Turbidity (NTU)	Depth-Averaged Turbidity	SS (mg/L)	Depth-Averaged SS
TMCLKL	HY/2012/07	2018-09-12	Mid-Flood	CS(Mf)5	7:46	Surface	1	26.7	8.0	24.7	4.1	4.1	13.2	12.3	7.9	6.3
TMCLKL	HY/2012/07	2018-09-12	Mid-Flood	CS(Mf)5	7:46	Surface	2	26.8	8.1	24.6	4.3		13.1		6.5	
TMCLKL	HY/2012/07	2018-09-12	Mid-Flood	CS(Mf)5	7:46	Middle	1	26.3	8.0	27.1	3.9		11.5		6.0	
TMCLKL	HY/2012/07	2018-09-12	Mid-Flood	CS(Mf)5	7:46	Middle	2	26.3	8.1	27.0	3.9	3.9	11.4	12.3	5.2	6.3
TMCLKL	HY/2012/07	2018-09-12	Mid-Flood	CS(Mf)5	7:46	Bottom	1	26.4	8.0	27.2	3.9		12.3		5.9	
TMCLKL	HY/2012/07	2018-09-12	Mid-Flood	CS(Mf)5	7:46	Bottom	2	26.4	8.1	27.2	3.9	4.5	12.2	16.9	6.3	20.2
TMCLKL	HY/2012/07	2018-09-12	Mid-Flood	CS(Mf)3(N)	8:39	Surface	1	27.2	7.9	21.0	4.5		13.8		20.9	
TMCLKL	HY/2012/07	2018-09-12	Mid-Flood	CS(Mf)3(N)	8:39	Surface	2	27.2	7.8	21.2	4.5		13.5		19.2	
TMCLKL	HY/2012/07	2018-09-12	Mid-Flood	CS(Mf)3(N)	8:39	Middle	1	27.2	7.9	21.0	4.5	4.5	16.5	16.9	19.1	20.2
TMCLKL	HY/2012/07	2018-09-12	Mid-Flood	CS(Mf)3(N)	8:39	Middle	2	27.2	7.8	21.2	4.5		16.5		22.7	
TMCLKL	HY/2012/07	2018-09-12	Mid-Flood	CS(Mf)3(N)	8:39	Bottom	1	27.2	7.9	21.0	4.5	4.5	20.4	16.9	19.7	20.2
TMCLKL	HY/2012/07	2018-09-12	Mid-Flood	CS(Mf)3(N)	8:39	Bottom	2	27.2	7.8	21.2	4.4		20.6		19.5	
TMCLKL	HY/2012/07	2018-09-12	Mid-Flood	IS(Mf)16	8:10	Surface	1	27.0	8.0	24.0	4.2	4.2	12.6	12.0	7.4	7.0
TMCLKL	HY/2012/07	2018-09-12	Mid-Flood	IS(Mf)16	8:10	Surface	2	27.1	8.0	23.9	4.2		12.4		7.2	
TMCLKL	HY/2012/07	2018-09-12	Mid-Flood	IS(Mf)16	8:10	Middle	1									
TMCLKL	HY/2012/07	2018-09-12	Mid-Flood	IS(Mf)16	8:10	Middle	2					4.2		12.0		7.0
TMCLKL	HY/2012/07	2018-09-12	Mid-Flood	IS(Mf)16	8:10	Bottom	1	27.0	8.0	24.3	4.2		11.6		6.9	
TMCLKL	HY/2012/07	2018-09-12	Mid-Flood	IS(Mf)16	8:10	Bottom	2	27.0	8.0	24.2	4.2	4.2	11.5	12.0	6.4	7.0
TMCLKL	HY/2012/07	2018-09-12	Mid-Flood	SR4a	8:19	Surface	1	27.1	8.0	23.8	4.5		10.1		9.3	
TMCLKL	HY/2012/07	2018-09-12	Mid-Flood	SR4a	8:19	Surface	2	27.1	8.0	23.7	4.5	4.5	10.0	10.3	11.8	10.3
TMCLKL	HY/2012/07	2018-09-12	Mid-Flood	SR4a	8:19	Middle	1									
TMCLKL	HY/2012/07	2018-09-12	Mid-Flood	SR4a	8:19	Middle	2									
TMCLKL	HY/2012/07	2018-09-12	Mid-Flood	SR4a	8:19	Bottom	1	26.9	8.0	23.9	4.7	4.7	10.5	10.3	9.9	10.3
TMCLKL	HY/2012/07	2018-09-12	Mid-Flood	SR4a	8:19	Bottom	2	27.0	8.0	23.8	4.6		10.4		10.0	
TMCLKL	HY/2012/07	2018-09-12	Mid-Flood	SR4(N)	8:24	Surface	1	27.1	8.0	23.8	4.3	4.4	12.2	12.1	7.4	8.2
TMCLKL	HY/2012/07	2018-09-12	Mid-Flood	SR4(N)	8:24	Surface	2	27.1	8.0	23.8	4.4		12.1		8.6	
TMCLKL	HY/2012/07	2018-09-12	Mid-Flood	SR4(N)	8:24	Middle	1									
TMCLKL	HY/2012/07	2018-09-12	Mid-Flood	SR4(N)	8:24	Middle	2					4.4		12.1		8.2
TMCLKL	HY/2012/07	2018-09-12	Mid-Flood	SR4(N)	8:24	Bottom	1	27.1	8.0	23.9	4.4		12.0		9.0	
TMCLKL	HY/2012/07	2018-09-12	Mid-Flood	SR4(N)	8:24	Bottom	2	27.1	8.0	23.8	4.4	4.4	11.9	11.2	7.7	7.5
TMCLKL	HY/2012/07	2018-09-12	Mid-Flood	IS8	8:30	Surface	1	27.1	8.0	23.8	4.3		11.2		7.8	
TMCLKL	HY/2012/07	2018-09-12	Mid-Flood	IS8	8:30	Surface	2	27.1	8.0	23.7	4.3	4.3	11.1	11.2	7.9	7.5
TMCLKL	HY/2012/07	2018-09-12	Mid-Flood	IS8	8:30	Middle	1									
TMCLKL	HY/2012/07	2018-09-12	Mid-Flood	IS8	8:30	Middle	2					4.3		11.2		7.5
TMCLKL	HY/2012/07	2018-09-12	Mid-Flood	IS8	8:30	Bottom	1	27.1	8.0	23.8	4.3		11.2		6.1	
TMCLKL	HY/2012/07	2018-09-12	Mid-Flood	IS8	8:30	Bottom	2	27.1	8.0	23.7	4.3	4.3	11.1	11.2	8.0	7.5
TMCLKL	HY/2012/07	2018-09-12	Mid-Flood	IS(Mf)9	8:38	Surface	1	27.0	8.0	24.5	4.2		10.2		8.0	
TMCLKL	HY/2012/07	2018-09-12	Mid-Flood	IS(Mf)9	8:38	Surface	2	27.0	8.0	24.5	4.2	4.2	10.1	9.8	9.5	7.7
TMCLKL	HY/2012/07	2018-09-12	Mid-Flood	IS(Mf)9	8:38	Middle	1									
TMCLKL	HY/2012/07	2018-09-12	Mid-Flood	IS(Mf)9	8:38	Middle	2									
TMCLKL	HY/2012/07	2018-09-12	Mid-Flood	IS(Mf)9	8:38	Bottom	1	27.0	8.0	24.6	4.3	4.3	9.4	9.8	6.3	7.7
TMCLKL	HY/2012/07	2018-09-12	Mid-Flood	IS(Mf)9	8:38	Bottom	2	27.0	8.0	24.6	4.3		9.3		7.0	

Note: Indicates Exceedance of Action Level  
Indicates Exceedance of Limit Level

Photo 1 - Mid-Flood at IS(Mf)16 on 12 September 2018



Photo 2 - Mid- Flood at SR4a on 12 September 2018



Photo 3 - Mid- Flood at SR4(N) on 12 September 2018

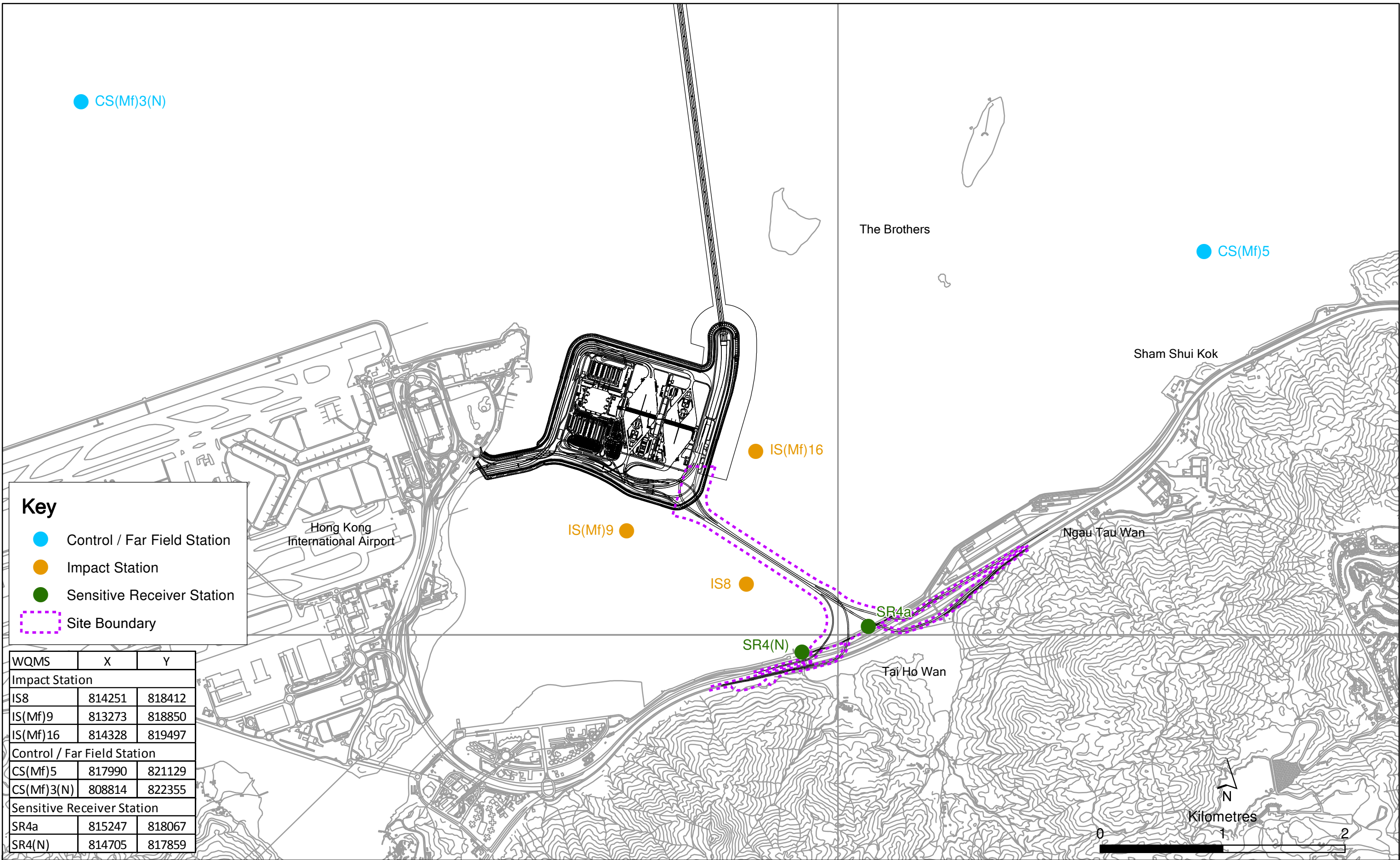


Photo 4 - Mid- Flood at IS8 on 12 September 2018



Photo 5 - Mid- Flood at IS(Mf)9 on 12 September 2018





**Key**

- Control / Far Field Station
- Impact Station
- Sensitive Receiver Station
- Site Boundary

WQMS	X	Y
<b>Impact Station</b>		
IS8	814251	818412
IS(Mf)9	813273	818850
IS(Mf)16	814328	819497
<b>Control / Far Field Station</b>		
CS(Mf)5	817990	821129
CS(Mf)3(N)	808814	822355
<b>Sensitive Receiver Station</b>		
SR4a	815247	818067
SR4(N)	814705	817859

Locations of Water Quality Monitoring Stations

File: T:\GIS\CONTRACT\0215660\Mxd\0215660\_WQMS.mxd  
Date: 20/3/2018



Email  
message

Environmental  
Resources  
Management

**To** Ramboll Hong Kong Limited (ENPO)

**From** ERM- Hong Kong, Limited

**Ref/Project number** Contract No. HY/2012/07  
Tuen Mun – Chek Lap Kok Link – Southern  
Connection Viaduct Section

**Subject** Notification of Exceedance for Marine Water  
Quality Impact Monitoring

**Date** 17 September 2018

2507,  
25/F One Harbourfront,  
18 Tak Fung Street,  
Hung Hom, Hong Kong  
Telephone: (852) 2271 3113  
Facsimile: (852) 2723 5660  
E-mail: jasmine.ng@erm.com



**ERM**

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Dear Sir/ Madam,

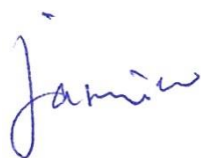
Please find attached the Notification of Exceedance (NOE) of the following  
Log no.:

Action Level Exceedance

0215660\_14 September 2018\_ Surface and Middle-depth DO\_E\_Station IS(Mf)16  
0215660\_14 September 2018\_ Surface and Middle -depth DO\_F\_Station IS(Mf)16  
0215660\_14 September 2018\_ Surface and Middle-depth DO\_F\_SR4(N)  
0215660\_14 September 2018\_ Surface and Middle-depth DO\_F\_Station IS8  
0215660\_14 September 2018\_ Surface and Middle-depth DO\_F\_Station IS(Mf)9

A total of five exceedances were recorded on 14 September 2018.

Regards,



Dr Jasmine Ng  
*Environmental Team Leader*

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ERM-Hong Kong, Limited

CONTRACT NO. HY/2012/07

TUEN MUN – CHEK LAP KOK LINK –  
SOUTHERN CONNECTION VIADUCT SECTION

*Marine Water Quality Impact Monitoring*

**Notification of Exceedance**

<b>Log No.</b>	<p style="text-align: center;"><u>Action Level Exceedance</u></p> <p style="text-align: center;">0215660_14 September 2018_ Surface and Middle-depth DO_E_Station IS(Mf)16          0215660_14 September 2018_ Surface and Middle -depth DO_F_Station IS(Mf)16          0215660_14 September 2018_ Surface and Middle-depth DO_F_SR4(N)          0215660_14 September 2018_ Surface and Middle-depth DO_F_Station IS8          0215660_14 September 2018_ Surface and Middle-depth DO_F_Station IS(Mf)9</p> <p style="text-align: center;">[Total No. of Exceedance = 5]</p>	
<b>Date</b>	<p style="text-align: center;">14 September 2018 (Measured)          15 September 2018 (<i>In situ</i> results received by ERM)          27 September 2018 (Laboratory results received by ERM)</p>	
<b>Monitoring Station</b>	<p style="text-align: center;">CS(Mf)5, SR4a, SR4(N), IS8, IS(Mf)16, IS(Mf)9, CS(Mf)3(N)</p>	
<b>Parameter(s) with Exceedance(s)</b>	<p style="text-align: center;">Surface and Middle-depth DO</p>	
<b>Action Levels for DO</b>	Surface and Middle-depth DO	<p style="text-align: right;">5.0 mg/L</p>
<b>Limit Levels for DO</b>	Surface and Middle-depth DO	<p style="text-align: right;">4.2 mg/L</p>
<b>Measured Levels</b>	Refer to the attached data.	
<b>Works Undertaken (at the time of monitoring event)</b>	Demolition of marine platform was undertaken at Viaduct E under this Contract on 14 September 2018.	
<b>Possible Reason for Action or Limit Level Exceedance(s)</b>	<p>The exceedances of DO are unlikely to be due to the Project, in view of the following</p> <ul style="list-style-type: none"> <li>• All monitored parameters, except DO, at all monitoring stations were in compliance with the Action and Limit Levels during both mid-ebb and mid-flood tides on the same day.</li> <li>• Marginal DO exceedances were observed at Surface and Middle-depth at IS(Mf)16, SR4(N), IS8 and IS(Mf)9 during mid-flood tide. The marginal DO exceedances at these stations were similar to the corresponding control stations, CS(Mf)5, in which the recorded Surface and Middle-depth DO level at the corresponding control station was below Action Level.</li> <li>• Marginal DO exceedance were only observed at Surface and Middle-depth at IS(Mf)16 during mid-ebb tide. No DO exceedance was observed at IS8 and IS(Mf)9 which are both nearby the works area.</li> <li>• No particular observation was reported at IS(Mf)16, SR4(N), IS8 and IS(Mf)9.</li> </ul>	
<b>Actions Taken/ To Be Taken</b>	No immediate action is considered necessary. The ET will monitor for future trends in exceedances.	
<b>Remarks</b>	The monitoring results on 14 September 2018 and locations of water quality monitoring stations are attached. Site photo record on 14 September 2018 is attached.	

Project	Works	Date (yyyy-mm-dd)	Tide	Station	Start Time	Level	Replicate	Temperature (°C)	pH	Salinity (ppt)	DO (mg/L)	Average DO (mg/L)	Turbidity (NTU)	Depth-Averaged Turbidity	SS (mg/L)	Depth-Averaged SS
TMCLKL	HY/2012/07	2018-09-14	Mid-Ebb	CS(Mf)5	15:45	Surface	1	27.1	8.0	25.8	4.8	4.7	13.9	13.3	8.8	9.0
TMCLKL	HY/2012/07	2018-09-14	Mid-Ebb	CS(Mf)5	15:45	Surface	2	27.1	8.0	25.7	4.8		13.9		9.0	
TMCLKL	HY/2012/07	2018-09-14	Mid-Ebb	CS(Mf)5	15:45	Middle	1	26.8	8.0	26.3	4.6		13.5		8.8	
TMCLKL	HY/2012/07	2018-09-14	Mid-Ebb	CS(Mf)5	15:45	Middle	2	26.8	8.1	26.3	4.5		13.7		8.5	
TMCLKL	HY/2012/07	2018-09-14	Mid-Ebb	CS(Mf)5	15:45	Bottom	1	26.3	8.0	28.0	4.4	4.4	12.1	13.3	9.3	9.0
TMCLKL	HY/2012/07	2018-09-14	Mid-Ebb	CS(Mf)5	15:45	Bottom	2	26.3	8.1	27.9	4.3		12.6		9.6	
TMCLKL	HY/2012/07	2018-09-14	Mid-Ebb	CS(Mf)3(N)	14:47	Surface	1	27.6	7.8	21.5	5.0	5.0	6.4	9.5	3.6	5.6
TMCLKL	HY/2012/07	2018-09-14	Mid-Ebb	CS(Mf)3(N)	14:47	Surface	2	27.6	7.9	21.4	5.0		6.7		4.3	
TMCLKL	HY/2012/07	2018-09-14	Mid-Ebb	CS(Mf)3(N)	14:47	Middle	1	27.2	7.9	23.1	5.0		10.9		5.5	
TMCLKL	HY/2012/07	2018-09-14	Mid-Ebb	CS(Mf)3(N)	14:47	Middle	2	27.2	8.0	22.9	5.0		10.8		5.0	
TMCLKL	HY/2012/07	2018-09-14	Mid-Ebb	CS(Mf)3(N)	14:47	Bottom	1	27.2	7.9	23.7	5.0	5.0	11.3	13.3	7.6	4.3
TMCLKL	HY/2012/07	2018-09-14	Mid-Ebb	CS(Mf)3(N)	14:47	Bottom	2	27.3	8.0	23.6	5.0		11.1		7.7	
TMCLKL	HY/2012/07	2018-09-14	Mid-Ebb	IS(Mf)16	15:22	Surface	1	27.2	8.0	25.6	4.9	4.9	12.3	13.3	3.1	4.3
TMCLKL	HY/2012/07	2018-09-14	Mid-Ebb	IS(Mf)16	15:22	Surface	2	27.2	8.0	25.5	4.9		12.0		2.8	
TMCLKL	HY/2012/07	2018-09-14	Mid-Ebb	IS(Mf)16	15:22	Middle	1									
TMCLKL	HY/2012/07	2018-09-14	Mid-Ebb	IS(Mf)16	15:22	Middle	2									
TMCLKL	HY/2012/07	2018-09-14	Mid-Ebb	IS(Mf)16	15:22	Bottom	1	26.8	8.0	26.3	4.7	4.7	14.6	13.6	5.4	7.3
TMCLKL	HY/2012/07	2018-09-14	Mid-Ebb	IS(Mf)16	15:22	Bottom	2	26.8	8.0	26.2	4.7		14.4		5.7	
TMCLKL	HY/2012/07	2018-09-14	Mid-Ebb	SR4a	15:10	Surface	1	28.1	8.0	25.0	5.4	5.4	15.4	13.6	7.4	7.3
TMCLKL	HY/2012/07	2018-09-14	Mid-Ebb	SR4a	15:10	Surface	2	28.1	8.0	24.9	5.4		15.3		7.3	
TMCLKL	HY/2012/07	2018-09-14	Mid-Ebb	SR4a	15:10	Middle	1									
TMCLKL	HY/2012/07	2018-09-14	Mid-Ebb	SR4a	15:10	Middle	2									
TMCLKL	HY/2012/07	2018-09-14	Mid-Ebb	SR4a	15:10	Bottom	1	27.3	8.0	25.2	5.0	5.0	11.7	13.8	7.4	6.0
TMCLKL	HY/2012/07	2018-09-14	Mid-Ebb	SR4a	15:10	Bottom	2	27.3	8.0	25.2	5.0		11.9		7.2	
TMCLKL	HY/2012/07	2018-09-14	Mid-Ebb	SR4(N)	15:06	Surface	1	27.7	8.0	25.0	5.2	5.2	13.8	13.8	5.9	6.0
TMCLKL	HY/2012/07	2018-09-14	Mid-Ebb	SR4(N)	15:06	Surface	2	27.7	8.0	25.0	5.2		13.5		6.4	
TMCLKL	HY/2012/07	2018-09-14	Mid-Ebb	SR4(N)	15:06	Middle	1									
TMCLKL	HY/2012/07	2018-09-14	Mid-Ebb	SR4(N)	15:06	Middle	2									
TMCLKL	HY/2012/07	2018-09-14	Mid-Ebb	SR4(N)	15:06	Bottom	1	27.7	8.0	25.0	5.3	5.3	13.9	14.5	6.0	6.9
TMCLKL	HY/2012/07	2018-09-14	Mid-Ebb	SR4(N)	15:06	Bottom	2	27.7	8.1	25.0	5.2		13.9		5.8	
TMCLKL	HY/2012/07	2018-09-14	Mid-Ebb	IS8	15:01	Surface	1	27.6	8.0	25.1	5.4	5.4	14.3	14.5	5.2	6.9
TMCLKL	HY/2012/07	2018-09-14	Mid-Ebb	IS8	15:01	Surface	2	27.6	8.1	25.0	5.3		14.4		5.1	
TMCLKL	HY/2012/07	2018-09-14	Mid-Ebb	IS8	15:01	Middle	1									
TMCLKL	HY/2012/07	2018-09-14	Mid-Ebb	IS8	15:01	Middle	2									
TMCLKL	HY/2012/07	2018-09-14	Mid-Ebb	IS8	15:01	Bottom	1	27.5	8.0	25.1	5.4	5.4	14.2	14.4	8.5	8.1
TMCLKL	HY/2012/07	2018-09-14	Mid-Ebb	IS8	15:01	Bottom	2	27.6	8.1	25.0	5.3		15.0		8.8	
TMCLKL	HY/2012/07	2018-09-14	Mid-Ebb	IS(Mf)9	14:52	Surface	1	28.0	8.0	25.2	5.5	5.5	15.5	14.4	7.1	8.1
TMCLKL	HY/2012/07	2018-09-14	Mid-Ebb	IS(Mf)9	14:52	Surface	2	28.1	8.1	25.2	5.5		15.0		6.9	
TMCLKL	HY/2012/07	2018-09-14	Mid-Ebb	IS(Mf)9	14:52	Middle	1									
TMCLKL	HY/2012/07	2018-09-14	Mid-Ebb	IS(Mf)9	14:52	Middle	2									
TMCLKL	HY/2012/07	2018-09-14	Mid-Ebb	IS(Mf)9	14:52	Bottom	1	27.3	8.0	25.4	5.2	5.2	13.5	14.4	9.4	8.1
TMCLKL	HY/2012/07	2018-09-14	Mid-Ebb	IS(Mf)9	14:52	Bottom	2	27.3	8.1	25.3	5.2		13.5		9.0	

Project	Works	Date (yyyy-mm-dd)	Tide	Station	Start Time	Level	Replicate	Temperature (°C)	pH	Salinity (ppt)	DO (mg/L)	Average DO (mg/L)	Turbidity (NTU)	Depth-Averaged Turbidity	SS (mg/L)	Depth-Averaged SS
TMCLKL	HY/2012/07	2018-09-14	Mid-Flood	CS(Mf)5	9:18	Surface	1	26.9	8.1	25.6	4.7	4.6	14.3	11.4	5.5	7.7
TMCLKL	HY/2012/07	2018-09-14	Mid-Flood	CS(Mf)5	9:18	Surface	2	26.9	8.0	25.6	4.7		14.8		5.9	
TMCLKL	HY/2012/07	2018-09-14	Mid-Flood	CS(Mf)5	9:18	Middle	1	26.7	8.1	26.4	4.5		13.5		8.6	
TMCLKL	HY/2012/07	2018-09-14	Mid-Flood	CS(Mf)5	9:18	Middle	2	26.6	8.0	26.5	4.5	4.4	13.8	11.4	8.5	7.7
TMCLKL	HY/2012/07	2018-09-14	Mid-Flood	CS(Mf)5	9:18	Bottom	1	26.4	8.1	27.3	4.4		5.8		9.0	
TMCLKL	HY/2012/07	2018-09-14	Mid-Flood	CS(Mf)5	9:18	Bottom	2	26.4	8.0	27.4	4.4	5.1	5.9	10.2	8.8	10.0
TMCLKL	HY/2012/07	2018-09-14	Mid-Flood	CS(Mf)3(N)	10:39	Surface	1	27.6	7.8	20.6	5.1		6.2		8.3	
TMCLKL	HY/2012/07	2018-09-14	Mid-Flood	CS(Mf)3(N)	10:39	Surface	2	27.6	7.9	20.6	5.1		6.4		9.0	
TMCLKL	HY/2012/07	2018-09-14	Mid-Flood	CS(Mf)3(N)	10:39	Middle	1	27.5	7.8	21.1	5.1	5.1	9.7	10.2	9.6	10.0
TMCLKL	HY/2012/07	2018-09-14	Mid-Flood	CS(Mf)3(N)	10:39	Middle	2	27.5	7.9	21.0	5.1		9.7		10.3	
TMCLKL	HY/2012/07	2018-09-14	Mid-Flood	CS(Mf)3(N)	10:39	Bottom	1	27.3	7.8	22.3	5.1	5.1	14.3	10.2	11.6	10.0
TMCLKL	HY/2012/07	2018-09-14	Mid-Flood	CS(Mf)3(N)	10:39	Bottom	2	27.3	7.9	22.2	5.0		14.6		11.4	
TMCLKL	HY/2012/07	2018-09-14	Mid-Flood	IS(Mf)16	9:44	Surface	1	27.2	8.1	24.8	4.9	4.9	14.3	13.3	5.6	7.0
TMCLKL	HY/2012/07	2018-09-14	Mid-Flood	IS(Mf)16	9:44	Surface	2	27.2	8.0	24.8	4.9		14.1		6.5	
TMCLKL	HY/2012/07	2018-09-14	Mid-Flood	IS(Mf)16	9:44	Middle	1									
TMCLKL	HY/2012/07	2018-09-14	Mid-Flood	IS(Mf)16	9:44	Middle	2					4.8		13.3		7.0
TMCLKL	HY/2012/07	2018-09-14	Mid-Flood	IS(Mf)16	9:44	Bottom	1	27.0	8.0	25.5	4.8		12.4		7.8	
TMCLKL	HY/2012/07	2018-09-14	Mid-Flood	IS(Mf)16	9:44	Bottom	2	26.9	8.0	25.5	4.8	5.1	12.5	13.3	8.1	10.4
TMCLKL	HY/2012/07	2018-09-14	Mid-Flood	SR4a	9:53	Surface	1	27.2	8.1	25.1	5.0		13.5		8.1	
TMCLKL	HY/2012/07	2018-09-14	Mid-Flood	SR4a	9:53	Surface	2	27.2	8.0	25.2	5.1		13.1		7.7	
TMCLKL	HY/2012/07	2018-09-14	Mid-Flood	SR4a	9:53	Middle	1					5.1		13.3		10.4
TMCLKL	HY/2012/07	2018-09-14	Mid-Flood	SR4a	9:53	Middle	2									
TMCLKL	HY/2012/07	2018-09-14	Mid-Flood	SR4a	9:53	Bottom	1	27.1	8.1	25.2	5.1	5.2	13.2	13.3	12.6	10.4
TMCLKL	HY/2012/07	2018-09-14	Mid-Flood	SR4a	9:53	Bottom	2	27.1	8.0	25.2	5.2		13.4		13.0	
TMCLKL	HY/2012/07	2018-09-14	Mid-Flood	SR4(N)	10:00	Surface	1	27.1	8.0	25.1	4.9	4.9	12.8	12.5	7.8	8.3
TMCLKL	HY/2012/07	2018-09-14	Mid-Flood	SR4(N)	10:00	Surface	2	27.1	8.0	25.1	4.9		12.6		7.4	
TMCLKL	HY/2012/07	2018-09-14	Mid-Flood	SR4(N)	10:00	Middle	1									
TMCLKL	HY/2012/07	2018-09-14	Mid-Flood	SR4(N)	10:00	Middle	2					4.9		12.5		8.3
TMCLKL	HY/2012/07	2018-09-14	Mid-Flood	SR4(N)	10:00	Bottom	1	27.0	8.0	25.3	4.8		12.3		9.0	
TMCLKL	HY/2012/07	2018-09-14	Mid-Flood	SR4(N)	10:00	Bottom	2	27.0	8.0	25.4	4.9	4.9	12.4	12.6	8.8	7.2
TMCLKL	HY/2012/07	2018-09-14	Mid-Flood	IS8	10:06	Surface	1	27.1	8.0	25.2	4.9		13.1		6.1	
TMCLKL	HY/2012/07	2018-09-14	Mid-Flood	IS8	10:06	Surface	2	27.1	8.0	25.2	4.9	4.9	12.3	12.6	6.8	7.2
TMCLKL	HY/2012/07	2018-09-14	Mid-Flood	IS8	10:06	Middle	1									
TMCLKL	HY/2012/07	2018-09-14	Mid-Flood	IS8	10:06	Middle	2									
TMCLKL	HY/2012/07	2018-09-14	Mid-Flood	IS8	10:06	Bottom	1	27.0	8.0	25.4	4.8	4.9	12.2	12.6	7.7	5.5
TMCLKL	HY/2012/07	2018-09-14	Mid-Flood	IS8	10:06	Bottom	2	27.0	8.0	25.4	4.9		12.8		8.0	
TMCLKL	HY/2012/07	2018-09-14	Mid-Flood	IS(Mf)9	10:14	Surface	1	27.1	8.0	25.2	4.9	4.9	14.2	13.6	5.3	5.5
TMCLKL	HY/2012/07	2018-09-14	Mid-Flood	IS(Mf)9	10:14	Surface	2	27.1	8.0	25.2	4.9		14.8		4.9	
TMCLKL	HY/2012/07	2018-09-14	Mid-Flood	IS(Mf)9	10:14	Middle	1									
TMCLKL	HY/2012/07	2018-09-14	Mid-Flood	IS(Mf)9	10:14	Middle	2					4.8		13.6		5.5
TMCLKL	HY/2012/07	2018-09-14	Mid-Flood	IS(Mf)9	10:14	Bottom	1	27.0	8.0	25.5	4.8		12.7		5.6	
TMCLKL	HY/2012/07	2018-09-14	Mid-Flood	IS(Mf)9	10:14	Bottom	2	27.0	8.0	25.5	4.8	4.8	12.6	6.0		

Note: Indicates Exceedance of Action Level  
Indicates Exceedance of Limit Level

Photo 1 - Mid-Ebb at IS(Mf)16 on 14 September 2018



Photo 2 - Mid-Flood at IS(Mf)16 on 14 September 2018



Photo 3 - Mid-Flood at SR4(N) on 14 September 2018

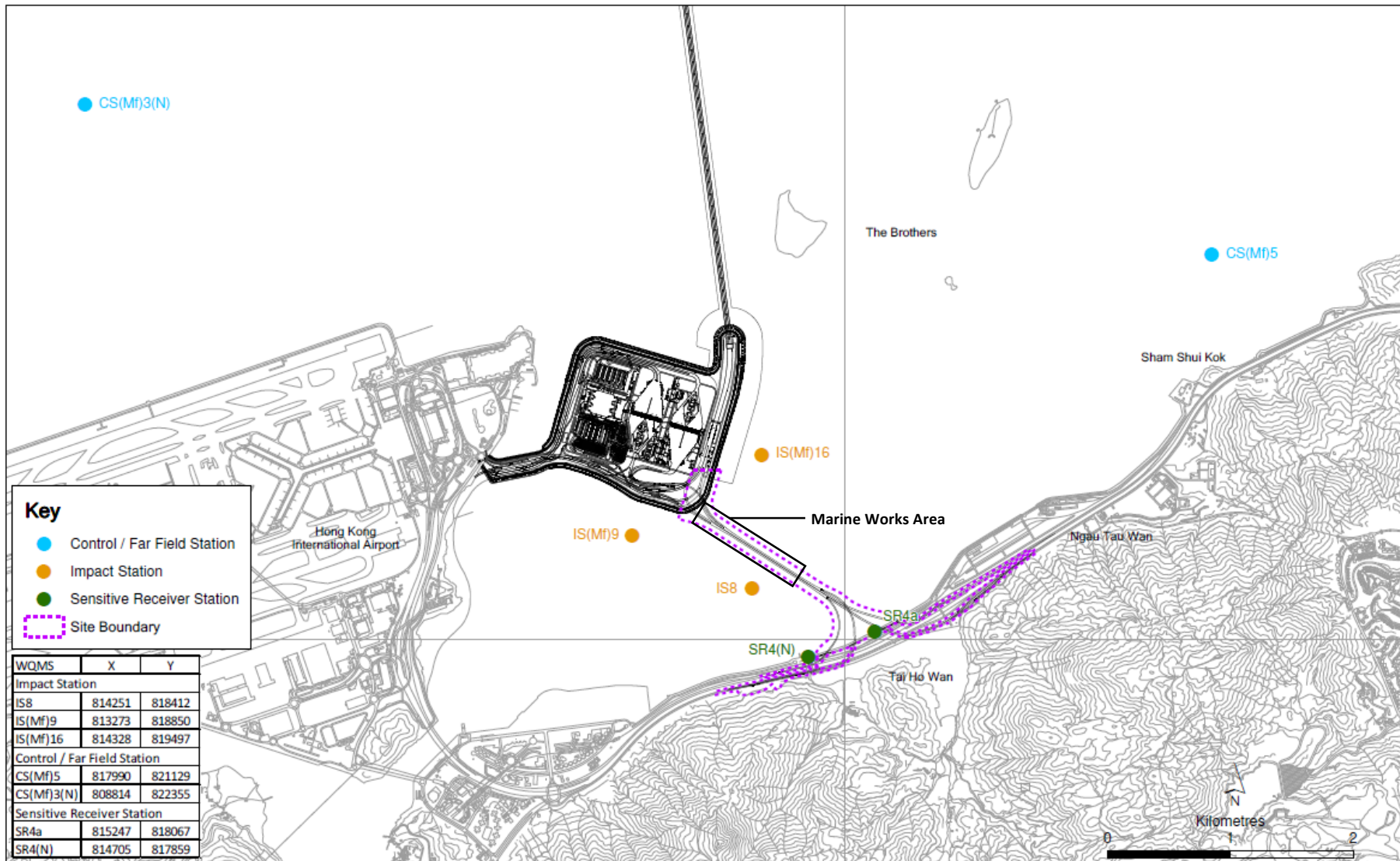


Photo 4 - Mid-Flood at IS8 on 14 September 2018



Photo 5 - Mid- Flood at IS(Mf)9 on 14 September 2018





**Key**

- Control / Far Field Station
- Impact Station
- Sensitive Receiver Station
- Site Boundary

WQMS	X	Y
<b>Impact Station</b>		
IS8	814251	818412
IS(Mf)9	813273	818850
IS(Mf)16	814328	819497
<b>Control / Far Field Station</b>		
CS(Mf)5	817990	821129
CS(Mf)3(N)	808814	822355
<b>Sensitive Receiver Station</b>		
SR4a	815247	818067
SR4(N)	814705	817859

Locations of Water Quality Monitoring Stations