

*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	0
24-Hr TSP	Action	0	2
	Limit	0	0
Noise	Action	0	0
	Limit	0	0
Water Quality	Action	2	134
	Limit	0	15
Impact Dolphin Monitoring	Action	0	9
	Limit	0	11

*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 (December 2017)	0	0	0
Total No. received since project commencement	11	0	0

Email  
message

Environmental  
Resources  
Management

*To* Ramboll Environ – Hong Kong, Limited (ENPO)

16/F Berkshire House,  
25 Westlands Road  
Quarry Bay, Hong Kong  
Telephone: (852) 2271 3113  
Facsimile: (852) 2723 5660  
E-mail: jovy.tam@erm.com

*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



**ERM**

*Date* 12 December 2017

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Dear Sir/ Madam,

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

Action Level Exceedance  
0215660\_6 December 2017\_Depth-averaged SS\_F\_Station IS8

A total of one (1) exceedance was recorded on 6 December 2017.

Regards,

A handwritten signature in black ink, appearing to be 'Jovy Tam', written in a cursive style.

Mr Jovy Tam  
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><b><u>Action Level Exceedance</u></b>  <b>0215660_6 December 2017_Depth-averaged SS_F_Station IS8</b></p> <p><b>[Total No. of Exceedances = 1]</b></p>	
Date	<p>6 December 2017 (Measured)            7 December 2017 (<i>In situ</i> results received by ERM)            12 December 2017 (Laboratory results received by ERM)</p>	
Monitoring Station	<p>CS(Mf)5, SR4a, SR4, IS8, IS(Mf)16, IS(Mf)9, CS(Mf)3(N)</p>	
Parameter(s) with Exceedance(s)	<p>Depth-averaged Suspended Solids (SS)</p>	
Action Levels for SS	<p>SS</p>	<p>120% of upstream control station at the same tide of the same day and 95%-ile of baseline data (i.e., 23.5 mg/L).</p>
Limit Levels for SS	<p>SS</p>	<p>130% of upstream control station at the same tide of the same day and 99%-ile of baseline data. (i.e., 34.4 mg/L)</p>
Measured Levels	<p><u>Action Level Exceedance</u>            1. Mid-flood at IS8 (Depth-averaged SS = 23.8mg/L).</p>	
Works Undertaken (at the time of monitoring event)	<p>No major marine works was undertaken under this Contract on 6 December 2017.</p>	
Possible Reason for Action or Limit Level Exceedance(s)	<p>The exceedances of depth-averaged SS 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 undertaken under this Contract on 6 December 2017.</li> <li>• Apart from IS8, depth-averaged SS levels at all other monitoring stations were in compliance with the Action and Limit Levels during both mid-flood and mid-ebb tides on the same day.</li> <li>• Depth-averaged Turbidity levels and average DO levels at all stations were in compliance with the Action and Limit Levels during both mid-ebb and mid-flood tides on the same day.</li> </ul>	
Actions Taken/ To Be Taken	<p>No immediate action is considered necessary. The ET will monitor for future trends in exceedances.</p>	
Remarks	<p>The monitoring results on 6 December 2017 and locations of water quality monitoring stations are attached. Site photo record on 6 December 2017 is attached.</p>	

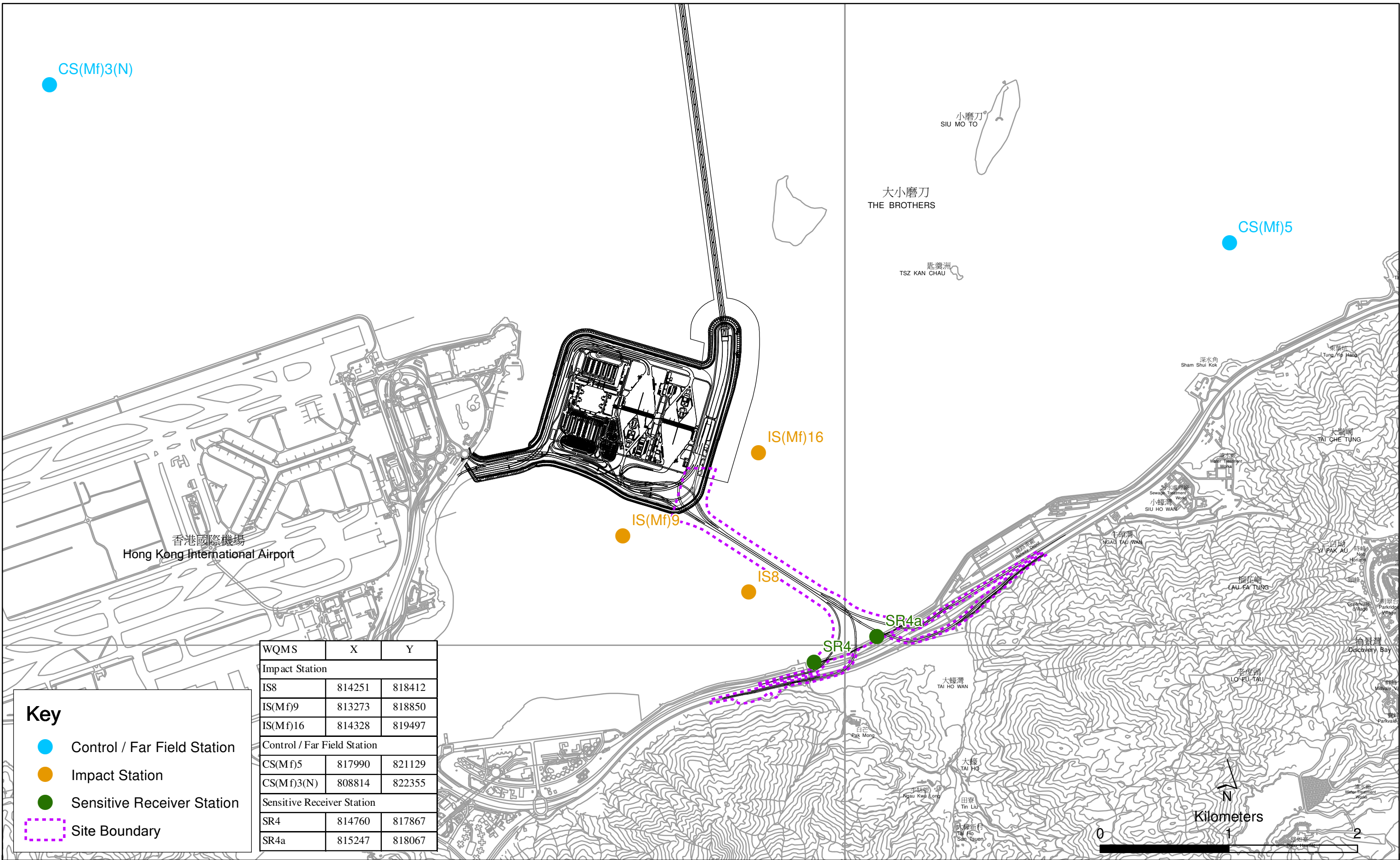
Project	Works	Date (yyyy-mm-dd)	Tide	Station	Start Time	Level	Replicate	Temperature (°C)	pH	Salinity (ppt)	DO (mg/L)	Average DO (mg/L)	Turbidity (NTU)	Depth-Averaged Turbidity	SS (mg/L)	Depth-Averaged SS
TMCLKL	HY/2012/07	2017-12-06	Mid-Ebb	CS(Mf)5	14:56	Surface	1	22.4	8.1	32.6	6.7	6.6	4.6	8.9	4.3	5.8
TMCLKL	HY/2012/07	2017-12-06	Mid-Ebb	CS(Mf)5	14:56	Surface	2	22.5	8.0	32.4	6.7		4.6		4.2	
TMCLKL	HY/2012/07	2017-12-06	Mid-Ebb	CS(Mf)5	14:56	Middle	1	22.0	8.1	32.6	6.5		3.3		6.1	
TMCLKL	HY/2012/07	2017-12-06	Mid-Ebb	CS(Mf)5	14:56	Middle	2	22.1	8.0	32.4	6.5	6.5	3.3	19.0	5.7	20.1
TMCLKL	HY/2012/07	2017-12-06	Mid-Ebb	CS(Mf)5	14:56	Bottom	1	21.9	8.1	32.6	6.5		18.9		6.5	
TMCLKL	HY/2012/07	2017-12-06	Mid-Ebb	CS(Mf)5	14:56	Bottom	2	22.0	8.0	32.5	6.4	6.9	18.9	19.0	8.1	20.1
TMCLKL	HY/2012/07	2017-12-06	Mid-Ebb	CS(Mf)3(N)	13:38	Surface	1	21.6	8.2	32.1	6.9		13.7		13.9	
TMCLKL	HY/2012/07	2017-12-06	Mid-Ebb	CS(Mf)3(N)	13:38	Surface	2	21.9	8.0	30.3	6.9		14.0		12.5	
TMCLKL	HY/2012/07	2017-12-06	Mid-Ebb	CS(Mf)3(N)	13:38	Middle	1	21.4	8.2	32.1	6.8	6.9	20.6	19.0	15.3	20.1
TMCLKL	HY/2012/07	2017-12-06	Mid-Ebb	CS(Mf)3(N)	13:38	Middle	2	21.7	8.0	30.3	6.9		20.6		15.2	
TMCLKL	HY/2012/07	2017-12-06	Mid-Ebb	CS(Mf)3(N)	13:38	Bottom	1	21.4	8.2	32.1	6.8	6.9	22.5	19.0	31.3	20.1
TMCLKL	HY/2012/07	2017-12-06	Mid-Ebb	CS(Mf)3(N)	13:38	Bottom	2	21.6	8.0	30.2	6.9		22.8		32.3	
TMCLKL	HY/2012/07	2017-12-06	Mid-Ebb	IS(Mf)16	14:24	Surface	1	22.0	8.1	32.4	7.1	7.0	3.8	9.4	6.1	7.3
TMCLKL	HY/2012/07	2017-12-06	Mid-Ebb	IS(Mf)16	14:24	Surface	2	22.1	8.0	32.2	7.1		3.8		5.7	
TMCLKL	HY/2012/07	2017-12-06	Mid-Ebb	IS(Mf)16	14:24	Middle	1	21.6	8.1	32.4	6.9		6.2		8.3	
TMCLKL	HY/2012/07	2017-12-06	Mid-Ebb	IS(Mf)16	14:24	Middle	2	21.7	8.0	32.2	6.9	7.0	6.2	9.4	6.4	7.3
TMCLKL	HY/2012/07	2017-12-06	Mid-Ebb	IS(Mf)16	14:24	Bottom	1	21.5	8.1	32.4	7.0		18.2		7.9	
TMCLKL	HY/2012/07	2017-12-06	Mid-Ebb	IS(Mf)16	14:24	Bottom	2	21.6	8.0	32.2	6.9	7.0	18.2	9.4	9.2	7.3
TMCLKL	HY/2012/07	2017-12-06	Mid-Ebb	SR4a	14:11	Surface	1	21.8	8.1	32.5	6.9		9.3		13.7	
TMCLKL	HY/2012/07	2017-12-06	Mid-Ebb	SR4a	14:11	Surface	2	21.9	8.0	32.3	6.9	6.9	10.8	10.9	12.2	14.0
TMCLKL	HY/2012/07	2017-12-06	Mid-Ebb	SR4a		Middle	1									
TMCLKL	HY/2012/07	2017-12-06	Mid-Ebb	SR4a		Middle	2									
TMCLKL	HY/2012/07	2017-12-06	Mid-Ebb	SR4a	14:11	Bottom	1	21.7	8.1	32.5	7.0	7.0	10.5	10.9	15.9	14.0
TMCLKL	HY/2012/07	2017-12-06	Mid-Ebb	SR4a	14:11	Bottom	2	21.8	8.0	32.3	6.9		13.0		14.3	
TMCLKL	HY/2012/07	2017-12-06	Mid-Ebb	SR4	14:06	Surface	1	21.9	8.1	32.5	6.8	6.8	10.9	12.7	10.8	13.8
TMCLKL	HY/2012/07	2017-12-06	Mid-Ebb	SR4	14:06	Surface	2	22.0	8.0	32.3	6.8		10.0		10.5	
TMCLKL	HY/2012/07	2017-12-06	Mid-Ebb	SR4		Middle	1									
TMCLKL	HY/2012/07	2017-12-06	Mid-Ebb	SR4		Middle	2					7.0		12.7		13.8
TMCLKL	HY/2012/07	2017-12-06	Mid-Ebb	SR4	14:06	Bottom	1	21.8	8.1	32.5	7.0		14.3		17.0	
TMCLKL	HY/2012/07	2017-12-06	Mid-Ebb	SR4	14:06	Bottom	2	21.9	8.0	32.3	6.9	6.9	15.5	19.9	17.0	23.0
TMCLKL	HY/2012/07	2017-12-06	Mid-Ebb	IS8	13:57	Surface	1	21.7	8.1	32.4	6.9		19.6		22.7	
TMCLKL	HY/2012/07	2017-12-06	Mid-Ebb	IS8	13:57	Surface	2	21.8	8.0	32.2	6.9		20.1		20.8	
TMCLKL	HY/2012/07	2017-12-06	Mid-Ebb	IS8		Middle	1					7.0		19.9		23.0
TMCLKL	HY/2012/07	2017-12-06	Mid-Ebb	IS8		Middle	2									
TMCLKL	HY/2012/07	2017-12-06	Mid-Ebb	IS8	13:57	Bottom	1	21.6	8.1	32.4	7.0	7.0	19.3	19.9	24.0	23.0
TMCLKL	HY/2012/07	2017-12-06	Mid-Ebb	IS8	13:57	Bottom	2	21.7	8.0	32.3	6.9		20.4		24.6	
TMCLKL	HY/2012/07	2017-12-06	Mid-Ebb	IS(Mf)9	13:47	Surface	1	21.8	8.1	32.5	7.0	7.0	8.2	9.1	8.1	8.4
TMCLKL	HY/2012/07	2017-12-06	Mid-Ebb	IS(Mf)9	13:47	Surface	2	21.9	8.1	32.3	7.0		8.9		9.4	
TMCLKL	HY/2012/07	2017-12-06	Mid-Ebb	IS(Mf)9		Middle	1									
TMCLKL	HY/2012/07	2017-12-06	Mid-Ebb	IS(Mf)9		Middle	2					7.1		9.1		8.4
TMCLKL	HY/2012/07	2017-12-06	Mid-Ebb	IS(Mf)9	13:47	Bottom	1	21.7	8.1	32.5	7.1		9.7		8.4	
TMCLKL	HY/2012/07	2017-12-06	Mid-Ebb	IS(Mf)9	13:47	Bottom	2	21.9	8.1	32.3	7.1	7.1	9.5	7.7		

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	2017-12-06	Mid-Flood	CS(Mf)5	8:56	Surface	1	21.8	8.1	32.4	6.7	6.7	5.4	9.4	11.9	12.4	
TMCLKL	HY/2012/07	2017-12-06	Mid-Flood	CS(Mf)5	8:56	Surface	2	21.9	8.0	32.2	6.7		5.8		12.4		
TMCLKL	HY/2012/07	2017-12-06	Mid-Flood	CS(Mf)5	8:56	Middle	1	21.7	8.1	32.4	6.7		7.0		12.2		
TMCLKL	HY/2012/07	2017-12-06	Mid-Flood	CS(Mf)5	8:56	Middle	2	21.8	8.1	32.3	6.7		7.7		11.3		
TMCLKL	HY/2012/07	2017-12-06	Mid-Flood	CS(Mf)5	8:56	Bottom	1	21.6	8.1	32.4	6.7		15.2		12.2		
TMCLKL	HY/2012/07	2017-12-06	Mid-Flood	CS(Mf)5	8:56	Bottom	2	21.7	8.1	32.3	6.7	15.4	14.2				
TMCLKL	HY/2012/07	2017-12-06	Mid-Flood	CS(Mf)3(N)	9:48	Surface	1	21.6	8.0	31.6	6.6	6.7	22.4	23.6	24.4	23.9	
TMCLKL	HY/2012/07	2017-12-06	Mid-Flood	CS(Mf)3(N)	9:48	Surface	2	21.8	7.9	30.1	6.7		22.7		22.4		
TMCLKL	HY/2012/07	2017-12-06	Mid-Flood	CS(Mf)3(N)	9:48	Middle	1	21.6	8.0	31.6	6.6		23.7		24.3		
TMCLKL	HY/2012/07	2017-12-06	Mid-Flood	CS(Mf)3(N)	9:48	Middle	2	21.8	7.9	30.1	6.7		23.6		22.5		
TMCLKL	HY/2012/07	2017-12-06	Mid-Flood	CS(Mf)3(N)	9:48	Bottom	1	21.6	8.0	31.6	6.6		24.8		25.3		
TMCLKL	HY/2012/07	2017-12-06	Mid-Flood	CS(Mf)3(N)	9:48	Bottom	2	21.8	7.9	30.1	6.6	24.5	24.5				
TMCLKL	HY/2012/07	2017-12-06	Mid-Flood	IS(Mf)16	9:20	Surface	1	21.4	8.1	32.3	6.9	6.9	11.3	14.2	11.8	12.8	
TMCLKL	HY/2012/07	2017-12-06	Mid-Flood	IS(Mf)16	9:20	Surface	2	21.5	8.1	32.2	6.9		12.4		11.7		
TMCLKL	HY/2012/07	2017-12-06	Mid-Flood	IS(Mf)16		Middle	1										
TMCLKL	HY/2012/07	2017-12-06	Mid-Flood	IS(Mf)16		Middle	2										
TMCLKL	HY/2012/07	2017-12-06	Mid-Flood	IS(Mf)16	9:20	Bottom	1	21.4	8.1	32.4	6.9		16.0		14.3		
TMCLKL	HY/2012/07	2017-12-06	Mid-Flood	IS(Mf)16	9:20	Bottom	2	21.5	8.1	32.2	6.9	17.1	13.5				
TMCLKL	HY/2012/07	2017-12-06	Mid-Flood	SR4a	9:29	Surface	1	21.5	8.1	32.5	6.7	6.7	8.9	8.1	11.3	12.9	
TMCLKL	HY/2012/07	2017-12-06	Mid-Flood	SR4a	9:29	Surface	2	21.6	8.0	32.3	6.7		8.9		10.9		
TMCLKL	HY/2012/07	2017-12-06	Mid-Flood	SR4a		Middle	1										
TMCLKL	HY/2012/07	2017-12-06	Mid-Flood	SR4a		Middle	2										
TMCLKL	HY/2012/07	2017-12-06	Mid-Flood	SR4a	9:29	Bottom	1	21.5	8.1	32.5	6.8		7.3		14.7		
TMCLKL	HY/2012/07	2017-12-06	Mid-Flood	SR4a	9:29	Bottom	2	21.6	8.0	32.3	6.8	7.3	14.8				
TMCLKL	HY/2012/07	2017-12-06	Mid-Flood	SR4	9:34	Surface	1	21.5	8.1	32.5	6.7	6.7	9.2	10.2	10.6	11.6	
TMCLKL	HY/2012/07	2017-12-06	Mid-Flood	SR4	9:34	Surface	2	21.6	8.0	32.3	6.6		10.1		10.9		
TMCLKL	HY/2012/07	2017-12-06	Mid-Flood	SR4		Middle	1										
TMCLKL	HY/2012/07	2017-12-06	Mid-Flood	SR4		Middle	2										
TMCLKL	HY/2012/07	2017-12-06	Mid-Flood	SR4	9:34	Bottom	1	21.5	8.1	32.5	6.8		10.3		11.7		
TMCLKL	HY/2012/07	2017-12-06	Mid-Flood	SR4	9:34	Bottom	2	21.6	8.0	32.3	6.7	11.0	13.0				
TMCLKL	HY/2012/07	2017-12-06	Mid-Flood	IS8	9:43	Surface	1	21.5	8.1	32.5	6.7	6.7	19.7	22.9	22.4	23.8	
TMCLKL	HY/2012/07	2017-12-06	Mid-Flood	IS8	9:43	Surface	2	21.6	8.0	32.3	6.7		19.8		23.3		
TMCLKL	HY/2012/07	2017-12-06	Mid-Flood	IS8		Middle	1										
TMCLKL	HY/2012/07	2017-12-06	Mid-Flood	IS8		Middle	2										
TMCLKL	HY/2012/07	2017-12-06	Mid-Flood	IS8	9:43	Bottom	1	21.5	8.1	32.5	6.9		26.1		24.5		
TMCLKL	HY/2012/07	2017-12-06	Mid-Flood	IS8	9:43	Bottom	2	21.6	8.0	32.3	6.9	25.8	25.0				
TMCLKL	HY/2012/07	2017-12-06	Mid-Flood	IS(Mf)9	9:53	Surface	1	21.5	8.1	32.5	6.8	6.8	15.2	16.8	22.7	22.4	
TMCLKL	HY/2012/07	2017-12-06	Mid-Flood	IS(Mf)9	9:53	Surface	2	21.6	8.0	32.3	6.8		17.2		22.6		
TMCLKL	HY/2012/07	2017-12-06	Mid-Flood	IS(Mf)9		Middle	1										
TMCLKL	HY/2012/07	2017-12-06	Mid-Flood	IS(Mf)9		Middle	2										
TMCLKL	HY/2012/07	2017-12-06	Mid-Flood	IS(Mf)9	9:53	Bottom	1	21.5	8.1	32.5	6.8		17.2		21.6		
TMCLKL	HY/2012/07	2017-12-06	Mid-Flood	IS(Mf)9	9:53	Bottom	2	21.6	8.0	32.3	6.8	17.5	22.7				

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

Photo 1 - Mid-Flood at IS8 on 6 December 2017





WQMS	X	Y
Impact Station		
IS8	814251	818412
IS(Mf)9	813273	818850
IS(Mf)16	814328	819497
Control / Far Field Station		
CS(Mf)5	817990	821129
CS(Mf)3(N)	808814	822355
Sensitive Receiver Station		
SR4	814760	817867
SR4a	815247	818067

**Key**

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

Locations of Water Quality Monitoring Stations

Email  
message

Environmental  
Resources  
Management

**To** Ramboll Environ – Hong Kong, Limited (ENPO)

16/F Berkshire House,  
25 Westlands Road  
Quarry Bay, Hong Kong  
Telephone: (852) 2271 3113  
Facsimile: (852) 2723 5660  
E-mail: jovy.tam@erm.com

**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



**ERM**

**Date** 15 December 2017

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Dear Sir/ Madam,

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

Action Level Exceedance  
0215660\_8 December 2017\_Depth-averaged SS\_F\_Station IS8

A total of one (1) exceedance was recorded on 8 December 2017.

Regards,

A handwritten signature in black ink, appearing to be 'Jovy Tam', written in a cursive style.

Mr Jovy Tam  
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><u>Action Level Exceedance</u> 0215660_8 December 2017_Depth-averaged SS_F_Station IS8</p> <p>[Total No. of Exceedances = 1]</p>	
<b>Date</b>	<p>8 December 2017 (Measured) 9 December 2017 (<i>In situ</i> results received by ERM) 14 December 2017 (Laboratory results received by ERM)</p>	
<b>Monitoring Station</b>	CS(Mf)5, SR4a, SR4, IS8, IS(Mf)16, IS(Mf)9, CS(Mf)3(N)	
<b>Parameter(s) with Exceedance(s)</b>	Depth-averaged Suspended Solids (SS)	
<b>Action Levels for SS</b>	SS	120% of upstream control station at the same tide of the same day and 95%-ile of baseline data (i.e., 23.5 mg/L).
<b>Limit Levels for SS</b>	SS	130% of upstream control station at the same tide of the same day and 99%-ile of baseline data. (i.e., 34.4 mg/L)
<b>Measured Levels</b>	<p><u>Action Level Exceedance</u> 1. Mid-flood at IS8 (Depth-averaged SS = 32.8mg/L).</p>	
<b>Works Undertaken (at the time of monitoring event)</b>	No major marine works was undertaken under this Contract on 8 December 2017.	
<b>Possible Reason for Action or Limit Level Exceedance(s)</b>	<p>The exceedances of depth-averaged SS 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 undertaken under this Contract on 8 December 2017.</li> <li>• Apart from IS8, depth-averaged SS levels at all other sensitive receiver stations and impact stations were in compliance with the Action and Limit Levels during both mid-flood and mid-ebb tides on the same day.</li> <li>• Depth-averaged Turbidity levels and average DO levels at all stations were in compliance with the Action and Limit Levels during both mid-ebb and mid-flood tides on the same day.</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 8 December 2017 and locations of water quality monitoring stations are attached. Site photo record on 8 December 2017 is attached.	

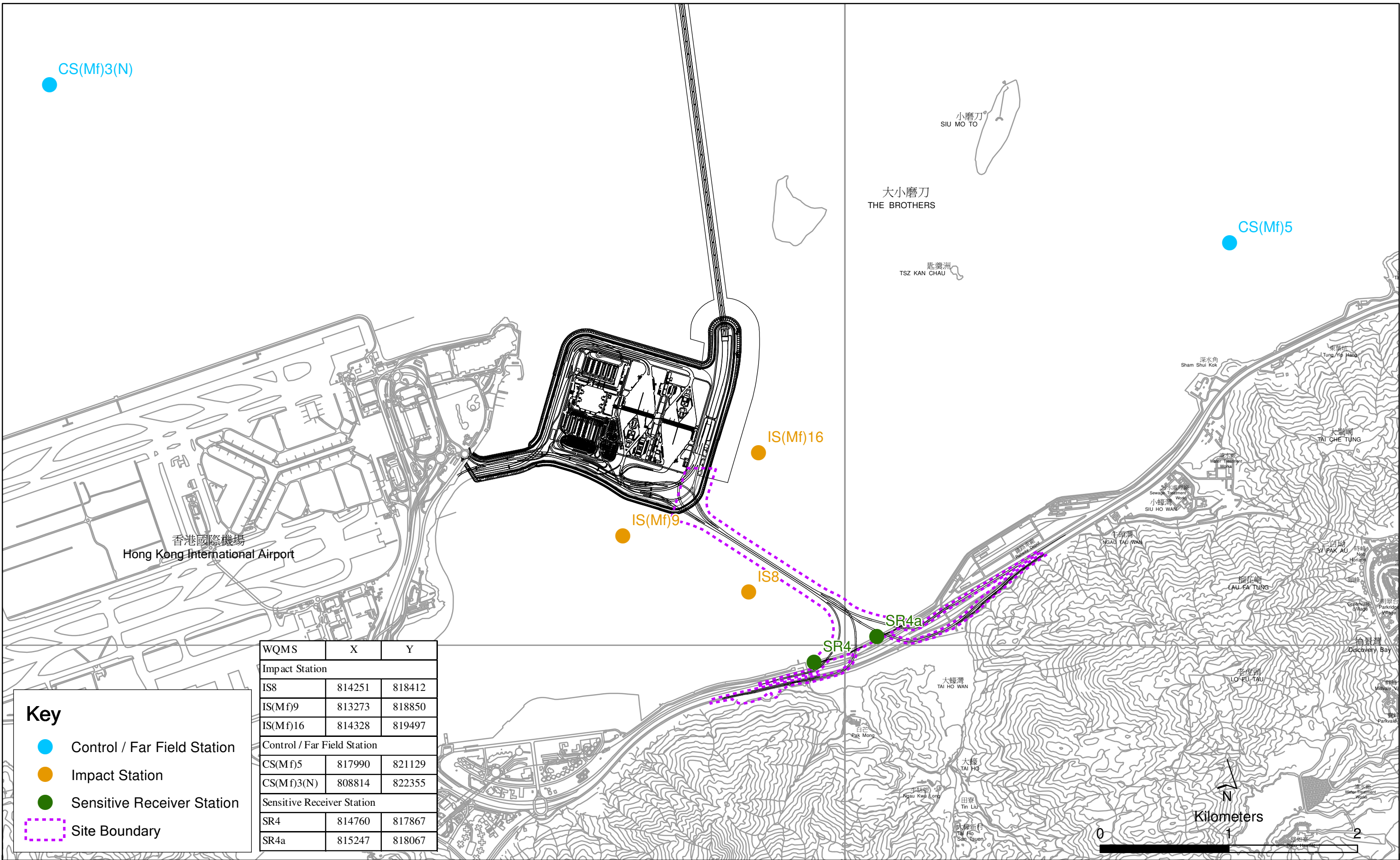
Project	Works	Date (yyyy-mm-dd)	Tide	Station	Start Time	Level	Replicate	Temperature (°C)	pH	Salinity (ppt)	DO (mg/L)	Average DO (mg/L)	Turbidity (NTU)	Depth-Averaged Turbidity	SS (mg/L)	Depth-Averaged SS
TMCLKL	HY/2012/07	2017-12-08	Mid-Ebb	CS(Mf)5	16:28	Surface	1	21.6	8.1	32.1	6.7	6.7	4.1	4.2	10.9	11.0
TMCLKL	HY/2012/07	2017-12-08	Mid-Ebb	CS(Mf)5	16:28	Surface	2	21.5	8.1	32.3	6.7		4.1		9.5	
TMCLKL	HY/2012/07	2017-12-08	Mid-Ebb	CS(Mf)5	16:28	Middle	1	21.6	8.1	32.2	6.7		4.2		9.0	
TMCLKL	HY/2012/07	2017-12-08	Mid-Ebb	CS(Mf)5	16:28	Middle	2	21.5	8.1	32.4	6.8	6.8	4.2	4.2	9.1	
TMCLKL	HY/2012/07	2017-12-08	Mid-Ebb	CS(Mf)5	16:28	Bottom	1	21.5	8.1	32.1	6.8		4.1		14.5	
TMCLKL	HY/2012/07	2017-12-08	Mid-Ebb	CS(Mf)5	16:28	Bottom	2	21.4	8.1	32.2	6.8	6.9	4.2	25.1	13.2	25.8
TMCLKL	HY/2012/07	2017-12-08	Mid-Ebb	CS(Mf)3(N)	15:19	Surface	1	21.1	8.2	31.2	6.9		22.5		24.6	
TMCLKL	HY/2012/07	2017-12-08	Mid-Ebb	CS(Mf)3(N)	15:19	Surface	2	21.3	8.0	29.4	7.0		22.9		23.9	
TMCLKL	HY/2012/07	2017-12-08	Mid-Ebb	CS(Mf)3(N)	15:19	Middle	1	21.0	8.2	31.3	6.9	7.0	23.1	25.1	25.3	
TMCLKL	HY/2012/07	2017-12-08	Mid-Ebb	CS(Mf)3(N)	15:19	Middle	2	21.3	8.1	29.5	6.9		24.3		25.8	
TMCLKL	HY/2012/07	2017-12-08	Mid-Ebb	CS(Mf)3(N)	15:19	Bottom	1	20.9	8.0	31.4	6.9	7.0	27.9	25.1	27.7	
TMCLKL	HY/2012/07	2017-12-08	Mid-Ebb	CS(Mf)3(N)	15:19	Bottom	2	21.1	8.0	29.5	7.0		29.7		27.5	
TMCLKL	HY/2012/07	2017-12-08	Mid-Ebb	IS(Mf)16	16:04	Surface	1	21.3	8.1	31.6	7.0	7.0	5.8	5.7	9.4	10.2
TMCLKL	HY/2012/07	2017-12-08	Mid-Ebb	IS(Mf)16	16:04	Surface	2	21.2	8.1	31.8	7.0		5.8		8.9	
TMCLKL	HY/2012/07	2017-12-08	Mid-Ebb	IS(Mf)16		Middle	1									
TMCLKL	HY/2012/07	2017-12-08	Mid-Ebb	IS(Mf)16		Middle	2					7.0		5.7		10.2
TMCLKL	HY/2012/07	2017-12-08	Mid-Ebb	IS(Mf)16	16:04	Bottom	1	21.3	8.1	31.6	7.0		5.5		11.6	
TMCLKL	HY/2012/07	2017-12-08	Mid-Ebb	IS(Mf)16	16:04	Bottom	2	21.2	8.1	31.8	7.0	7.1	5.6	7.6	10.9	13.4
TMCLKL	HY/2012/07	2017-12-08	Mid-Ebb	SR4a	15:53	Surface	1	21.2	8.1	31.6	7.1		7.6		13.0	
TMCLKL	HY/2012/07	2017-12-08	Mid-Ebb	SR4a	15:53	Surface	2	21.1	8.1	31.8	7.1		7.6		13.3	
TMCLKL	HY/2012/07	2017-12-08	Mid-Ebb	SR4a		Middle	1					7.1		7.6		13.4
TMCLKL	HY/2012/07	2017-12-08	Mid-Ebb	SR4a		Middle	2									
TMCLKL	HY/2012/07	2017-12-08	Mid-Ebb	SR4a	15:53	Bottom	1	21.2	8.1	31.6	7.1	7.1	7.6	7.6	13.9	18.7
TMCLKL	HY/2012/07	2017-12-08	Mid-Ebb	SR4a	15:53	Bottom	2	21.1	8.1	31.7	7.1		7.6		13.2	
TMCLKL	HY/2012/07	2017-12-08	Mid-Ebb	SR4	15:48	Surface	1	21.4	8.1	31.8	7.0	7.0	10.0	10.1	19.3	18.7
TMCLKL	HY/2012/07	2017-12-08	Mid-Ebb	SR4	15:48	Surface	2	21.3	8.1	31.9	7.0		10.0		18.3	
TMCLKL	HY/2012/07	2017-12-08	Mid-Ebb	SR4		Middle	1									
TMCLKL	HY/2012/07	2017-12-08	Mid-Ebb	SR4		Middle	2					7.0		10.1		18.7
TMCLKL	HY/2012/07	2017-12-08	Mid-Ebb	SR4	15:48	Bottom	1	21.4	8.1	31.8	7.0		10.1		19.2	
TMCLKL	HY/2012/07	2017-12-08	Mid-Ebb	SR4	15:48	Bottom	2	21.3	8.1	31.9	7.0	7.0	10.1	19.5	17.8	15.4
TMCLKL	HY/2012/07	2017-12-08	Mid-Ebb	IS8	15:41	Surface	1	21.4	8.1	31.7	7.0		19.3		13.9	
TMCLKL	HY/2012/07	2017-12-08	Mid-Ebb	IS8	15:41	Surface	2	21.3	8.1	31.8	7.0		19.4		12.1	
TMCLKL	HY/2012/07	2017-12-08	Mid-Ebb	IS8		Middle	1					7.0		19.5		15.4
TMCLKL	HY/2012/07	2017-12-08	Mid-Ebb	IS8		Middle	2									
TMCLKL	HY/2012/07	2017-12-08	Mid-Ebb	IS8	15:41	Bottom	1	21.4	8.1	31.6	7.0	7.0	19.6	19.5	17.1	15.4
TMCLKL	HY/2012/07	2017-12-08	Mid-Ebb	IS8	15:41	Bottom	2	21.3	8.1	31.8	7.0		19.6		18.5	
TMCLKL	HY/2012/07	2017-12-08	Mid-Ebb	IS(Mf)9	15:31	Surface	1	21.3	8.1	31.8	7.0	7.0	6.5	6.6	12.9	13.7
TMCLKL	HY/2012/07	2017-12-08	Mid-Ebb	IS(Mf)9	15:31	Surface	2	21.2	8.1	32.0	7.0		6.5		13.0	
TMCLKL	HY/2012/07	2017-12-08	Mid-Ebb	IS(Mf)9		Middle	1									
TMCLKL	HY/2012/07	2017-12-08	Mid-Ebb	IS(Mf)9		Middle	2					7.1		6.6		13.7
TMCLKL	HY/2012/07	2017-12-08	Mid-Ebb	IS(Mf)9	15:31	Bottom	1	21.3	8.1	31.9	7.1		6.6		14.0	
TMCLKL	HY/2012/07	2017-12-08	Mid-Ebb	IS(Mf)9	15:31	Bottom	2	21.2	8.1	32.0	7.0	6.7	14.8			

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	2017-12-08	Mid-Flood	CS(Mf)5	10:22	Surface	1	21.4	8.2	31.7	6.8	6.8	8.0	7.6	14.0	14.5
TMCLKL	HY/2012/07	2017-12-08	Mid-Flood	CS(Mf)5	10:22	Surface	2	21.3	8.1	31.9	6.8		7.4		15.2	
TMCLKL	HY/2012/07	2017-12-08	Mid-Flood	CS(Mf)5	10:22	Middle	1	21.4	8.2	31.7	6.8	8.2	14.9			
TMCLKL	HY/2012/07	2017-12-08	Mid-Flood	CS(Mf)5	10:22	Middle	2	21.3	8.1	31.9	6.8	7.4	14.2			
TMCLKL	HY/2012/07	2017-12-08	Mid-Flood	CS(Mf)5	10:22	Bottom	1	21.4	8.2	31.7	6.8	7.7	14.6			
TMCLKL	HY/2012/07	2017-12-08	Mid-Flood	CS(Mf)5	10:22	Bottom	2	21.3	8.1	31.9	6.8	7.1	13.8			
TMCLKL	HY/2012/07	2017-12-08	Mid-Flood	CS(Mf)3(N)	12:16	Surface	1	21.1	8.1	31.1	6.8	6.8	21.6	23.9	24.7	25.3
TMCLKL	HY/2012/07	2017-12-08	Mid-Flood	CS(Mf)3(N)	12:16	Surface	2	21.4	7.9	30.1	6.8		21.2		25.6	
TMCLKL	HY/2012/07	2017-12-08	Mid-Flood	CS(Mf)3(N)	12:16	Middle	1	21.1	8.1	31.2	6.8	24.1	24.8			
TMCLKL	HY/2012/07	2017-12-08	Mid-Flood	CS(Mf)3(N)	12:16	Middle	2	21.4	7.9	30.1	6.8	23.1	25.0			
TMCLKL	HY/2012/07	2017-12-08	Mid-Flood	CS(Mf)3(N)	12:16	Bottom	1	21.1	8.1	31.2	6.7	27.1	25.3			
TMCLKL	HY/2012/07	2017-12-08	Mid-Flood	CS(Mf)3(N)	12:16	Bottom	2	21.4	7.9	30.1	6.8	26.4	26.2			
TMCLKL	HY/2012/07	2017-12-08	Mid-Flood	IS(Mf)16	10:48	Surface	1	21.2	8.1	31.6	6.9	6.9	9.0	8.8	11.2	13.2
TMCLKL	HY/2012/07	2017-12-08	Mid-Flood	IS(Mf)16	10:48	Surface	2	21.1	8.1	31.8	6.9		9.0		10.4	
TMCLKL	HY/2012/07	2017-12-08	Mid-Flood	IS(Mf)16		Middle	1									
TMCLKL	HY/2012/07	2017-12-08	Mid-Flood	IS(Mf)16		Middle	2									
TMCLKL	HY/2012/07	2017-12-08	Mid-Flood	IS(Mf)16	10:48	Bottom	1	21.2	8.1	31.6	6.9	8.5	15.9			
TMCLKL	HY/2012/07	2017-12-08	Mid-Flood	IS(Mf)16	10:48	Bottom	2	21.1	8.1	31.8	6.9	8.8	15.2			
TMCLKL	HY/2012/07	2017-12-08	Mid-Flood	SR4a	10:56	Surface	1	21.2	8.1	31.8	6.9	6.9	11.4	11.4	15.4	16.0
TMCLKL	HY/2012/07	2017-12-08	Mid-Flood	SR4a	10:56	Surface	2	21.1	8.1	32.0	6.9		11.8		15.2	
TMCLKL	HY/2012/07	2017-12-08	Mid-Flood	SR4a		Middle	1									
TMCLKL	HY/2012/07	2017-12-08	Mid-Flood	SR4a		Middle	2									
TMCLKL	HY/2012/07	2017-12-08	Mid-Flood	SR4a	10:56	Bottom	1	21.2	8.1	31.8	6.9	11.1	16.9			
TMCLKL	HY/2012/07	2017-12-08	Mid-Flood	SR4a	10:56	Bottom	2	21.1	8.1	32.0	6.9	11.1	16.3			
TMCLKL	HY/2012/07	2017-12-08	Mid-Flood	SR4	11:00	Surface	1	21.1	8.1	32.0	6.8	6.8	15.5	15.4	21.1	21.7
TMCLKL	HY/2012/07	2017-12-08	Mid-Flood	SR4	11:00	Surface	2	21.0	8.1	32.1	6.8		15.5		21.3	
TMCLKL	HY/2012/07	2017-12-08	Mid-Flood	SR4		Middle	1									
TMCLKL	HY/2012/07	2017-12-08	Mid-Flood	SR4		Middle	2									
TMCLKL	HY/2012/07	2017-12-08	Mid-Flood	SR4	11:00	Bottom	1	21.1	8.1	32.0	6.8	15.3	22.4			
TMCLKL	HY/2012/07	2017-12-08	Mid-Flood	SR4	11:00	Bottom	2	21.0	8.1	32.1	6.8	15.3	22.1			
TMCLKL	HY/2012/07	2017-12-08	Mid-Flood	IS8	11:12	Surface	1	21.2	8.1	32.0	6.9	6.9	21.8	22.0	32.7	32.8
TMCLKL	HY/2012/07	2017-12-08	Mid-Flood	IS8	11:12	Surface	2	21.1	8.1	32.2	6.9		21.8		32.3	
TMCLKL	HY/2012/07	2017-12-08	Mid-Flood	IS8		Middle	1									
TMCLKL	HY/2012/07	2017-12-08	Mid-Flood	IS8		Middle	2									
TMCLKL	HY/2012/07	2017-12-08	Mid-Flood	IS8	11:12	Bottom	1	21.2	8.1	32.0	6.9	22.1	33.5			
TMCLKL	HY/2012/07	2017-12-08	Mid-Flood	IS8	11:12	Bottom	2	21.1	8.1	32.2	6.9	22.1	32.5			
TMCLKL	HY/2012/07	2017-12-08	Mid-Flood	IS(Mf)9		Surface	1					7.0		10.6		14.0
TMCLKL	HY/2012/07	2017-12-08	Mid-Flood	IS(Mf)9		Surface	2									
TMCLKL	HY/2012/07	2017-12-08	Mid-Flood	IS(Mf)9	11:20	Middle	1	21.2	8.1	32.1	7.0	10.6	14.4			
TMCLKL	HY/2012/07	2017-12-08	Mid-Flood	IS(Mf)9	11:20	Middle	2	21.1	8.1	32.2	7.0	10.6	13.6			
TMCLKL	HY/2012/07	2017-12-08	Mid-Flood	IS(Mf)9		Bottom	1									
TMCLKL	HY/2012/07	2017-12-08	Mid-Flood	IS(Mf)9		Bottom	2									

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

Photo 1 - Mid-Flood at IS8 on 8 December 2017





WQMS	X	Y
Impact Station		
IS8	814251	818412
IS(Mf)9	813273	818850
IS(Mf)16	814328	819497
Control / Far Field Station		
CS(Mf)5	817990	821129
CS(Mf)3(N)	808814	822355
Sensitive Receiver Station		
SR4	814760	817867
SR4a	815247	818067

**Key**

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

Locations of Water Quality Monitoring Stations