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	4	132
	Limit	0	15
Impact Dolphin Monitoring	Action	0	9
	Limit	1	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 (November 2017)	1	0	0
Total No. received since project commencement	11	0	0

Email message

Environmental Resources Management

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

To	Ramboll Environ – 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 November 2017

Dear Sir/ Madam,

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

Action Level Exceedance
0215660_6 November 2017_Depth-averaged SS_F_Station IS(Mf)9

A total of one (1) exceedance was recorded on 14 November 2017.

Regards,

Mr Jovy Tam
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

Log No.	**Action Level Exceedance** **0215660_6 November 2017_Depth-averaged SS_F_Station IS(Mf)9** **[Total No. of Exceedances = 1]**	
Date	6 November 2017 (Measured) 7 November 2017 (*In situ* results received by ERM) 14 November 2017 (Laboratory results received by ERM)	
Monitoring Station	CS(Mf)5, SR4a, SR4, IS8, IS(Mf)16, IS(Mf)9, CS(Mf)3(N)	
Parameter(s) with Exceedance(s)	Depth-averaged Suspended Solids (SS)	
Action Levels for SS	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).
Limit Levels for SS	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)
Measured Levels	Action Level Exceedance 1. Mid-flood at IS(Mf)9 (Depth-averaged SS = 23.7mg/L).	
Works Undertaken (at the time of monitoring event)	No major marine works was undertaken under this Contract on 6 November 2017.	
Possible Reason for Action or Limit Level Exceedance(s)	The exceedance of depth-averaged SS is unlikely to be due to the Project, in view of the following: • No marine works was undertaken under this Contract on 6 November 2017. • Apart from IS(Mf)9, 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. Depth-averaged SS levels at IS(Mf)9 at mid-ebb tides were similar to those at other stations apart from the marginal exceedance observed at mid-flood tide. • 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.	
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 6 November 2017 and locations of water quality monitoring stations are attached. Site photo record on 6 November 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	2017-11-06	Mid-Ebb	CS(Mf)5	14:01	Surface	1	25.2	8	32.6	6.1	6.1	3.5	4.1	8.6	8.6
TMCLKL	HY/2012/07	2017-11-06	Mid-Ebb	CS(Mf)5	14:01	Surface	2	25.4	7.9	32.4	6.1		3.5		8.5	
TMCLKL	HY/2012/07	2017-11-06	Mid-Ebb	CS(Mf)5	14:01	Middle	1	25.1	8	32.6	6.1		4.4		8.6	
TMCLKL	HY/2012/07	2017-11-06	Mid-Ebb	CS(Mf)5	14:01	Middle	2	25.3	7.9	32.4	6.1		4.4		8.9	
TMCLKL	HY/2012/07	2017-11-06	Mid-Ebb	CS(Mf)5	14:01	Bottom	1	25.1	8	32.6	6.1	6.1	4.4		8	
TMCLKL	HY/2012/07	2017-11-06	Mid-Ebb	CS(Mf)5	14:01	Bottom	2	25.3	7.9	32.4	6.1		4.3		9.2	
TMCLKL	HY/2012/07	2017-11-06	Mid-Ebb	CS(Mf)3(N)	12:57	Surface	1	24.4	8.1	32.4	6.5	6.6	19.9	20.6	15.7	20.0
TMCLKL	HY/2012/07	2017-11-06	Mid-Ebb	CS(Mf)3(N)	12:57	Surface	2	24.6	8	32.5	6.6		20.9		16.3	
TMCLKL	HY/2012/07	2017-11-06	Mid-Ebb	CS(Mf)3(N)	12:57	Middle	1	24.3	8.1	32.4	6.5		20.9		21.2	
TMCLKL	HY/2012/07	2017-11-06	Mid-Ebb	CS(Mf)3(N)	12:57	Middle	2	24.6	8	32.5	6.6		21.2		21.5	
TMCLKL	HY/2012/07	2017-11-06	Mid-Ebb	CS(Mf)3(N)	12:57	Bottom	1	24.4	8	32.5	6.5	6.6	20.2		22.3	
TMCLKL	HY/2012/07	2017-11-06	Mid-Ebb	CS(Mf)3(N)	12:57	Bottom	2	24.6	8	32.6	6.6		20.6		22.7	
TMCLKL	HY/2012/07	2017-11-06	Mid-Ebb	IS(Mf)16	13:34	Surface	1	24.9	8.1	32.6	6.7	6.7	4.8	5.2	8.7	9.7
TMCLKL	HY/2012/07	2017-11-06	Mid-Ebb	IS(Mf)16	13:34	Surface	2	25.1	8	32.3	6.7		4.8		9.1	
TMCLKL	HY/2012/07	2017-11-06	Mid-Ebb	IS(Mf)16	13:34	Middle	1	24.8	8.1	32.6	6.7		5.2		9.6	
TMCLKL	HY/2012/07	2017-11-06	Mid-Ebb	IS(Mf)16	13:34	Middle	2	25	8	32.3	6.7		5.3		8.7	
TMCLKL	HY/2012/07	2017-11-06	Mid-Ebb	IS(Mf)16	13:34	Bottom	1	24.7	8.1	32.6	6.7	6.7	5.6		11.5	
TMCLKL	HY/2012/07	2017-11-06	Mid-Ebb	IS(Mf)16	13:34	Bottom	2	24.8	8	32.3	6.6		5.6		10.4	
TMCLKL	HY/2012/07	2017-11-06	Mid-Ebb	SR4a	13:22	Surface	1	24.9	8	32.5	6.4	6.4	9.4	9.3	13.1	13.9
TMCLKL	HY/2012/07	2017-11-06	Mid-Ebb	SR4a	13:22	Surface	2	25	7.9	32.3	6.4		9.4		13.4	
TMCLKL	HY/2012/07	2017-11-06	Mid-Ebb	SR4a		Middle	1									
TMCLKL	HY/2012/07	2017-11-06	Mid-Ebb	SR4a		Middle	2									
TMCLKL	HY/2012/07	2017-11-06	Mid-Ebb	SR4a	13:22	Bottom	1	24.9	8	32.5	6.4	6.4	9.2		14.5	
TMCLKL	HY/2012/07	2017-11-06	Mid-Ebb	SR4a	13:22	Bottom	2	25	7.9	32.3	6.4		9.2		14.5	
TMCLKL	HY/2012/07	2017-11-06	Mid-Ebb	SR4	13:18	Surface	1	24.9	8	32.5	6.4	6.4	10.5	10.6	15.9	16.0
TMCLKL	HY/2012/07	2017-11-06	Mid-Ebb	SR4	13:18	Surface	2	25.1	7.9	32.3	6.3		10.5		15.9	
TMCLKL	HY/2012/07	2017-11-06	Mid-Ebb	SR4		Middle	1									
TMCLKL	HY/2012/07	2017-11-06	Mid-Ebb	SR4		Middle	2									
TMCLKL	HY/2012/07	2017-11-06	Mid-Ebb	SR4	13:18	Bottom	1	24.9	8	32.5	6.4	6.4	10.7		16.5	
TMCLKL	HY/2012/07	2017-11-06	Mid-Ebb	SR4	13:18	Bottom	2	25	7.9	32.3	6.3		10.7		15.5	
TMCLKL	HY/2012/07	2017-11-06	Mid-Ebb	IS8	13:11	Surface	1	24.8	8	32.6	6.6	6.6	9.7	10.8	8.7	10.6
TMCLKL	HY/2012/07	2017-11-06	Mid-Ebb	IS8	13:11	Surface	2	25	7.9	32.3	6.6		9.8		9.7	
TMCLKL	HY/2012/07	2017-11-06	Mid-Ebb	IS8		Middle	1									
TMCLKL	HY/2012/07	2017-11-06	Mid-Ebb	IS8		Middle	2									
TMCLKL	HY/2012/07	2017-11-06	Mid-Ebb	IS8	13:11	Bottom	1	24.7	8	32.6	6.6	6.6	11.8		11.5	
TMCLKL	HY/2012/07	2017-11-06	Mid-Ebb	IS8	13:11	Bottom	2	24.9	8	32.3	6.5		11.8		12.4	
TMCLKL	HY/2012/07	2017-11-06	Mid-Ebb	IS(Mf)9	13:04	Surface	1	24.5	8	32.5	6.4	6.4	10.2	10.1	6.5	6.7
TMCLKL	HY/2012/07	2017-11-06	Mid-Ebb	IS(Mf)9	13:04	Surface	2	24.7	7.9	32.2	6.4		10.1		6.5	
TMCLKL	HY/2012/07	2017-11-06	Mid-Ebb	IS(Mf)9		Middle	1									
TMCLKL	HY/2012/07	2017-11-06	Mid-Ebb	IS(Mf)9		Middle	2									
TMCLKL	HY/2012/07	2017-11-06	Mid-Ebb	IS(Mf)9	13:04	Bottom	1	24.5	8	32.5	6.4	6.4	10		7.1	
TMCLKL	HY/2012/07	2017-11-06	Mid-Ebb	IS(Mf)9	13:04	Bottom	2	24.7	7.9	32.3	6.4		10		6.6	

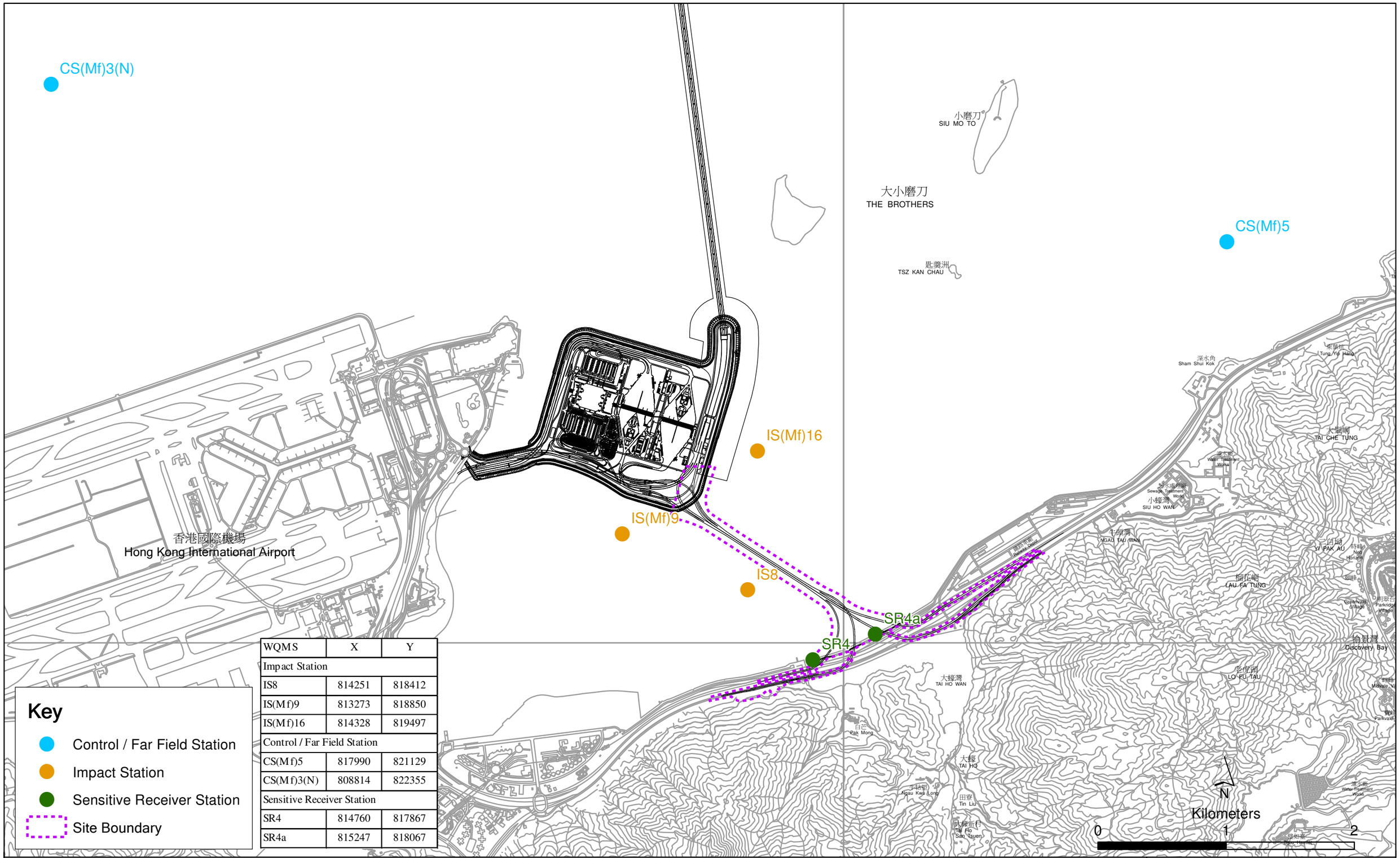
Project	Works	Date (yyyy-mm-dd)	Tide	Station	Start Time	Level	Replicate	Temperature (°C)	pH	Salinity (ppt)	DO (mg/L)	Average DO (mg/L)	Turbidity (NTU)	Depth-Averaged Turbidity	SS (mg/L)	Depth-Averaged SS
TMCLKL	HY/2012/07	2017-11-06	Mid-Flood	CS(Mf)5	8:05	Surface	1	24.8	8	32.2	6.4	6.4	5.4	6.2	8.9	11.9
TMCLKL	HY/2012/07	2017-11-06	Mid-Flood	CS(Mf)5	8:05	Surface	2	24.6	8	32.5	6.4		5.3		9	
TMCLKL	HY/2012/07	2017-11-06	Mid-Flood	CS(Mf)5	8:05	Middle	1	24.8	7.9	32.2	6.4		6.2		10	
TMCLKL	HY/2012/07	2017-11-06	Mid-Flood	CS(Mf)5	8:05	Middle	2	24.6	8	32.5	6.4		6.2		9.3	
TMCLKL	HY/2012/07	2017-11-06	Mid-Flood	CS(Mf)5	8:05	Bottom	1	24.8	7.9	32.3	6.4	6.4	6.9		16.4	
TMCLKL	HY/2012/07	2017-11-06	Mid-Flood	CS(Mf)5	8:05	Bottom	2	24.7	8	32.5	6.4		6.9		17.7	
TMCLKL	HY/2012/07	2017-11-06	Mid-Flood	CS(Mf)3(N)	9:13	Surface	1	24.5	8	31.5	6.5	6.5	18.5	21.5	18.9	20.5
TMCLKL	HY/2012/07	2017-11-06	Mid-Flood	CS(Mf)3(N)	9:13	Surface	2	24.7	8	31.7	6.4		19.3		18.4	
TMCLKL	HY/2012/07	2017-11-06	Mid-Flood	CS(Mf)3(N)	9:13	Middle	1	24.5	8	31.5	6.4		20.6		21.4	
TMCLKL	HY/2012/07	2017-11-06	Mid-Flood	CS(Mf)3(N)	9:13	Middle	2	24.7	8	31.7	6.6		20.8		20	
TMCLKL	HY/2012/07	2017-11-06	Mid-Flood	CS(Mf)3(N)	9:13	Bottom	1	24.5	8	31.6	6.4	6.4	24.6		21.6	
TMCLKL	HY/2012/07	2017-11-06	Mid-Flood	CS(Mf)3(N)	9:13	Bottom	2	24.7	8	31.7	6.4		25.1		22.6	
TMCLKL	HY/2012/07	2017-11-06	Mid-Flood	IS(Mf)16	8:29	Surface	1	24.5	8	32.3	6.5	6.5	13.9	14.1	15.6	16.7
TMCLKL	HY/2012/07	2017-11-06	Mid-Flood	IS(Mf)16	8:29	Surface	2	24.4	8	32.5	6.5		13.9		15.3	
TMCLKL	HY/2012/07	2017-11-06	Mid-Flood	IS(Mf)16		Middle	1									
TMCLKL	HY/2012/07	2017-11-06	Mid-Flood	IS(Mf)16		Middle	2									
TMCLKL	HY/2012/07	2017-11-06	Mid-Flood	IS(Mf)16	8:29	Bottom	1	24.5	8	32.3	6.5	6.5	14.3		18.1	
TMCLKL	HY/2012/07	2017-11-06	Mid-Flood	IS(Mf)16	8:29	Bottom	2	24.4	8	32.5	6.5		14.2		17.9	
TMCLKL	HY/2012/07	2017-11-06	Mid-Flood	SR4a	8:39	Surface	1	24.8	7.9	32.3	6.3	6.3	18.2	19.5	20.7	21.4
TMCLKL	HY/2012/07	2017-11-06	Mid-Flood	SR4a	8:39	Surface	2	24.6	8	32.5	6.3		18.2		22.2	
TMCLKL	HY/2012/07	2017-11-06	Mid-Flood	SR4a		Middle	1									
TMCLKL	HY/2012/07	2017-11-06	Mid-Flood	SR4a		Middle	2									
TMCLKL	HY/2012/07	2017-11-06	Mid-Flood	SR4a	8:39	Bottom	1	24.8	7.9	32.3	6.3	6.3	20.8		21.3	
TMCLKL	HY/2012/07	2017-11-06	Mid-Flood	SR4a	8:39	Bottom	2	24.6	8	32.5	6.3		20.6		21.2	
TMCLKL	HY/2012/07	2017-11-06	Mid-Flood	SR4	8:43	Surface	1	24.8	7.9	32.3	6.3	6.3	20.6	19.3	16.9	17.3
TMCLKL	HY/2012/07	2017-11-06	Mid-Flood	SR4	8:43	Surface	2	24.6	8	32.5	6.3		20.1		16.4	
TMCLKL	HY/2012/07	2017-11-06	Mid-Flood	SR4		Middle	1									
TMCLKL	HY/2012/07	2017-11-06	Mid-Flood	SR4		Middle	2									
TMCLKL	HY/2012/07	2017-11-06	Mid-Flood	SR4	8:43	Bottom	1	24.8	7.9	32.3	6.3	6.3	18.2		17.8	
TMCLKL	HY/2012/07	2017-11-06	Mid-Flood	SR4	8:43	Bottom	2	24.6	8	32.5	6.3		18.2		18.1	
TMCLKL	HY/2012/07	2017-11-06	Mid-Flood	IS8	9:00	Surface	1	24.8	7.9	32.3	6.4	6.4	17	17.2	17.9	19.6
TMCLKL	HY/2012/07	2017-11-06	Mid-Flood	IS8	9:00	Surface	2	24.6	8	32.6	6.4		17		16.8	
TMCLKL	HY/2012/07	2017-11-06	Mid-Flood	IS8		Middle	1									
TMCLKL	HY/2012/07	2017-11-06	Mid-Flood	IS8		Middle	2									
TMCLKL	HY/2012/07	2017-11-06	Mid-Flood	IS8	9:00	Bottom	1	24.8	7.9	32.3	6.4	6.4	17.4		22.5	
TMCLKL	HY/2012/07	2017-11-06	Mid-Flood	IS8	9:00	Bottom	2	24.6	8	32.6	6.4		17.4		21.1	
TMCLKL	HY/2012/07	2017-11-06	Mid-Flood	IS(Mf)9	9:08	Surface	1	24.6	7.9	32.2	6.5	6.5	13.9	15.3	20.8	23.7
TMCLKL	HY/2012/07	2017-11-06	Mid-Flood	IS(Mf)9	9:08	Surface	2	24.4	8	32.4	6.5		13.8		21.8	
TMCLKL	HY/2012/07	2017-11-06	Mid-Flood	IS(Mf)9		Middle	1									
TMCLKL	HY/2012/07	2017-11-06	Mid-Flood	IS(Mf)9		Middle	2									
TMCLKL	HY/2012/07	2017-11-06	Mid-Flood	IS(Mf)9	9:08	Bottom	1	24.6	7.9	32.2	6.4	6.4	16.7		25.6	
TMCLKL	HY/2012/07	2017-11-06	Mid-Flood	IS(Mf)9	9:08	Bottom	2	24.4	8	32.5	6.4		16.7		26.5	

Note:

Indicates Exceedance of Action Level

Indicates Exceedance of Limit Level

Photo 1 - Mid-Flood at IS(Mf)9 on 6 November 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

File: T:\GIS\CONTRACT\0215660\Mxd\0215660_WQMS.mxd
Date: 28/4/2017

Environmental Resources Management

ERM

Email message

Environmental Resources Management

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

To	Ramboll Environ – 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	16 November 2017

ERM

Dear Sir/ Madam,

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

Action Level Exceedance
0215660_8 November 2017_Depth-averaged SS_F_Station SR4

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

Regards,

Mr Jovy Tam
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

Log No.	**Action Level Exceedance** **0215660_8 November 2017_Depth-averaged SS_F_Station SR4** **[Total No. of Exceedances = 1]**	
Date	8 November 2017 (Measured) 9 November 2017 (*In situ* results received by ERM) 16 November 2017 (Laboratory results received by ERM)	
Monitoring Station	CS(Mf)5, SR4a, SR4, IS8, IS(Mf)16, IS(Mf)9, CS(Mf)3(N)	
Parameter(s) with Exceedance(s)	Depth-averaged Suspended Solids (SS)	
Action Levels for SS	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).
Limit Levels for SS	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)
Measured Levels	Action Level Exceedance 1. Mid-flood at SR4 (Depth-averaged SS = 26.7mg/L).	
Works Undertaken (at the time of monitoring event)	No major marine works was undertaken under this Contract on 8 November 2017.	
Possible Reason for Action or Limit Level Exceedance(s)	The exceedance of depth-averaged SS is unlikely to be due to the Project, in view of the following: • No marine works was undertaken under this Contract on 8 November 2017. • Apart from SR4, 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. • 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.	
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 8 November 2017 and locations of water quality monitoring stations are attached. Site photo record on 8 November 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	2017-11-08	Mid-Ebb	CS(Mf)5	15:47	Surface	1	25.0	8.0	32.2	6.1	6.1	5.4	5.6	7.8	8.7
TMCLKL	HY/2012/07	2017-11-08	Mid-Ebb	CS(Mf)5	15:47	Surface	2	24.9	8.0	32.4	6.1		5.4		7.1	
TMCLKL	HY/2012/07	2017-11-08	Mid-Ebb	CS(Mf)5	15:47	Middle	1	25.0	8.0	32.3	6.1		5.7		10.1	
TMCLKL	HY/2012/07	2017-11-08	Mid-Ebb	CS(Mf)5	15:47	Middle	2	24.9	8.0	32.5	6.1		5.7		8.7	
TMCLKL	HY/2012/07	2017-11-08	Mid-Ebb	CS(Mf)5	15:47	Bottom	1	25.0	8.0	32.2	6.1	6.1	5.6		8.8	
TMCLKL	HY/2012/07	2017-11-08	Mid-Ebb	CS(Mf)5	15:47	Bottom	2	24.9	8.0	32.5	6.1		5.6		9.6	
TMCLKL	HY/2012/07	2017-11-08	Mid-Ebb	CS(Mf)3(N)	14:38	Surface	1	24.5	8.1	32.1	6.5	6.5	15.0	19.8	15.8	19.9
TMCLKL	HY/2012/07	2017-11-08	Mid-Ebb	CS(Mf)3(N)	14:38	Surface	2	24.2	8.1	32.2	6.5		14.0		16.1	
TMCLKL	HY/2012/07	2017-11-08	Mid-Ebb	CS(Mf)3(N)	14:38	Middle	1	24.5	8.1	32.1	6.5		19.4		19.6	
TMCLKL	HY/2012/07	2017-11-08	Mid-Ebb	CS(Mf)3(N)	14:38	Middle	2	24.2	8.1	32.2	6.5		18.7		20.8	
TMCLKL	HY/2012/07	2017-11-08	Mid-Ebb	CS(Mf)3(N)	14:38	Bottom	1	24.4	8.1	32.1	6.4	6.5	25.9		24.0	
TMCLKL	HY/2012/07	2017-11-08	Mid-Ebb	CS(Mf)3(N)	14:38	Bottom	2	24.2	8.1	32.2	6.5		25.7		23.0	
TMCLKL	HY/2012/07	2017-11-08	Mid-Ebb	IS(Mf)16	15:22	Surface	1	24.8	8.0	32.0	6.8	6.7	6.5	11.6	8.5	8.0
TMCLKL	HY/2012/07	2017-11-08	Mid-Ebb	IS(Mf)16	15:22	Surface	2	24.7	8.0	32.2	6.8		6.6		7.3	
TMCLKL	HY/2012/07	2017-11-08	Mid-Ebb	IS(Mf)16	15:22	Middle	1	24.5	8.0	32.0	6.5		9.0		7.7	
TMCLKL	HY/2012/07	2017-11-08	Mid-Ebb	IS(Mf)16	15:22	Middle	2	24.4	8.0	32.2	6.5		9.0		7.4	
TMCLKL	HY/2012/07	2017-11-08	Mid-Ebb	IS(Mf)16	15:22	Bottom	1	24.7	8.0	32.0	6.5	6.5	19.1		8.3	
TMCLKL	HY/2012/07	2017-11-08	Mid-Ebb	IS(Mf)16	15:22	Bottom	2	24.5	8.0	32.2	6.5		19.1		8.7	
TMCLKL	HY/2012/07	2017-11-08	Mid-Ebb	SR4a	15:11	Surface	1	25.0	7.9	32.0	6.5	6.5	11.8	12.0	10.8	11.4
TMCLKL	HY/2012/07	2017-11-08	Mid-Ebb	SR4a	15:11	Surface	2	24.8	8.0	32.2	6.5		11.8		10.8	
TMCLKL	HY/2012/07	2017-11-08	Mid-Ebb	SR4a		Middle	1									
TMCLKL	HY/2012/07	2017-11-08	Mid-Ebb	SR4a		Middle	2									
TMCLKL	HY/2012/07	2017-11-08	Mid-Ebb	SR4a	15:11	Bottom	1	25.0	7.9	32.0	6.6	6.6	12.1		11.7	
TMCLKL	HY/2012/07	2017-11-08	Mid-Ebb	SR4a	15:11	Bottom	2	24.8	8.0	32.2	6.6		12.2		12.3	
TMCLKL	HY/2012/07	2017-11-08	Mid-Ebb	SR4	15:04	Surface	1	24.7	7.9	32.0	6.2	6.3	19.0	19.1	20.8	22.5
TMCLKL	HY/2012/07	2017-11-08	Mid-Ebb	SR4	15:04	Surface	2	24.6	8.0	32.2	6.3		19.0		22.0	
TMCLKL	HY/2012/07	2017-11-08	Mid-Ebb	SR4		Middle	1									
TMCLKL	HY/2012/07	2017-11-08	Mid-Ebb	SR4		Middle	2									
TMCLKL	HY/2012/07	2017-11-08	Mid-Ebb	SR4	15:04	Bottom	1	24.7	7.9	32.0	6.3	6.3	19.2		23.0	
TMCLKL	HY/2012/07	2017-11-08	Mid-Ebb	SR4	15:04	Bottom	2	24.6	8.0	32.2	6.3		19.2		24.0	
TMCLKL	HY/2012/07	2017-11-08	Mid-Ebb	IS8	14:57	Surface	1	24.8	7.9	32.0	6.3	6.3	11.0	16.3	9.0	9.6
TMCLKL	HY/2012/07	2017-11-08	Mid-Ebb	IS8	14:57	Surface	2	24.7	8.0	32.2	6.3		11.0		10.1	
TMCLKL	HY/2012/07	2017-11-08	Mid-Ebb	IS8		Middle	1									
TMCLKL	HY/2012/07	2017-11-08	Mid-Ebb	IS8		Middle	2									
TMCLKL	HY/2012/07	2017-11-08	Mid-Ebb	IS8	14:57	Bottom	1	24.7	7.9	32.0	6.3	6.3	21.6		10.2	
TMCLKL	HY/2012/07	2017-11-08	Mid-Ebb	IS8	14:57	Bottom	2	24.5	8.0	32.2	6.3		21.6		9.2	
TMCLKL	HY/2012/07	2017-11-08	Mid-Ebb	IS(Mf)9	14:49	Surface	1	24.7	8.0	32.0	6.5	6.4	11.7	14.3	8.0	7.5
TMCLKL	HY/2012/07	2017-11-08	Mid-Ebb	IS(Mf)9	14:49	Surface	2	24.6	8.0	32.2	6.3		11.7		7.1	
TMCLKL	HY/2012/07	2017-11-08	Mid-Ebb	IS(Mf)9		Middle	1									
TMCLKL	HY/2012/07	2017-11-08	Mid-Ebb	IS(Mf)9		Middle	2									
TMCLKL	HY/2012/07	2017-11-08	Mid-Ebb	IS(Mf)9	14:49	Bottom	1	24.5	8.0	32.1	6.2	6.2	16.9		7.2	
TMCLKL	HY/2012/07	2017-11-08	Mid-Ebb	IS(Mf)9	14:49	Bottom	2	24.3	8.0	32.3	6.2		16.9		7.6	

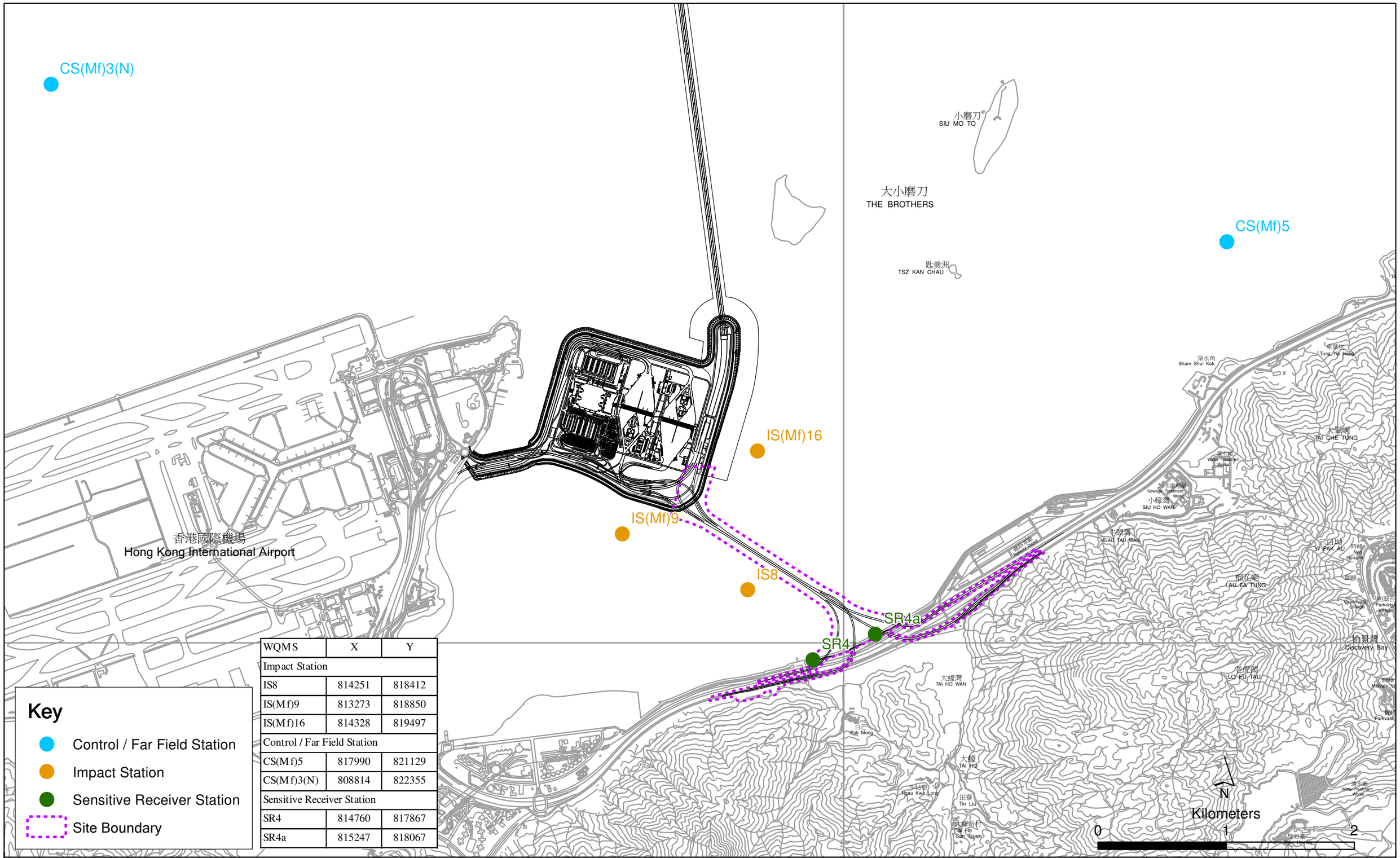
Project	Works	Date (yyyy-mm-dd)	Tide	Station	Start Time	Level	Replicate	Temperature (°C)	pH	Salinity (ppt)	DO (mg/L)	Average DO (mg/L)	Turbidity (NTU)	Depth-Averaged Turbidity	SS (mg/L)	Depth-Averaged SS
TMCLKL	HY/2012/07	2017-11-08	Mid-Flood	CS(Mf)5	9:36	Surface	1	24.5	8.0	31.9	6.4	6.4	3.2	6.4	9.7	10.1
TMCLKL	HY/2012/07	2017-11-08	Mid-Flood	CS(Mf)5	9:36	Surface	2	24.3	8.0	32.1	6.4		3.2		11.1	
TMCLKL	HY/2012/07	2017-11-08	Mid-Flood	CS(Mf)5	9:36	Middle	1	24.5	8.0	32.0	6.3		8.5		10.5	
TMCLKL	HY/2012/07	2017-11-08	Mid-Flood	CS(Mf)5	9:36	Middle	2	24.4	8.0	32.2	6.3		8.5		10.5	
TMCLKL	HY/2012/07	2017-11-08	Mid-Flood	CS(Mf)5	9:36	Bottom	1	24.5	8.0	32.0	6.4	6.4	7.5		9.4	
TMCLKL	HY/2012/07	2017-11-08	Mid-Flood	CS(Mf)5	9:36	Bottom	2	24.4	8.0	32.2	6.3		7.4		9.6	
TMCLKL	HY/2012/07	2017-11-08	Mid-Flood	CS(Mf)3(N)	10:29	Surface	1	24.6	8.0	31.4	6.4	6.4	22.1	25.2	20.4	22.8
TMCLKL	HY/2012/07	2017-11-08	Mid-Flood	CS(Mf)3(N)	10:29	Surface	2	24.3	8.0	31.2	6.4		22.1		20.2	
TMCLKL	HY/2012/07	2017-11-08	Mid-Flood	CS(Mf)3(N)	10:29	Middle	1	24.6	8.0	31.4	6.3		24.8		24.3	
TMCLKL	HY/2012/07	2017-11-08	Mid-Flood	CS(Mf)3(N)	10:29	Middle	2	24.3	8.0	31.3	6.4		25.0		24.6	
TMCLKL	HY/2012/07	2017-11-08	Mid-Flood	CS(Mf)3(N)	10:29	Bottom	1	24.6	8.0	31.5	6.3	6.4	28.7		23.5	
TMCLKL	HY/2012/07	2017-11-08	Mid-Flood	CS(Mf)3(N)	10:29	Bottom	2	24.3	8.0	31.3	6.4		28.4		23.5	
TMCLKL	HY/2012/07	2017-11-08	Mid-Flood	IS(Mf)16	10:03	Surface	1	24.4	8.0	31.9	6.4	6.4	16.6	15.4	11.9	16.5
TMCLKL	HY/2012/07	2017-11-08	Mid-Flood	IS(Mf)16	10:03	Surface	2	24.2	8.0	32.2	6.4		16.6		11.9	
TMCLKL	HY/2012/07	2017-11-08	Mid-Flood	IS(Mf)16		Middle	1									
TMCLKL	HY/2012/07	2017-11-08	Mid-Flood	IS(Mf)16		Middle	2									
TMCLKL	HY/2012/07	2017-11-08	Mid-Flood	IS(Mf)16	10:03	Bottom	1	24.4	8.0	31.9	6.4	6.4	14.1		21.8	
TMCLKL	HY/2012/07	2017-11-08	Mid-Flood	IS(Mf)16	10:03	Bottom	2	24.2	8.0	32.2	6.4		14.2		20.4	
TMCLKL	HY/2012/07	2017-11-08	Mid-Flood	SR4a	10:14	Surface	1	24.5	8.0	32.0	6.2	6.2	18.3	18.4	20.3	22.5
TMCLKL	HY/2012/07	2017-11-08	Mid-Flood	SR4a	10:14	Surface	2	24.3	8.0	32.2	6.2		18.2		21.4	
TMCLKL	HY/2012/07	2017-11-08	Mid-Flood	SR4a		Middle	1									
TMCLKL	HY/2012/07	2017-11-08	Mid-Flood	SR4a		Middle	2									
TMCLKL	HY/2012/07	2017-11-08	Mid-Flood	SR4a	10:14	Bottom	1	24.5	8.0	32.0	6.2	6.2	18.5		24.0	
TMCLKL	HY/2012/07	2017-11-08	Mid-Flood	SR4a	10:14	Bottom	2	24.3	8.0	32.2	6.2		18.5		24.2	
TMCLKL	HY/2012/07	2017-11-08	Mid-Flood	SR4	10:18	Surface	1	24.5	7.9	32.0	6.0	6.0	14.1	17.2	24.7	26.7
TMCLKL	HY/2012/07	2017-11-08	Mid-Flood	SR4	10:18	Surface	2	24.4	8.0	32.2	6.0		14.1		24.3	
TMCLKL	HY/2012/07	2017-11-08	Mid-Flood	SR4		Middle	1									
TMCLKL	HY/2012/07	2017-11-08	Mid-Flood	SR4		Middle	2									
TMCLKL	HY/2012/07	2017-11-08	Mid-Flood	SR4	10:18	Bottom	1	24.5	7.9	32.0	6.0	6.1	20.2		28.1	
TMCLKL	HY/2012/07	2017-11-08	Mid-Flood	SR4	10:18	Bottom	2	24.4	8.0	32.2	6.1		20.2		29.7	
TMCLKL	HY/2012/07	2017-11-08	Mid-Flood	IS8	10:28	Surface	1	24.5	7.9	32.0	6.3	6.3	14.4	18.1	20.5	19.9
TMCLKL	HY/2012/07	2017-11-08	Mid-Flood	IS8	10:28	Surface	2	24.3	8.0	32.2	6.3		14.3		19.0	
TMCLKL	HY/2012/07	2017-11-08	Mid-Flood	IS8		Middle	1									
TMCLKL	HY/2012/07	2017-11-08	Mid-Flood	IS8		Middle	2									
TMCLKL	HY/2012/07	2017-11-08	Mid-Flood	IS8	10:28	Bottom	1	24.5	7.9	32.0	6.3	6.3	21.9		20.8	
TMCLKL	HY/2012/07	2017-11-08	Mid-Flood	IS8	10:28	Bottom	2	24.3	8.0	32.2	6.3		21.9		19.3	
TMCLKL	HY/2012/07	2017-11-08	Mid-Flood	IS(Mf)9	10:36	Surface	1	24.4	7.9	32.1	6.2	6.2	10.0	11.1	19.5	21.5
TMCLKL	HY/2012/07	2017-11-08	Mid-Flood	IS(Mf)9	10:36	Surface	2	24.3	8.0	32.3	6.2		10.0		20.0	
TMCLKL	HY/2012/07	2017-11-08	Mid-Flood	IS(Mf)9		Middle	1									
TMCLKL	HY/2012/07	2017-11-08	Mid-Flood	IS(Mf)9		Middle	2									
TMCLKL	HY/2012/07	2017-11-08	Mid-Flood	IS(Mf)9	10:36	Bottom	1	24.4	7.9	32.1	6.2	6.2	12.3		24.0	
TMCLKL	HY/2012/07	2017-11-08	Mid-Flood	IS(Mf)9	10:36	Bottom	2	24.3	8.0	32.3	6.2		12.2		22.3	

Note:

Indicates Exceedance of Action Level

Indicates Exceedance of Limit Level

Photo 1 - Mid-Flood at SR4 on 8 November 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

File: T:\GIS\CONTRACT\0215660\Mxd\0215660_WQMS.mxd
Date: 28/4/2017

Environmental Resources Management

ERM

Email message

Environmental Resources Management

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

To	Ramboll Environ – 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	21 November 2017

ERM

Dear Sir/ Madam,

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

Action Level Exceedance
0215660_13 November 2017_Depth-averaged SS_F_Station SR4a
0215660_13 November 2017_Depth-averaged SS_F_Station IS(Mf)9

A total of two (2) exceedances were recorded on 13 November 2017.

Regards,

Mr Jovy Tam
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

Log No.	**<u>Action Level Exceedance</u> 0215660_13 November 2017_Depth-averaged SS_F_Station SR4a 0215660_13 November 2017_Depth-averaged SS_F_Station IS(Mf)9 [Total No. of Exceedances = 2]**	
Date	13 November 2017 (Measured) 14 November 2017 (*In situ* results received by ERM) 21 November 2017 (Laboratory results received by ERM)	
Monitoring Station	CS(Mf)5, SR4a, SR4, IS8, IS(Mf)16, IS(Mf)9, CS(Mf)3(N)	
Parameter(s) with Exceedance(s)	Depth-averaged Suspended Solids (SS)	
Action Levels for SS	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).
Limit Levels for SS	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)
Measured Levels	<u>Action Level Exceedance</u> 1. Mid-flood at SR4a (Depth-averaged SS = 29.5mg/L); 2. Mid-flood at IS(Mf)9 (Depth-averaged SS = 23.9mg/L).	
Works Undertaken (at the time of monitoring event)	No major marine works was undertaken under this Contract on 13 November 2017.	
Possible Reason for Action or Limit Level Exceedance(s)	The exceedances of depth-averaged SS are unlikely to be due to the Project, in view of the following: • No marine works was undertaken under this Contract on 13 November 2017. • Apart from SR4a and IS(Mf)9, 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. • 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.	
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 13 November 2017 and locations of water quality monitoring stations are attached. Site photo record on 13 November 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	2017-11-13	Mid-Ebb	CS(Mf)5	8:31	Surface	1	24.5	8.0	31.0	6.2	6.2	3.4	3.4	4.0	3.8
TMCLKL	HY/2012/07	2017-11-13	Mid-Ebb	CS(Mf)5	8:31	Surface	2	24.7	8.0	30.8	6.2		3.5		3.6	
TMCLKL	HY/2012/07	2017-11-13	Mid-Ebb	CS(Mf)5	8:31	Middle	1	24.5	8.0	31.0	6.1		3.4		4.0	
TMCLKL	HY/2012/07	2017-11-13	Mid-Ebb	CS(Mf)5	8:31	Middle	2	24.7	8.0	30.8	6.2		3.4		3.5	
TMCLKL	HY/2012/07	2017-11-13	Mid-Ebb	CS(Mf)5	8:31	Bottom	1	24.6	8.0	31.1	6.1	6.1	3.2		3.8	
TMCLKL	HY/2012/07	2017-11-13	Mid-Ebb	CS(Mf)5	8:31	Bottom	2	24.8	8.0	30.9	6.1		3.3		3.7	
TMCLKL	HY/2012/07	2017-11-13	Mid-Ebb	CS(Mf)3(N)	9:34	Surface	1	24.4	7.9	28.7	6.5	6.5	3.3	5.2	3.8	4.6
TMCLKL	HY/2012/07	2017-11-13	Mid-Ebb	CS(Mf)3(N)	9:34	Surface	2	24.6	7.9	28.9	6.4		3.2		4.2	
TMCLKL	HY/2012/07	2017-11-13	Mid-Ebb	CS(Mf)3(N)	9:34	Middle	1	24.4	7.9	29.4	6.5		5.2		3.9	
TMCLKL	HY/2012/07	2017-11-13	Mid-Ebb	CS(Mf)3(N)	9:34	Middle	2	24.6	7.9	29.6	6.4		5.3		4.5	
TMCLKL	HY/2012/07	2017-11-13	Mid-Ebb	CS(Mf)3(N)	9:34	Bottom	1	24.4	8.0	30.6	6.4	6.4	7.3		5.9	
TMCLKL	HY/2012/07	2017-11-13	Mid-Ebb	CS(Mf)3(N)	9:34	Bottom	2	24.6	8.0	30.9	6.4		7.1		5.4	
TMCLKL	HY/2012/07	2017-11-13	Mid-Ebb	IS(Mf)16	9:02	Surface	1	24.3	8.0	30.8	6.4	6.4	7.5	10.6	6.6	7.3
TMCLKL	HY/2012/07	2017-11-13	Mid-Ebb	IS(Mf)16	9:02	Surface	2	24.5	8.0	30.6	6.4		7.6		6.5	
TMCLKL	HY/2012/07	2017-11-13	Mid-Ebb	IS(Mf)16		Middle	1									
TMCLKL	HY/2012/07	2017-11-13	Mid-Ebb	IS(Mf)16		Middle	2									
TMCLKL	HY/2012/07	2017-11-13	Mid-Ebb	IS(Mf)16	9:02	Bottom	1	24.3	8.0	30.8	6.3	6.3	13.7		7.9	
TMCLKL	HY/2012/07	2017-11-13	Mid-Ebb	IS(Mf)16	9:02	Bottom	2	24.5	8.0	30.6	6.3		13.7		8.0	
TMCLKL	HY/2012/07	2017-11-13	Mid-Ebb	SR4a	9:12	Surface	1	24.5	8.0	30.7	6.0	6.0	13.3	14.0	10.8	11.5
TMCLKL	HY/2012/07	2017-11-13	Mid-Ebb	SR4a	9:12	Surface	2	24.7	8.0	30.5	6.0		13.3		11.5	
TMCLKL	HY/2012/07	2017-11-13	Mid-Ebb	SR4a		Middle	1									
TMCLKL	HY/2012/07	2017-11-13	Mid-Ebb	SR4a		Middle	2									
TMCLKL	HY/2012/07	2017-11-13	Mid-Ebb	SR4a	9:12	Bottom	1	24.5	8.0	30.7	6.0	6.0	14.6		11.1	
TMCLKL	HY/2012/07	2017-11-13	Mid-Ebb	SR4a	9:12	Bottom	2	24.7	8.0	30.5	6.0		14.7		12.4	
TMCLKL	HY/2012/07	2017-11-13	Mid-Ebb	SR4	9:16	Surface	1	24.5	8.0	30.7	5.9	5.9	12.8	14.7	7.2	9.0
TMCLKL	HY/2012/07	2017-11-13	Mid-Ebb	SR4	9:16	Surface	2	24.7	8.0	30.5	5.9		12.8		8.0	
TMCLKL	HY/2012/07	2017-11-13	Mid-Ebb	SR4		Middle	1									
TMCLKL	HY/2012/07	2017-11-13	Mid-Ebb	SR4		Middle	2									
TMCLKL	HY/2012/07	2017-11-13	Mid-Ebb	SR4	9:16	Bottom	1	24.5	8.0	30.7	6.0	6.0	16.6		10.0	
TMCLKL	HY/2012/07	2017-11-13	Mid-Ebb	SR4	9:16	Bottom	2	24.7	8.0	30.5	5.9		16.6		10.6	
TMCLKL	HY/2012/07	2017-11-13	Mid-Ebb	IS8	9:30	Surface	1	24.4	8.0	30.8	6.3	6.3	21.1	21.9	16.7	17.0
TMCLKL	HY/2012/07	2017-11-13	Mid-Ebb	IS8	9:30	Surface	2	24.5	8.0	30.6	6.3		21.4		17.8	
TMCLKL	HY/2012/07	2017-11-13	Mid-Ebb	IS8		Middle	1									
TMCLKL	HY/2012/07	2017-11-13	Mid-Ebb	IS8		Middle	2									
TMCLKL	HY/2012/07	2017-11-13	Mid-Ebb	IS8	9:30	Bottom	1	24.4	8.0	30.8	6.3	6.3	22.6		16.0	
TMCLKL	HY/2012/07	2017-11-13	Mid-Ebb	IS8	9:30	Bottom	2	24.6	8.0	30.6	6.3		22.6		17.3	
TMCLKL	HY/2012/07	2017-11-13	Mid-Ebb	IS(Mf)9	9:39	Surface	1	24.2	8.0	30.8	6.4	6.4	12.5	13.0	10.5	10.1
TMCLKL	HY/2012/07	2017-11-13	Mid-Ebb	IS(Mf)9	9:39	Surface	2	24.4	8.0	30.5	6.4		12.5		10.0	
TMCLKL	HY/2012/07	2017-11-13	Mid-Ebb	IS(Mf)9		Middle	1									
TMCLKL	HY/2012/07	2017-11-13	Mid-Ebb	IS(Mf)9		Middle	2									
TMCLKL	HY/2012/07	2017-11-13	Mid-Ebb	IS(Mf)9	9:39	Bottom	1	24.2	8.0	30.8	6.4	6.4	13.4		10.6	
TMCLKL	HY/2012/07	2017-11-13	Mid-Ebb	IS(Mf)9	9:39	Bottom	2	24.4	8.0	30.5	6.4		13.5		9.4	

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	2017-11-13	Mid-Flood	CS(Mf)5	16:06	Surface	1	24.6	8.0	30.6	6.2	6.2	2.8	4.8	2.1	3.0
TMCLKL	HY/2012/07	2017-11-13	Mid-Flood	CS(Mf)5	16:06	Surface	2	24.8	8.0	30.4	6.2		2.8		2.5	
TMCLKL	HY/2012/07	2017-11-13	Mid-Flood	CS(Mf)5	16:06	Middle	1	24.6	8.0	30.9	6.2		6.8		3.3	
TMCLKL	HY/2012/07	2017-11-13	Mid-Flood	CS(Mf)5	16:06	Middle	2	24.7	8.0	30.7	6.2		6.8		3.1	
TMCLKL	HY/2012/07	2017-11-13	Mid-Flood	CS(Mf)5	16:06	Bottom	1	24.6	8.0	30.9	6.2	6.2	4.6		3.4	
TMCLKL	HY/2012/07	2017-11-13	Mid-Flood	CS(Mf)5	16:06	Bottom	2	24.7	8.0	30.7	6.2		4.8		3.7	
TMCLKL	HY/2012/07	2017-11-13	Mid-Flood	CS(Mf)3(N)	14:56	Surface	1	24.6	7.9	27.3	6.3	6.2	3.1	5.5	2.7	3.0
TMCLKL	HY/2012/07	2017-11-13	Mid-Flood	CS(Mf)3(N)	14:56	Surface	2	24.8	7.8	27.3	6.2		2.8		3.7	
TMCLKL	HY/2012/07	2017-11-13	Mid-Flood	CS(Mf)3(N)	14:56	Middle	1	24.5	7.9	27.9	6.2		6.4		2.7	
TMCLKL	HY/2012/07	2017-11-13	Mid-Flood	CS(Mf)3(N)	14:56	Middle	2	24.8	7.9	27.7	6.2		6.8		2.9	
TMCLKL	HY/2012/07	2017-11-13	Mid-Flood	CS(Mf)3(N)	14:56	Bottom	1	24.5	7.9	27.9	6.2	6.2	6.9		3.2	
TMCLKL	HY/2012/07	2017-11-13	Mid-Flood	CS(Mf)3(N)	14:56	Bottom	2	24.8	7.9	27.7	6.2		6.9		3.0	
TMCLKL	HY/2012/07	2017-11-13	Mid-Flood	IS(Mf)16	15:40	Surface	1	24.4	8.0	30.1	6.4	6.4	7.9	10.3	3.2	3.3
TMCLKL	HY/2012/07	2017-11-13	Mid-Flood	IS(Mf)16	15:40	Surface	2	24.6	8.0	29.9	6.4		7.9		3.3	
TMCLKL	HY/2012/07	2017-11-13	Mid-Flood	IS(Mf)16		Middle	1									
TMCLKL	HY/2012/07	2017-11-13	Mid-Flood	IS(Mf)16		Middle	2									
TMCLKL	HY/2012/07	2017-11-13	Mid-Flood	IS(Mf)16	15:40	Bottom	1	24.5	8.0	30.5	6.4	6.4	12.7		3.5	
TMCLKL	HY/2012/07	2017-11-13	Mid-Flood	IS(Mf)16	15:40	Bottom	2	24.6	8.0	30.3	6.4		12.7		3.0	
TMCLKL	HY/2012/07	2017-11-13	Mid-Flood	SR4a	15:29	Surface	1	24.4	8.0	30.0	6.4	6.4	18.7	19.6	28.6	29.5
TMCLKL	HY/2012/07	2017-11-13	Mid-Flood	SR4a	15:29	Surface	2	24.6	8.0	29.8	6.4		18.7		28.7	
TMCLKL	HY/2012/07	2017-11-13	Mid-Flood	SR4a		Middle	1									
TMCLKL	HY/2012/07	2017-11-13	Mid-Flood	SR4a		Middle	2									
TMCLKL	HY/2012/07	2017-11-13	Mid-Flood	SR4a	15:29	Bottom	1	24.4	8.0	30.0	6.5	6.5	20.4		30.7	
TMCLKL	HY/2012/07	2017-11-13	Mid-Flood	SR4a	15:29	Bottom	2	24.6	8.0	29.8	6.5		20.5		29.8	
TMCLKL	HY/2012/07	2017-11-13	Mid-Flood	SR4	15:24	Surface	1	24.5	8.0	30.6	6.1	6.1	15.5	15.0	9.6	11.9
TMCLKL	HY/2012/07	2017-11-13	Mid-Flood	SR4	15:24	Surface	2	24.7	8.0	30.4	6.1		15.5		10.1	
TMCLKL	HY/2012/07	2017-11-13	Mid-Flood	SR4		Middle	1									
TMCLKL	HY/2012/07	2017-11-13	Mid-Flood	SR4		Middle	2									
TMCLKL	HY/2012/07	2017-11-13	Mid-Flood	SR4	15:24	Bottom	1	24.5	8.0	30.6	6.2	6.2	14.5		14.4	
TMCLKL	HY/2012/07	2017-11-13	Mid-Flood	SR4	15:24	Bottom	2	24.7	8.0	30.4	6.1		14.5		13.5	
TMCLKL	HY/2012/07	2017-11-13	Mid-Flood	IS8	15:14	Surface	1	24.4	7.9	30.7	6.1	6.1	19.7	20.1	20.9	21.5
TMCLKL	HY/2012/07	2017-11-13	Mid-Flood	IS8	15:14	Surface	2	24.6	8.0	30.5	6.1		19.7		20.0	
TMCLKL	HY/2012/07	2017-11-13	Mid-Flood	IS8		Middle	1									
TMCLKL	HY/2012/07	2017-11-13	Mid-Flood	IS8		Middle	2									
TMCLKL	HY/2012/07	2017-11-13	Mid-Flood	IS8	15:14	Bottom	1	24.4	7.9	30.7	6.1	6.1	20.5		22.9	
TMCLKL	HY/2012/07	2017-11-13	Mid-Flood	IS8	15:14	Bottom	2	24.6	8.0	30.5	6.1		20.6		22.0	
TMCLKL	HY/2012/07	2017-11-13	Mid-Flood	IS(Mf)9		Surface	1					6.3		20.2		23.9
TMCLKL	HY/2012/07	2017-11-13	Mid-Flood	IS(Mf)9		Surface	2									
TMCLKL	HY/2012/07	2017-11-13	Mid-Flood	IS(Mf)9	15:04	Middle	1	24.4	7.9	30.8	6.3		20.2		23.6	
TMCLKL	HY/2012/07	2017-11-13	Mid-Flood	IS(Mf)9	15:04	Middle	2	24.5	8.0	30.6	6.3		20.2		24.2	
TMCLKL	HY/2012/07	2017-11-13	Mid-Flood	IS(Mf)9		Bottom	1									
TMCLKL	HY/2012/07	2017-11-13	Mid-Flood	IS(Mf)9		Bottom	2									

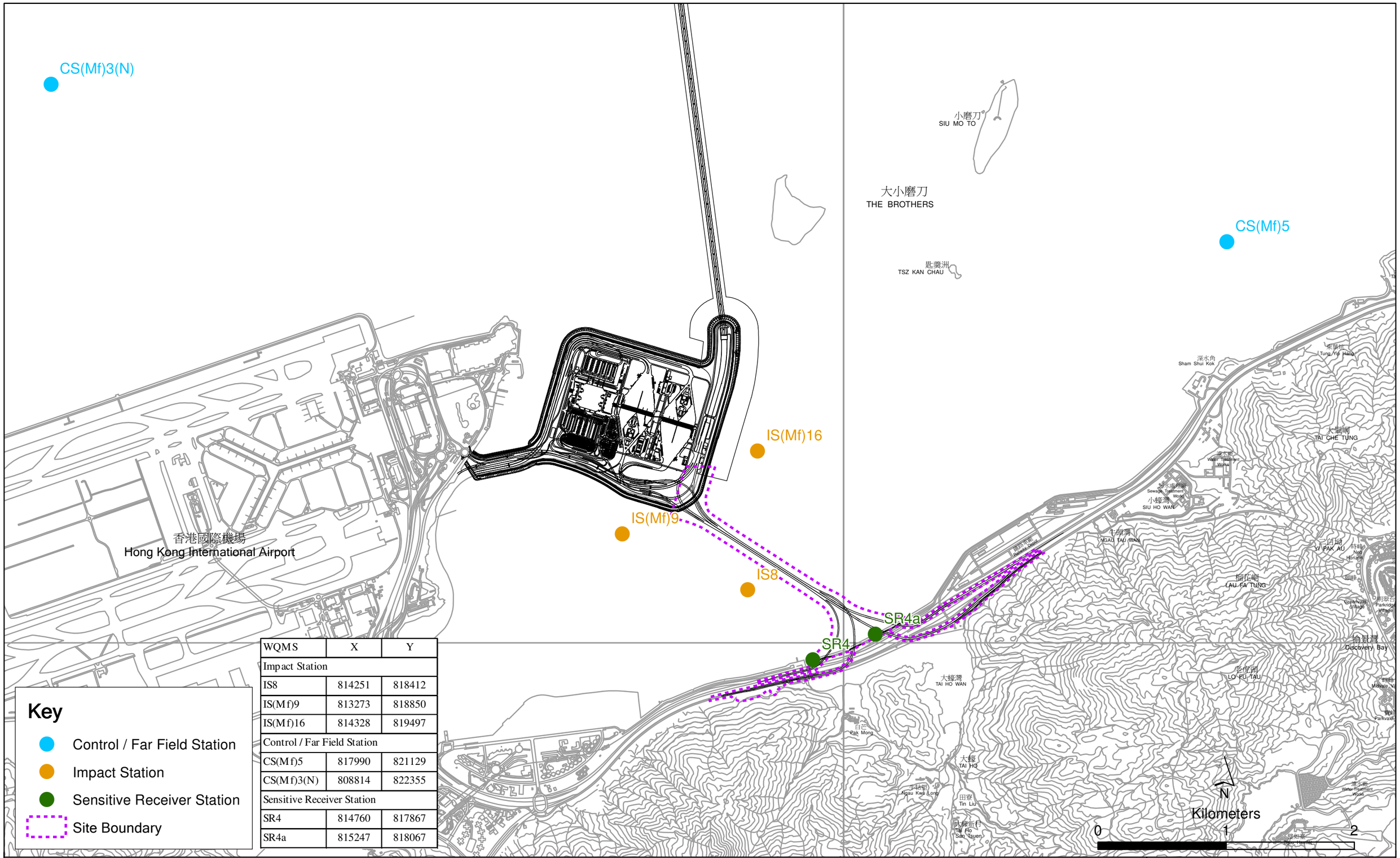
Note:

Indicates Exceedance of Action Level

Indicates Exceedance of Limit Level

Photo 1 - Mid-Flood at SR4a on 13 November 2017

Photo 2 - Mid-Flood at IS(Mf)9 on 13 November 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

File: T:\GIS\CONTRACT\0215660\Mxd\0215660_WQMS.mxd
Date: 28/4/2017

Environmental Resources Management

ERM

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

ENVIRONMENTAL COMPLAINT/ ENQUIRY FORM

Complaint/ ~~Enquiry~~ Received*
Date: 24 November 2017 Time: Undisclosed From: Environmental Protection Department (EPD) Via: Email
Complainant/ ~~**Enquirer***~~: Name: Undisclosed Tel: Undisclosed Address: Undisclosed Media: Dust / ~~Noise~~ / ~~Water Quality~~ / ~~Other~~ Description: A complaint was received by EPD regarding construction dust nuisance at Hong Kong Boundary Crossing Facilities (HKBCF) of Hong Kong–Zhuhai–Macau Bridge (HZMB) Projects. The complaint reported that dust nuisance was generated at HKBCF due to lack of watering for dust suppression at all unpaved areas. Serious dust nuisance was generated nearby the tollbooth at HKBCF in particular. The Environmental Team (ET) received the complaint notification from the Independent Environmental Checker (IEC) on 24 November 2017.

Investigation Report & Response

Site records and watering records provided by the Contractor were reviewed upon receiving the complaint. Based on the site records, major works under this Contract included segment erection at Southern Landfall. According to the watering records, a programme of 8 times daily watering was maintained between 20 November 2017 and 24 November 2017, which is considered complying with the relevant requirements stipulated in the Environmental Permit and EM&A Manual of the Tuen Mun-Chek Lap Kok Link Project.

Site inspection was carried out on 24 November 2017. During the site inspection, no particular finding was observed. Watering was applied on unpaved roads under this Contract (see *Annex A*). The area nearby the tollbooth was not within the site boundary or the purview of this Contract, thus observations on this area were considered not in relation to this Contract. Construction site boundary under this Contract is shown in *Figure 1*.

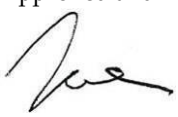
Upon investigation, there is no evidence to indicate that the complaint case is related to this Contract.

Mitigation Measures and Follow-Up Actions Recommended to Contractor

Based on the investigation, there is no evidence to indicate that the complaint case is related to this Contract and thus no further action will be required. The Contractor has been reminded to maintain watering for at least 8 times per day at the construction areas throughout the construction period. Increase in watering frequency should also be considered when necessary.

Date of File Closed : 29 November 2017

Approved and Filed by:



(Jovy Tam, ET Leader)
Date: 29 November 2017

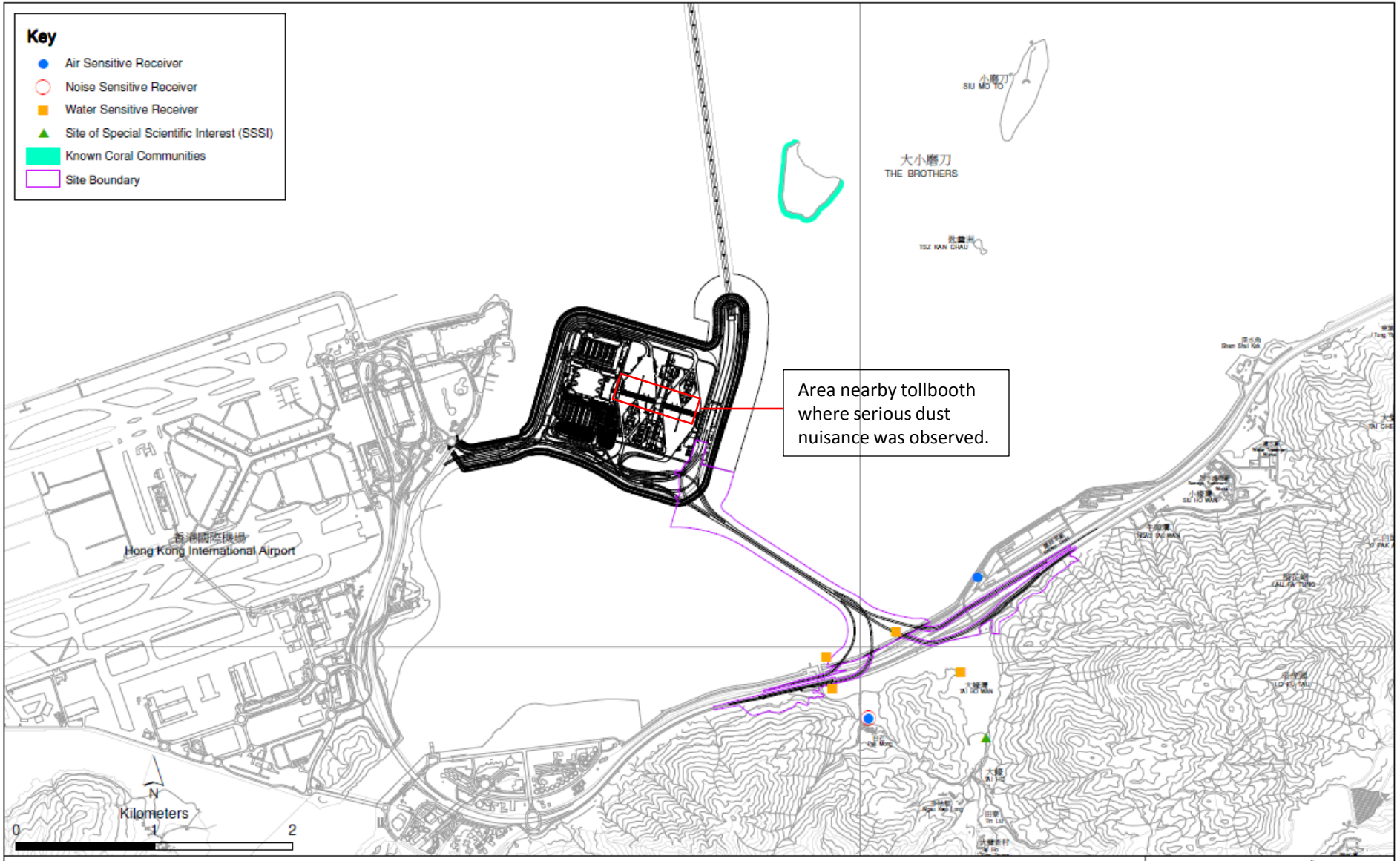


Figure 1

Site Boundary of Contract No. HY/2012/07 Tuen Mun - Chek Lap Kok Link - Southern Connection Viaduct Section

File: T:\GIS\CONTRACT\0215660\Mxd\0215660_Environmental_Sensitive_Receiver.mxd
Date: 18/5/2015

Environmental Resources Management

ERM

Annex A

Photos of site inspection at Southern Landfall on 24 November 2017

ANNEX A - PHOTOS OF SITE INSPECTION AT SOUTHERN LANDFALL ON 24 NOVEMBER 2017

Photo 1 – Watering was maintained on unpaved road at Southern Landfall

Photo 2 – Road surface was in a moist condition