

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	1	137
	Limit	0	15
Impact Dolphin Monitoring	Action	0	11
	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 (March 2018)	0	0	0
Total No. received since project commencement	12	0	0

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 03 April 2018

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



ERM

Dear Sir/ Madam,

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

Action Level Exceedance
0215660_23 March 2018_Depth-averaged SS_F_Station IS8

A total of one (1) exceedance was recorded on 23 March 2018.

Regards,

A handwritten signature in black ink, appearing to read 'Jovy Tam', written over a white background.

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><u>Action Level Exceedance</u> 0215660_23 March 2018_Depth-averaged SS_F_Station IS8</p> <p>[Total No. of Exceedances = 1]</p>	
Date	<p>23 March 2018 (Measured) 24 March 2018 (<i>In situ</i> results received by ERM) 03 April 2018 (Laboratory results received by ERM)</p>	
Monitoring Station	<p>CS(Mf)5, SR4a, SR4(N), 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	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	<p><u>Action Level Exceedance</u> 1. Mid-flood at IS8 (Depth-averaged SS = 24.7mg/L).</p>	
Works Undertaken (at the time of monitoring event)	<p>No major marine works was undertaken under this Contract on 23 March 2018.</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"> • No marine works was undertaken under this Contract on 23 March 2018. • 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. • 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. • No particular site observations was recorded at IS8 during the mid-flood tide on 23 March 2018 (<i>refer to site photo record</i>). 	
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 23 March 2018 and locations of water quality monitoring stations are attached. Site photo record on 23 March 2018 is attached.</p>	

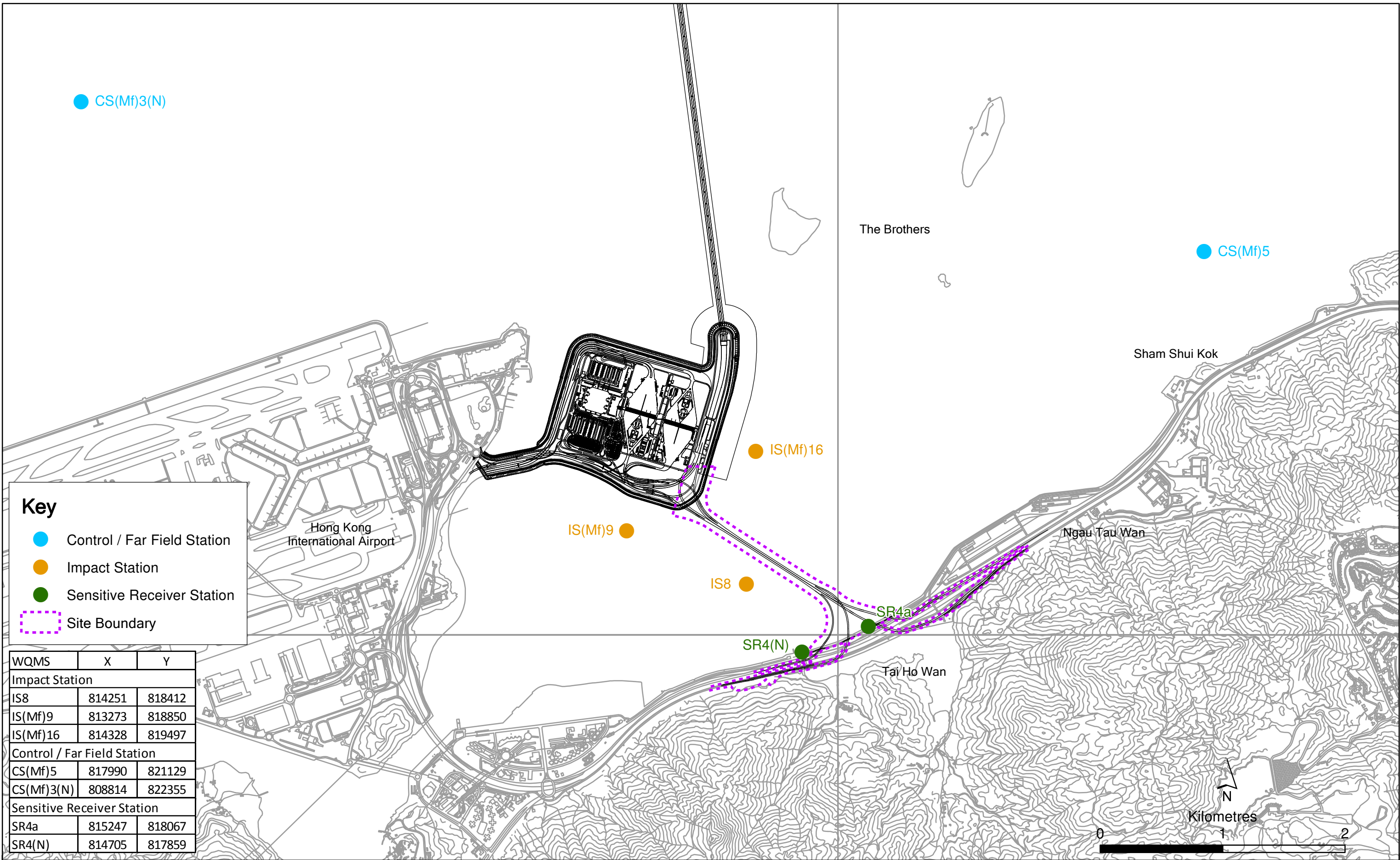
Project	Works	Date (yyyy-mm-dd)	Tide	Station	Start Time	Level	Replicate	Temperature (°C)	pH	Salinity (ppt)	DO (mg/L)	Average DO (mg/L)	Turbidity (NTU)	Depth-Averaged Turbidity	SS (mg/L)	Depth-Averaged SS
TMCLKL	HY/2012/07	2018-03-23	Mid-Ebb	CS(Mf)5	16:57	Surface	1	20.1	8.0	30.1	6.9	6.9	4.0	5.4	5.6	7.6
TMCLKL	HY/2012/07	2018-03-23	Mid-Ebb	CS(Mf)5	16:57	Surface	2	19.8	8.1	30.1	6.9		4.1		6.8	
TMCLKL	HY/2012/07	2018-03-23	Mid-Ebb	CS(Mf)5	16:57	Middle	1	19.9	8.0	30.2	6.8		5.2		7.6	
TMCLKL	HY/2012/07	2018-03-23	Mid-Ebb	CS(Mf)5	16:57	Middle	2	19.7	8.1	30.2	6.9		5.1		7.5	
TMCLKL	HY/2012/07	2018-03-23	Mid-Ebb	CS(Mf)5	16:57	Bottom	1	19.8	8.0	30.6	6.7	6.8	6.8		9.8	
TMCLKL	HY/2012/07	2018-03-23	Mid-Ebb	CS(Mf)5	16:57	Bottom	2	19.5	8.1	30.6	6.8		7.1		8.0	
TMCLKL	HY/2012/07	2018-03-23	Mid-Ebb	CS(Mf)3(N)	15:41	Surface	1	20.1	8.0	29.5	8.1	8.2	4.9	6.4	5.9	7.1
TMCLKL	HY/2012/07	2018-03-23	Mid-Ebb	CS(Mf)3(N)	15:41	Surface	2	20.1	8.1	29.5	8.1		4.9		6.2	
TMCLKL	HY/2012/07	2018-03-23	Mid-Ebb	CS(Mf)3(N)	15:41	Middle	1	19.9	8.1	30.5	8.2		7.4		6.9	
TMCLKL	HY/2012/07	2018-03-23	Mid-Ebb	CS(Mf)3(N)	15:41	Middle	2	19.9	8.1	30.5	8.2		7.4		8.3	
TMCLKL	HY/2012/07	2018-03-23	Mid-Ebb	CS(Mf)3(N)	15:41	Bottom	1	19.9	8.1	30.5	8.1	8.1	6.9		7.6	
TMCLKL	HY/2012/07	2018-03-23	Mid-Ebb	CS(Mf)3(N)	15:41	Bottom	2	19.9	8.1	30.5	8.0		7.0		7.4	
TMCLKL	HY/2012/07	2018-03-23	Mid-Ebb	IS(Mf)16	16:28	Surface	1	20.7	8.0	29.6	7.0	7.1	6.6	7.4	9.6	11.4
TMCLKL	HY/2012/07	2018-03-23	Mid-Ebb	IS(Mf)16	16:28	Surface	2	20.5	8.1	29.7	7.1		7.1		10.6	
TMCLKL	HY/2012/07	2018-03-23	Mid-Ebb	IS(Mf)16		Middle	1									
TMCLKL	HY/2012/07	2018-03-23	Mid-Ebb	IS(Mf)16		Middle	2									
TMCLKL	HY/2012/07	2018-03-23	Mid-Ebb	IS(Mf)16	16:28	Bottom	1	20.0	8.0	29.8	6.8	6.9	7.7		12.0	
TMCLKL	HY/2012/07	2018-03-23	Mid-Ebb	IS(Mf)16	16:28	Bottom	2	19.8	8.1	29.9	6.9		8.1		13.4	
TMCLKL	HY/2012/07	2018-03-23	Mid-Ebb	SR4a	16:17	Surface	1	20.4	8.0	29.6	6.8	6.9	8.4	10.1	10.6	11.7
TMCLKL	HY/2012/07	2018-03-23	Mid-Ebb	SR4a	16:17	Surface	2	20.2	8.1	29.7	6.9		8.2		10.7	
TMCLKL	HY/2012/07	2018-03-23	Mid-Ebb	SR4a		Middle	1									
TMCLKL	HY/2012/07	2018-03-23	Mid-Ebb	SR4a		Middle	2									
TMCLKL	HY/2012/07	2018-03-23	Mid-Ebb	SR4a	16:17	Bottom	1	20.3	8.0	29.7	6.9	6.9	11.9		13.0	
TMCLKL	HY/2012/07	2018-03-23	Mid-Ebb	SR4a	16:17	Bottom	2	20.0	8.1	29.7	6.9		12.0		12.6	
TMCLKL	HY/2012/07	2018-03-23	Mid-Ebb	SR4(N)	16:11	Surface	1	21.9	8.0	29.1	7.2	7.3	4.3	4.8	7.5	7.4
TMCLKL	HY/2012/07	2018-03-23	Mid-Ebb	SR4(N)	16:11	Surface	2	21.6	8.1	29.2	7.3		4.3		6.4	
TMCLKL	HY/2012/07	2018-03-23	Mid-Ebb	SR4(N)		Middle	1									
TMCLKL	HY/2012/07	2018-03-23	Mid-Ebb	SR4(N)		Middle	2									
TMCLKL	HY/2012/07	2018-03-23	Mid-Ebb	SR4(N)	16:11	Bottom	1	21.3	8.0	29.4	7.1	7.2	5.1		7.2	
TMCLKL	HY/2012/07	2018-03-23	Mid-Ebb	SR4(N)	16:11	Bottom	2	21.0	8.1	29.5	7.2		5.4		8.3	
TMCLKL	HY/2012/07	2018-03-23	Mid-Ebb	IS8	16:05	Surface	1	20.8	8.0	29.6	6.9	6.9	6.6	7.1	9.7	10.7
TMCLKL	HY/2012/07	2018-03-23	Mid-Ebb	IS8	16:05	Surface	2	20.5	8.1	29.6	6.9		6.6		9.1	
TMCLKL	HY/2012/07	2018-03-23	Mid-Ebb	IS8		Middle	1									
TMCLKL	HY/2012/07	2018-03-23	Mid-Ebb	IS8		Middle	2									
TMCLKL	HY/2012/07	2018-03-23	Mid-Ebb	IS8	16:05	Bottom	1	20.6	8.0	29.6	6.9	6.9	7.6		13.0	
TMCLKL	HY/2012/07	2018-03-23	Mid-Ebb	IS8	16:05	Bottom	2	20.3	8.1	29.7	6.9		7.4		11.1	
TMCLKL	HY/2012/07	2018-03-23	Mid-Ebb	IS(Mf)9	15:54	Surface	1	21.6	8.0	29.4	7.2	7.3	6.0	6.3	6.7	7.7
TMCLKL	HY/2012/07	2018-03-23	Mid-Ebb	IS(Mf)9	15:54	Surface	2	21.3	8.1	29.6	7.3		6.2		6.7	
TMCLKL	HY/2012/07	2018-03-23	Mid-Ebb	IS(Mf)9		Middle	1									
TMCLKL	HY/2012/07	2018-03-23	Mid-Ebb	IS(Mf)9		Middle	2									
TMCLKL	HY/2012/07	2018-03-23	Mid-Ebb	IS(Mf)9	15:54	Bottom	1	20.7	8.0	29.6	7.1	7.2	6.8		8.8	
TMCLKL	HY/2012/07	2018-03-23	Mid-Ebb	IS(Mf)9	15:54	Bottom	2	20.4	8.1	29.7	7.2		6.2		8.6	

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	2018-03-23	Mid-Flood	CS(Mf)5	9:30	Surface	1	19.7	8.1	29.9	7.1	7.0	2.1	5.9	3.7	5.1		
TMCLKL	HY/2012/07	2018-03-23	Mid-Flood	CS(Mf)5	9:30	Surface	2	20.0	8.0	29.8	7.0		2.5		4.7			
TMCLKL	HY/2012/07	2018-03-23	Mid-Flood	CS(Mf)5	9:30	Middle	1	19.6	8.1	30.1	6.9		2.4		6.3			
TMCLKL	HY/2012/07	2018-03-23	Mid-Flood	CS(Mf)5	9:30	Middle	2	19.9	8.0	30.0	6.8		2.6		5.3			
TMCLKL	HY/2012/07	2018-03-23	Mid-Flood	CS(Mf)5	9:30	Bottom	1	19.5	8.1	30.6	6.9	6.9	13.0	5.9	5.2	5.1		
TMCLKL	HY/2012/07	2018-03-23	Mid-Flood	CS(Mf)5	9:30	Bottom	2	19.8	8.0	30.5	6.8		12.7		5.1			
TMCLKL	HY/2012/07	2018-03-23	Mid-Flood	CS(Mf)3(N)	10:25	Surface	1	19.9	8.0	28.9	7.8	7.8	3.8	5.0	6.2	7.3		
TMCLKL	HY/2012/07	2018-03-23	Mid-Flood	CS(Mf)3(N)	10:25	Surface	2	19.9	8.0	28.9	7.8		3.8		7.7			
TMCLKL	HY/2012/07	2018-03-23	Mid-Flood	CS(Mf)3(N)	10:25	Middle	1	19.8	8.0	29.1	7.7		6.1		6.7			
TMCLKL	HY/2012/07	2018-03-23	Mid-Flood	CS(Mf)3(N)	10:25	Middle	2	19.8	8.0	29.1	7.7		6.1		7.5			
TMCLKL	HY/2012/07	2018-03-23	Mid-Flood	CS(Mf)3(N)	10:25	Bottom	1	19.8	8.0	29.0	7.7	7.7	5.2	5.0	7.7	7.3		
TMCLKL	HY/2012/07	2018-03-23	Mid-Flood	CS(Mf)3(N)	10:25	Bottom	2	19.8	8.0	29.1	7.7		5.2		7.9			
TMCLKL	HY/2012/07	2018-03-23	Mid-Flood	IS(Mf)16	9:59	Surface	1	19.8	8.1	29.8	7.0	7.0	6.7	6.7	10.6	11.2		
TMCLKL	HY/2012/07	2018-03-23	Mid-Flood	IS(Mf)16	9:59	Surface	2	20.1	8.0	29.7	7.0		6.2		11.0			
TMCLKL	HY/2012/07	2018-03-23	Mid-Flood	IS(Mf)16		Middle	1											
TMCLKL	HY/2012/07	2018-03-23	Mid-Flood	IS(Mf)16		Middle	2											
TMCLKL	HY/2012/07	2018-03-23	Mid-Flood	IS(Mf)16	9:59	Bottom	1	19.8	8.1	29.8	7.0	7.0	7.2	6.7	11.2	15.8		
TMCLKL	HY/2012/07	2018-03-23	Mid-Flood	IS(Mf)16	9:59	Bottom	2	20.0	8.0	29.7	7.0		6.7		11.9			
TMCLKL	HY/2012/07	2018-03-23	Mid-Flood	SR4a	10:08	Surface	1	19.7	8.1	29.8	7.0	7.0	10.0	10.0	16.1	15.8		
TMCLKL	HY/2012/07	2018-03-23	Mid-Flood	SR4a	10:08	Surface	2	20.0	8.0	29.7	6.9		10.2		16.7			
TMCLKL	HY/2012/07	2018-03-23	Mid-Flood	SR4a		Middle	1											
TMCLKL	HY/2012/07	2018-03-23	Mid-Flood	SR4a		Middle	2											
TMCLKL	HY/2012/07	2018-03-23	Mid-Flood	SR4a	10:08	Bottom	1	19.7	8.0	29.8	7.0	7.0	10.0	6.8	15.1	20.8		
TMCLKL	HY/2012/07	2018-03-23	Mid-Flood	SR4a	10:08	Bottom	2	20.0	8.0	29.7	6.9		9.8		15.2			
TMCLKL	HY/2012/07	2018-03-23	Mid-Flood	SR4(N)	10:16	Surface	1	19.7	8.0	29.7	6.8	6.8	12.2	12.8	18.3	20.8		
TMCLKL	HY/2012/07	2018-03-23	Mid-Flood	SR4(N)	10:16	Surface	2	20.0	8.0	29.6	6.8		12.6		19.8			
TMCLKL	HY/2012/07	2018-03-23	Mid-Flood	SR4(N)		Middle	1											
TMCLKL	HY/2012/07	2018-03-23	Mid-Flood	SR4(N)		Middle	2											
TMCLKL	HY/2012/07	2018-03-23	Mid-Flood	SR4(N)	10:16	Bottom	1	19.7	8.0	29.7	6.9	7.0	13.2	6.9	21.7	24.7		
TMCLKL	HY/2012/07	2018-03-23	Mid-Flood	SR4(N)	10:16	Bottom	2	20.0	8.0	29.6	7.0		13.0		23.3			
TMCLKL	HY/2012/07	2018-03-23	Mid-Flood	IS8	10:23	Surface	1	19.8	8.1	29.7	6.9	6.9	16.5	16.0	24.6	24.7		
TMCLKL	HY/2012/07	2018-03-23	Mid-Flood	IS8	10:23	Surface	2	19.8	8.0	29.7	6.9		16.4		25.4			
TMCLKL	HY/2012/07	2018-03-23	Mid-Flood	IS8		Middle	1											
TMCLKL	HY/2012/07	2018-03-23	Mid-Flood	IS8		Middle	2											
TMCLKL	HY/2012/07	2018-03-23	Mid-Flood	IS8	10:23	Bottom	1	19.8	8.1	29.8	6.9	6.9	15.5	6.9	24.4	15.5		
TMCLKL	HY/2012/07	2018-03-23	Mid-Flood	IS8	10:23	Bottom	2	19.8	8.0	29.7	6.9		15.4		24.4			
TMCLKL	HY/2012/07	2018-03-23	Mid-Flood	IS(Mf)9	10:31	Surface	1	19.9	8.1	29.6	6.9	6.9	9.6	10.1	15.8	15.5		
TMCLKL	HY/2012/07	2018-03-23	Mid-Flood	IS(Mf)9	10:31	Surface	2	20.2	8.0	29.5	6.8		9.5		15.6			
TMCLKL	HY/2012/07	2018-03-23	Mid-Flood	IS(Mf)9		Middle	1											
TMCLKL	HY/2012/07	2018-03-23	Mid-Flood	IS(Mf)9		Middle	2											
TMCLKL	HY/2012/07	2018-03-23	Mid-Flood	IS(Mf)9	10:31	Bottom	1	19.9	8.1	29.7	6.9	6.9	10.7	6.9	14.6	15.5		
TMCLKL	HY/2012/07	2018-03-23	Mid-Flood	IS(Mf)9	10:31	Bottom	2	20.2	8.0	29.6	6.8		10.4		16.0			

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

Photo 1 - Mid-Flood at IS8 on 23 March 2018





Key

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

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		
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