

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	1	2
	Limit	0	0
Impact Dolphin Monitoring	Action	0	7
	Limit	1	2

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 (May 2015)	0	0	0
Total No. received since project commencement	2	0	0

Email
message

Environmental
Resources
Management

To 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 3 June 2015

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



Dear Sir/ Madam,

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

Action Level Exceedance:
0215660_19 May 2015_ SS_E_Station SR4a

Recorded on 19 May 2015.

Regards,

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.	0215660_19 May 2015_ SS_E_Station SR4a [Total No. of Exceedances = 1]	
Date	19 May 2015 (Measured) 21 May 2015 (<i>In situ</i> results received by ERM) 26 May 2015 (Laboratory results received by ERM)	
Monitoring Station	CS(Mf)5, SR4a, SR4, IS8, IS(Mf)16, IS(Mf)9, CS(Mf)3	
Parameter(s) with Exceedance(s)	Depth-averaged Suspended Solids (SS)	
Action Levels	SS	95%-ile of baseline data (23.5 mg/L) and 120% of upstream control station on same day at same tide (32.5 mg/L)
Limit Levels	SS	99%-ile of baseline data (34.4 mg/L) and 130% of upstream control station on same day at same tide (35.2 mg/L)
Measured Levels	Action Level Exceedance was observed at SR4a (33.6 mg/L) during mid-ebb tide.	
Works Undertaken (at the time of monitoring event)	<p>Marine works on 19 May 2015 at the nearby marine platforms were:</p> <ul style="list-style-type: none"> • Soil grabbing at Pier A5; • Iron typing and pile cap construction works at platforms of Viaduct C. <p>There were no bored piling works at the nearby marine platforms of Viaducts B, C and D. The aforesaid works were suspended before sampling at mid-ebb tide (12:03 to 15:33) due to adverse weather.</p>	
Possible Reason for Action or Limit Level Exceedance(s)	<p>The exceedance of depth-averaged SS at SR4a during mid-ebb tide is unlikely to be due to the Project, in view of the following:</p> <ul style="list-style-type: none"> • The marine works nearby monitoring station SR4a had been suspended before sampling at SR4a (13:39). • Elevated SS levels were also observed in all monitoring stations on the same day which may be resulting from heavy rainfall on 19 May 2015. Apart from SR4a during mid-ebb tide, the SS levels in other monitoring stations were in compliance with the Action and Limit Levels during both mid-ebb and mid-flood tides. • The depth-averaged turbidity and dissolved oxygen levels in all monitoring stations on during both mid-ebb and mid-flood tides were in compliance with the Action and Limit Levels. • The gutters of the nearby marine platforms were checked and in function. There was also no waste water runoff recorded. • No malpractice was observed during the sampling process. 	
Actions Taken / To Be Taken	No immediate action is considered necessary. The contractor is reminded to properly implement the mitigation measures stipulated in EM&A Manual. The ET will monitor for future trends in exceedances.	
Remarks	The monitoring results, locations of water quality monitoring stations and rainfall distribution on 19 May 2015 are attached.	

Project	Works	Date (yyyy-mm-dd)	Tide	Weather	Stat	Level	Water Depth	Lev Cod	Replicate	Start Time	Temp v	pH v	Sal v	DO v	Turb v	SS v
TMCLKL	HY/2012/07	2015-05-19	Mid-Flood	Cloudy	CS(Mf)5	Surface	1	1	1	19:00	26.1	6.93	20.5	6.81	20.4	27.8
TMCLKL	HY/2012/07	2015-05-19	Mid-Flood	Cloudy	CS(Mf)5	Surface	1	1	2	19:00	26	6.96	20.4	6.86		
TMCLKL	HY/2012/07	2015-05-19	Mid-Flood	Cloudy	CS(Mf)5	Middle	6.6	2	1	19:00	26.3	7.04	21.2	6.73		
TMCLKL	HY/2012/07	2015-05-19	Mid-Flood	Cloudy	CS(Mf)5	Middle	6.6	2	2	19:00	26.2	7.08	21.3	6.76		
TMCLKL	HY/2012/07	2015-05-19	Mid-Flood	Cloudy	CS(Mf)5	Bottom	12.2	3	1	19:00	26.4	7.1	21.8	6.5		
TMCLKL	HY/2012/07	2015-05-19	Mid-Flood	Cloudy	CS(Mf)5	Bottom	12.2	3	2	19:00	26.5	7.08	21.9	6.52		
TMCLKL	HY/2012/07	2015-05-19	Mid-Flood	Cloudy	SR4a	Surface	1	1	1	19:19	26.2	7.11	20.3	6.63	21.3	29.4
TMCLKL	HY/2012/07	2015-05-19	Mid-Flood	Cloudy	SR4a	Surface	1	1	2	19:19	26.1	7.07	20.4	6.58		
TMCLKL	HY/2012/07	2015-05-19	Mid-Flood	Cloudy	SR4a	Middle		2	1	19:19						
TMCLKL	HY/2012/07	2015-05-19	Mid-Flood	Cloudy	SR4a	Middle		2	2	19:19						
TMCLKL	HY/2012/07	2015-05-19	Mid-Flood	Cloudy	SR4a	Bottom	3.8	3	1	19:19	26.3	6.93	20.4	6.38		
TMCLKL	HY/2012/07	2015-05-19	Mid-Flood	Cloudy	SR4a	Bottom	3.8	3	2	19:19	26.2	6.99	20.5	6.34		
TMCLKL	HY/2012/07	2015-05-19	Mid-Flood	Cloudy	SR4	Surface	1	1	1	19:33	26.1	6.89	20.5	6.53	19.1	26.7
TMCLKL	HY/2012/07	2015-05-19	Mid-Flood	Cloudy	SR4	Surface	1	1	2	19:33	26	6.84	20.6	6.57		
TMCLKL	HY/2012/07	2015-05-19	Mid-Flood	Cloudy	SR4	Middle		2	1	19:33						
TMCLKL	HY/2012/07	2015-05-19	Mid-Flood	Cloudy	SR4	Middle		2	2	19:33						
TMCLKL	HY/2012/07	2015-05-19	Mid-Flood	Cloudy	SR4	Bottom	3.3	3	1	19:33	26.2	6.73	20.6	6.32		
TMCLKL	HY/2012/07	2015-05-19	Mid-Flood	Cloudy	SR4	Bottom	3.3	3	2	19:33	26.1	6.75	20.6	6.37		
TMCLKL	HY/2012/07	2015-05-19	Mid-Flood	Cloudy	IS8	Surface	1	1	1	19:46	26.2	6.74	20.4	6.67	20.1	28.1
TMCLKL	HY/2012/07	2015-05-19	Mid-Flood	Cloudy	IS8	Surface	1	1	2	19:46	26.1	6.76	20.3	6.71		
TMCLKL	HY/2012/07	2015-05-19	Mid-Flood	Cloudy	IS8	Middle		2	1	19:46						
TMCLKL	HY/2012/07	2015-05-19	Mid-Flood	Cloudy	IS8	Middle		2	2	19:46						
TMCLKL	HY/2012/07	2015-05-19	Mid-Flood	Cloudy	IS8	Bottom	3.1	3	1	19:46	26.1	6.81	20.3	6.48		
TMCLKL	HY/2012/07	2015-05-19	Mid-Flood	Cloudy	IS8	Bottom	3.1	3	2	19:46	26.2	6.77	20.3	6.42		
TMCLKL	HY/2012/07	2015-05-19	Mid-Flood	Cloudy	IS(Mf)16	Surface	1	1	1	20:01	26.2	6.63	20.4	6.56	21.0	28.0
TMCLKL	HY/2012/07	2015-05-19	Mid-Flood	Cloudy	IS(Mf)16	Surface	1	1	2	20:01	26.2	6.68	20.3	6.52		
TMCLKL	HY/2012/07	2015-05-19	Mid-Flood	Cloudy	IS(Mf)16	Middle	5.3	2	1	20:01	26.4	6.79	20.6	6.43		
TMCLKL	HY/2012/07	2015-05-19	Mid-Flood	Cloudy	IS(Mf)16	Middle	5.3	2	2	20:01	26.3	6.8	20.5	6.47		
TMCLKL	HY/2012/07	2015-05-19	Mid-Flood	Cloudy	IS(Mf)16	Bottom	9.6	3	1	20:01	26.6	6.87	21.1	6.28		
TMCLKL	HY/2012/07	2015-05-19	Mid-Flood	Cloudy	IS(Mf)16	Bottom	9.6	3	2	20:01	26.5	6.92	21.2	6.22		
TMCLKL	HY/2012/07	2015-05-19	Mid-Flood	Cloudy	IS(Mf)9	Surface	1	1	1	20:19	26.2	6.89	20.6	6.56	20.5	28.3
TMCLKL	HY/2012/07	2015-05-19	Mid-Flood	Cloudy	IS(Mf)9	Surface	1	1	2	20:19	26.1	6.9	20.5	6.59		
TMCLKL	HY/2012/07	2015-05-19	Mid-Flood	Cloudy	IS(Mf)9	Middle		2	1	20:19						
TMCLKL	HY/2012/07	2015-05-19	Mid-Flood	Cloudy	IS(Mf)9	Middle		2	2	20:19						

Project	Works	Date (yyyy-mm-dd)	Tide	Weather	Stat	Level	Water Depth	Lev Cod	Replicate	Start Time	Temp v	pH v	Sal v	DO v	Turb v	SS v
TMCLKL	HY/2012/07	2015-05-19	Mid-Flood	Cloudy	IS(Mf)9	Bottom	4.4	3	1	20:19	26.1	6.86	20.8	6.49		
TMCLKL	HY/2012/07	2015-05-19	Mid-Flood	Cloudy	IS(Mf)9	Bottom	4.4	3	2	20:19	26.1	6.85	20.8	6.47		
TMCLKL	HY/2012/07	2015-05-19	Mid-Flood	Cloudy	CS(Mf)3	Surface	1	1	1	20:38	26.1	7.04	20.7	6.67	17.4	24.5
TMCLKL	HY/2012/07	2015-05-19	Mid-Flood	Cloudy	CS(Mf)3	Surface	1	1	2	20:38	26	7.07	20.8	6.71		
TMCLKL	HY/2012/07	2015-05-19	Mid-Flood	Cloudy	CS(Mf)3	Middle	6.3	2	1	20:38	25.9	7.11	20.5	6.62		
TMCLKL	HY/2012/07	2015-05-19	Mid-Flood	Cloudy	CS(Mf)3	Middle	6.3	2	2	20:38	26	7.13	20.6	6.65		
TMCLKL	HY/2012/07	2015-05-19	Mid-Flood	Cloudy	CS(Mf)3	Bottom	11.6	3	1	20:38	26.3	6.96	21.8	6.47		
TMCLKL	HY/2012/07	2015-05-19	Mid-Flood	Cloudy	CS(Mf)3	Bottom	11.6	3	2	20:38	26.4	6.98	21.9	6.41		
TMCLKL	HY/2012/07	2015-05-19	Mid-Ebb	Cloudy	CS(Mf)3	Surface	1	1	1	12:03	26.4	6.98	20.6	6.54	19.5	27.1
TMCLKL	HY/2012/07	2015-05-19	Mid-Ebb	Cloudy	CS(Mf)3	Surface	1	1	2	12:03	26.4	7.01	20.5	6.56		
TMCLKL	HY/2012/07	2015-05-19	Mid-Ebb	Cloudy	CS(Mf)3	Middle	6.1	2	1	12:03	26.4	6.94	20.9	6.66		
TMCLKL	HY/2012/07	2015-05-19	Mid-Ebb	Cloudy	CS(Mf)3	Middle	6.1	2	2	12:03	26.5	6.96	21	6.63		
TMCLKL	HY/2012/07	2015-05-19	Mid-Ebb	Cloudy	CS(Mf)3	Bottom	11.2	3	1	12:03	26.6	6.87	21.3	6.38		
TMCLKL	HY/2012/07	2015-05-19	Mid-Ebb	Cloudy	CS(Mf)3	Bottom	11.2	3	2	12:03	26.7	6.9	21.4	6.41		
TMCLKL	HY/2012/07	2015-05-19	Mid-Ebb	Cloudy	SR4a	Surface	1	1	1	13:39	26.6	7.01	20.1	6.52	23.7	33.6
TMCLKL	HY/2012/07	2015-05-19	Mid-Ebb	Cloudy	SR4a	Surface	1	1	2	13:39	26.6	6.97	20.2	6.48		
TMCLKL	HY/2012/07	2015-05-19	Mid-Ebb	Cloudy	SR4a	Middle		2	1	13:39						
TMCLKL	HY/2012/07	2015-05-19	Mid-Ebb	Cloudy	SR4a	Middle		2	2	13:39						
TMCLKL	HY/2012/07	2015-05-19	Mid-Ebb	Cloudy	SR4a	Bottom	3.2	3	1	13:39	26.6	6.86	20.7	6.27		
TMCLKL	HY/2012/07	2015-05-19	Mid-Ebb	Cloudy	SR4a	Bottom	3.2	3	2	13:39	26.6	6.89	20.6	6.31		
TMCLKL	HY/2012/07	2015-05-19	Mid-Ebb	Cloudy	SR4	Surface	1	1	1	13:21	26.6	6.78	20.2	6.41	22.4	31.6
TMCLKL	HY/2012/07	2015-05-19	Mid-Ebb	Cloudy	SR4	Surface	1	1	2	13:21	26.6	6.8	20.3	6.39		
TMCLKL	HY/2012/07	2015-05-19	Mid-Ebb	Cloudy	SR4	Middle		2	1	13:21						
TMCLKL	HY/2012/07	2015-05-19	Mid-Ebb	Cloudy	SR4	Middle		2	2	13:21						
TMCLKL	HY/2012/07	2015-05-19	Mid-Ebb	Cloudy	SR4	Bottom	3	3	1	13:21	26.6	6.67	20.6	6.18		
TMCLKL	HY/2012/07	2015-05-19	Mid-Ebb	Cloudy	SR4	Bottom	3	3	2	13:21	26.5	6.7	20.5	6.16		
TMCLKL	HY/2012/07	2015-05-19	Mid-Ebb	Cloudy	IS8	Surface	1	1	1	13:05	26.5	6.72	20.1	6.53	22.0	30.4
TMCLKL	HY/2012/07	2015-05-19	Mid-Ebb	Cloudy	IS8	Surface	1	1	2	13:05	26.6	6.76	20.2	6.49		
TMCLKL	HY/2012/07	2015-05-19	Mid-Ebb	Cloudy	IS8	Middle		2	1	13:05						
TMCLKL	HY/2012/07	2015-05-19	Mid-Ebb	Cloudy	IS8	Middle		2	2	13:05						
TMCLKL	HY/2012/07	2015-05-19	Mid-Ebb	Cloudy	IS8	Bottom	2.9	3	1	13:05	26.5	6.75	20.4	6.35		
TMCLKL	HY/2012/07	2015-05-19	Mid-Ebb	Cloudy	IS8	Bottom	2.9	3	2	13:05	26.4	6.79	20.4	6.31		
TMCLKL	HY/2012/07	2015-05-19	Mid-Ebb	Cloudy	IS(Mf)16	Surface	1	1	1	12:43	26.5	6.78	20.2	6.38		
TMCLKL	HY/2012/07	2015-05-19	Mid-Ebb	Cloudy	IS(Mf)16	Surface	1	1	2	12:43	26.5	6.8	20.2	6.34		

Project	Works	Date (yyyy-mm-dd)	Tide	Weather	Stat	Level	Water Depth	Lev Cod	Replicate	Start Time	Temp v	pH v	Sal v	DO v	Turb v	SS v
TMCLKL	HY/2012/07	2015-05-19	Mid-Ebb	Cloudy	IS(Mf)16	Middle	5	2	1	12:43	26.5	6.74	20.4	6.41	20.8	28.9
TMCLKL	HY/2012/07	2015-05-19	Mid-Ebb	Cloudy	IS(Mf)16	Middle	5	2	2	12:43	26.4	6.77	20.5	6.42		
TMCLKL	HY/2012/07	2015-05-19	Mid-Ebb	Cloudy	IS(Mf)16	Bottom	8.9	3	1	12:43	26.6	6.82	20.8	6.2		
TMCLKL	HY/2012/07	2015-05-19	Mid-Ebb	Cloudy	IS(Mf)16	Bottom	8.9	3	2	12:43	26.7	6.79	20.7	6.17		
TMCLKL	HY/2012/07	2015-05-19	Mid-Ebb	Cloudy	IS(Mf)9	Surface	1	1	1	12:26	26.4	6.84	20.4	6.47	21.0	31.5
TMCLKL	HY/2012/07	2015-05-19	Mid-Ebb	Cloudy	IS(Mf)9	Surface	1	1	2	12:26	26.5	6.87	20.4	6.44		
TMCLKL	HY/2012/07	2015-05-19	Mid-Ebb	Cloudy	IS(Mf)9	Middle		2	1	12:26						
TMCLKL	HY/2012/07	2015-05-19	Mid-Ebb	Cloudy	IS(Mf)9	Middle		2	2	12:26						
TMCLKL	HY/2012/07	2015-05-19	Mid-Ebb	Cloudy	IS(Mf)9	Bottom	4	3	1	12:26	26.5	6.79	20.7	6.53		
TMCLKL	HY/2012/07	2015-05-19	Mid-Ebb	Cloudy	IS(Mf)9	Bottom	4	3	2	12:26	26.5	6.81	20.8	6.56	22.1	31.6
TMCLKL	HY/2012/07	2015-05-19	Mid-Ebb	Cloudy	CS(Mf)5	Surface	1	1	1	13:55	26.6	6.89	20.2	6.74		
TMCLKL	HY/2012/07	2015-05-19	Mid-Ebb	Cloudy	CS(Mf)5	Surface	1	1	2	13:55	26.5	6.85	20.3	6.7		
TMCLKL	HY/2012/07	2015-05-19	Mid-Ebb	Cloudy	CS(Mf)5	Middle	6.5	2	1	13:55	26.5	6.93	20.8	6.63		
TMCLKL	HY/2012/07	2015-05-19	Mid-Ebb	Cloudy	CS(Mf)5	Middle	6.5	2	2	13:55	26.5	6.9	23.9	6.65		
TMCLKL	HY/2012/07	2015-05-19	Mid-Ebb	Cloudy	CS(Mf)5	Bottom	11.9	3	1	13:55	26.6	6.96	21.6	6.34		
TMCLKL	HY/2012/07	2015-05-19	Mid-Ebb	Cloudy	CS(Mf)5	Bottom	11.9	3	2	13:55	26.7	6.99	21.5	6.36		

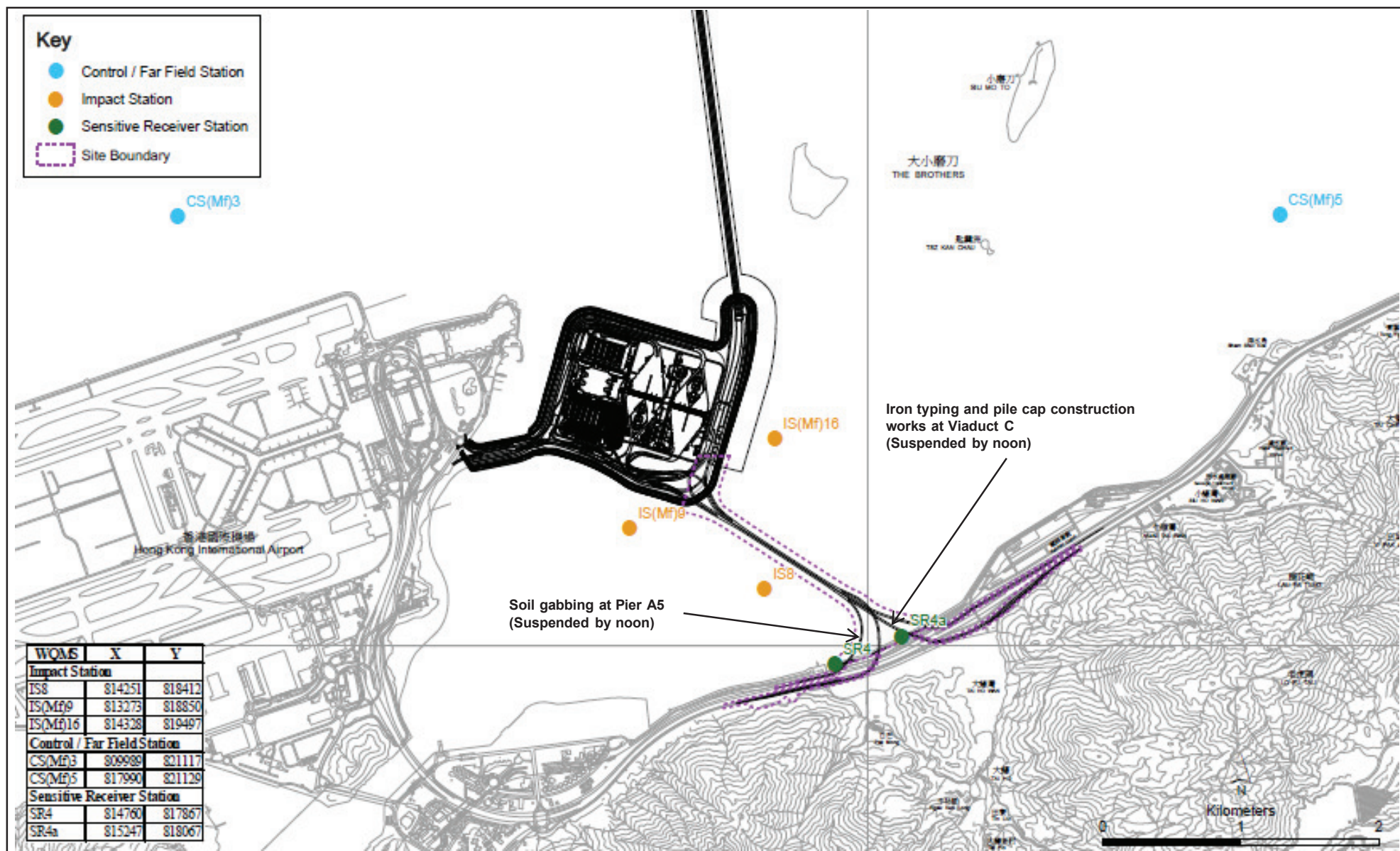


Figure 1

HY/2012/07 TM-CLKL Southern Connection Viaduct Section
Water Quality Monitoring Stations and Marine Works nearby SR4a Undertaken on 19 May 2015

Date 2/6/2015

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Total Rainfall on 19-May-2015
(based on raingauges and radar data)

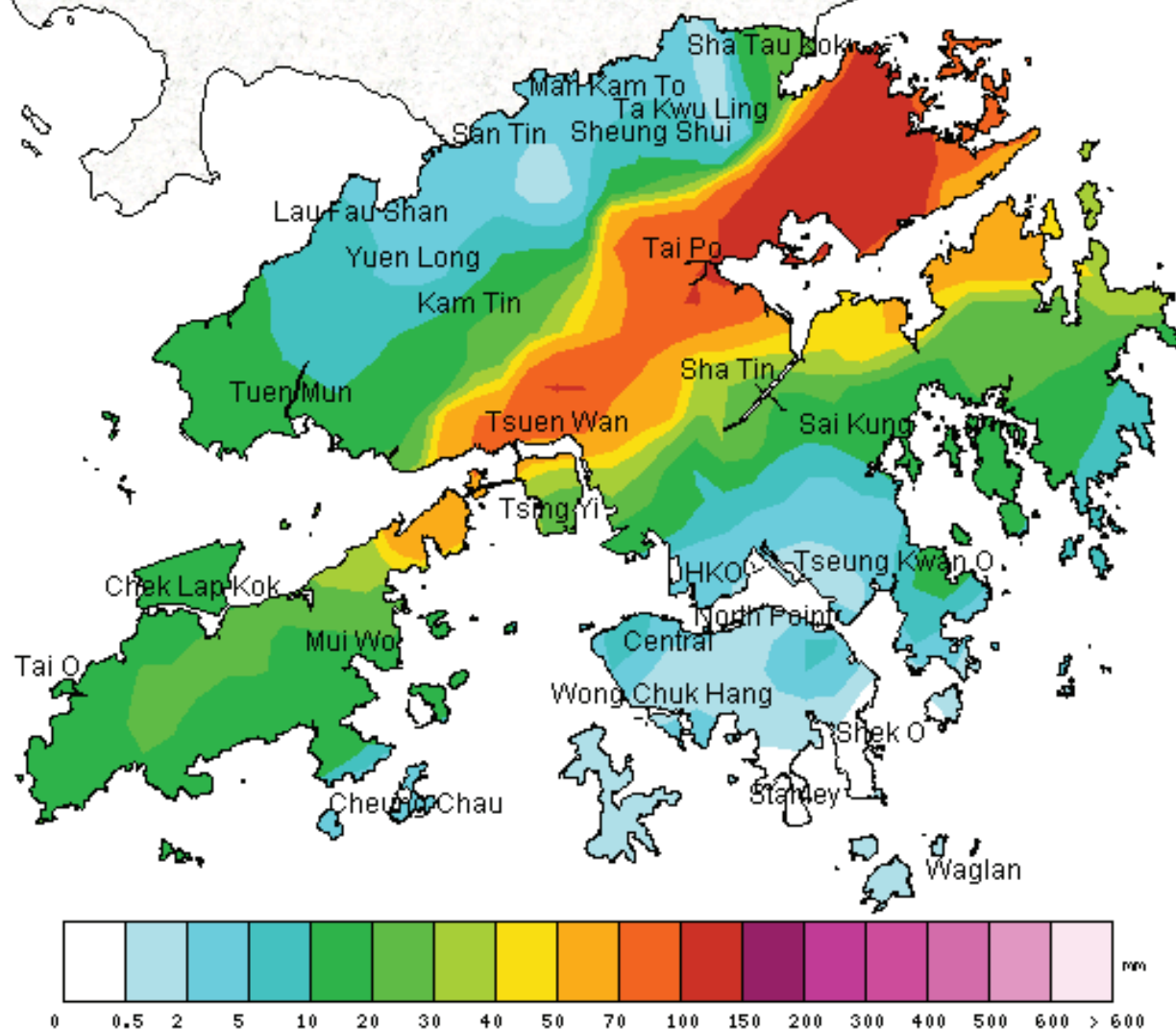


Figure 2

Rainfall distribution on 19 May 2015
(Source: Hong Kong Observatory)

Date 2/6/2015

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