Appendix I

Cumulative Statistics on Exceedances, Complaints, Notifications of Summons and Successful Prosecutions

Appendix I1 Cumulative Statistics on Exceedances

		Total No. recorded in this reporting quarter	Total No. recorded since contract commencement
1-Hr TSP	Action	4	39
	Limit	1	8
24-Hr TSP	Action	0	2
	Limit	0	0
Landfill gas hazard m	onitoring		
 Methane 	Action	0	0
	Limit	0	0
 Oxygen 	Action	0	0
	Limit	0	0
 Carbon Dioxide 	Action	0	0
	Limit	0	0

Appendix I2 Cumulative Statistics on Complaints, Notifications of Summons and Successful Prosecutions

Reporting Period	Cumulative Statistics			
	Complaints Notifications of		Successful	
		Summons	Prosecutions	
This reporting quarter	0	0	0	
Total No. received since contract	1	0	0	
commencement				

Email message

To

Environmental Resources Management

Ramboll Hong Kong Limited (ENPO)

2507, 25/F One Harbourfront, 18 Tak Fung Street,

From ERM- Hong Kong, Limited

Hung Hom, Hong Kong Telephone: (852) 2271 3113 Facsimile: (852) 2723 5660 E-mail: jasmine.ng@erm.com

Ref/Project number Contract No. HY/2017/10

Tuen Mun – Chek Lap Kok Link – Northern Connection Tunnel Buildings, Electrical and

Mechanical Works

Subject Notification of Exceedance for Air Quality

Impact Monitoring

Date 30 December 2019



Dear Sir/ Madam,

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

Action Level Exceedance

0463091_1December2019_1hrTSP_Station ASR10 0463091_1December2019_1hrTSP_Station ASR5

Limit Level Exceedance

0463091_1December2019_1hrTSP_Station ASR1

Three (3) exceedances were recorded on 1 December 2019.

Regards,

Dr Jasmine Ng

Environmental Team Leader

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ERM-Hong Kong, Limited

CONTRACT NO. HY/2017/10 TUEN MUN - CHEK LAP KOK LINK NORTHERN CONNECTION TUNNEL BUILDINGS, ELECTRICAL AND MECHANICAL WORKS

Air Quality Impact Monitoring

Notification of Exceedance

Log No.	Action Level Exceedance				
J	0463091_1December2019_1hrTSP_Station ASR10				
	0463091_1December2019_1hrTSP_Station ASR5				
	0405071_IDecember2017_Init 101_Station /ISRS				
	Limit Level Exceedance				
	0463				
	0463091_1December2019_1hrTSP_Station ASR1				
		[Total No. of Exceedances = 3]			
Date		1 December 2019 (Measured)			
	6 Ianua	ry 2020 (Results obtained from ENPO Website)			
Monitoring Station	Junua	ASR1, ASR5 and ASR10			
=		AORI, AORO and AORIO			
Parameter(s) with Exceedance(s)		1- hr TSP			
` '	4.1 FOD (/ 2)	ACD1 201			
Action Levels	1-hr TSP (μg/m³)	ASR1 = 331			
		ASR5 = 340 ASR6 = 338			
		ASR0 = 335			
		ASK10 - 333 AQMS1 = 337			
	24-hr TSP (μg/m³)	ASR1 = 213			
	24-11 131 (μg/ 111-)	ASR5 = 238			
		ASR6 = 238			
		ASR10 = 214			
		AQMS1 = 213			
Limit Levels	1-hr TSP (μg/m³)	500			
	24-hr TSP (μg/m³)	260			
Measured Levels	, 0. ,	t (Data are source from Contract No. HY/2012/08).			
Works Undertaken (at	No works undertaken under this Contract on 1 December 2019.				
the time of monitoring	The works under the contract on 1 2 certified 2017				
event)					
Possible Reason for	The exceedance is unlikely to be due to the Contract, in view of the following:				
Action or Limit Level		C			
Exceedance(s)	No construction works was conducted on 1 December 2019.				
Exceedance(s)	• The construction area under this Contract were mainly paved. The remaining unpaved area are				
	seated by machines such as crane machines and generators or used as material storage area with				
	proper cover of tarpaulin sheet. The exposed area are suppressed/covered. Dust are not				
	anticipated. During ET's site inspection on 29 November 2019, the work area at Maintenance				
	Depot and Administration Building were mainly paved. No dust generating activities/dust				
	emission was observed (refer to <i>Appendix A</i>).				
	l l l l l l l l l l l l l l l l l l l				
	Based on the above, the exceedances are unlikely to be due to the Contract.				
Actions Taken / To Be	The Contractor has been reminded to ensure all dust suppression measures are implemented at the				
Taken	site area. The ET will monitor for future trends in exceedances.				
Remarks	The monitoring results on 1 December 2019, locations of air quality monitoring stations, wind data				
	are attached.				

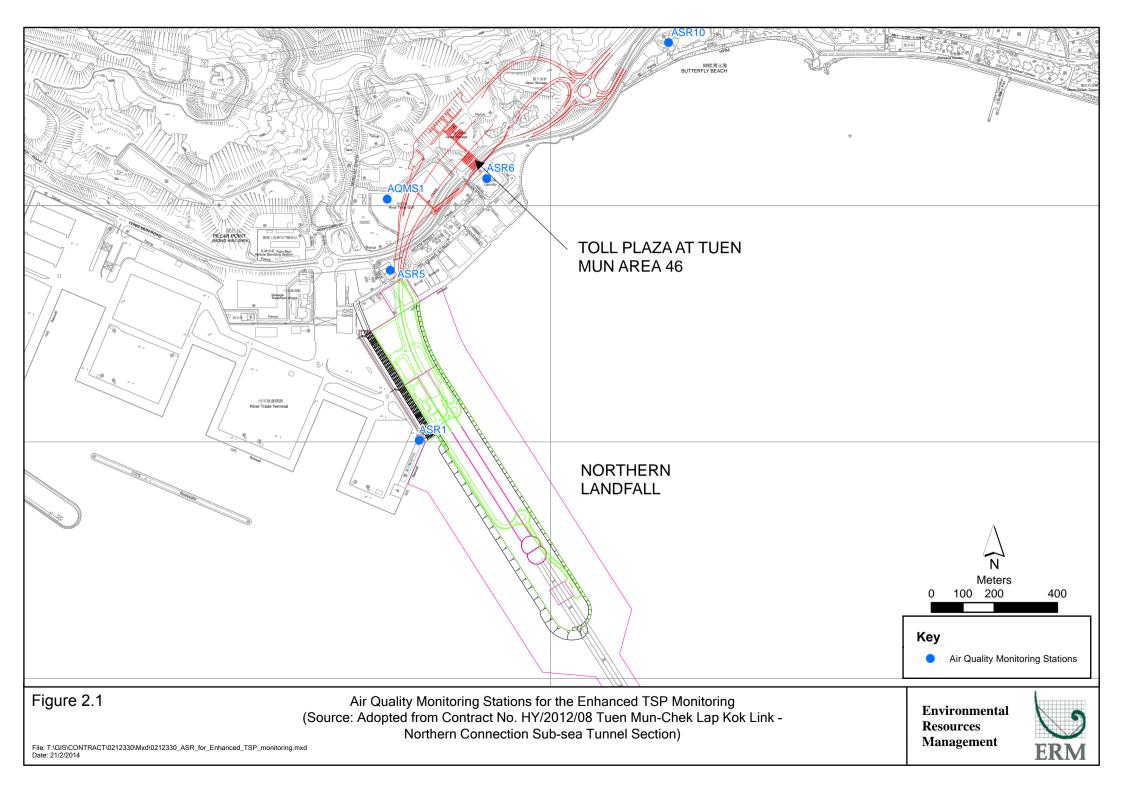
Results of Air Quality Monitoring

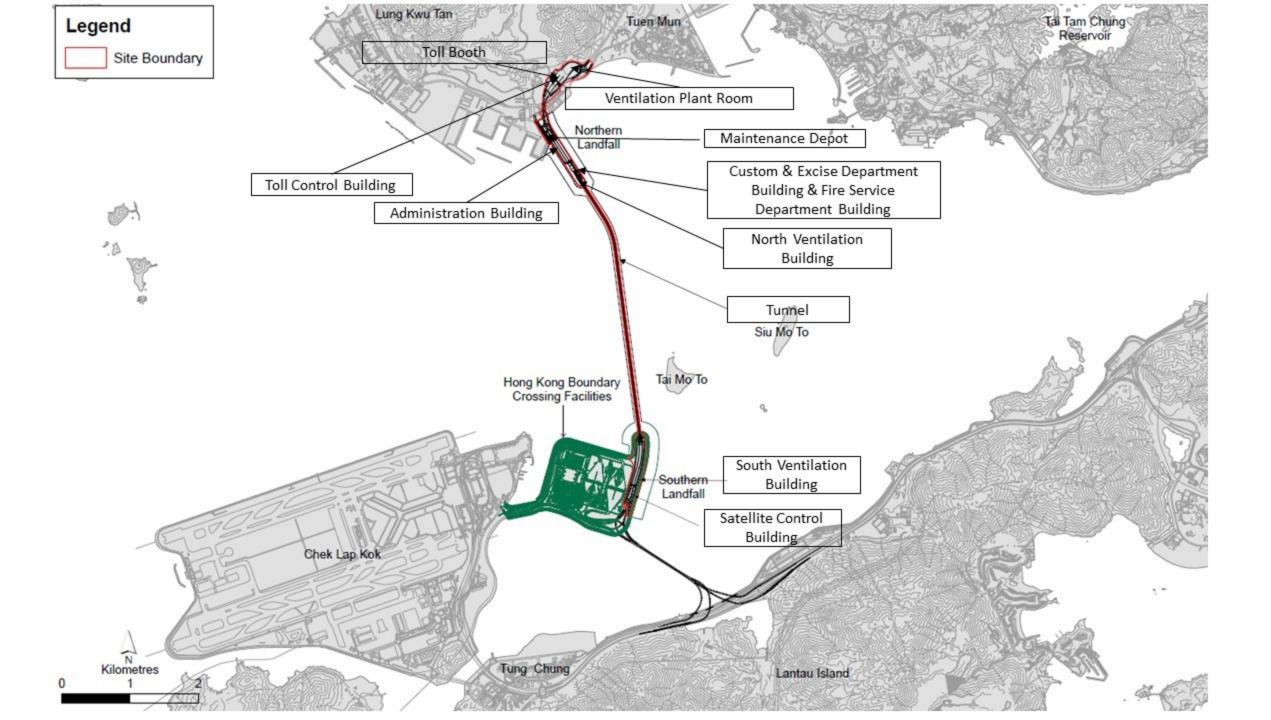
Project	Contract	Date (yyyy-mm-dd)	Station	Time	Parameter	Results	Unit
TMCLKL	HY/2012/08	2019-12-01	AQMS1	13:58:00	1-hour TSP	185	ug/m3
TMCLKL	HY/2012/08	2019-12-01	AQMS1	15:00:00	1-hour TSP	117	ug/m3
TMCLKL	HY/2012/08	2019-12-01	AQMS1	16:02:00	1-hour TSP	161	ug/m3
TMCLKL	HY/2012/08	2019-12-01	ASR1	13:47:00	1-hour TSP	231	ug/m3
TMCLKL	HY/2012/08	2019-12-01	ASR1	14:49:00	1-hour TSP	209	ug/m3
TMCLKL	HY/2012/08	2019-12-01	ASR1	15:51:00	1-hour TSP	747	ug/m3
TMCLKL	HY/2012/08	2019-12-01	ASR10	13:11:00	1-hour TSP	137	ug/m3
TMCLKL	HY/2012/08	2019-12-01	ASR10	14:13:00	1-hour TSP	129	ug/m3
TMCLKL	HY/2012/08	2019-12-01	ASR10	15:15:00	1-hour TSP	407	ug/m3
TMCLKL	HY/2012/08	2019-12-01	ASR5	13:36:00	1-hour TSP	196	ug/m3
TMCLKL	HY/2012/08	2019-12-01	ASR5	14:38:00	1-hour TSP	127	ug/m3
TMCLKL	HY/2012/08	2019-12-01	ASR5	15:40:00	1-hour TSP	377	ug/m3
TMCLKL	HY/2012/08	2019-12-01	ASR6	13:23:00	1-hour TSP	216	ug/m3
TMCLKL	HY/2012/08	2019-12-01	ASR6	14:25:00	1-hour TSP	149	ug/m3
TMCLKL	HY/2012/08	2019-12-01	ASR6	15:27:00	1-hour TSP	160	ug/m3
TMCLKL	HY/2012/08	2019-12-01	AQMS1	17:04:00	24-hour TSP	107	ug/m3
TMCLKL	HY/2012/08	2019-12-01	ASR1	16:53:00	24-hour TSP	168	ug/m3
TMCLKL	HY/2012/08	2019-12-01	ASR10	16:17:00	24-hour TSP	103	ug/m3
TMCLKL	HY/2012/08	2019-12-01	ASR5	16:42:00	24-hour TSP	110	ug/m3
TMCLKL	HY/2012/08	2019-12-01	ASR6	16:29:00	24-hour TSP	134	ug/m3

Note: Indicates Exceedance of Action Level

Indicates Exceedance of Limit Level

Meteorological Data for Impact Monitoring in the reporting period					
Date (yy-mm-dd) Time (24hrs)		Average of Wind Speed (m/s)	Average of Wind Direction(degree)		
19/12/01	1:00	1.3	304		
19/12/01	2:00	1.3	319		
19/12/01	3:00	0.9	303		
19/12/01	4:00	0.4	290		
19/12/01	5:00	0.4	339		
19/12/01	6:00	0	-		
19/12/01	7:00	0	-		
19/12/01	8:00	1.3	28		
19/12/01	9:00	1.3	28		
19/12/01	10:00	1.8	207		
19/12/01	11:00	1.3	210		
19/12/01	12:00	1.8	309		
19/12/01	13:00	2.7	273		
19/12/01	14:00	2.2	288		
19/12/01	15:00	1.8	272		
19/12/01	16:00	0.9	302		
19/12/01	17:00	0.9	319		
19/12/01	18:00	0.9	288		
19/12/01	19:00	1.3	289		
19/12/01	20:00	1.3	315		
19/12/01	21:00	2.2	309		
19/12/01	22:00	1.8	311		
19/12/01	23:00	1.3	318		





Appendix A

ET site inspection on 29 November 2019

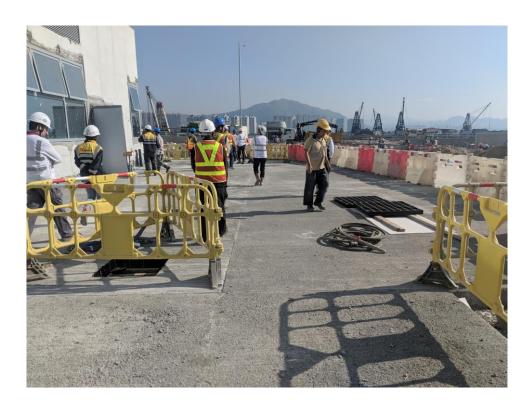


Photo 1 – Site condition at Maintenance Depot

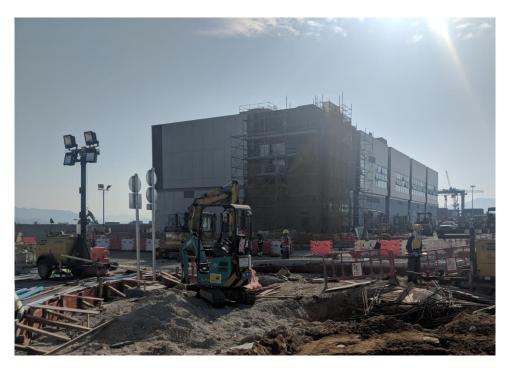


Photo 2 – Site condition at Administration Building

Email message Environmental Resources Management

To Ramboll Hong Kong Limited (ENPO)

25/F One Harbourfront, 18 Tak Fung Street,

From ERM- Hong Kong, Limited

Hung Hom, Hong Kong Telephone: (852) 2271 3113 Facsimile: (852) 2723 5660 E-mail: jasmine.ng@erm.com

Ref/Project number Contract No. HY/2017/10

Tuen Mun – Chek Lap Kok Link – Northern Connection Tunnel Buildings, Electrical and

Mechanical Works

Subject Notification of Exceedance for Air Quality

Impact Monitoring

Date 30 December 2019



Dear Sir/ Madam,

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

Action Level Exceedance

0463091_4December2019_1hrTSP_Station ASR1 0463091_4December2019_1hrTSP_Station ASR5

Two (2) exceedances were recorded on 4 December 2019.

Regards,

Dr Jasmine Ng

Environmental Team Leader

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ERM-Hong Kong, Limited

CONTRACT NO. HY/2017/10 TUEN MUN - CHEK LAP KOK LINK NORTHERN CONNECTION TUNNEL BUILDINGS, ELECTRICAL AND MECHANICAL WORKS

Air Quality Impact Monitoring

Notification of Exceedance

Log No.	Action Level Exceedance				
	0463091_28November2019_1hrTSP_Station ASR1				
	0463091_28November2019_1hrTSP_Station ASR5				
	[Total No. of Exceedances = 2]				
Date		4 December 2019 (Measured)			
	6 Janua	ary 2020 (Results obtained from ENPO Website)			
Monitoring Station		ASR1 and ASR5			
Parameter(s) with Exceedance(s)		1- hr TSP			
Action Levels	1-hr TSP (μg/m³)	ASR1 = 331 ASR5 = 340 ASR6 = 338 ASR10 = 335 AQMS1 = 337			
	24-hr TSP (μg/m³)	ASR1 = 213 ASR5 = 238 ASR6 = 238 ASR10 = 214 AQMS1 = 213			
Limit Levels	1-hr TSP (μg/m³)	500			
	24-hr TSP (μg/m³)	260			
Measured Levels	Refer to the attached data she	et (Data are source from Contract No. HY/2012/08).			
Works Undertaken (at		Contract on 4 December 2019 included			
the time of monitoring		l Works and Architectural Builder's Work and Finishes at			
event)	Administration Building; Electrical and Mechanica	l Works and Architectural Builder's Work and Finishes at Maintenance			
	Depot;	1 Works and Theintectural bander 5 Work and I misnes at Wantenance			
	Electrical and Mechanical Works and Architectural Builder's Work and Finishes at Fire Services				
Possible Reason for	The exceedances are unlikely to be due to the Contract, in view of the following:				
Action or Limit Level Exceedance(s)	 Department Building. The exceedances are unlikely to be due to the Contract, in view of the following: With reference to the recorded wind direction (ranged between 14° and 356°, blowing from a northern direction) and wind speed (ranged between 2.7 and 3.1 m/s) when exceedances recorded, ASR5 is located upstream to the construction work area which is unlikely impacted by the construction activities conducted by this Contract on 4 December 2019. ASR1 is located nearby to the construction works at Maintenance Depot and Administration Building. However, the construction works at Maintenance Depot and Administration Building were mainly Electrical and Mechanical Works and Architectural Builders Work and Finishes which are considered not major dust generating works (refer to Appendix A). No major dust generating activities i.e. excavation works was conducted on 4 December 2019. The construction area under this Contract were mainly paved. The remaining unpaved area are seated by machines such as crane machines and generators or used as material storage area with proper cover of tarpaulin sheet. The exposed area are suppressed/covered. Dust are not anticipated. Based on the above, the exceedances are unlikely to be due to the Contract. 				

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 4 December 2019, locations of air quality monitoring stations and wind data are attached.

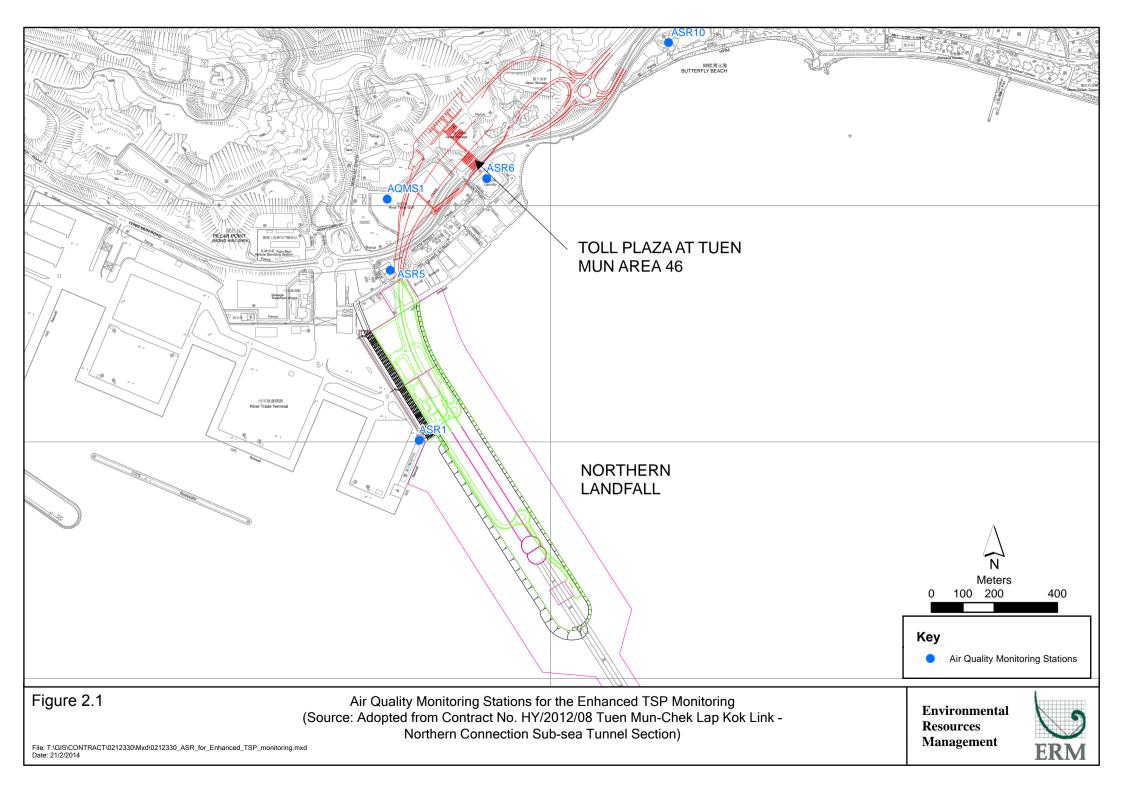
Results of Air Quality Monitoring

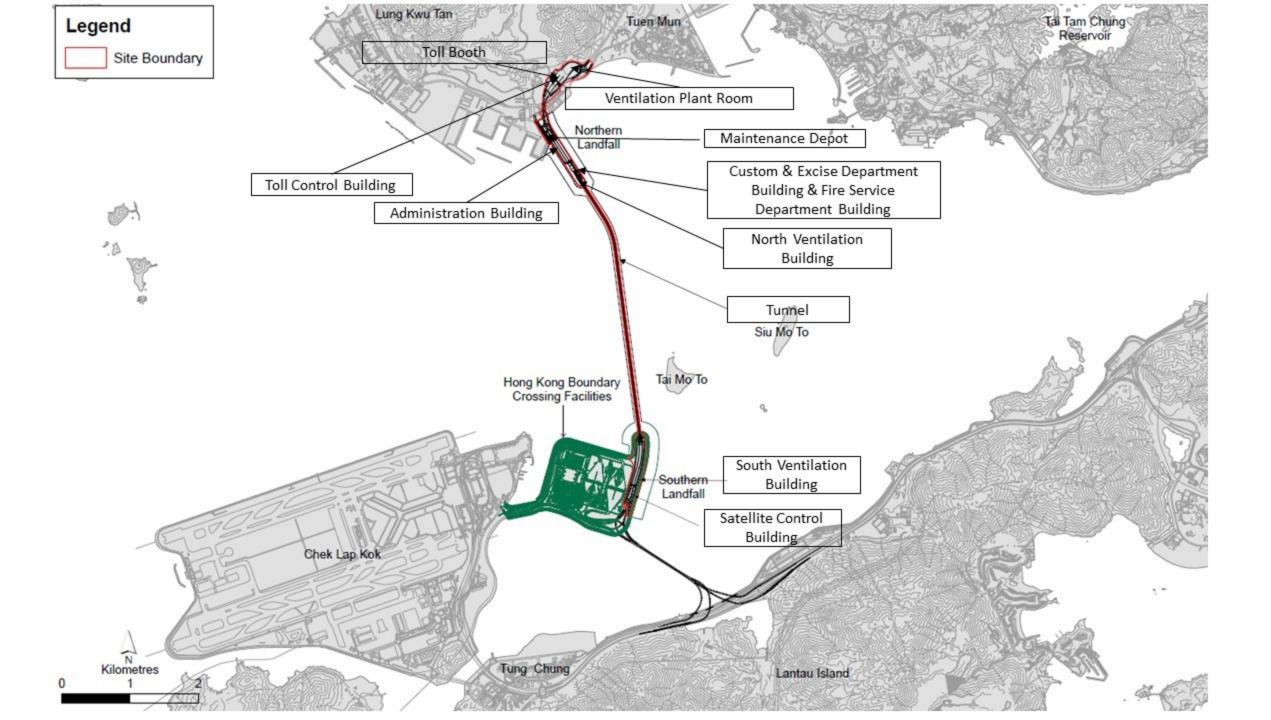
Project	Contract	Date (yyyy-mm-dd)	Station	Time	Parameter	Results	Unit
TMCLKL	HY/2012/08	2019-12-04	AQMS1	8:44:00	1-hour TSP	156	ug/m3
TMCLKL	HY/2012/08	2019-12-04	AQMS1	9:51:00	1-hour TSP	160	ug/m3
TMCLKL	HY/2012/08	2019-12-04	AQMS1	10:53:00	1-hour TSP	116	ug/m3
TMCLKL	HY/2012/08	2019-12-04	ASR1	8:37:00	1-hour TSP	366	ug/m3
TMCLKL	HY/2012/08	2019-12-04	ASR1	9:39:00	1-hour TSP	220	ug/m3
TMCLKL	HY/2012/08	2019-12-04	ASR1	10:41:00	1-hour TSP	100	ug/m3
TMCLKL	HY/2012/08	2019-12-04	ASR10	8:02:00	1-hour TSP	103	ug/m3
TMCLKL	HY/2012/08	2019-12-04	ASR10	9:04:00	1-hour TSP	113	ug/m3
TMCLKL	HY/2012/08	2019-12-04	ASR10	10:06:00	1-hour TSP	101	ug/m3
TMCLKL	HY/2012/08	2019-12-04	ASR5	8:25:00	1-hour TSP	380	ug/m3
TMCLKL	HY/2012/08	2019-12-04	ASR5	9:27:00	1-hour TSP	180	ug/m3
TMCLKL	HY/2012/08	2019-12-04	ASR5	10:29:00	1-hour TSP	202	ug/m3
TMCLKL	HY/2012/08	2019-12-04	ASR6	8:13:00	1-hour TSP	150	ug/m3
TMCLKL	HY/2012/08	2019-12-04	ASR6	9:15:00	1-hour TSP	163	ug/m3
TMCLKL	HY/2012/08	2019-12-04	ASR6	10:17:00	1-hour TSP	169	ug/m3
TMCLKL	HY/2012/08	2019-12-04	AQMS1	11:55:00	24-hour TSP	97	ug/m3
TMCLKL	HY/2012/08	2019-12-04	ASR1	11:43:00	24-hour TSP	164	ug/m3
TMCLKL	HY/2012/08	2019-12-04	ASR10	11:08:00	24-hour TSP	84	ug/m3
TMCLKL	HY/2012/08	2019-12-04	ASR5	11:31:00	24-hour TSP	190	ug/m3
TMCLKL	HY/2012/08	2019-12-04	ASR6	11:19:00	24-hour TSP	118	ug/m3

Note: Indicates Exceedance of Action Level

ndicates Exceedance of Limit Level

Meteorological Data for Impact Monitoring in the reporting period					
Date (yy-mm-dd)	Time (24hrs)	Average of Wind Speed (m/s)	Average of Wind Direction(degree)		
19/12/04	0:00	1.8	328		
19/12/04	1:00	2.7	30		
19/12/04	2:00	2.2	25		
19/12/04	3:00	1.8	13		
19/12/04	4:00	1.8	19		
19/12/04	5:00	2.7	355		
19/12/04	6:00	1.8	339		
19/12/04	7:00	1.8	339		
19/12/04	8:00	3.1	356		
19/12/04	9:00	2.7	14		
19/12/04	10:00	2.2	28		
19/12/04	11:00	2.2	16		
19/12/04	12:00	1.8	31		
19/12/04	13:00	1.8	31		
19/12/04	14:00	1.3	306		
19/12/04	15:00	2.2	325		
19/12/04	16:00	1.8	345		
19/12/04	17:00	1.8	341		
19/12/04	18:00	0.9	306		
19/12/04	19:00	0.4	292		
19/12/04	20:00	0.4	311		
19/12/04	21:00	1.3	14		
19/12/04	22:00	1.3	56		
19/12/04	23:00	1.8	28		





Appendix A

Site Photo



Photo 1 – Construction works at Administration Building



Photo 2 – Construction works at Maintenance Depot



Photo 3 - Construction works at Fire Services Department Building