Appendix I

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

		Total No. recorded in this reporting quarter	Total No. recorded since contract commencement
1-Hr TSP	Action	8	35
	Limit	4	7
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 commencement	1	0	0		

ENVIRONMENTAL RESOURCES MANAGEMENT

8		Management
То	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
Ref/Project number	Contract No. HY/2017/10 Tuen Mun – Chek Lap Kok Link – Northern Connection Tunnel Buildings, Electrical and Mechanical Works	E-mail: jasmine.ng@erm.com
Subject	Notification of Exceedance for Air Quality Impact Monitoring	ERM
Date	09 October 2019	

Environmental

Resources

Dear Sir/ Madam,

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

Limit Level Exceedance 0463091_20September2019_1hrTSP_Station ASR1

One (1) exceedances were recorded on 20 September 2019.

Regards,

famin

Dr Jasmine Ng Environmental Team Leader

CONFIDENTIALITY NOTICE

This facsimile transmission is intended only for the use of the addressee and is confidential. If you are not the addressee it may be unlawful for you to read, copy, distribute, disclose or otherwise use the information in this facsimile. If you are not the intended recipient, please telephone or fax us immediately.



Contract No. HY/2017/10 Tuen Mun – Chek Lap Kok Link – Northern Connection Tunnel Buildings, Electrical and Mechanical Works

Air Quality Impact Monitoring

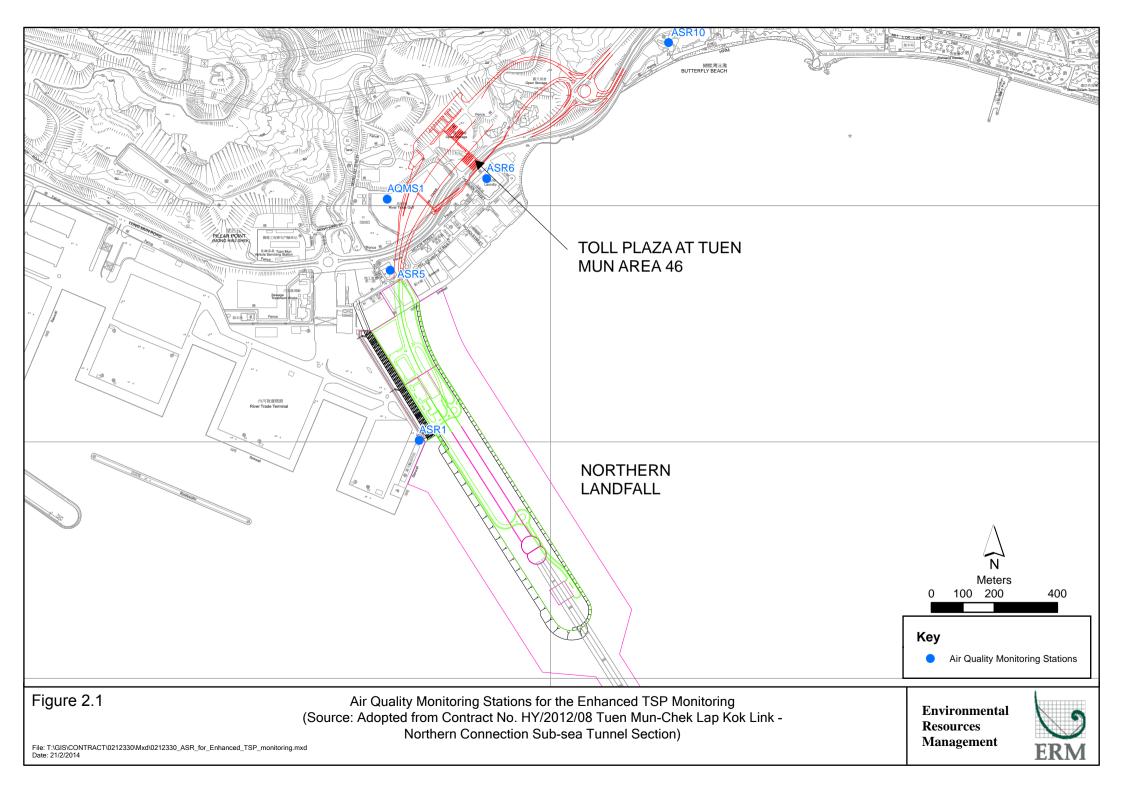
Log No.		Limit Level Exceedance			
Log No.	0463	3091_20September2019_1hrTSP_Station ASR1			
	0100				
	[Total No. of Exceedances = 1]				
Date	20 September 2019 (Measured)				
	9 October 2019 (Results obtained from ENPO Website)				
Monitoring Station		ASR1			
Parameter(s) with					
Exceedance(s)		1- hr TSP			
Action Levels	1-hr TSP (μg/m ³)	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/m ³)	500			
	24-hr TSP (μg/m ³)	260			
Measured Levels	Refer to the attached data she	eet (Data are source from Contract No. HY/2012/08).			
Works Undertaken (at	Works undertaken under this	s Contract on 20 September 2019.			
the time of monitoring		al Works and Architectural Builders Work and Finishes at Maintenance			
event)	Depot and Administration Building; Building Structure at Fire Services Department Building				
	and Customs and Excise				
Possible Reason for	The exceedance is unlikely to	be due to the Contract, in view of the following:			
Action or Limit Level	 Apart from exceedance of 	1-hr TSP at ASR1 during 10:49-11:49 on 20 September 2019, all 1-hr			
Exceedance(s)	TSP levels at all monitorir	ng stations were in compliance with the Action and Limit Levels on the			
	same day.				
	,	orded wind direction (ranged between 2° and 5°, blowing from a			
		vind speed (ranged between 0.5 and 0.7 m/s) when exceedance			
		downstream to the construction works at Maintenance Depot and in			
		n Building. However, the construction works at Maintenance Depot			
	and Administration Build	ling were Electrical and Mechanical Works and Architectural Builders			
	Work and Finishes which	are considered not major dust generating works (refer to attached			
	photos).				
	• In addition, other constru	ction activities which located further away included Building Structure			
		nt Building and Customs and Excise Department Building. These			
	-	so considered not major dust generating works.			
		so considered not major dust generaling works.			
	Decod on the star star	denote in writing to be due to the Contract			
		edance is unlikely to be due to the Contract.			
Actions Taken / To Be		inded to ensure all dust suppression measures are implemented at the			
Taken	site area. The ET will monit	or for future trends in exceedances.			

Remarks	The monitoring results on 20 September and locations of air quality monitoring stations are
	attached.

	.			Time			
Project	Contract	Date (yyyy-mm-dd)	Station	(hh:mm,	Parameter	Results	Unit
				24 hour)			
TMCLKL	HY/2012/08	2019-09-20	AQMS1	08:56	1-hour TSP	125	ug/m3
TMCLKL	HY/2012/08	2019-09-20	AQMS1	09:58	1-hour TSP	116	ug/m3
TMCLKL	HY/2012/08	2019-09-20	AQMS1	11:00	1-hour TSP	112	ug/m3
TMCLKL	HY/2012/08	2019-09-20	ASR1	08:45	1-hour TSP	220	ug/m3
TMCLKL	HY/2012/08	2019-09-20	ASR1	09:47	1-hour TSP	214	ug/m3
TMCLKL	HY/2012/08	2019-09-20	ASR1	10:49	1-hour TSP	539	ug/m3
TMCLKL	HY/2012/08	2019-09-20	ASR10	08:11	1-hour TSP	107	ug/m3
TMCLKL	HY/2012/08	2019-09-20	ASR10	09:13	1-hour TSP	93	ug/m3
TMCLKL	HY/2012/08	2019-09-20	ASR10	10:15	1-hour TSP	58	ug/m3
TMCLKL	HY/2012/08	2019-09-20	ASR5	08:33	1-hour TSP	141	ug/m3
TMCLKL	HY/2012/08	2019-09-20	ASR5	09:35	1-hour TSP	188	ug/m3
TMCLKL	HY/2012/08	2019-09-20	ASR5	10:37	1-hour TSP	144	ug/m3
TMCLKL	HY/2012/08	2019-09-20	ASR6	08:23	1-hour TSP	152	ug/m3
TMCLKL	HY/2012/08	2019-09-20	ASR6	09:25	1-hour TSP	163	ug/m3
TMCLKL	HY/2012/08	2019-09-20	ASR6	10:27	1-hour TSP	131	ug/m3

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

Meteorological Data for Impact Monitoring in the reporting period					
Date (dd-mm-yyyy)	Time (24hrs)	Average of Wind Speed (m/s)	Average of Wind Direction(degree)		
20-09-2019	0:00	0.5	274		
20-09-2019	1:00	0.6	285		
20-09-2019	2:00	1.2	291		
20-09-2019	3:00	1	288		
20-09-2019	4:00	1.1	251		
20-09-2019	5:00	0.5	322		
20-09-2019	6:00	0.4	288		
20-09-2019	7:00	0.3	351		
20-09-2019	8:00	0.5	350		
20-09-2019	9:00	0.6	347		
20-09-2019	10:00	0.7	5		
20-09-2019	11:00	0.5	2		
20-09-2019	12:00	0.5	347		
20-09-2019	13:00	0.3	322		
20-09-2019	14:00	0.8	21		
20-09-2019	15:00	0.2	24		
20-09-2019	16:00	0.1	3		
20-09-2019	17:00	0.1	357		
20-09-2019	18:00	0.2	344		
20-09-2019	19:00	0.3	351		
20-09-2019	20:00	0.5	352		
20-09-2019	21:00	0.6	287		
20-09-2019	22:00	1.1	295		
20-09-2019	23:00	0.4	354		
20-09-2019	0:00	0.3	305		



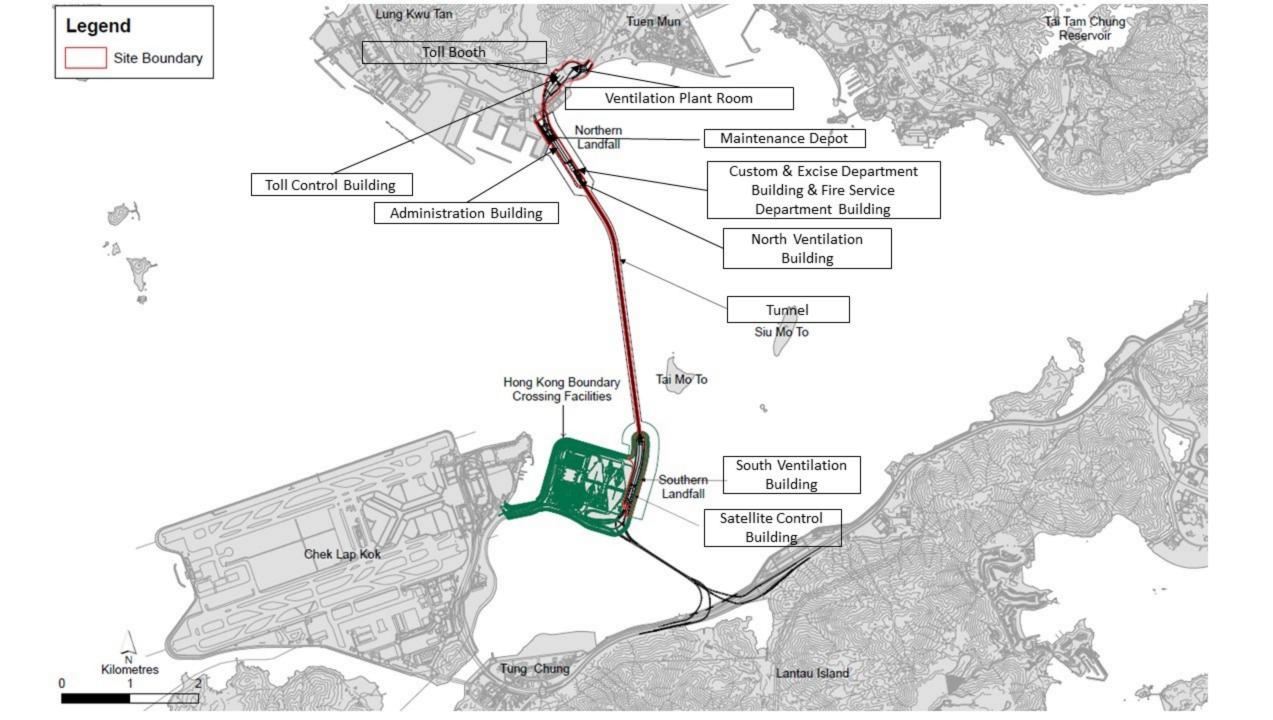




Photo 1 - Construction works at Administration Building



Photo 2 - Construction works at Maintenance Depot

Email message		Environmental Resources Management
То	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
Ref/Project number	Contract No. HY/2017/10 Tuen Mun – Chek Lap Kok Link – Northern Connection Tunnel Buildings, Electrical and	E-mail: jasmine.ng@erm.com
	Mechanical Works	
Subject	Notification of Exceedance for Air Quality Impact Monitoring	ERM
Date	7 November 2019	

Dear Sir/ Madam,

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

Action Level Exceedance 0463091_14October2019_1hrTSP_Station ASR1

One (1) exceedance was recorded on 14 October 2019.

Regards,

famin

Dr Jasmine Ng Environmental Team Leader

CONFIDENTIALITY NOTICE

This facsimile transmission is intended only for the use of the addressee and is confidential. If you are not the addressee it may be unlawful for you to read, copy, distribute, disclose or otherwise use the information in this facsimile. If you are not the intended recipient, please telephone or fax us immediately.



Contract No. HY/2017/10 Tuen Mun – Chek Lap Kok Link – Northern Connection Tunnel Buildings, Electrical and Mechanical Works

Air Quality Impact Monitoring

T NT-	Action Loval Exceedance					
Log No.	Action Level Exceedance					
	0463091_14October2019_1hrTSP_Station ASR1					
	[Total No. of Exceedances = 1]					
Date	14 October 2019 (Measured)					
	7 Novem	ber 2019 (Results obtained from ENPO Website)				
Monitoring Station		ASR1				
Parameter(s) with		1 1 TOD				
Exceedance(s)		1- hr TSP				
Action Levels	1-hr TSP ($\mu g/m^3$)	ASR1 = 331				
		ASR5 = 340				
		ASR6 = 338				
	ASR10 = 335					
	AQMS1 = 337					
	24-hr TSP (μg/m ³)	ASR1 = 213				
	ASR5 = 238					
		ASR6 = 238				
		ASR10 = 214				
T ' ' T 1		AQMS1 = 213				
Limit Levels	1-hr TSP (μg/m ³)	500				
	24-hr TSP (μg/m ³)	260				
Measured Levels	Refer to the attached data shee	t (Data are source from Contract No. HY/2012/08).				
Works Undertaken (at	Works undertaken under this (Contract on 14 October 2019 included				
the time of monitoring	Electrical and Mechanical	Works and Architectural Builders Work and Finishes at Maintenance				
event)	Depot					
,		Works and Architectural Builders Work and Finishes at				
	Administration Building					
		rk and Finishes at Fire Services Department Building				
		oms and Excise Department Building				
		Works at North Ventilation Building				
	 Architectural Builders Wo 	rk and Finishes at Toll Control Building				

Possible Reason for	The exceedance is unlikely to be due to the Contract, in view of the following:					
Action or Limit Level	• Apart from exceedance of 1-hr TSP at ASR1 during 9:50-10:50 on 14 October 2019, all 1-hr TSP					
Exceedance(s)	 levels at all monitoring stations were in compliance with the Action and Limit Levels on the same day. With reference to the recorded wind direction (ranged between 65° and 335°, blowing from a 					
	north-easterly and north-westerly direction) and wind speed (0.4 m/s) when exceedance					
	recorded, ASR1 is located downstream to the construction works at Maintenance Depot and in					
	vicinity of Administration Building. However, the construction works at Maintenance Depot and Administration Building were Electrical and Mechanical Works and Architectural Builders Work and Finishes which are considered not major dust generating works.					
	• Dust suppression measures i.e. watering were applied on site nearby Maintenance Depot and					
	Administration Building to prevent dust generation (refer to <i>watering record</i>).					
	• In addition, other construction activities which located upstream of ASR1 and further away					
	included Architectural Builders Work and Finishes at Toll Control Building. These					
	construction works are also considered not major dust generating works.					
	Based on the above, the exceedance is 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 14 October and locations of air quality monitoring stations are attached.					

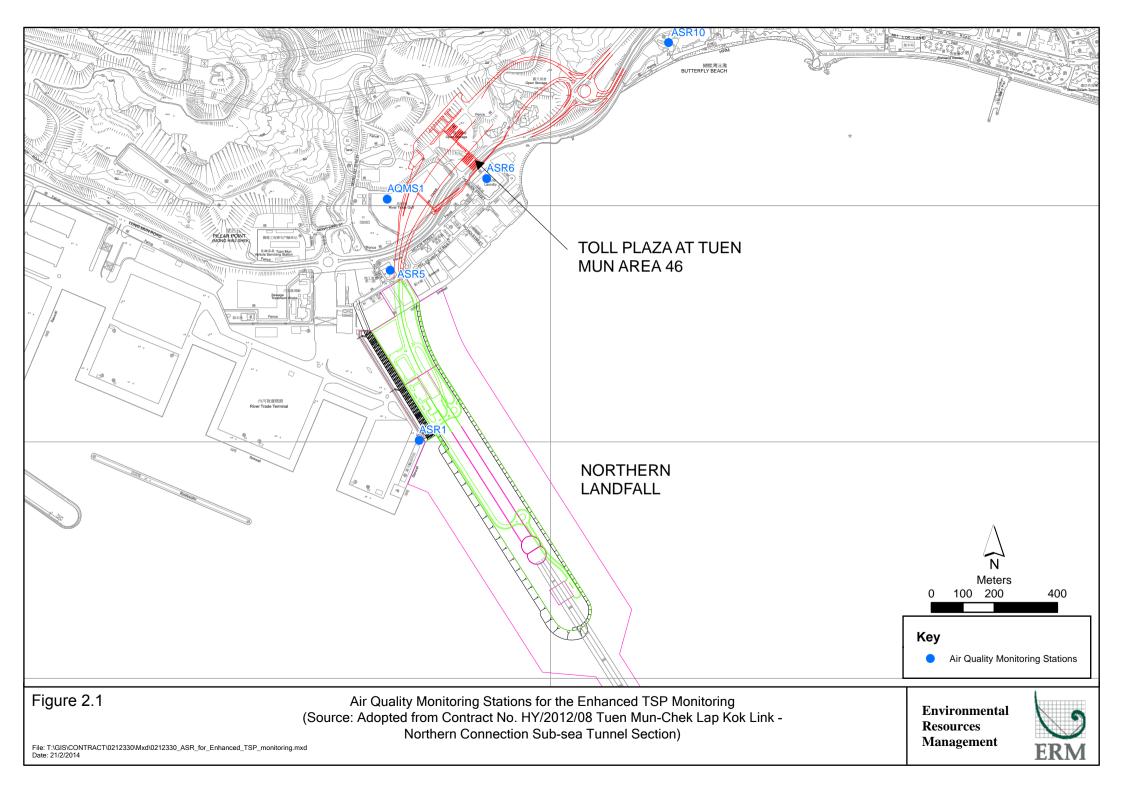
Results of Air Quality Monitoring

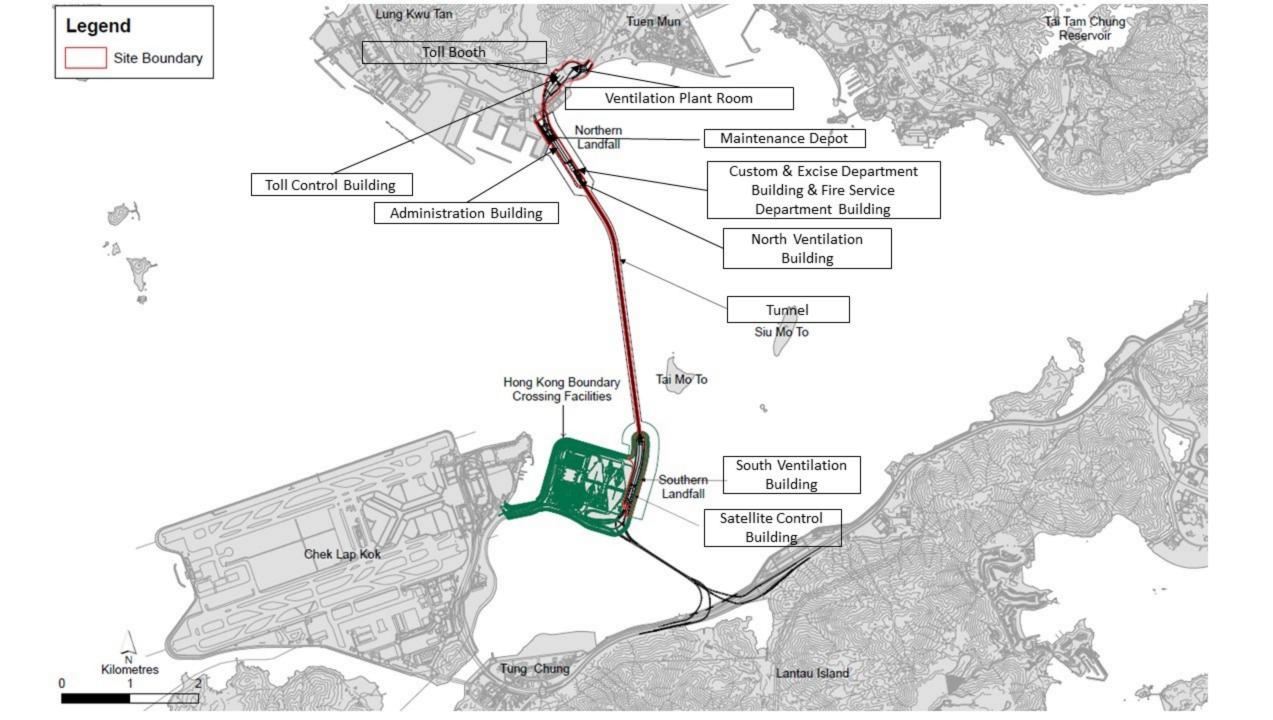
Project	Contract	Date (yyyy-mm-dd)	Station	Time	Parameter	Results	Unit
TMCLKL	HY/2012/08	2019-10-14	AQMS1	9:00:00	1-hour TSP	92	ug/m3
TMCLKL	HY/2012/08	2019-10-14	AQMS1	10:02:00	1-hour TSP	66	ug/m3
TMCLKL	HY/2012/08	2019-10-14	AQMS1	11:04:00	1-hour TSP	72	ug/m3
TMCLKL	HY/2012/08	2019-10-14	ASR1	8:48:00	1-hour TSP	93	ug/m3
TMCLKL	HY/2012/08	2019-10-14	ASR1	9:50:00	1-hour TSP	363	ug/m3
TMCLKL	HY/2012/08	2019-10-14	ASR1	10:52:00	1-hour TSP	117	ug/m3
TMCLKL	HY/2012/08	2019-10-14	ASR10	8:15:00	1-hour TSP	36	ug/m3
TMCLKL	HY/2012/08	2019-10-14	ASR10	9:17:00	1-hour TSP	35	ug/m3
TMCLKL	HY/2012/08	2019-10-14	ASR10	10:19:00	1-hour TSP	48	ug/m3
TMCLKL	HY/2012/08	2019-10-14	ASR5	8:37:00	1-hour TSP	278	ug/m3
TMCLKL	HY/2012/08	2019-10-14	ASR5	9:39:00	1-hour TSP	135	ug/m3
TMCLKL	HY/2012/08	2019-10-14	ASR5	10:41:00	1-hour TSP	154	ug/m3
TMCLKL	HY/2012/08	2019-10-14	ASR6	8:25:00	1-hour TSP	101	ug/m3
TMCLKL	HY/2012/08	2019-10-14	ASR6	9:27:00	1-hour TSP	77	ug/m3
TMCLKL	HY/2012/08	2019-10-14	ASR6	10:29:00	1-hour TSP	84	ug/m3
TMCLKL	HY/2012/08	2019-10-14	AQMS1	12:06:00	24-hour TSP	72	ug/m3
TMCLKL	HY/2012/08	2019-10-14	ASR1	11:54:00	24-hour TSP	83	ug/m3
TMCLKL	HY/2012/08	2019-10-14	ASR10	11:21:00	24-hour TSP	41	ug/m3
TMCLKL	HY/2012/08	2019-10-14	ASR5	11:43:00	24-hour TSP	116	ug/m3
TMCLKL	HY/2012/08	2019-10-14	ASR6	11:31:00	24-hour TSP	65	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)		
19/10/14	0:00	0.4	165		
19/10/14	1:00	0.4	336		
19/10/14	2:00	0.9	77		
19/10/14	3:00	0.9	66		
19/10/14	4:00	1.3	65		
19/10/14	5:00	0.9	80		
19/10/14	6:00	0.4	178		
19/10/14	7:00	0.4	187		
19/10/14	8:00	0	-		
19/10/14	9:00	0.4	65		
19/10/14	10:00	0.4	335		
19/10/14	11:00	0.9	60		
19/10/14	12:00	1.3	64		
19/10/14	13:00	0.9	83		
19/10/14	14:00	0.9	3		
19/10/14	15:00	1.3	30		
19/10/14	16:00	1.3	344		
19/10/14	17:00	1.3	114		
19/10/14	18:00	0.4	123		
19/10/14	19:00	0.4	81		
19/10/14	20:00	0.9	65		
19/10/14	21:00	0.9	86		
19/10/14	22:00	1.3	83		
19/10/14	23:00	2.7	62		





Appendix A

Watering Record on 14 October 2019

Location MD & AdB 14 OF Stan Tane Ferlod 7-8 8=30. 8-9 9:30 9-10 21:01 10-11 11=12 11=11 11-12 12:55 12-13 3=40 4:30 15=14 15:55 5-6 16=32 7=35

Email message		Environmental Resources Management
То	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
Ref/Project number	Contract No. HY/2017/10 Tuen Mun – Chek Lap Kok Link – Northern Connection Tunnel Buildings, Electrical and Mechanical Works	E-mail: jasmine.ng@erm.com
Subject	Notification of Exceedance for Air Quality Impact Monitoring	ERM
Date	7 November 2019	

Dear Sir/ Madam,

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

Action Level Exceedance 0463091_17October2019_1hrTSP_Station ASR1 0463091_17October2019_1hrTSP_Station ASR1

Two (2) exceedances were recorded on 17 October 2019.

Regards,

Jamin

Dr Jasmine Ng Environmental Team Leader

CONFIDENTIALITY NOTICE

This facsimile transmission is intended only for the use of the addressee and is confidential. If you are not the addressee it may be unlawful for you to read, copy, distribute, disclose or otherwise use the information in this facsimile. If you are not the intended recipient, please telephone or fax us immediately.



Contract No. HY/2017/10 Tuen Mun – Chek Lap Kok Link – Northern Connection Tunnel Buildings, Electrical and Mechanical Works

Air Quality Impact Monitoring

	r					
Log No.	Action Level Exceedance					
	0463	091_17October2019_1hrTSP_Station ASR1				
	0463	091_17October2019_1hrTSP_Station ASR1				
	[Total No. of Exceedances = 2]					
Date		17 October 2019 (Measured)				
	7 Novem	ber 2019 (Results obtained from ENPO Website)				
Monitoring Station		ASR1				
Parameter(s) with		1 1 700				
Exceedance(s)		1- hr TSP				
Action Levels	1-hr TSP ($\mu g/m^3$)	ASR1 = 331				
		ASR5 = 340				
		ASR6 = 338				
		ASR10 = 335				
	AQMS1 = 337					
	24-hr TSP (μg/m ³)	ASR1 = 213				
	ASR5 = 238					
	ASR6 = 238					
	ASR10 = 214					
The St Trees 1	11 TOD (/ 2)	AQMS1 = 213				
Limit Levels	1-hr TSP (μg/m ³)	500				
	24-hr TSP ($\mu g/m^3$)	260				
Measured Levels	Refer to the attached data sheet (Data are source from Contract No. HY/2012/08).					
Works Undertaken (at	Works undertaken under this C	Contract on 17 October 2019 included				
the time of monitoring	Electrical and Mechanical	Works and Architectural Builders Work and Finishes at Maintenance				
event)	Depot					
,		Works and Architectural Builders Work and Finishes at				
	Administration Building					
	Architectural Builders Work and Finishes at Fire Services Department Building					
		oms and Excise Department Building				
		Works at North Ventilation Building				
	Architectural Builders Wor	rk and Finishes at Toll Control Building				

D						
Possible Reason for	The exceedance is unlikely to be due to the Contract, in view of the following:					
Action or Limit Level	• Apart from exceedances of 1-hr TSP at ASR1 during 9:41-10:41 and 10:43-11:43 on 17 October					
Exceedance(s)	2019, all 1-hr TSP levels at all monitoring stations were in compliance with the Action and Limit					
	Levels on the same day.					
	• With reference to the recorded wind direction (ranged between 67° and 98°, blowing from a					
	north-easterly direction) and wind speed (ranged between 1.3 and 1.8 m/s) when exceedances					
	recorded, ASR1 is located downstream to the construction works at Maintenance Depot and in					
	vicinity of Administration Building. However, the construction works at Maintenance Depot					
	and Administration Building were Electrical and Mechanical Works and Architectural Builders					
	Work and Finishes which are considered not major dust generating works.					
	• Dust suppression measures i.e. watering were applied on site nearby Maintenance Depot and					
	Administration Building to prevent dust generation (refer to <i>watering record</i>).					
	• In addition, other construction activities which located upstream of ASR1 and further away					
	included Architectural Builders Work and Finishes at Toll Control Building. These					
	construction works are also considered not major dust generating works.					
	Based on the above, the exceedance is 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 17 October and locations of air quality monitoring stations are attached.					

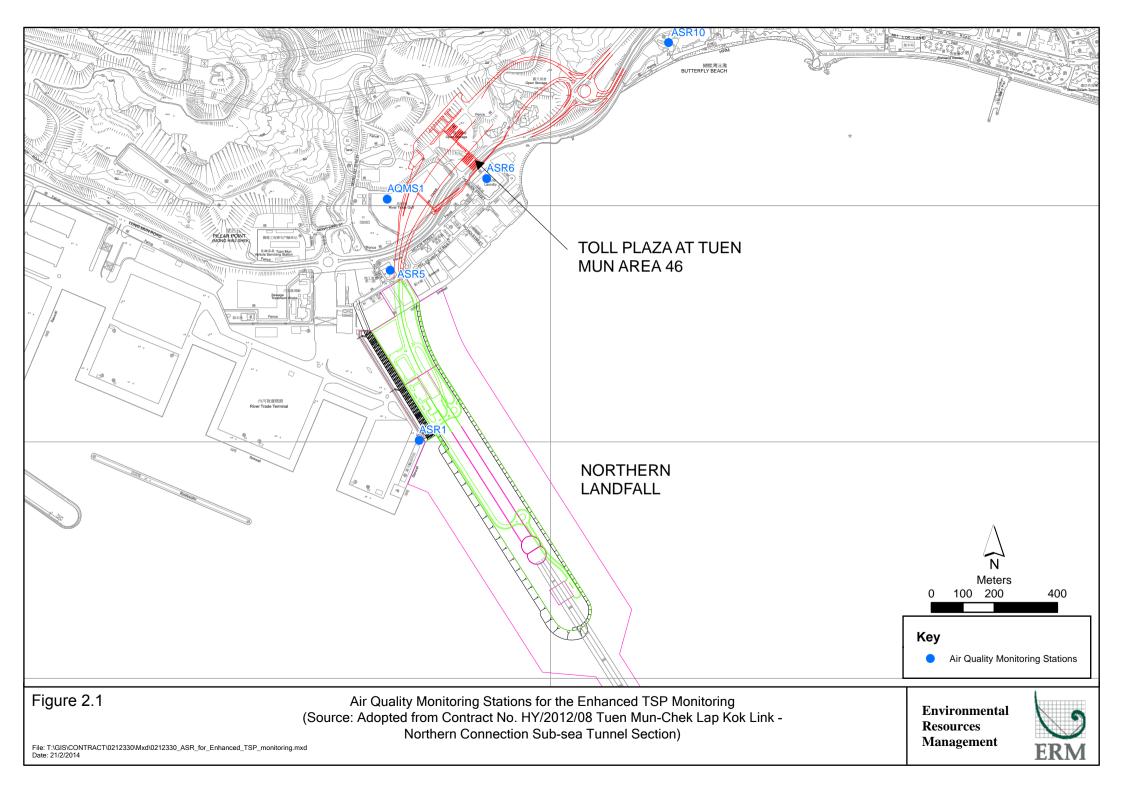
Results of Air Quality Monitoring

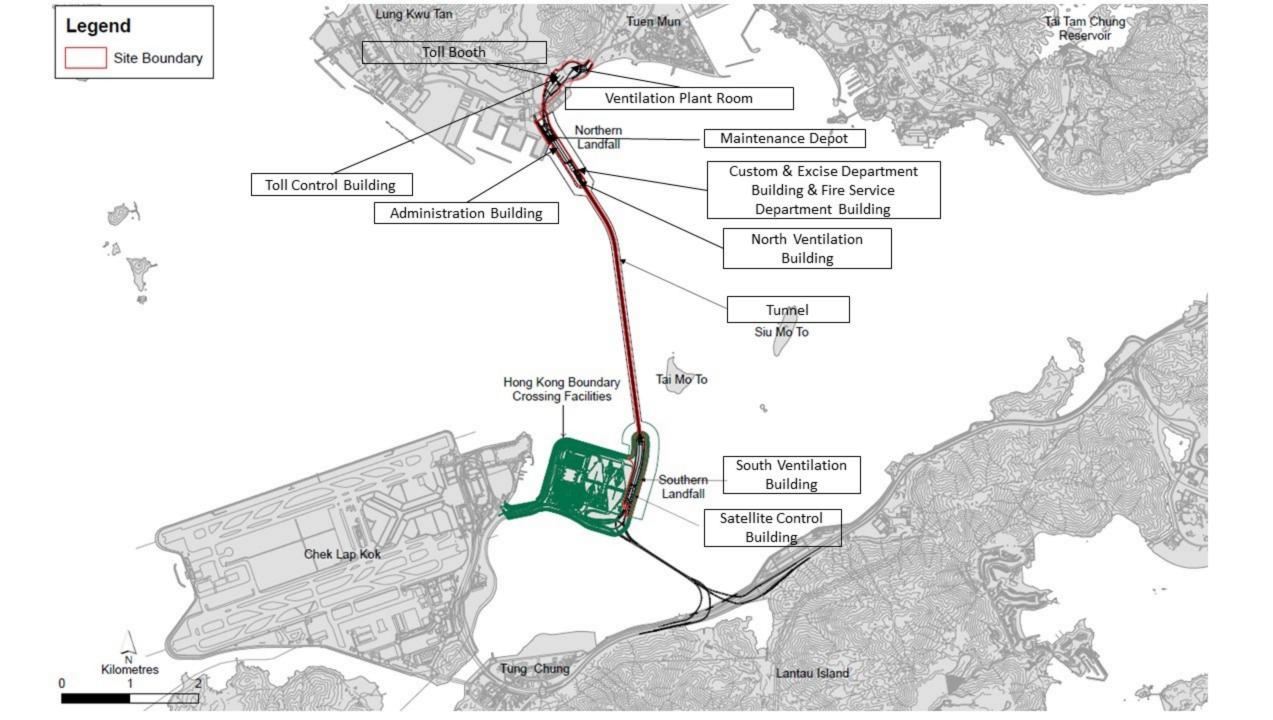
Project	Contract	Date (yyyy-mm-dd)	Station	Time	Parameter	Results	Unit
TMCLKL	HY/2012/08	2019-10-17	AQMS1	8:50:00	1-hour TSP	103	ug/m3
TMCLKL	HY/2012/08	2019-10-17	AQMS1	9:52:00	1-hour TSP	114	ug/m3
TMCLKL	HY/2012/08	2019-10-17	AQMS1	10:54:00	1-hour TSP	110	ug/m3
TMCLKL	HY/2012/08	2019-10-17	ASR1	8:39:00	1-hour TSP	331	ug/m3
TMCLKL	HY/2012/08	2019-10-17	ASR1	9:41:00	1-hour TSP	<mark>354</mark>	ug/m3
TMCLKL	HY/2012/08	2019-10-17	ASR1	10:43:00	1-hour TSP	<mark>385</mark>	ug/m3
TMCLKL	HY/2012/08	2019-10-17	ASR10	8:04:00	1-hour TSP	68	ug/m3
TMCLKL	HY/2012/08	2019-10-17	ASR10	9:06:00	1-hour TSP	73	ug/m3
TMCLKL	HY/2012/08	2019-10-17	ASR10	10:08:00	1-hour TSP	68	ug/m3
TMCLKL	HY/2012/08	2019-10-17	ASR5	8:27:00	1-hour TSP	288	ug/m3
TMCLKL	HY/2012/08	2019-10-17	ASR5	9:29:00	1-hour TSP	230	ug/m3
TMCLKL	HY/2012/08	2019-10-17	ASR5	10:31:00	1-hour TSP	165	ug/m3
TMCLKL	HY/2012/08	2019-10-17	ASR6	8:15:00	1-hour TSP	128	ug/m3
TMCLKL	HY/2012/08	2019-10-17	ASR6	9:17:00	1-hour TSP	112	ug/m3
TMCLKL	HY/2012/08	2019-10-17	ASR6	10:19:00	1-hour TSP	96	ug/m3
TMCLKL	HY/2012/08	2019-10-17	AQMS1	11:56:00	24-hour TSP	64	ug/m3
TMCLKL	HY/2012/08	2019-10-17	ASR1	11:45:00	24-hour TSP	144	ug/m3
TMCLKL	HY/2012/08	2019-10-17	ASR10	11:10:00	24-hour TSP	56	ug/m3
TMCLKL	HY/2012/08	2019-10-17	ASR5	11:33:00	24-hour TSP	100	ug/m3
TMCLKL	HY/2012/08	2019-10-17	ASR6	11:21:00	24-hour TSP	81	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)	Average of Wind Direction(degree)				
19/10/17	0:00	0.4	153		
19/10/17	1:00	0.4	108		
19/10/17	2:00	0.4	7		
19/10/17	3:00	0.4	69		
19/10/17	4:00	0.4	183		
19/10/17	5:00	0	-		
19/10/17	6:00	0.4	111		
19/10/17	7:00	1.3	101		
19/10/17	8:00	2.2	67		
19/10/17	9:00	1.8	84		
19/10/17	10:00	1.3	98		
19/10/17	11:00	1.8	67		
19/10/17	12:00	1.3	98		
19/10/17	13:00	1.8	44		
19/10/17	14:00	1.3	56		
19/10/17	15:00	0.9	74		
19/10/17	16:00	0.9	27		
19/10/17	17:00	0.9	329		
19/10/17	18:00	0.9	345		
19/10/17	19:00	0.9	356		
19/10/17	20:00	0.9	337		
19/10/17	21:00	0.9	351		
19/10/17	22:00	1.3	335		
19/10/17	23:00	1.3	339		





Appendix A

Watering Record on 17 October 2019

Location ITh Of MDSAdB. Feriod The Sign 3K 7-8 7=+8 / 8-9 R 8237 / TA 9-10 9=30 / / Th 10-11 10=30 RA 11-12 / (1:30 1-13 Tex / 12:50 13-14 M 13:15 13:50 -17 4:50 11 N=45 16=45 17=35

Email message

message		Resources Management
То	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
Ref/Project number	Contract No. HY/2017/10	E-mail: jasmine.ng@erm.com
	Tuen Mun - Chek Lap Kok Link - Northern	
	Connection Tunnel Buildings, Electrical and	
	Mechanical Works	1
Subject	Notification of Exceedance for Air Quality Impact Monitoring	ERM
Date	3 December 2019	

Environmental

Dear Sir/ Madam,

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

<u>Action Level Exceedance</u> 0463091_4November2019_1hrTSP_Station ASR5

<u>Limit Level Exceedance</u> 0463091_4November2019_1hrTSP_Station ASR1

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

Regards,

famin

Dr Jasmine Ng Environmental Team Leader

CONFIDENTIALITY NOTICE

This facsimile transmission is intended only for the use of the addressee and is confidential. If you are not the addressee it may be unlawful for you to read, copy, distribute, disclose or otherwise use the information in this facsimile. If you are not the intended recipient, please telephone or fax us immediately.



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

Air Quality Impact Monitoring

Log No.	Action Level Exceedance						
Log NO.	0463091_4November2019_1hrTSP_Station ASR5						
	Limit Level Exceedance						
	0463091_4November2019_1hrTSP_Station ASR1						
	[Total No. of Exceedances = 2]						
Date	4 November 2019 (Measured)						
	3 Decer	nber 2019 (Results obtained from ENPO Website)					
Monitoring Station		ASR1 and ASR5					
Parameter(s) with							
Exceedance(s)		1- hr TSP					
Action Levels	1-hr TSP (μg/m ³)	ASR1 = 331					
		ASR5 = 340					
		ASR6 = 338					
		ASR10 = 335					
		AQMS1 = 337					
	24-hr TSP (μg/m ³)	ASR1 = 213					
		ASR5 = 238 ASR6 = 238					
	ASRI0 = 233 ASR10 = 214 AQMS1 = 213						
Limit Levels	1-hr TSP (μ g/m ³) 500						
	24-hr TSP ($\mu g/m^3$)	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 November 2019 included					
the time of monitoring	• Electrical and Mechanica	l Works and Architectural Builders Work and Finishes at Toll Control					
event)	Building;						
,		l Works at Ventilation Plant Room;					
		l Works at North Ventilation Building;					
		l Works and Architectural Builder's Work and Finishes at					
	Administration Building						
	 Electrical and Mechanica Depot; 	l Works and Architectural Builder's Work and Finishes at Maintenance					
	1 .	l Works and Architectural Builder's Work and Finishes at Fire Services					
	Department Building;	i works and memeetaral bander 5 work and r misnes at the services					
		l Works and Architectural Builder's Work at Customs and Excise					
	Department Building;						
		l Works and Architectural Builder's Work and Finishes at the Tunnel;					
		l Works and Architectural Builders Work and Finishes at Satellite					
	Control Building; and						
	Electrical and Mechanica	l Works at South Ventilation Building.					
	σ						

Possible Reason for	The exceedance is unlikely to be due to the Contract, in view of the following:		
Action or Limit Level	• Apart from exceedances of 1-hr TSP at ASR1 during 8:39-9:39 and ASR5 during 8:26-9:26 on 4		
Exceedance(s)	 November 2019, all 1-hr TSP levels at all monitoring stations were in compliance with the Action and Limit Levels on the same day. With reference to the recorded wind direction (ranged between 14° and 16°, blowing from a north-easterly direction) and wind speed (2.2 m/s) when exceedances recorded, ASR5 is located 		
	 downstream to the construction works at Toll Control Building, while ASR1 is located downstream to the construction works at Maintenance Depot and Administration Building. However, the construction works at Toll Control Building, 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. No major dust generating activities i.e. excavation works was conducted on 4 November 2019. Dust suppression measures i.e. watering were applied on site nearby Maintenance Depot and Administration Building to prevent dust generation (refer to <i>watering record</i>). Dust mitigation measures were implemented at Toll Control Building, for example, roads were paved and no debris/materials were burnt at the works areas. 		
Actions Taken / To Be	Based on the above, the exceedances are unlikely to be due to the Contract. 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 4 November 2019 and locations of air quality monitoring stations are		
	attached.		

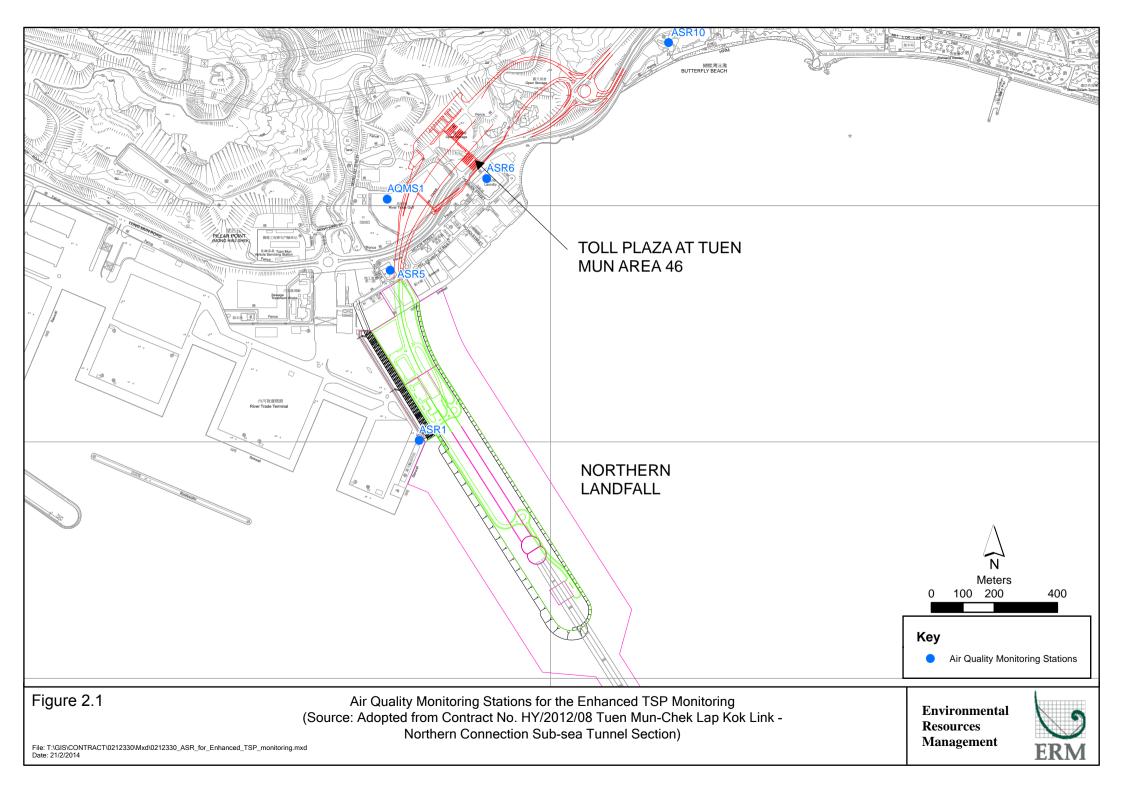
Results of Air Quality Monitoring

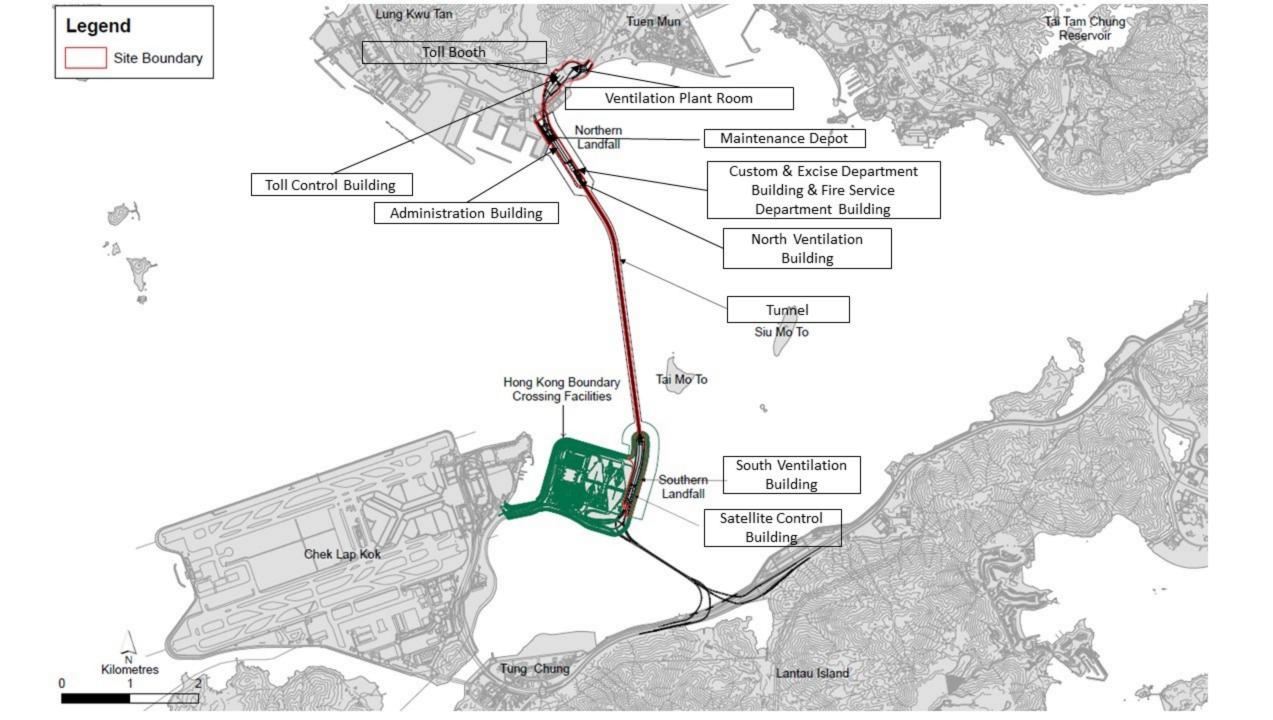
Project	Contract	Date (yyyy-mm-dd)	Station	Time	Parameter	Results	Unit
TMCLKL	HY/2012/08	2019-11-04	AQMS1	8:50:00	1-hour TSP	154	ug/m3
TMCLKL	HY/2012/08	2019-11-04	AQMS1	9:52:00	1-hour TSP	147	ug/m3
TMCLKL	HY/2012/08	2019-11-04	AQMS1	10:54:00	1-hour TSP	143	ug/m3
TMCLKL	HY/2012/08	2019-11-04	ASR1	8:39:00	1-hour TSP	626	ug/m3
TMCLKL	HY/2012/08	2019-11-04	ASR1	9:41:00	1-hour TSP	264	ug/m3
TMCLKL	HY/2012/08	2019-11-04	ASR1	10:43:00	1-hour TSP	251	ug/m3
TMCLKL	HY/2012/08	2019-11-04	ASR10	8:02:00	1-hour TSP	117	ug/m3
TMCLKL	HY/2012/08	2019-11-04	ASR10	9:04:00	1-hour TSP	83	ug/m3
TMCLKL	HY/2012/08	2019-11-04	ASR10	10:06:00	1-hour TSP	105	ug/m3
TMCLKL	HY/2012/08	2019-11-04	ASR5	8:26:00	1-hour TSP	<mark>398</mark>	ug/m3
TMCLKL	HY/2012/08	2019-11-04	ASR5	9:28:00	1-hour TSP	251	ug/m3
TMCLKL	HY/2012/08	2019-11-04	ASR5	10:30:00	1-hour TSP	242	ug/m3
TMCLKL	HY/2012/08	2019-11-04	ASR6	8:14:00	1-hour TSP	202	ug/m3
TMCLKL	HY/2012/08	2019-11-04	ASR6	9:16:00	1-hour TSP	174	ug/m3
TMCLKL	HY/2012/08	2019-11-04	ASR6	10:18:00	1-hour TSP	169	ug/m3
TMCLKL	HY/2012/08	2019-11-04	AQMS1	11:56:00	24-hour TSP	80	ug/m3
TMCLKL	HY/2012/08	2019-11-04	ASR1	11:45:00	24-hour TSP	141	ug/m3
TMCLKL	HY/2012/08	2019-11-04	ASR10	11:08:00	24-hour TSP	70	ug/m3
TMCLKL	HY/2012/08	2019-11-04	ASR5	11:32:00	24-hour TSP	146	ug/m3
TMCLKL	HY/2012/08	2019-11-04	ASR6	11:20:00	24-hour TSP	106	ug/m3

Note:

Indicates Exceedance of Action 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)		
19/11/04	0:00	1.3	342		
19/11/04	1:00	1.8	17		
19/11/04	2:00	2.7	341		
19/11/04	3:00	3.1	359		
19/11/04	4:00	3.6	3		
19/11/04	5:00	3.6	4		
19/11/04	6:00	1.8	14		
19/11/04	7:00	1.3	342		
19/11/04	8:00	2.2	16		
19/11/04	9:00	2.2	14		
19/11/04	10:00	1.8	12		
19/11/04	11:00	2.2	30		
19/11/04	12:00	1.8	23		
19/11/04	13:00	1.8	16		
19/11/04	14:00	1.3	18		
19/11/04	15:00	1.3	25		
19/11/04	16:00	1.8	347		
19/11/04	17:00	1.8	332		
19/11/04	18:00	1.8	313		
19/11/04	19:00	0.9	326		
19/11/04	20:00	0.4	324		
19/11/04	21:00	0.4	320		
19/11/04	22:00	0.9	328		
19/11/04	23:00	1.8	343		





Appendix A

Watering Record on 4 November 2019

4th N	DV.	M) & AdB
Aerton			Sign
7-8			0
8-9	/	8:03	Servy
9-10	/	9:00	Jeray
10-11	11	10200 10260	Jerry
11-12	/	11-30	Jerry
12-13	/	12=50	Jerry
13-14	1	13:20	Serving
14-12	1	14:20	Jerry
12-16	11	15=00 15=40	Jerry
16-17	/	16=20	Jermy
17-18	/	17=20	Lerry
18-19			l.

Appendix B

Site Photo



Photo 1 - Construction works at Toll Control Building



Photo 2 - Construction works at Maintenance Depot



Photo 3 - Construction works at Administration Building

Email message

message		Resources Management
То	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
Ref/Project number	Contract No. HY/2017/10	E-mail: jasmine.ng@erm.com
	Tuen Mun - Chek Lap Kok Link - Northern	
	Connection Tunnel Buildings, Electrical and	
	Mechanical Works	1
Subject	Notification of Exceedance for Air Quality	
	Impact Monitoring	
		ERM
Date	26 November 2019	

Environmental

Dear Sir/ Madam,

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

<u>Action Level Exceedance</u> 0463091_7November2019_1hrTSP_Station ASR5

One (1) exceedance was recorded on 7 November 2019.

Regards,

amin

Dr Jasmine Ng Environmental Team Leader

CONFIDENTIALITY NOTICE

This facsimile transmission is intended only for the use of the addressee and is confidential. If you are not the addressee it may be unlawful for you to read, copy, distribute, disclose or otherwise use the information in this facsimile. If you are not the intended recipient, please telephone or fax us immediately.



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.	04630	<u>Action Level Exceedance</u> 091_7November2019_1hrTSP_Station ASR5
		[Total No. of Exceedances = 1]
Date		7 November 2019 (Measured)
	26 Decem	nber 2019 (Results obtained from ENPO Website)
Monitoring Station		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/m ³)	260
Measured Levels	Refer to the attached data shee	t (Data are source from Contract No. HY/2012/08).
Works Undertaken (at the time of monitoring event)	 Electrical and Mechanical Depot; Electrical and Mechanical Administration Building; Architectural Builder's Wo Building Structure at Cust Electrical and Mechanical 	Contract on 7 November 2019 included Works and Architectural Builder's Work and Finishes at Maintenance Works and Architectural Builder's Work and Finishes at ork and Finishes at Fire Services Department Building; coms and Excise Department Building; Works at North Ventilation Building; ork and Finishes at Toll Control Building

Possible Reason for	The exceedance is unlikely to be due to the Contract, in view of the following:
Action or Limit Level	• Apart from exceedance of 1-hr TSP at ASR5 during 13:24-14:24 on 7 November 2019, all 1-hr TSP
Exceedance(s)	 Inpartion encoded and of the formation damagnetic function of the formation formation of the format
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 7 November 2019 and locations of air quality monitoring stations are
	attached.

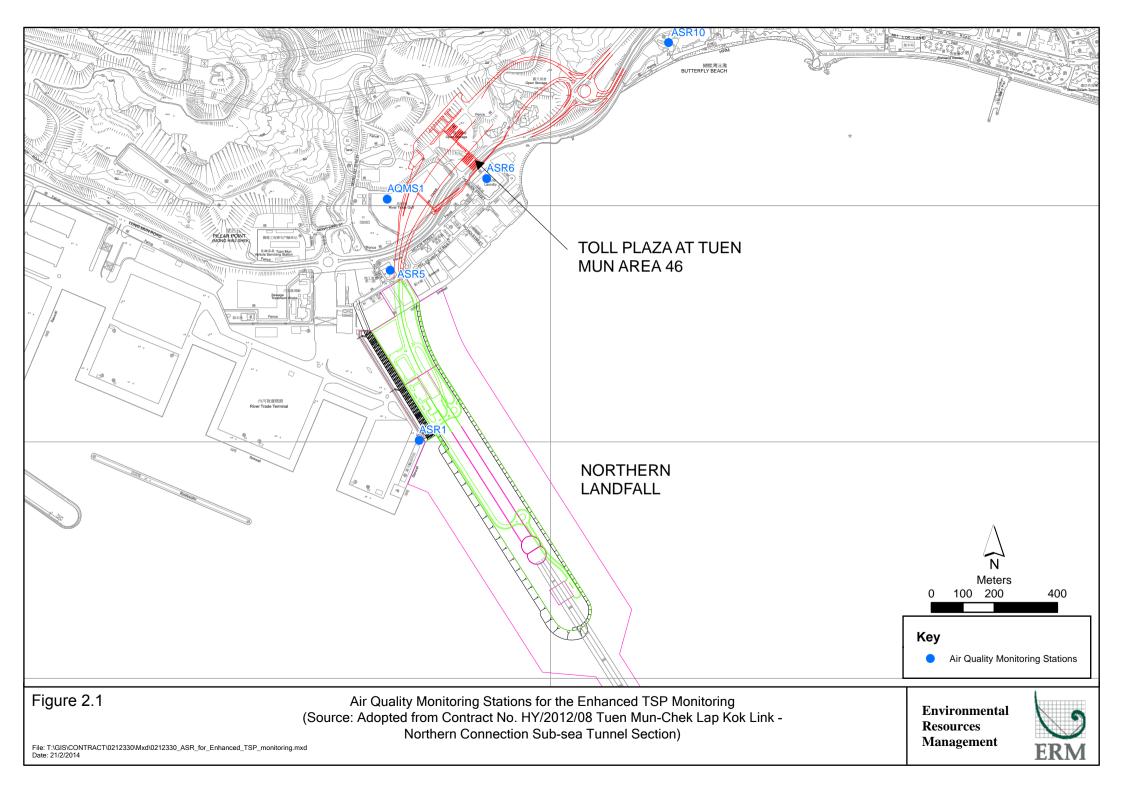
Results of Air Quality Monitoring

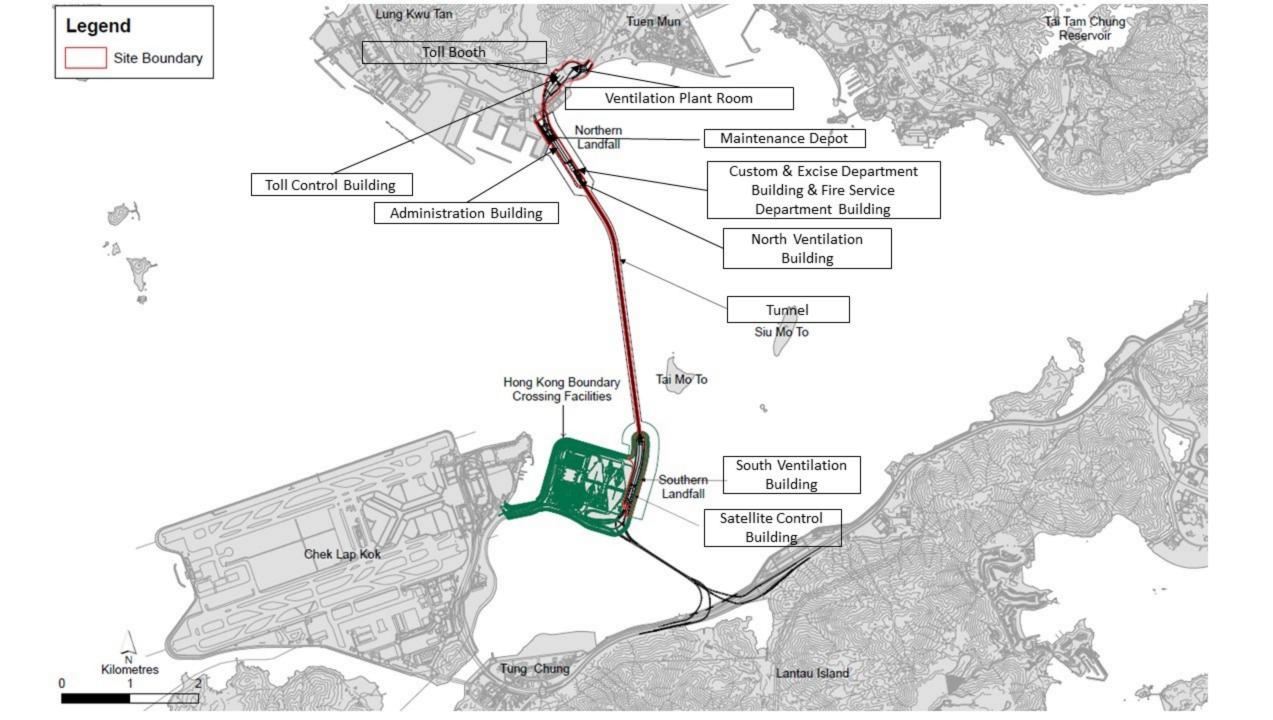
Project	Contract	Date (yyyy-mm-dd)	Station	Time	Parameter	Results	Unit
TMCLKL	HY/2012/08	2019-11-07	AQMS1	13:46:00	1-hour TSP	85	ug/m3
TMCLKL	HY/2012/08	2019-11-07	AQMS1	14:48:00	1-hour TSP	66	ug/m3
TMCLKL	HY/2012/08	2019-11-07	AQMS1	15:50:00	1-hour TSP	72	ug/m3
TMCLKL	HY/2012/08	2019-11-07	ASR1	13:35:00	1-hour TSP	239	ug/m3
TMCLKL	HY/2012/08	2019-11-07	ASR1	14:37:00	1-hour TSP	180	ug/m3
TMCLKL	HY/2012/08	2019-11-07	ASR1	15:39:00	1-hour TSP	160	ug/m3
TMCLKL	HY/2012/08	2019-11-07	ASR10	13:01:00	1-hour TSP	93	ug/m3
TMCLKL	HY/2012/08	2019-11-07	ASR10	14:03:00	1-hour TSP	55	ug/m3
TMCLKL	HY/2012/08	2019-11-07	ASR10	15:05:00	1-hour TSP	53	ug/m3
TMCLKL	HY/2012/08	2019-11-07	ASR5	13:24:00	1-hour TSP	<mark>479</mark>	ug/m3
TMCLKL	HY/2012/08	2019-11-07	ASR5	14:26:00	1-hour TSP	161	ug/m3
TMCLKL	HY/2012/08	2019-11-07	ASR5	15:28:00	1-hour TSP	147	ug/m3
TMCLKL	HY/2012/08	2019-11-07	ASR6	13:13:00	1-hour TSP	212	ug/m3
TMCLKL	HY/2012/08	2019-11-07	ASR6	14:15:00	1-hour TSP	117	ug/m3
TMCLKL	HY/2012/08	2019-11-07	ASR6	15:17:00	1-hour TSP	85	ug/m3
TMCLKL	HY/2012/08	2019-11-07	AQMS1	16:52:00	24-hour TSP	86	ug/m3
TMCLKL	HY/2012/08	2019-11-07	ASR1	16:41:00	24-hour TSP	158	ug/m3
TMCLKL	HY/2012/08	2019-11-07	ASR10	16:07:00	24-hour TSP	66	ug/m3
TMCLKL	HY/2012/08	2019-11-07	ASR5	16:30:00	24-hour TSP	196	ug/m3
TMCLKL	HY/2012/08	2019-11-07	ASR6	16:19:00	24-hour TSP	105	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)			
19/11/07	0:00	0	-			
19/11/07	1:00	0	-			
19/11/07	2:00	0.4	22			
19/11/07	3:00	0.9	25			
19/11/07	4:00	1.8	32			
19/11/07	5:00	1.8	21			
19/11/07	6:00	1.3	22			
19/11/07	7:00	1.8	31			
19/11/07	8:00	1.8	15			
19/11/07	9:00	1.8	4			
19/11/07	10:00	2.2	33			
19/11/07	11:00	2.2	33			
19/11/07	12:00	2.2	16			
19/11/07	13:00	1.8	16			
19/11/07	14:00	2.2	304			
19/11/07	15:00	2.7	316			
19/11/07	16:00	1.3	341			
19/11/07	17:00	1.8	316			
19/11/07	18:00	1.8	327			
19/11/07	19:00	0.4	318			
19/11/07	20:00	0	-			
19/11/07	21:00	0.4	336			
19/11/07	22:00	1.3	313			
19/11/07	23:00	1.8	357			





Appendix A

Watering Record on 7 November 2019

~	Locate	M
The Nor	MD &	s AdB
Pertod	Tare	Sign
7-8		0
8-9 /	8=03	Jerny
9-10 /	9=05	Jerny
10-4 //	10=05 10=40	
11/2 /	11=40	Jerry
12-13	12=52	Jerny
13-14	13=30	Jerry
14-15	14=30	Jerry
15-16	15=15	Jerry
16-17 //	16=12 16=20	Jerry
17-18 /	17:25	Jerry
18-19		1
······		

Appendix B

Site Photo

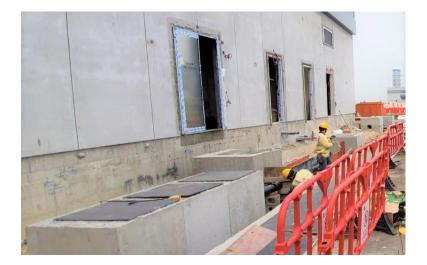


Photo 1 - Construction works at Toll Control Building

Email message

message		Resources Management
То	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
Ref/Project number	Contract No. HY/2017/10	E-mail: jasmine.ng@erm.com
	Tuen Mun - Chek Lap Kok Link - Northern	
	Connection Tunnel Buildings, Electrical and	
	Mechanical Works	ł
Subject	Notification of Exceedance for Air Quality Impact Monitoring	ERM
Date	6 December 2019	

Environmental

Dear Sir/ Madam,

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

Action Level Exceedance 0463091_28November2019_1hrTSP_Station ASR1 0463091_28November2019_1hrTSP_Station ASR1 0463091_28November2019_1hrTSP_Station ASR5

Limit Level Exceedance 0463091_28November2019_1hrTSP_Station ASR1 0463091_28November2019_1hrTSP_Station ASR5

Five (5) exceedances were recorded on 28 November 2019.

Regards,

famin

Dr Jasmine Ng Environmental Team Leader

CONFIDENTIALITY NOTICE

This facsimile transmission is intended only for the use of the addressee and is confidential. If you are not the addressee it may be unlawful for you to read, copy, distribute, disclose or otherwise use the information in this facsimile. If you are not the intended recipient, please telephone or fax us immediately.



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
105110.	0463	091_28November2019_1hrTSP_Station ASR1
		091_28November2019_1hrTSP_Station ASR1
		091_28November2019_1hrTSP_Station ASR5
	0103	
		Limit Level Exceedance
	0463	091_28November2019_1hrTSP_Station ASR1
	0463	091_28November2019_1hrTSP_Station ASR5
		[Total No. of Exceedances = 5]
Date		28 November 2019 (Measured)
	10 Dece	mber 2019 (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/m ³)	500
	24-hr TSP (µg/m ³)	260
Measured Levels	Refer to the attached data she	et (Data are source from Contract No. HY/2012/08).
Works Undertaken (at the time of monitoring event)	 Electrical and Mechanica Building; Electrical and Mechanica Electrical and Mechanica Electrical and Mechanica Administration Building Electrical and Mechanica Depot; Falsework dismantling a Falsework dismantling a 	Contract on 28 November 2019 included l Works and Architectural Builders Work and Finishes at Toll Control l Works at Ventilation Plant Room; l Works at North Ventilation Building; l Works and Architectural Builder's Work and Finishes at ; l Works and Architectural Builder's Work and Finishes at Maintenance t Fire Services Department Building; t Customs and Excise Department Building; l Works and Architectural Builder's Work and Finishes at the Tunnel.

Possible Reason for	The exceedance is unlikely to be due to the Contract, in view of the following:
Action or Limit Level	• With reference to the recorded wind direction (ranged between 14° and 34°, blowing from a
Exceedance(s)	north-easterly direction) and wind speed (ranged between 2.2 and 2.7 m/s) when exceedances
	recorded, ASR1 is located downstream to the construction works at Maintenance Depot and
	Administration Building, while ASR5 is located downstream to the construction works at
	Ventilation Plant Room and Toll Control Building. However, the construction works at Toll
	Control Building, Ventilation Plant Room, 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 28 November 2019.
	• Dust suppression measures i.e. watering were applied on site nearby Administration Building to
	prevent dust generation (refer to <i>Appendix B</i>).
	• 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 C</i>)
	Based on the above, the exceedances are unlikely to be due to the Contract.
Actions Taken / To Be	The Contractor has been reminded to review the watering frequency and apply additional watering
Taken	on the dry area during the dry season in particular. The Contractor has been reminded to ensure
	all dust suppression measures are implemented at the site area. The ET will monitor for future
	trends in exceedances.
Remarks	The monitoring results on 28 November 2019 and locations of air quality monitoring stations are
	attached.

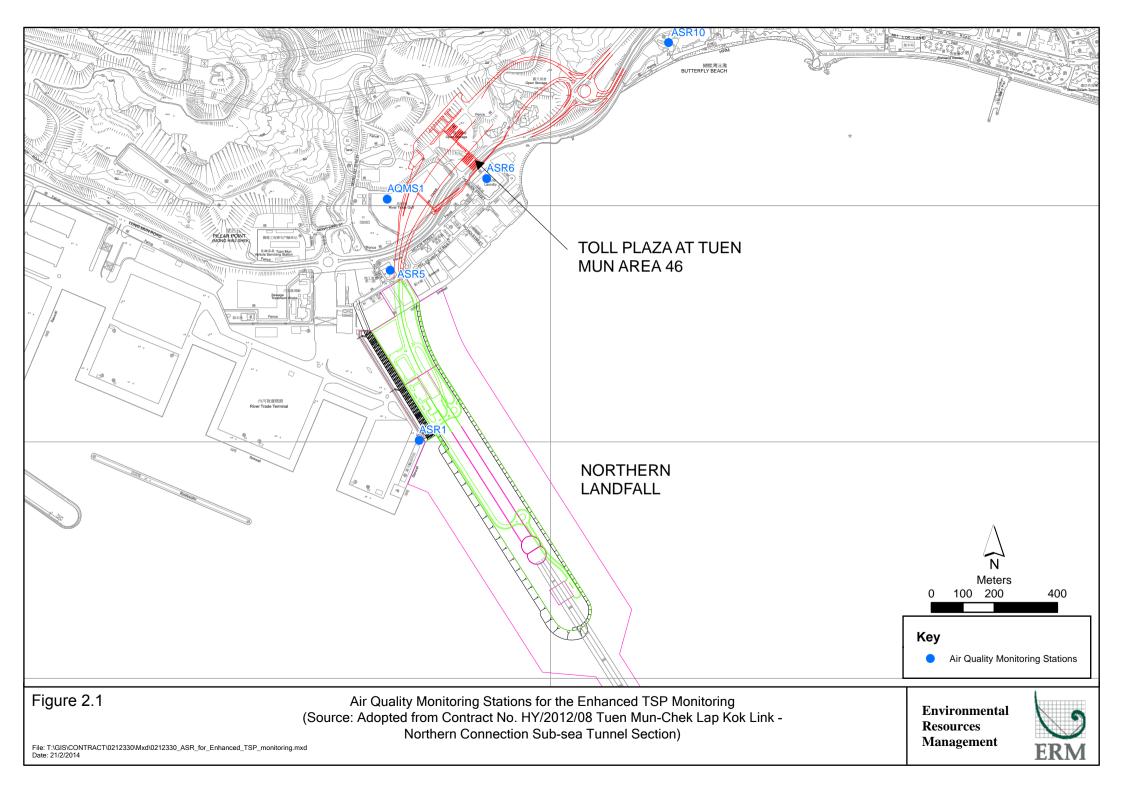
Results of Air Quality Monitoring

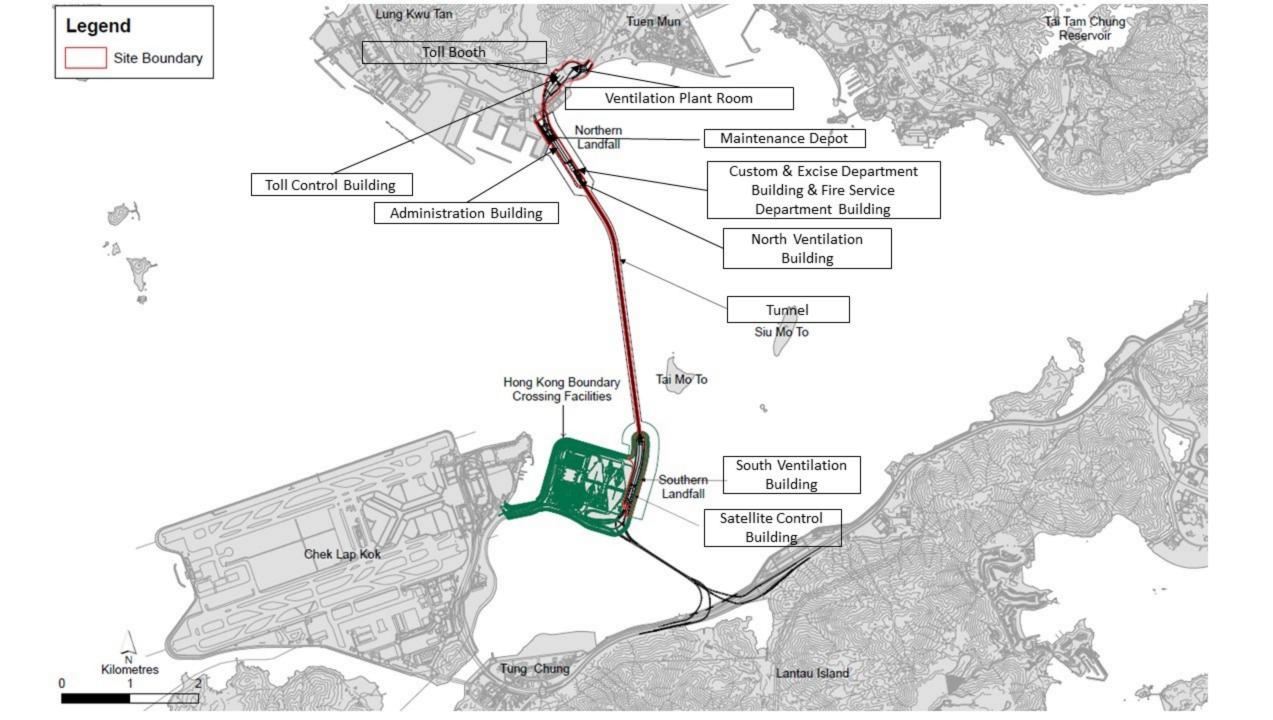
Project	Contract	Date (yyyy-mm-dd)	Station	Time	Parameter	Results	Unit
TMCLKL	HY/2012/08	2019-11-28	AQMS1	8:49:00	1-hour TSP	187	ug/m3
TMCLKL	HY/2012/08	2019-11-28	AQMS1	9:51:00	1-hour TSP	161	ug/m3
TMCLKL	HY/2012/08	2019-11-28	AQMS1	10:53:00	1-hour TSP	143	ug/m3
TMCLKL	HY/2012/08	2019-11-28	ASR1	8:38:00	1-hour TSP	577	ug/m3
TMCLKL	HY/2012/08	2019-11-28	ASR1	9:40:00	1-hour TSP	<mark>452</mark>	ug/m3
TMCLKL	HY/2012/08	2019-11-28	ASR1	10:42:00	1-hour TSP	<mark>385</mark>	ug/m3
TMCLKL	HY/2012/08	2019-11-28	ASR10	8:00:00	1-hour TSP	125	ug/m3
TMCLKL	HY/2012/08	2019-11-28	ASR10	9:02:00	1-hour TSP	139	ug/m3
TMCLKL	HY/2012/08	2019-11-28	ASR10	10:04:00	1-hour TSP	143	ug/m3
TMCLKL	HY/2012/08	2019-11-28	ASR5	8:02:00	1-hour TSP	534	ug/m3
TMCLKL	HY/2012/08	2019-11-28	ASR5	9:27:00	1-hour TSP	500	ug/m3
TMCLKL	HY/2012/08	2019-11-28	ASR5	10:29:00	1-hour TSP	299	ug/m3
TMCLKL	HY/2012/08	2019-11-28	ASR6	8:13:00	1-hour TSP	216	ug/m3
TMCLKL	HY/2012/08	2019-11-28	ASR6	9:15:00	1-hour TSP	183	ug/m3
TMCLKL	HY/2012/08	2019-11-28	ASR6	10:17:00	1-hour TSP	175	ug/m3
TMCLKL	HY/2012/08	2019-11-28	AQMS1	11:55:00	24-hour TSP	96	ug/m3
TMCLKL	HY/2012/08	2019-11-28	ASR1	11:44:00	24-hour TSP	207	ug/m3
TMCLKL	HY/2012/08	2019-11-28	ASR10	11:06:00	24-hour TSP	71	ug/m3
TMCLKL	HY/2012/08	2019-11-28	ASR5	11:31:00	24-hour TSP	131	ug/m3
TMCLKL	HY/2012/08	2019-11-28	ASR6	11:19:00	24-hour TSP	109	ug/m3

Note:

Indicates Exceedance of Action Level
Indicates Exceedance of Limit Level

Date (yy-mm-dd)	Time (24hrs)	Average of Wind Speed (m/s)	Average of Wind Direction(degree)
19/11/28	0:00	0	-
19/11/28	1:00	0.4	346
19/11/28	2:00	1.8	2
19/11/28	3:00	2.2	331
19/11/28	4:00	0.9	20
19/11/28	5:00	1.3	341
19/11/28	6:00	1.3	339
19/11/28	7:00	1.3	357
19/11/28	8:00	2.2	24
19/11/28	9:00	2.7	14
19/11/28	10:00	2.2	34
19/11/28	11:00	1.8	344
19/11/28	12:00	1.8	311
19/11/28	13:00	1.8	310
19/11/28	14:00	1.8	336
19/11/28	15:00	1.3	341
19/11/28	16:00	1.8	337
19/11/28	17:00	1.3	340
19/11/28	18:00	1.8	338
19/11/28	19:00	1.8	335
19/11/28	20:00	2.2	3
19/11/28	21:00	2.2	20
19/11/28	22:00	2.7	24
19/11/28	23:00	2.2	30





Appendix A

Site Photo



Photo 1 - Construction works at Administration Building

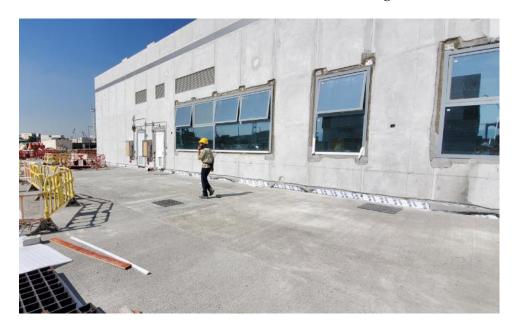


Photo 2 - Construction works at Maintenance Depot



Photo 3 - Construction works at Toll Control Building



Photo 4 - Watering was applied at Administration Building

Appendix B

Watering Record on 28 November 2019

	Location		
28 No	Υ	AdB	
Brood		There	Sign
7-8			
8-9	/	8:02	Jerry
9-10	1	9=00	Jerany
10-4	1	00-00	Jerry
[1-17	11	1811=04 11= 50	Lerry
12-13	1	12=77	Lerny
13-14	/	13=40	Lerry
14-15	1	14=30	Jerry
12/16	11	W=10 K=56	Jerry
[6-17	1	16:30	Jury
7-18	1	17=30	Jerry
18-19			1

Appendix C

ET site inspection on 29 November 2019

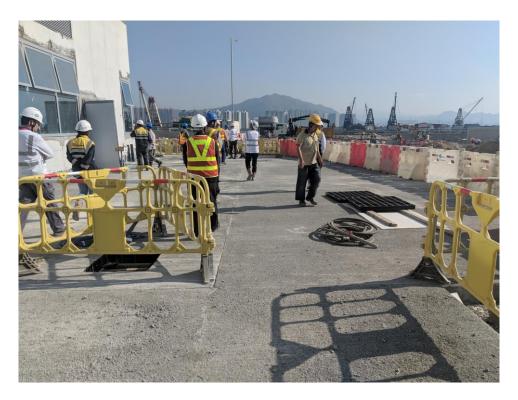


Photo 1 - Site condition at Maintenance Depot



Photo 2 - Site condition at Administration Building