

Appendix J

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

Appendix J1 Cumulative Statistics on Exceedances

		Total No. recorded in this reporting month	Total No. recorded since contract commencement
1-Hr TSP	Action	3	30
	Limit	0	4
24-Hr TSP	Action	0	2
	Limit	0	0

Appendix J2 Cumulative Statistics on Complaints, Notifications of Summons and Successful Prosecutions

Reporting Period	Cumulative Statistics		
	Complaints	Notifications of Summons	Successful Prosecutions
This Reporting Month (October 2019)	0	0	0
Total No. received since contract commencement	1	0	0

Email
message

Environmental
Resources
Management

To Ramboll Hong Kong Limited (ENPO)

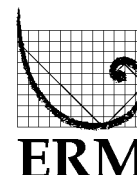
From ERM- Hong Kong, Limited

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 7 November 2019

2507,
25/F One Harbourfront,
18 Tak Fung Street,
Hung Hom, Hong Kong
Telephone: (852) 2271 3113
Facsimile: (852) 2723 5660
E-mail: jasmine.ng@erm.com



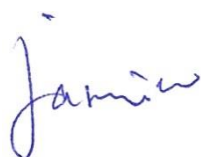
Dear Sir/ Madam,

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,



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.	<u>Action Level Exceedance</u> 0463091_14October2019_1hrTSP_Station ASR1 [Total No. of Exceedances = 1]	
Date	14 October 2019 (Measured) 7 November 2019 (Results obtained from ENPO Website)	
Monitoring Station	ASR1	
Parameter(s) with Exceedance(s)	1- hr TSP	
Action Levels	1-hr TSP ($\mu\text{g}/\text{m}^3$)	ASR1 = 331 ASR5 = 340 ASR6 = 338 ASR10 = 335 AQMS1 = 337
	24-hr TSP ($\mu\text{g}/\text{m}^3$)	ASR1 = 213 ASR5 = 238 ASR6 = 238 ASR10 = 214 AQMS1 = 213
Limit Levels	1-hr TSP ($\mu\text{g}/\text{m}^3$)	500
	24-hr TSP ($\mu\text{g}/\text{m}^3$)	260
Measured Levels	Refer to the attached data sheet (Data are source from Contract No. HY/2012/08).	
Works Undertaken (at the time of monitoring event)	Works undertaken under this Contract on 14 October 2019 included <ul style="list-style-type: none"> • Electrical and Mechanical Works and Architectural Builders Work and Finishes at Maintenance Depot • Electrical and Mechanical Works and Architectural Builders Work and Finishes at Administration Building • Architectural Builders Work and Finishes at Fire Services Department Building • Building Structure at Customs and Excise Department Building • Electrical and Mechanical Works at North Ventilation Building • Architectural Builders Work and Finishes at Toll Control Building 	

Possible Reason for Action or Limit Level Exceedance(s)	<p>The exceedance is unlikely to be due to the Contract, in view of the following:</p> <ul style="list-style-type: none"> • Apart from exceedance of 1-hr TSP at ASR1 during 9:50-10:50 on 14 October 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 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. <p>Based on the above, the exceedance is unlikely to be due to the Contract.</p>
Actions Taken / To Be Taken	<p>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.</p>
Remarks	<p>The monitoring results on 14 October and locations of air quality monitoring stations are attached.</p>

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

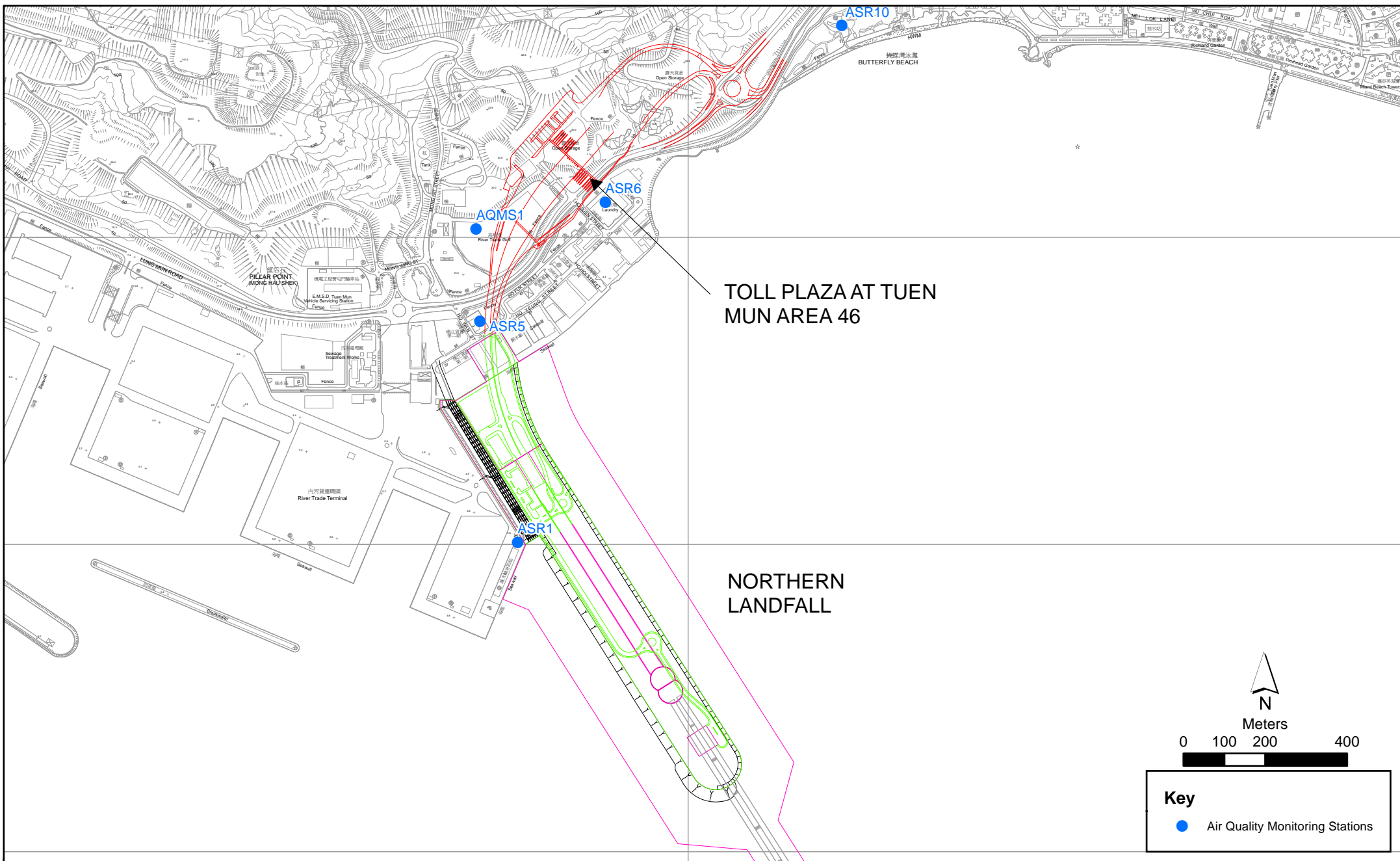


Figure 2.1

Air Quality Monitoring Stations for the Enhanced TSP Monitoring
 (Source: Adopted from Contract No. HY/2012/08 Tuen Mun-Chek Lap Kok Link -
 Northern Connection Sub-sea Tunnel Section)

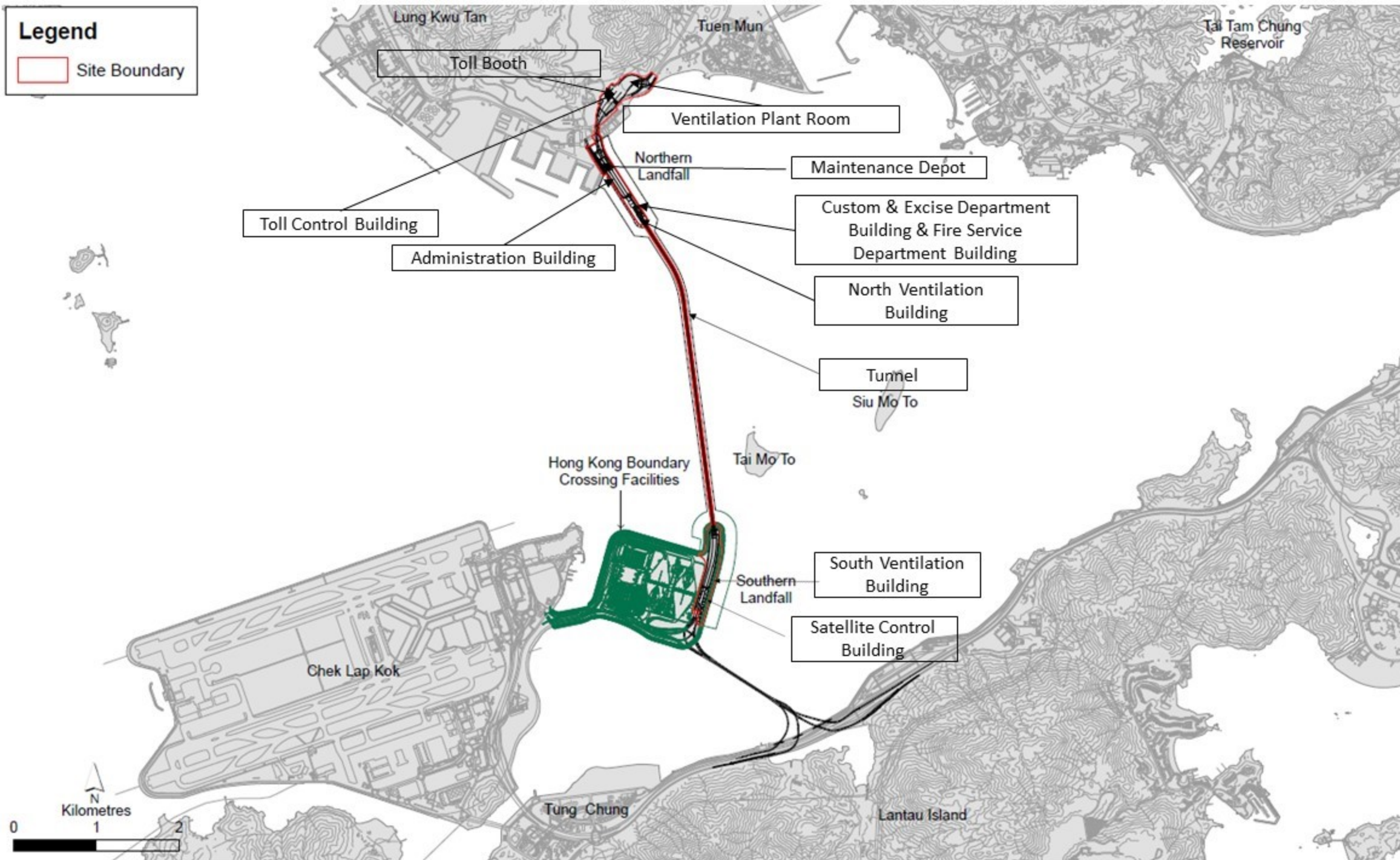
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 Date: 21/2/2014

Environmental
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Legend

Site Boundary



Appendix A

Watering Record on 14 October 2019

Location

14th Oct

MD & AdB

Period		Time	Sign.
7-8			
8-9	/	8:30	成
9-10	/	9:30	成
10-11	/	10:15	成
11-12	/ /	11:15 11:45	成
12-13	/	12:55	成
13-14	/	13:40	成
14-15	/	14:30	成
15-16	/ /	15:15 15:55	成
16-17	/	16:35	成
17-18	/	17:35	成
18-19			

Email
message

Environmental
Resources
Management

To Ramboll Hong Kong Limited (ENPO)

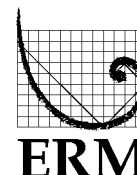
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Impact Monitoring

Date 7 November 2019

2507,
25/F One Harbourfront,
18 Tak Fung Street,
Hung Hom, Hong Kong
Telephone: (852) 2271 3113
Facsimile: (852) 2723 5660
E-mail: jasmine.ng@erm.com



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,

Dr Jasmine Ng
Environmental Team Leader

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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.	<u>Action Level Exceedance</u> 0463091_17October2019_1hrTSP_Station ASR1 0463091_17October2019_1hrTSP_Station ASR1 [Total No. of Exceedances = 2]	
Date	17 October 2019 (Measured) 7 November 2019 (Results obtained from ENPO Website)	
Monitoring Station	ASR1	
Parameter(s) with Exceedance(s)	1- hr TSP	
Action Levels	1-hr TSP ($\mu\text{g}/\text{m}^3$)	ASR1 = 331 ASR5 = 340 ASR6 = 338 ASR10 = 335 AQMS1 = 337
	24-hr TSP ($\mu\text{g}/\text{m}^3$)	ASR1 = 213 ASR5 = 238 ASR6 = 238 ASR10 = 214 AQMS1 = 213
Limit Levels	1-hr TSP ($\mu\text{g}/\text{m}^3$)	500
	24-hr TSP ($\mu\text{g}/\text{m}^3$)	260
Measured Levels	Refer to the attached data sheet (Data are source from Contract No. HY/2012/08).	
Works Undertaken (at the time of monitoring event)	Works undertaken under this Contract on 17 October 2019 included <ul style="list-style-type: none"> • Electrical and Mechanical Works and Architectural Builders Work and Finishes at Maintenance Depot • Electrical and Mechanical Works and Architectural Builders Work and Finishes at Administration Building • Architectural Builders Work and Finishes at Fire Services Department Building • Building Structure at Customs and Excise Department Building • Electrical and Mechanical Works at North Ventilation Building • Architectural Builders Work and Finishes at Toll Control Building 	

Possible Reason for Action or Limit Level Exceedance(s)	<p>The exceedance is unlikely to be due to the Contract, in view of the following:</p> <ul style="list-style-type: none"> • Apart from exceedances of 1-hr TSP at ASR1 during 9:41-10:41 and 10:43-11:43 on 17 October 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. <p>Based on the above, the exceedance is unlikely to be due to the Contract.</p>
Actions Taken / To Be Taken	<p>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.</p>
Remarks	<p>The monitoring results on 17 October and locations of air quality monitoring stations are attached.</p>

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	354	ug/m3
TMCLKL	HY/2012/08	2019-10-17	ASR1	10:43:00	1-hour TSP	385	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)	Time (24hrs)	Average of Wind Speed (m/s)	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

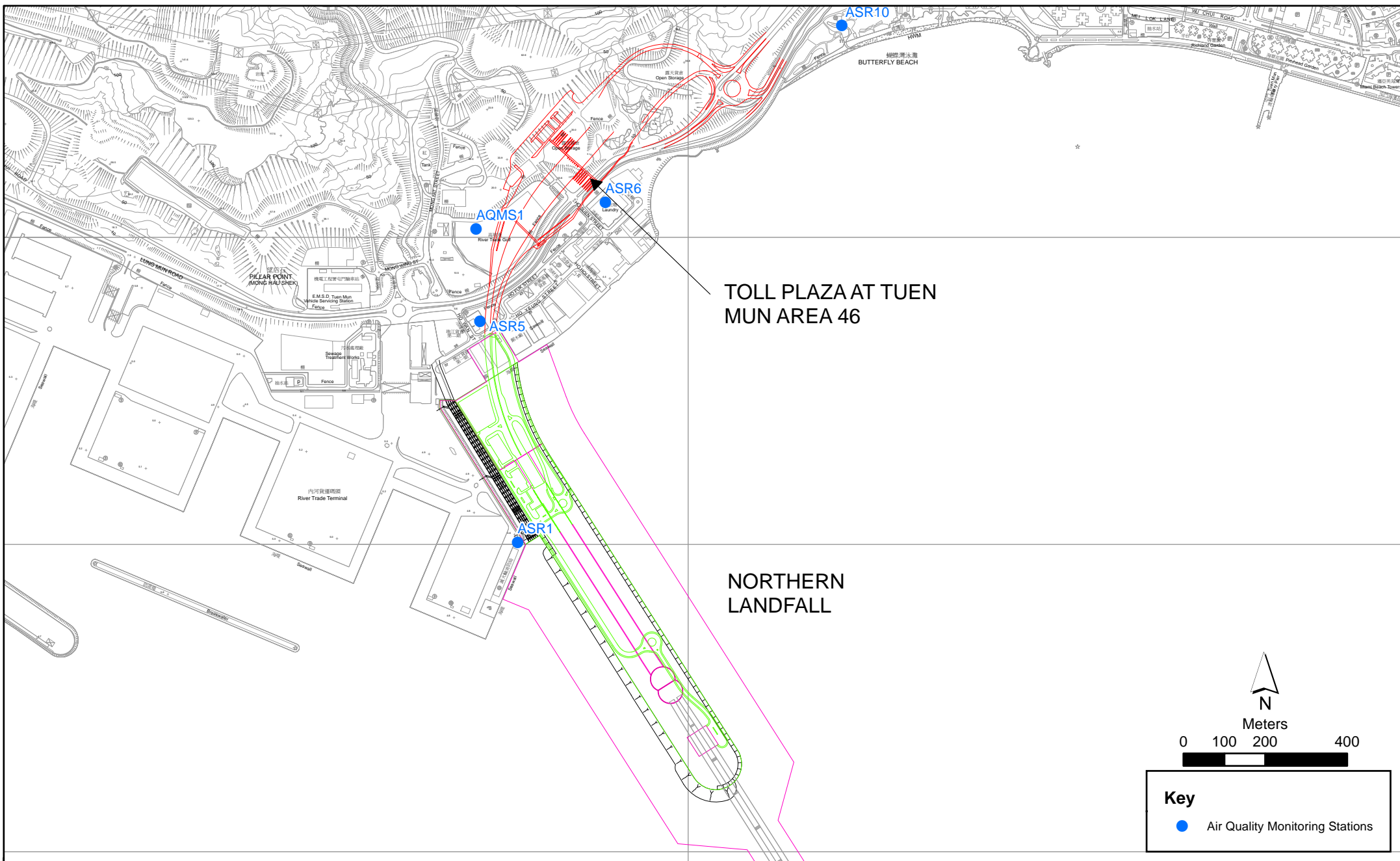
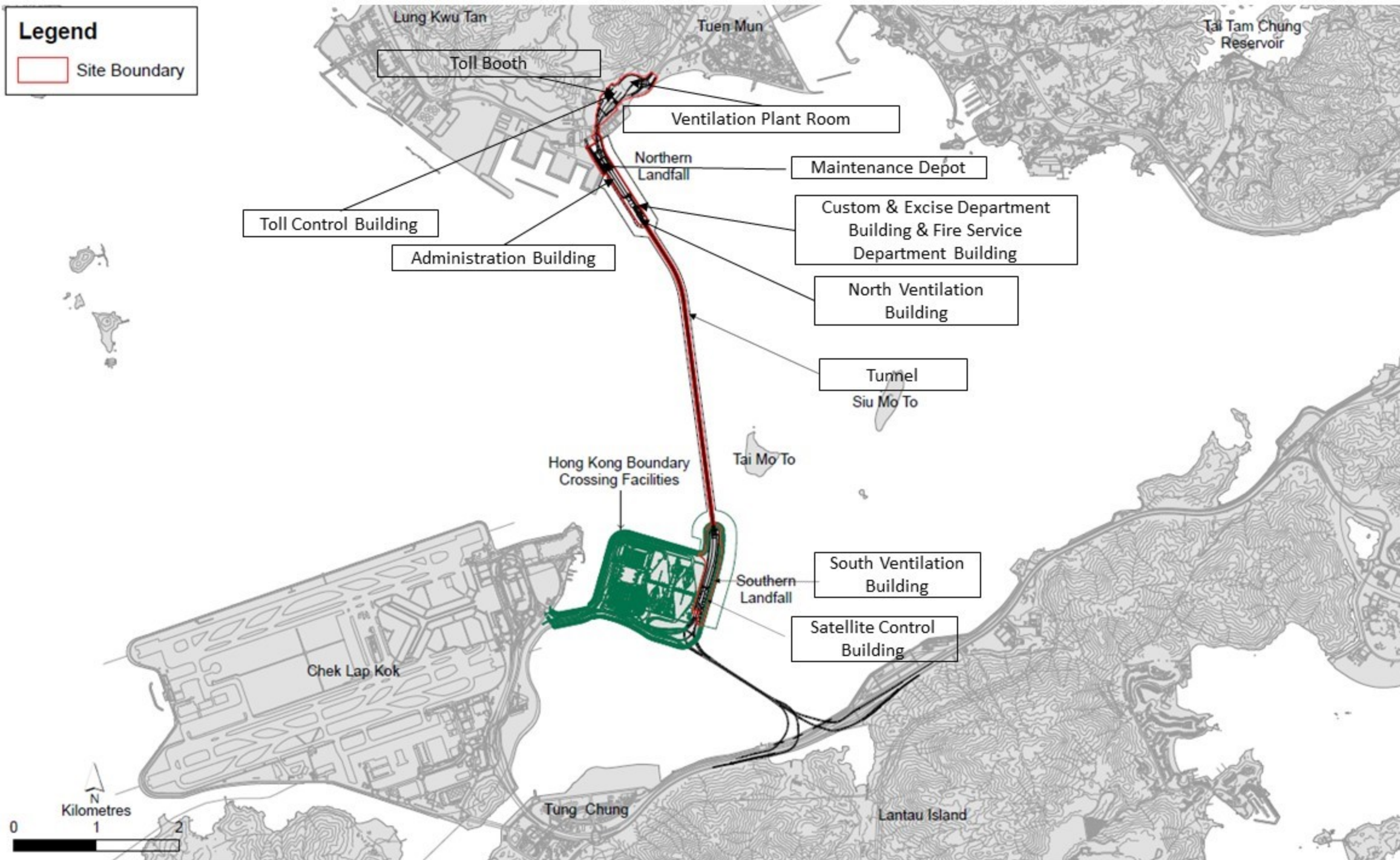


Figure 2.1

Air Quality Monitoring Stations for the Enhanced TSP Monitoring
 (Source: Adopted from Contract No. HY/2012/08 Tuen Mun-Chek Lap Kok Link -
 Northern Connection Sub-sea Tunnel Section)

Legend

Site Boundary



Appendix A

Watering Record on 17 October 2019

17th Oct

Location

MD & AdB.

Period		Time	Sign
7-8	/	7:58	成
8-9	/	8:35	成
9-10	/	9:30	成
10-11	/	10:30	成
11-12	/	11:30	成
12-13	/	12:50	成
13-14	/ /	13:15 13:50	成
14-15	/	14:50	成
15-16	/	15:45	成
16-17	/	16:45	成
17-18	/	17:35	成
18-19			