

*Appendix G1 Cumulative Statistics on Exceedances*

		Total No. recorded in this reporting month	Total No. recorded since contract commencement
1-Hr TSP	Action	0	21
	Limit	0	2
24-Hr TSP	Action	1	1
	Limit	0	0

*Appendix G2 Cumulative Statistics on Complaints, Notifications of Summons and Successful Prosecutions*

Reporting Period	Cumulative Statistics		
	Complaints	Notifications of Summons	Successful Prosecutions
This Reporting Month (February 2018)	0	0	0
Total No. received since contract commencement	0	0	0

Email  
message

**Environmental  
Resources  
Management**

**To** Ramboll Hong Kong Limited (ENPO)

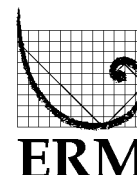
**From** ERM- Hong Kong, Limited

**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** 4 March 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



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Dear Sir/ Madam,

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

**Action Level Exceedance**  
**0463091\_16February2019\_24hrTSP\_Station ASR1**

One (1) exceedance was recorded on 16 February 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**

<b>Log No.</b>	<u>Action Level Exceedance</u>  0463091_16 February 2019_24hrTSP_Station ASR1  [Total No. of Exceedances = 1]	
<b>Date</b>	16 February 2019 (Measured) 1 March 2019 (Results obtained from ENPO Website)	
<b>Monitoring Station</b>	ASR1, ASR5, ASR6, ASR10, AQMS1	
<b>Parameter(s) with Exceedance(s)</b>	24-hr TSP	
<b>Action Levels</b>	1-hr TSP ( $\mu\text{g}/\text{m}^3$ )	ASR1 = 331 ASR5 = 340 ASR6 = 338 ASR10 = 335 AQMS1 = 337
<b>Limit Levels</b>	1-hr TSP ( $\mu\text{g}/\text{m}^3$ )	500
<b>Measured Levels</b>	Refer to the attached data sheet.	
<b>Works Undertaken (at the time of monitoring event)</b>	Works undertaken under this Contract on 16 February 2019 included: <ul style="list-style-type: none"> <li>▪ Formworks at Administration Building and Maintenance Depot (<i>refer to Contractor's photo</i>)</li> </ul>	
<b>Possible Reason for Action or Limit Level Exceedance(s)</b>	<p>The exceedances are unlikely to be due to the Contract, in view of the following:</p> <ul style="list-style-type: none"> <li>• Apart from exceedance of 24-hour TSP at ASR1 during 11:58 on 16 February 2019 to 11:58 on 17 February 2019, all 1hr-TSP levels and other 24-hr TSP levels at all monitoring stations were in compliance with the Action and Limit Levels on the same day.</li> <li>• No works were conducted on 17 February 2019 due to site closure.</li> <li>• Watering record provided by the Contractor was reviewed. Watering was maintained on unpaved and dry road on 16 February 2019 (<i>refer to Contractor's Photo</i>).</li> <li>• With reference to the recorded wind direction (ranged between 80° and 122°, blowing from a easterly direction) during the period of the observed 24-hr TSP exceedance, no works area under this contract is upstream of station ASR1.</li> <li>• Formworks conducted at Administration Building and Maintenance Depot were generally not major dust generating works.</li> </ul> <p>Based on the above, the exceedances are unlikely to be due to the Contract.</p>	
<b>Actions Taken/ To Be Taken</b>	The Contractor has been reminded to ensure all dust suppression measures are implemented at the site area including water spraying at unpaved road. The ET will monitor for future trends in exceedances.	
<b>Remarks</b>	The monitoring results on 16 February 2019 and locations of air quality monitoring stations are attached. The location of the works area under this Contract is attached. The attached wind data on 16 and 17 February 2019 is sourced from <i>Contract No. HY/2012/08</i> for reference.	

Results of Air Quality Monitoring

Project	Works	Date (yyyy-mm-dd)	Station	Time (hh:mm, 24hour)	Parameter	Results	Unit
TMCLKL	HY/2012/08	2019-02-16	AQMS1	9:03	1-hour TSP	50	ug/m3
TMCLKL	HY/2012/08	2019-02-16	AQMS1	10:05	1-hour TSP	88	ug/m3
TMCLKL	HY/2012/08	2019-02-16	AQMS1	11:07	1-hour TSP	90	ug/m3
TMCLKL	HY/2012/08	2019-02-16	ASR1	8:52	1-hour TSP	244	ug/m3
TMCLKL	HY/2012/08	2019-02-16	ASR1	9:54	1-hour TSP	223	ug/m3
TMCLKL	HY/2012/08	2019-02-16	ASR1	10:56	1-hour TSP	125	ug/m3
TMCLKL	HY/2012/08	2019-02-16	ASR10	8:22	1-hour TSP	81	ug/m3
TMCLKL	HY/2012/08	2019-02-16	ASR10	9:24	1-hour TSP	49	ug/m3
TMCLKL	HY/2012/08	2019-02-16	ASR10	10:26	1-hour TSP	64	ug/m3
TMCLKL	HY/2012/08	2019-02-16	ASR5	8:41	1-hour TSP	235	ug/m3
TMCLKL	HY/2012/08	2019-02-16	ASR5	9:43	1-hour TSP	99	ug/m3
TMCLKL	HY/2012/08	2019-02-16	ASR5	10:45	1-hour TSP	127	ug/m3
TMCLKL	HY/2012/08	2019-02-16	ASR6	8:32	1-hour TSP	133	ug/m3
TMCLKL	HY/2012/08	2019-02-16	ASR6	9:34	1-hour TSP	81	ug/m3
TMCLKL	HY/2012/08	2019-02-16	ASR6	10:36	1-hour TSP	67	ug/m3
TMCLKL	HY/2012/08	2019-02-16	AQMS1	12:09	24-hour TSP	57	ug/m3
TMCLKL	HY/2012/08	2019-02-16	ASR1	11:58	24-hour TSP	237	ug/m3
TMCLKL	HY/2012/08	2019-02-16	ASR10	11:28	24-hour TSP	35	ug/m3
TMCLKL	HY/2012/08	2019-02-16	ASR5	11:47	24-hour TSP	103	ug/m3
TMCLKL	HY/2012/08	2019-02-16	ASR6	11:38	24-hour TSP	76	ug/m3

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

Photo 1 - Formwork conducted at works area of Administration Building and Maintenance Depot



Photo 2- Watering of unpaved roads near Administration Building and Maintenance Depot



WATERING RECORD ON 16 FEBRUARY 2019

Location: AB, MD

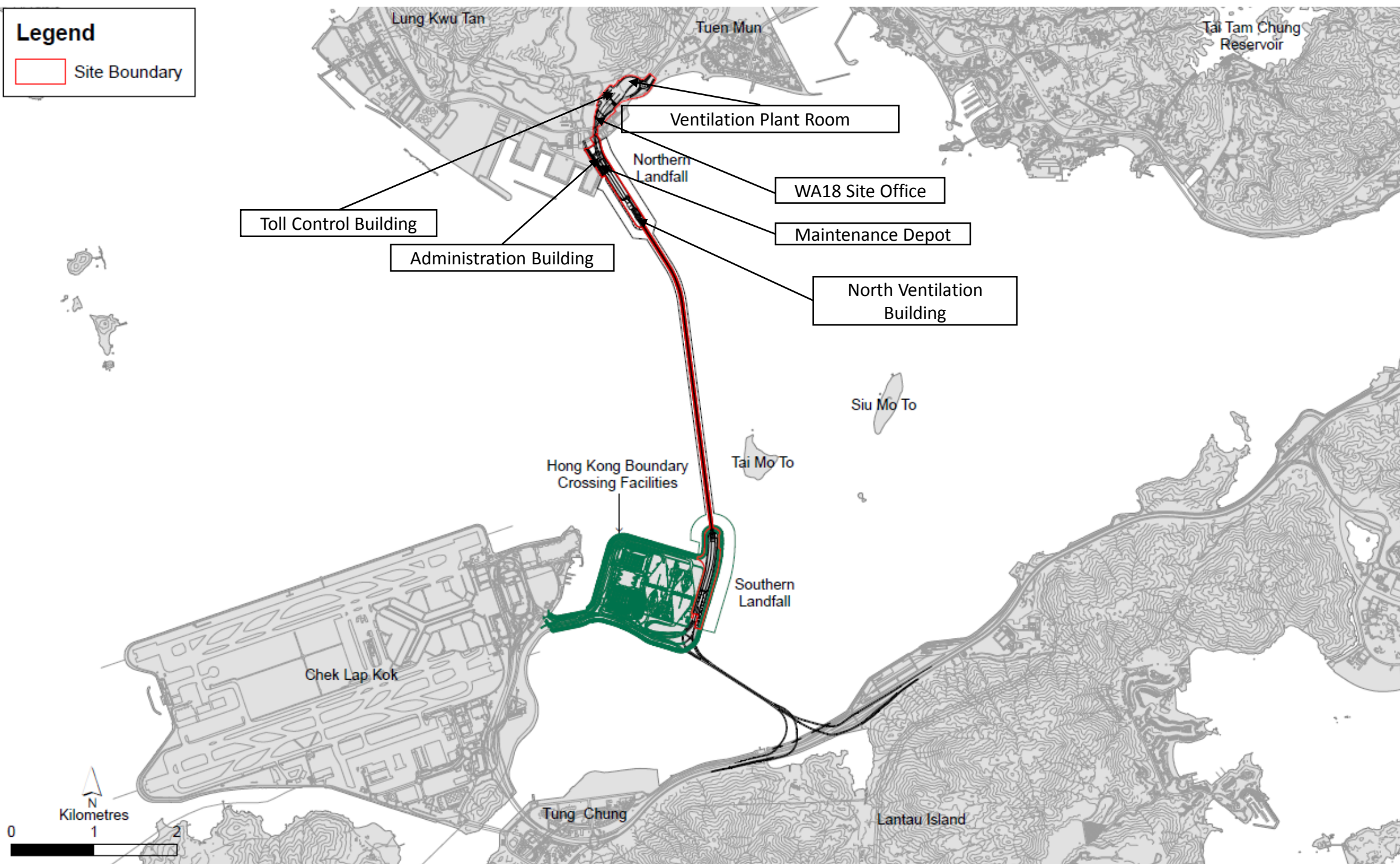
16<sup>th</sup> Feb

Period		Time	Sign
7-8			
8-9	/	8:06	Alan
9-10	/	9:01	Alan
10-11	/	10:04	Alan
11-12	/	11:02	Alan
12-13	/ /	12:01 12:56	Alan
13-14	/	13:40	Alan
14-15	/	14:36	Alan
15-16	/ /	15:04 15:44	Alan
16-17	/	16:39	Alan
17-18	/	17:29	Alan
18-19			

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)
19/02/16	11:00	1.3	120
19/02/16	12:00	2.7	112
19/02/16	13:00	3.1	122
19/02/16	14:00	3.1	80
19/02/16	15:00	2.7	82
19/02/16	16:00	3.1	99
19/02/16	17:00	3.1	88
19/02/16	18:00	2.7	110
19/02/16	19:00	3.1	118
19/02/16	20:00	3.6	119
19/02/16	21:00	3.6	101
19/02/16	22:00	4	80
19/02/16	23:00	4.5	96
19/02/17	0:00	4	82
19/02/17	1:00	3.6	91
19/02/17	2:00	3.1	83
19/02/17	3:00	3.1	86
19/02/17	4:00	3.6	95
19/02/17	5:00	4.5	98
19/02/17	6:00	3.6	101
19/02/17	7:00	4	84
19/02/17	8:00	4.9	83
19/02/17	9:00	5.4	80
19/02/17	10:00	4.9	81
19/02/17	11:00	4.9	79

**Legend**

 Site Boundary





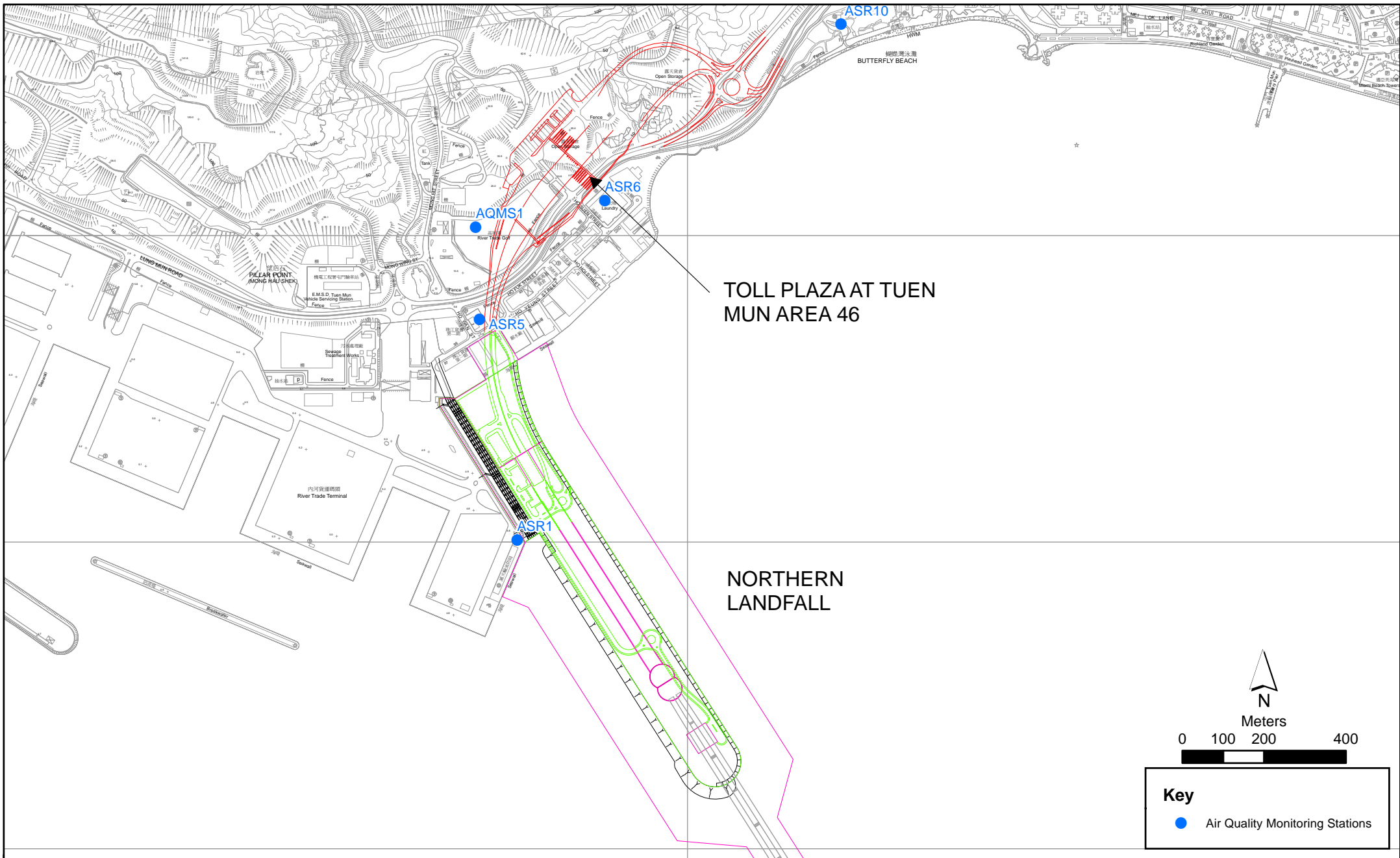


Figure 2.1

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)