

Appendix G1 Cumulative Statistics on Exceedances

		Total No. recorded in this reporting month	Total No. recorded since project commencement
1-Hr TSP	Action	2	4
	Limit	1	1
24-Hr TSP	Action	0	0
	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 (September 2018)	0	0	0
Total No. received since project commencement	0	0	0

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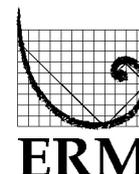
From ERM- Hong Kong, Limited

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 02 October 2018

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
0215660_07 September 2018_1hrTSP_Station ASR1

A total of one (1) exceedance was recorded on 07 September 2018.

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.	<p><u>Action Level Exceedance</u> 0215660_07 September 2018_1hrTSP_Station ASR1</p> <p>[Total No. of Exceedances = 1]</p>	
Date	<p>07 September 2018 (Measured) 02 October 2018 (Results obtained from ENPO Website)</p>	
Monitoring Station	ASR1, ASR5, ASR6, ASR10, AQMS1	
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
Limit Levels	1-hr TSP ($\mu\text{g}/\text{m}^3$)	500
Measured Levels	Refer to the attached data sheet.	
Works Undertaken (at the time of monitoring event)	<p>Works undertaken under this Contract on 07 September 2018 included:</p> <ul style="list-style-type: none"> ▪ Site preparation works, bar bending, timber formwork and concreting at Toll Control Building; ▪ Architectural, Builder's Work and Finishing at Ventilation Plant Room; ▪ Electrical and Mechanical Works at Northern Ventilation Building; and ▪ Socket H-pilling at Administration Building. 	
Possible Reason for Action or Limit Level Exceedance(s)	<p>The exceedance is unlikely to be due to the Project, in view of the following:</p> <ul style="list-style-type: none"> • Apart from one 1 hour TSP (08:57 - 09:57) at ASR1, other 1hr-TSP levels and all 24-hr TSP at all monitoring stations were in compliance with the Action and Limit Levels on the same day. • Watering record provided by the Contractor was reviewed. Watering was maintained on unpaved and dry road on 07 September 2018. • According to ET's site inspection on the same day, no particular findings was observed at the work areas nearby ASR1 (refer to ET's Site Inspection Photo). Unpaved roads were in wet condition. Material having the potential to create dust was covered by tarpaulin. <p>Based on the above, the exceedance is unlikely to be due to the Project.</p>	
Actions Taken/ To Be Taken	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.	
Dust Remarks	The monitoring results on 07 September 2018 and locations of air quality monitoring stations are attached. Works area under this Contract is attached. The attached wind data on 07 September 2018 is sourced from Contract No. HY/2012/08 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	2018-09-07	AQMS1	9:08	1-hour TSP	74	ug/m3
TMCLKL	HY/2012/08	2018-09-07	AQMS1	10:10	1-hour TSP	79	ug/m3
TMCLKL	HY/2012/08	2018-09-07	AQMS1	11:12	1-hour TSP	55	ug/m3
TMCLKL	HY/2012/08	2018-09-07	ASR1	8:57	1-hour TSP	392	ug/m3
TMCLKL	HY/2012/08	2018-09-07	ASR1	9:59	1-hour TSP	120	ug/m3
TMCLKL	HY/2012/08	2018-09-07	ASR1	11:01	1-hour TSP	60	ug/m3
TMCLKL	HY/2012/08	2018-09-07	ASR10	8:24	1-hour TSP	58	ug/m3
TMCLKL	HY/2012/08	2018-09-07	ASR10	9:26	1-hour TSP	48	ug/m3
TMCLKL	HY/2012/08	2018-09-07	ASR10	10:28	1-hour TSP	69	ug/m3
TMCLKL	HY/2012/08	2018-09-07	ASR5	8:46	1-hour TSP	104	ug/m3
TMCLKL	HY/2012/08	2018-09-07	ASR5	9:48	1-hour TSP	105	ug/m3
TMCLKL	HY/2012/08	2018-09-07	ASR5	10:50	1-hour TSP	129	ug/m3
TMCLKL	HY/2012/08	2018-09-07	ASR6	8:34	1-hour TSP	76	ug/m3
TMCLKL	HY/2012/08	2018-09-07	ASR6	9:36	1-hour TSP	119	ug/m3
TMCLKL	HY/2012/08	2018-09-07	ASR6	10:38	1-hour TSP	108	ug/m3
TMCLKL	HY/2012/08	2018-09-07	AQMS1	12:14	24-hour TSP	45	ug/m3
TMCLKL	HY/2012/08	2018-09-07	ASR1	12:03	24-hour TSP	66	ug/m3
TMCLKL	HY/2012/08	2018-09-07	ASR10	11:30	24-hour TSP	41	ug/m3
TMCLKL	HY/2012/08	2018-09-07	ASR5	11:52	24-hour TSP	98	ug/m3
TMCLKL	HY/2012/08	2018-09-07	ASR6	11:41	24-hour TSP	70	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 Director (degree)
18/09/07	0:00	0.9	90
18/09/07	1:00	1.3	79
18/09/07	2:00	1.3	94
18/09/07	3:00	0.9	60
18/09/07	4:00	0	72
18/09/07	5:00	0	326
18/09/07	6:00	0	330
18/09/07	7:00	0	261
18/09/07	8:00	0.4	144
18/09/07	9:00	0.9	143
18/09/07	10:00	0.9	129
18/09/07	11:00	0.9	125
18/09/07	12:00	2.2	196
18/09/07	13:00	1.8	204
18/09/07	14:00	0.9	274
18/09/07	15:00	0.9	200
18/09/07	16:00	0.4	288
18/09/07	17:00	1.3	72
18/09/07	18:00	1.3	74
18/09/07	19:00	1.3	95
18/09/07	20:00	0.4	63
18/09/07	21:00	0.4	281
18/09/07	22:00	0.4	281
18/09/07	23:00	1.3	319

*Wind data is sourced from Contract No. HY/2012/08 Tuen Mun - Chek Lap Kok Link - Northern Connection Sub-sea Tunnel Section

Photo 1 - Unpaved roads were in wet condition (07 September 2018)

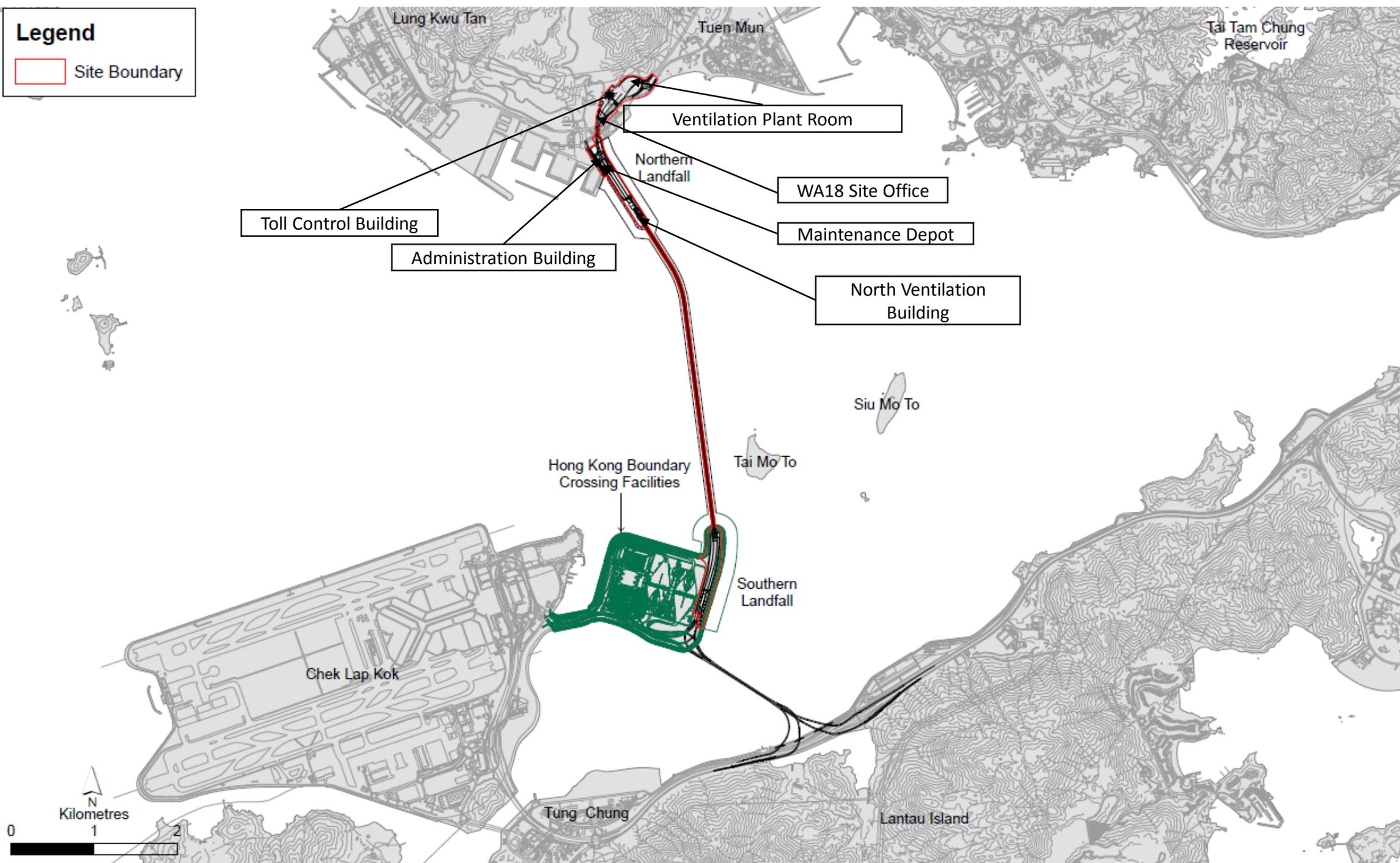


Photo 2 - Material that has potential impact on air quality was covered by tarpaulin (07 September 2018)



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 Site Boundary



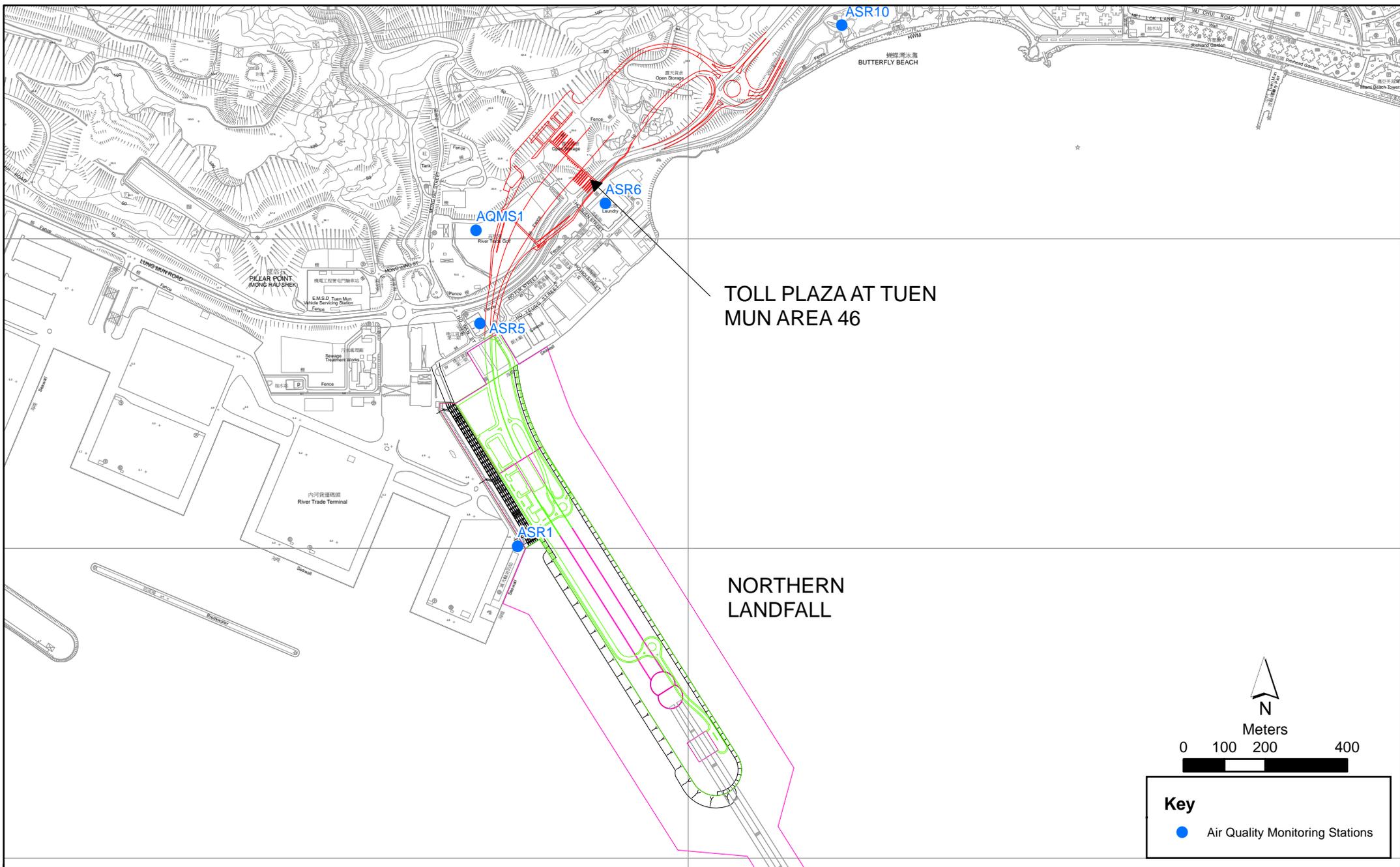


Figure 2.1

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)

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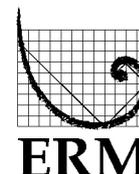
From ERM- Hong Kong, Limited

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Connection Tunnel Buildings, Electrical and
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Subject Notification of Exceedance for Air Quality
Impact Monitoring

Date 05 October 2018

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

0215660_28 September 2018_1hrTSP_Station ASR1

Limit Level Exceedance

0215660_28 September 2018_1hrTSP_Station ASR1

A total of two (2) exceedances were recorded on 28 September 2018.

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.	<p><u>Action Level Exceedance</u> 0215660_28 September 2018_1hrTSP_Station ASR1</p> <p><u>Limit Level Exceedance</u> 0215660_28 September 2018_1hrTSP_Station ASR1</p> <p>[Total No. of Exceedances = 2]</p>	
Date	<p>28 September 2018 (Measured) 05 October 2018 (Results obtained from ENPO Website)</p>	
Monitoring Station	ASR1, ASR5, ASR6, ASR10, AQMS1	
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
Limit Levels	1-hr TSP ($\mu\text{g}/\text{m}^3$)	500
Measured Levels	Refer to the attached data sheet.	
Works Undertaken (at the time of monitoring event)	<p>Works undertaken under this Contract on 28 September 2018 included:</p> <ul style="list-style-type: none"> ▪ Socket H-piling at Administration Building. 	
Possible Reason for Action or Limit Level Exceedance(s)	<p>The exceedance is unlikely to be due to the Project, in view of the following:</p> <ul style="list-style-type: none"> • Apart from exceedances of 1 hour TSP (14:39 - 15:39 and 15:41 - 16:41) at ASR1, other 1hr-TSP levels and all 24-hr TSP at all monitoring stations were in compliance with the Action and Limit Levels on the same day. • Watering record provided by the Contractor was reviewed. Watering was maintained on unpaved and dry road on 28 September 2018. • According to ET's site inspection on the same day, no particular findings was observed at the work areas nearby ASR1 (refer to ET's Site Inspection Photo). Construction works were limited to the work area of Administration Building. Unpaved roads at the work area were in wet condition. <p>Based on the above, the exceedances are unlikely to be due to the Project.</p>	
Actions Taken/ To Be Taken	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.	
Dust Remarks	The monitoring results on 28 September 2018 and locations of air quality monitoring stations are attached. Works area under this Contract is attached. The attached wind data on 28 September 2018 is sourced from Contract No. HY/2012/08 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	28-09-2018	AQMS1	13:48	1-hour TSP	109	ug/m3
TMCLKL	HY/2012/08	28-09-2018	AQMS1	14:50	1-hour TSP	130	ug/m3
TMCLKL	HY/2012/08	28-09-2018	AQMS1	15:52	1-hour TSP	139	ug/m3
TMCLKL	HY/2012/08	28-09-2018	ASR1	13:37	1-hour TSP	252	ug/m3
TMCLKL	HY/2012/08	28-09-2018	ASR1	14:39	1-hour TSP	584	ug/m3
TMCLKL	HY/2012/08	28-09-2018	ASR1	15:41	1-hour TSP	417	ug/m3
TMCLKL	HY/2012/08	28-09-2018	ASR10	13:02	1-hour TSP	103	ug/m3
TMCLKL	HY/2012/08	28-09-2018	ASR10	14:04	1-hour TSP	87	ug/m3
TMCLKL	HY/2012/08	28-09-2018	ASR10	15:06	1-hour TSP	103	ug/m3
TMCLKL	HY/2012/08	28-09-2018	ASR5	13:25	1-hour TSP	314	ug/m3
TMCLKL	HY/2012/08	28-09-2018	ASR5	14:27	1-hour TSP	184	ug/m3
TMCLKL	HY/2012/08	28-09-2018	ASR5	15:29	1-hour TSP	234	ug/m3
TMCLKL	HY/2012/08	28-09-2018	ASR6	13:14	1-hour TSP	201	ug/m3
TMCLKL	HY/2012/08	28-09-2018	ASR6	14:16	1-hour TSP	148	ug/m3
TMCLKL	HY/2012/08	28-09-2018	ASR6	15:18	1-hour TSP	187	ug/m3
TMCLKL	HY/2012/08	28-09-2018	AQMS1	16:54	24-hour TSP	67	ug/m3
TMCLKL	HY/2012/08	28-09-2018	ASR1	16:43	24-hour TSP	167	ug/m3
TMCLKL	HY/2012/08	28-09-2018	ASR10	16:08	24-hour TSP	52	ug/m3
TMCLKL	HY/2012/08	28-09-2018	ASR5	16:31	24-hour TSP	133	ug/m3
TMCLKL	HY/2012/08	28-09-2018	ASR6	16:20	24-hour TSP	96	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 Director (degree)
18-09-28	0:00	0.4	320
18-09-28	1:00	0.4	310
18-09-28	2:00	0.0	198
18-09-28	3:00	0.4	43
18-09-28	4:00	0.4	47
18-09-28	5:00	0.4	12
18-09-28	6:00	0.9	40
18-09-28	7:00	0.9	47
18-09-28	8:00	1.8	12
18-09-28	9:00	1.8	49
18-09-28	10:00	2.2	53
18-09-28	11:00	1.8	36
18-09-28	12:00	2.2	314
18-09-28	13:00	2.2	312
18-09-28	14:00	2.7	301
18-09-28	15:00	2.7	297
18-09-28	16:00	2.7	282
18-09-28	17:00	1.3	297
18-09-28	18:00	1.3	338
18-09-28	19:00	1.8	296
18-09-28	20:00	1.8	340
18-09-28	21:00	2.2	348
18-09-28	22:00	1.8	348
18-09-28	23:00	1.3	292

*Wind data is sourced from Contract No. HY/2012/08 Tuen Mun - Chek Lap Kok Link - Northern Connection Sub-sea Tunnel Section

Photo 1 - Unpaved roads were in wet condition (28 September 2018)

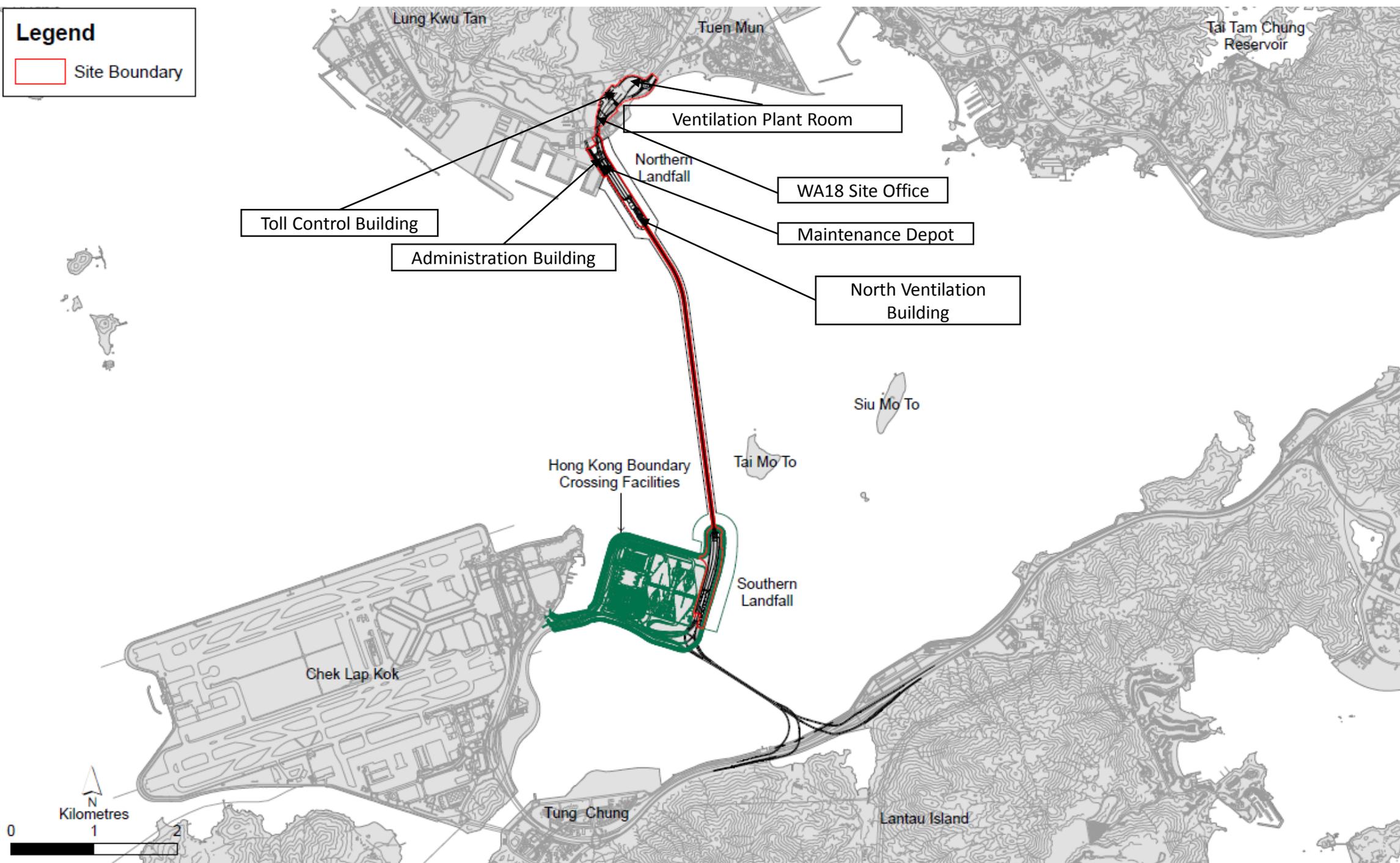


Photo 2 - Unpaved roads were in wet condition (28 September 2018)



Legend

Site Boundary



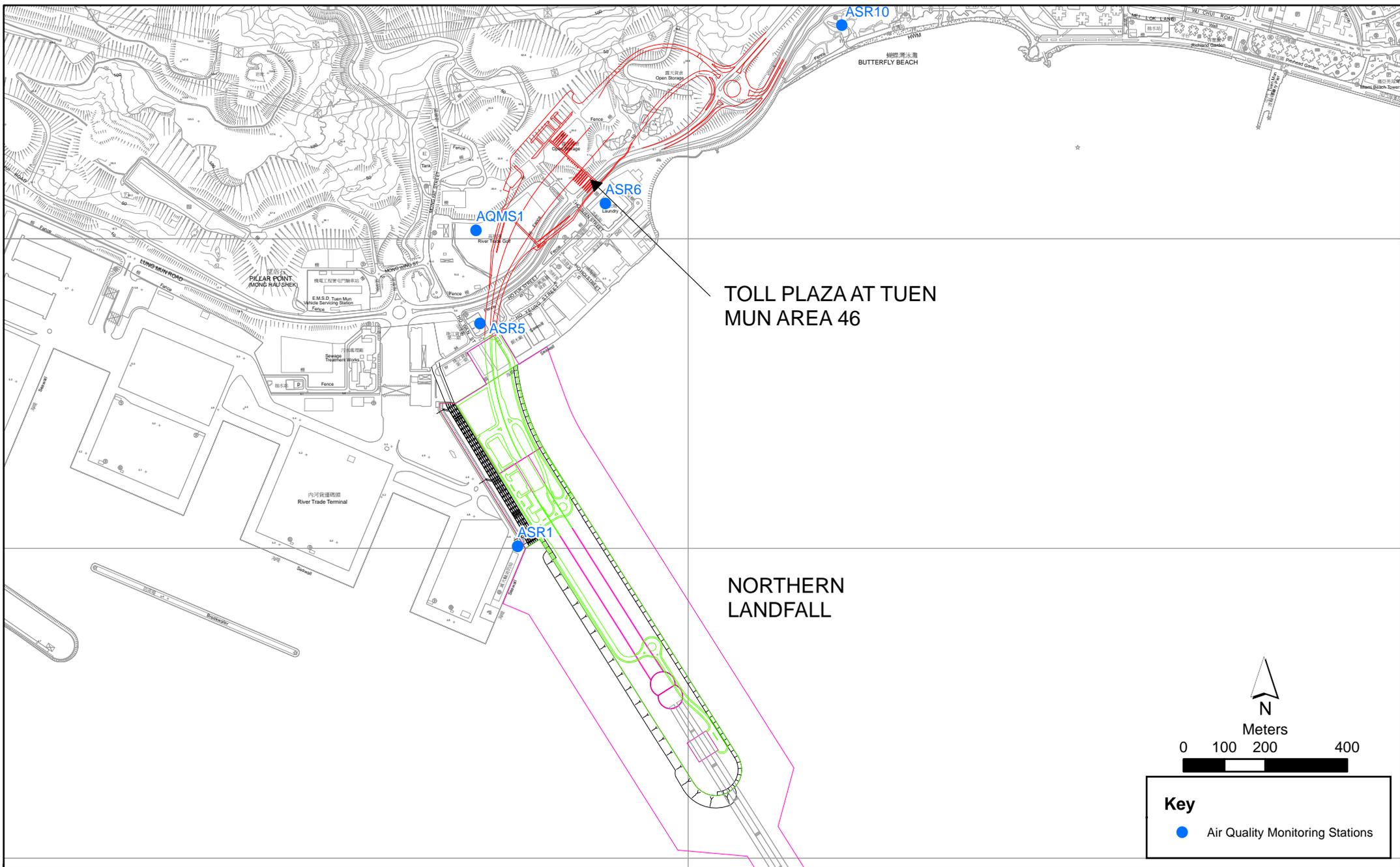


Figure 2.1

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)