

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	8	53
	Limit	2	11
24-Hr TSP	Action	2	4
	Limit	0	0
Landfill gas hazard monitoring			
• 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 Summons	Successful Prosecutions
This reporting quarter	0	0	0
Total No. received since contract commencement	1	0	0

Email
message

Environmental
Resources
Management

To Ramboll Hong Kong Limited (ENPO)

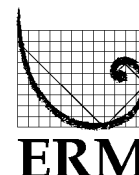
From ERM- Hong Kong, Limited

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 5 October 2020

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_11September2020_1hrTSP_Station ASR6

Limit Level Exceedance

0463091_11September2020_1hrTSP_Station ASR6

Two (2) exceedances were recorded on 11 September 2020.

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_11September2020_1hrTSP_Station ASR6	
	<u>Limit Level Exceedance</u> 0463091_11September2020_1hrTSP_Station ASR6	
	[Total No. of Exceedances = 2]	
Date	11 September 2020 (Measured) 5 October 2020 (Results obtained from ENPO Website)	
Monitoring Station	ASR6	
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 <i>Appendix A</i> (Data are source from Contract No. HY/2012/08).	
Works Undertaken (at the time of monitoring event)	Works undertaken under this Contract on 11 September 2020 included <ul style="list-style-type: none"> Defect rectification at Fire Services Department Building; Defect rectification at Customs and Excise Department Building 	
Possible Reason for Action or Limit Level Exceedance(s)	<p>The exceedances are unlikely to be due to the Contract, in view of the following:</p> <ul style="list-style-type: none"> With reference to the recorded wind direction (ranged between 222° and 264°), blowing from a south-westerly/ westerly direction) and wind speed (ranged between 0.9 and 1.3 m/s) when exceedances recorded, ASR6 is located downstream to Fire Services Department Building and Customs and Excise Department Building. However, only minor defect rectification works were conducted which are considered not major dust generating works. In addition, Environmental Team of Contract No. HY/2012/08 supplemented photos taken on 11 September 2020 during sampling period. It was observed that renovation works were conducted nearby ASR6. After confirmation with the Contractor, the works were not under this Contract. 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 or designated for landscaping works. The exposed area are covered with tarpaulin sheet/vegetation. Dust are not anticipated (refer to <i>Appendix B</i>). <p>Based on the above, the exceedance is unlikely to be due to the Contract.</p>	
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 11 September 2020, locations of air quality monitoring stations and wind data are attached (refer to <i>Appendix A</i>).
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Appendix A

Results of Air Quality
Monitoring, Meteorological
Data and Locations of Air
Quality Monitoring Stations

Air quality monitoring results on 11/9/2020								
Project	Contract	Date	Station	Weather	Start time	Parameters	Results	Unit
TMCLKL	HY/2012/08	2020-09-11	ASR10	Sunny	8:14:00	1-hour TSP	28	ug/m3
TMCLKL	HY/2012/08	2020-09-11	ASR10	Sunny	9:16:00	1-hour TSP	19	ug/m3
TMCLKL	HY/2012/08	2020-09-11	ASR10	Sunny	10:18:00	1-hour TSP	23	ug/m3
TMCLKL	HY/2012/08	2020-09-11	ASR6	Sunny	8:26:00	1-hour TSP	143	ug/m3
TMCLKL	HY/2012/08	2020-09-11	ASR6	Sunny	9:28:00	1-hour TSP	499	ug/m3
TMCLKL	HY/2012/08	2020-09-11	ASR6	Sunny	10:30:00	1-hour TSP	1454	ug/m3
TMCLKL	HY/2012/08	2020-09-11	ASR5	Sunny	8:37:00	1-hour TSP	86	ug/m3
TMCLKL	HY/2012/08	2020-09-11	ASR5	Sunny	9:39:00	1-hour TSP	73	ug/m3
TMCLKL	HY/2012/08	2020-09-11	ASR5	Sunny	10:41:00	1-hour TSP	74	ug/m3
TMCLKL	HY/2012/08	2020-09-11	ASR1	Sunny	8:49:00	1-hour TSP	37	ug/m3
TMCLKL	HY/2012/08	2020-09-11	ASR1	Sunny	9:51:00	1-hour TSP	74	ug/m3
TMCLKL	HY/2012/08	2020-09-11	ASR1	Sunny	10:53:00	1-hour TSP	57	ug/m3
TMCLKL	HY/2012/08	2020-09-11	AQMS1	Sunny	9:00:00	1-hour TSP	50	ug/m3
TMCLKL	HY/2012/08	2020-09-11	AQMS1	Sunny	10:02:00	1-hour TSP	48	ug/m3
TMCLKL	HY/2012/08	2020-09-11	AQMS1	Sunny	11:04:00	1-hour TSP	41	ug/m3
TMCLKL	HY/2012/08	2020-09-11	ASR10	Sunny	11:20:00	24-hour TSP	21	ug/m3
TMCLKL	HY/2012/08	2020-09-11	ASR6	Sunny	11:32:00	24-hour TSP	70	ug/m3
TMCLKL	HY/2012/08	2020-09-11	ASR5	Sunny	11:43:00	24-hour TSP	49	ug/m3
TMCLKL	HY/2012/08	2020-09-11	ASR1	Sunny	11:55:00	24-hour TSP	43	ug/m3
TMCLKL	HY/2012/08	2020-09-11	AQMS1	Sunny	12:06:00	24-hour TSP	39	ug/m3

Action level exceedance

Limit level exceedance

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)
20/09/11	0:00	0.4	109
20/09/11	1:00	0	102
20/09/11	2:00	0.4	205
20/09/11	3:00	0	64
20/09/11	4:00	0	73
20/09/11	5:00	0.4	15
20/09/11	6:00	0.4	334
20/09/11	7:00	0.4	335
20/09/11	8:00	0.9	98
20/09/11	9:00	0.9	233
20/09/11	10:00	0.9	264
20/09/11	11:00	1.3	222
20/09/11	12:00	2.2	138
20/09/11	13:00	1.3	100
20/09/11	14:00	1.8	249
20/09/11	15:00	1.8	141
20/09/11	16:00	1.8	84
20/09/11	17:00	1.3	84
20/09/11	18:00	1.3	100
20/09/11	19:00	1.3	86
20/09/11	20:00	0.9	96
20/09/11	21:00	0.4	78
20/09/11	22:00	0.4	34
20/09/11	23:00	0.4	83



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)

Key
 ● Air Quality Monitoring Stations

**Environmental
 Resources
 Management**



Appendix B

Site Photo



Photo 1 - Northern Landfall

Email
message

Environmental
Resources
Management

To Ramboll Hong Kong Limited (ENPO)

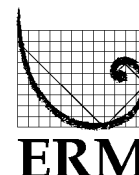
From ERM- Hong Kong, Limited

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 22 October 2020

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_9October2020_1hrTSP_Station ASR5

One (1) exceedance was recorded on 9 October 2020.

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_9October2020_1hrTSP_Station ASR5	
	[Total No. of Exceedances = 1]	
Date	9 October 2020 (Measured) 22 October 2020 (Results obtained from ENPO Website)	
Monitoring Station	ASR5	
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 <i>Appendix A</i> (Data are source from Contract No. HY/2012/08).	
Works Undertaken (at the time of monitoring event)	Works undertaken under this Contract on 9 October 2020 included <ul style="list-style-type: none"> • Indoor defect rectification at Fire Services Department Building; • Indoor defect rectification at Main 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"> • With reference to the recorded wind direction (ranged between 3° and 34°), blowing from a northerly/north-easterly direction) and wind speed (1.8 m/s) when exceedance recorded, ASR5 is located upstream to the work area. However, only minor defect rectification works were conducted which are considered not major dust generating works. • 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 or designated for landscaping works. The exposed area are covered with tarpaulin sheet/vegetation. Dust are not anticipated (<i>Appendix B</i>). <p>Based on the above, the exceedance is unlikely to be due to the Contract.</p>	
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 9 October 2020, locations of air quality monitoring stations and wind data are attached (refer to <i>Appendix A</i>).	

Appendix A

Results of Air Quality
Monitoring, Meteorological
Data and Locations of Air
Quality Monitoring Stations

Air quality monitoring results on 9/10/2020								
Project	Contract	Date	Station	Weather	Start time	Parameters	Results	Unit
TMCLKL	HY/2012/08	2020-10-09	ASR10	Sunny	8:10:00	1-hour TSP	94	ug/m3
TMCLKL	HY/2012/08	2020-10-09	ASR10	Sunny	9:12:00	1-hour TSP	64	ug/m3
TMCLKL	HY/2012/08	2020-10-09	ASR10	Sunny	10:14:00	1-hour TSP	85	ug/m3
TMCLKL	HY/2012/08	2020-10-09	ASR6	Sunny	8:20:00	1-hour TSP	178	ug/m3
TMCLKL	HY/2012/08	2020-10-09	ASR6	Sunny	9:22:00	1-hour TSP	91	ug/m3
TMCLKL	HY/2012/08	2020-10-09	ASR6	Sunny	10:24:00	1-hour TSP	109	ug/m3
TMCLKL	HY/2012/08	2020-10-09	ASR5	Sunny	8:32:00	1-hour TSP	373	ug/m3
TMCLKL	HY/2012/08	2020-10-09	ASR5	Sunny	9:34:00	1-hour TSP	178	ug/m3
TMCLKL	HY/2012/08	2020-10-09	ASR5	Sunny	10:36:00	1-hour TSP	167	ug/m3
TMCLKL	HY/2012/08	2020-10-09	ASR1	Sunny	8:44:00	1-hour TSP	181	ug/m3
TMCLKL	HY/2012/08	2020-10-09	ASR1	Sunny	9:46:00	1-hour TSP	145	ug/m3
TMCLKL	HY/2012/08	2020-10-09	ASR1	Sunny	10:48:00	1-hour TSP	114	ug/m3
TMCLKL	HY/2012/08	2020-10-09	AQMS1	Sunny	8:55:00	1-hour TSP	80	ug/m3
TMCLKL	HY/2012/08	2020-10-09	AQMS1	Sunny	9:57:00	1-hour TSP	106	ug/m3
TMCLKL	HY/2012/08	2020-10-09	AQMS1	Sunny	10:59:00	1-hour TSP	94	ug/m3
TMCLKL	HY/2012/08	2020-10-09	ASR10	Sunny	11:16:00	24-hour TSP	73	ug/m3
TMCLKL	HY/2012/08	2020-10-09	ASR6	Sunny	11:26:00	24-hour TSP	105	ug/m3
TMCLKL	HY/2012/08	2020-10-09	ASR5	Sunny	11:38:00	24-hour TSP	125	ug/m3
TMCLKL	HY/2012/08	2020-10-09	ASR1	Sunny	11:50:00	24-hour TSP	153	ug/m3
TMCLKL	HY/2012/08	2020-10-09	AQMS1	Sunny	12:01:00	24-hour TSP	82	ug/m3

Action level exceedance

Limit level exceedance

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)
20/10/09	0:00	2.2	29
20/10/09	1:00	2.2	30
20/10/09	2:00	2.2	28
20/10/09	3:00	2.2	20
20/10/09	4:00	2.2	16
20/10/09	5:00	2.7	27
20/10/09	6:00	1.8	15
20/10/09	7:00	0.9	347
20/10/09	8:00	1.8	3
20/10/09	9:00	1.8	34
20/10/09	10:00	1.8	11
20/10/09	11:00	1.8	34
20/10/09	12:00	1.8	31
20/10/09	13:00	1.8	23
20/10/09	14:00	1.3	266
20/10/09	15:00	1.3	332
20/10/09	16:00	1.3	338
20/10/09	17:00	1.8	25
20/10/09	18:00	2.2	332
20/10/09	19:00	1.8	312
20/10/09	20:00	2.7	318
20/10/09	21:00	2.7	331
20/10/09	22:00	1.8	345
20/10/09	23:00	0.9	335

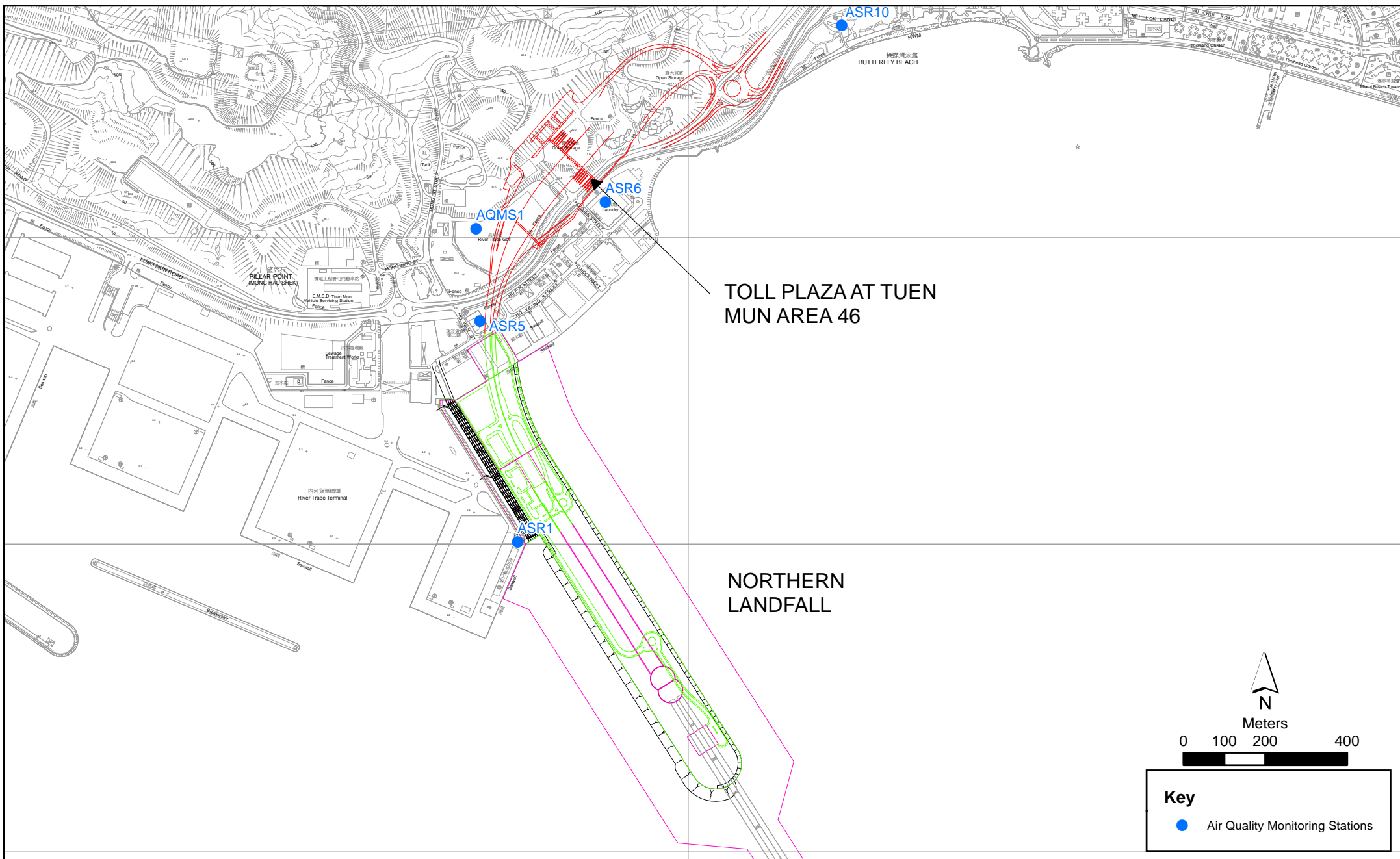


Figure 2.1

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)

Appendix B

Site Photo



Photo 1 - Fire Services Department Building



Photo 2 - Main Control Building

Email
message

Environmental
Resources
Management

To Ramboll Hong Kong Limited (ENPO)

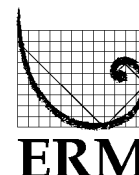
From ERM- Hong Kong, Limited

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 10 November 2020

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_21October2020_1hrTSP_Station ASR6

0463091_21October2020_1hrTSP_Station ASR5

0463091_21October2020_1hrTSP_Station ASR1

Three (3) exceedances were recorded on 21 October 2020.

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 style="text-align: center;"><u>Action Level Exceedance</u></p> <p style="text-align: center;">0463091_21October2020_1hrTSP_Station ASR6 0463091_21October2020_1hrTSP_Station ASR5 0463091_21October2020_1hrTSP_Station ASR1</p> <p style="text-align: center;">[Total No. of Exceedances = 3]</p>	
Date	<p style="text-align: center;">21 October 2020 (Measured) 10 November 2020 (Results obtained from ENPO Website)</p>	
Monitoring Station	<p style="text-align: center;">ASR6, ASR5, ASR1</p>	
Parameter(s) with Exceedance(s)	<p style="text-align: center;">1- hr TSP</p>	
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 <i>Appendix A</i> (Data are source from Contract No. HY/2012/08).	
Works Undertaken (at the time of monitoring event)	Works undertaken under this Contract on 21 October 2020 included <ul style="list-style-type: none"> • Indoor defect rectification at Northern Landfall; • Indoor defect rectification at Main Control Building 	
Possible Reason for Action or Limit Level Exceedance(s)	The exceedance is unlikely to be due to the Contract, in view of the following: <ul style="list-style-type: none"> • With reference to the recorded wind direction (ranged between 322° and 345°), blowing from a north-westerly direction) and wind speed (2.2 m/s) when exceedances recorded, ASR5 and ASR6 are located upstream to the work area. • Only minor defect rectification works were conducted which are considered not major dust generating works, thus result of 1-hour TSP at ASR1 was unlikely impacted by the works under this project. • 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 or designated for landscaping works. The exposed area are covered with tarpaulin sheet/vegetation. Dust are not anticipated (<i>Appendix B</i>). 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 21 October 2020, locations of air quality monitoring stations and wind data are attached (refer to <i>Appendix A</i>).	

Appendix A

Results of Air Quality
Monitoring, Meteorological
Data and Locations of Air
Quality Monitoring Stations

Air quality monitoring results on 21/10/2020								
Project	Contract	Date	Station	Weather	Start time	Parameters	Results	Unit
TMCLKL	HY/2012/08	2020-10-21	ASR10	Sunny	8:00:00	1-hour TSP	108	ug/m3
TMCLKL	HY/2012/08	2020-10-21	ASR10	Sunny	9:02:00	1-hour TSP	94	ug/m3
TMCLKL	HY/2012/08	2020-10-21	ASR10	Sunny	10:04:00	1-hour TSP	107	ug/m3
TMCLKL	HY/2012/08	2020-10-21	ASR6	Sunny	8:12:00	1-hour TSP	254	ug/m3
TMCLKL	HY/2012/08	2020-10-21	ASR6	Sunny	9:14:00	1-hour TSP	149	ug/m3
TMCLKL	HY/2012/08	2020-10-21	ASR6	Sunny	10:16:00	1-hour TSP	352	ug/m3
TMCLKL	HY/2012/08	2020-10-21	ASR5	Sunny	8:23:00	1-hour TSP	474	ug/m3
TMCLKL	HY/2012/08	2020-10-21	ASR5	Sunny	9:25:00	1-hour TSP	213	ug/m3
TMCLKL	HY/2012/08	2020-10-21	ASR5	Sunny	10:27:00	1-hour TSP	265	ug/m3
TMCLKL	HY/2012/08	2020-10-21	ASR1	Sunny	8:35:00	1-hour TSP	494	ug/m3
TMCLKL	HY/2012/08	2020-10-21	ASR1	Sunny	9:37:00	1-hour TSP	231	ug/m3
TMCLKL	HY/2012/08	2020-10-21	ASR1	Sunny	10:39:00	1-hour TSP	224	ug/m3
TMCLKL	HY/2012/08	2020-10-21	AQMS1	Sunny	8:47:00	1-hour TSP	92	ug/m3
TMCLKL	HY/2012/08	2020-10-21	AQMS1	Sunny	9:49:00	1-hour TSP	114	ug/m3
TMCLKL	HY/2012/08	2020-10-21	AQMS1	Sunny	10:51:00	1-hour TSP	123	ug/m3
TMCLKL	HY/2012/08	2020-10-21	ASR10	Sunny	11:06:00	24-hour TSP	88	ug/m3
TMCLKL	HY/2012/08	2020-10-21	ASR6	Sunny	11:18:00	24-hour TSP	165	ug/m3
TMCLKL	HY/2012/08	2020-10-21	ASR5	Sunny	11:29:00	24-hour TSP	138	ug/m3
TMCLKL	HY/2012/08	2020-10-21	ASR1	Sunny	11:41:00	24-hour TSP	170	ug/m3
TMCLKL	HY/2012/08	2020-10-21	AQMS1	Sunny	11:53:00	24-hour TSP	101	ug/m3

Action level exceedance

Limit level exceedance

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)
20/10/21	0:00	3.1	345
20/10/21	1:00	2.2	337
20/10/21	2:00	2.7	348
20/10/21	3:00	4.9	341
20/10/21	4:00	1.3	207
20/10/21	5:00	2.7	320
20/10/21	6:00	3.6	328
20/10/21	7:00	2.2	308
20/10/21	8:00	2.2	339
20/10/21	9:00	2.2	345
20/10/21	10:00	2.2	322
20/10/21	11:00	3.1	303
20/10/21	12:00	2.7	337
20/10/21	13:00	2.7	341
20/10/21	14:00	2.7	320
20/10/21	15:00	2.2	321
20/10/21	16:00	2.2	320
20/10/21	17:00	1.3	323
20/10/21	18:00	2.2	309
20/10/21	19:00	3.6	341
20/10/21	20:00	4	339
20/10/21	21:00	1.8	315
20/10/21	22:00	2.7	348
20-10-21	23:00	1.8	346



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)

Appendix B

Site Photo



Photo 1 - Northern Landfall



Photo 2 - Main Control Building

Email
message

Environmental
Resources
Management

To Ramboll Hong Kong Limited (ENPO)

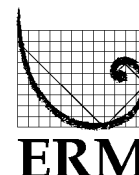
From ERM- Hong Kong, Limited

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 27 November 2020

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_2November2020_24hrTSP_Station ASR1

One (1) exceedance was recorded on 2 November 2020.

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_2November2020_24hrTSP_Station ASR1 [Total No. of Exceedances = 1]	
Date	2 November 2020 (Measured) 27 November 2020 (Results obtained from ENPO Website)	
Monitoring Station	ASR1	
Parameter(s) with Exceedance(s)	24 - 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 <i>Appendix A</i> (Data are source from Contract No. HY/2012/08).	
Works Undertaken (at the time of monitoring event)	Works undertaken under this Contract on 2 November 2020 included <ul style="list-style-type: none"> Indoor defect works at Customs and Excise Department Building, including wall painting, vinyl sheet floor laying, wall plastering and floor sealer painting. 	
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"> With reference to the recorded wind direction (vary between 2° and 358° and) and wind speed (ranged between 1.3 and 4.0 m/s), the wind was mainly from north-easterly and north-westerly direction. Haze was observed during the sampling time. Only minor indoor defect works were conducted which are considered not major dust generating works, thus result of 24-hour TSP at ASR1 was unlikely impacted by the works under this project. The construction area under this Contract were paved/covered with vegetation. Dust are not anticipated. <p>Based on the above, the exceedance is unlikely to be due to the Contract.</p>	
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 2 November 2020, locations of air quality monitoring stations and wind data are attached (refer to <i>Appendix A</i>).	

Appendix A

Results of Air Quality
Monitoring, Meteorological
Data and Locations of Air
Quality Monitoring Stations

Air quality monitoring results on 2/11/2020								
Project	Contract	Date	Station	Weather	Start time	Parameters	Results	Unit
TMCLKL	HY/2012/08	2020-11-02	ASR10	Hazy	8:02:00	1-hour TSP	85	ug/m3
TMCLKL	HY/2012/08	2020-11-02	ASR10	Hazy	9:04:00	1-hour TSP	102	ug/m3
TMCLKL	HY/2012/08	2020-11-02	ASR10	Hazy	10:06:00	1-hour TSP	123	ug/m3
TMCLKL	HY/2012/08	2020-11-02	ASR6	Hazy	8:13:00	1-hour TSP	184	ug/m3
TMCLKL	HY/2012/08	2020-11-02	ASR6	Hazy	9:15:00	1-hour TSP	174	ug/m3
TMCLKL	HY/2012/08	2020-11-02	ASR6	Hazy	10:17:00	1-hour TSP	152	ug/m3
TMCLKL	HY/2012/08	2020-11-02	ASR5	Hazy	8:24:00	1-hour TSP	283	ug/m3
TMCLKL	HY/2012/08	2020-11-02	ASR5	Hazy	9:26:00	1-hour TSP	262	ug/m3
TMCLKL	HY/2012/08	2020-11-02	ASR5	Hazy	10:28:00	1-hour TSP	214	ug/m3
TMCLKL	HY/2012/08	2020-11-02	ASR1	Hazy	8:37:00	1-hour TSP	249	ug/m3
TMCLKL	HY/2012/08	2020-11-02	ASR1	Hazy	9:39:00	1-hour TSP	196	ug/m3
TMCLKL	HY/2012/08	2020-11-02	ASR1	Hazy	10:41:00	1-hour TSP	222	ug/m3
TMCLKL	HY/2012/08	2020-11-02	AQMS1	Hazy	8:48:00	1-hour TSP	109	ug/m3
TMCLKL	HY/2012/08	2020-11-02	AQMS1	Hazy	9:50:00	1-hour TSP	139	ug/m3
TMCLKL	HY/2012/08	2020-11-02	AQMS1	Hazy	10:52:00	1-hour TSP	140	ug/m3
TMCLKL	HY/2012/08	2020-11-02	AQMS1	Hazy	11:54:00	24-hour TSP	95	ug/m3
TMCLKL	HY/2012/08	2020-11-02	ASR1	Hazy	11:43:00	24-hour TSP	244	ug/m3
TMCLKL	HY/2012/08	2020-11-02	ASR10	Hazy	11:08:00	24-hour TSP	108	ug/m3
TMCLKL	HY/2012/08	2020-11-02	ASR5	Hazy	11:30:00	24-hour TSP	154	ug/m3
TMCLKL	HY/2012/08	2020-11-02	ASR6	Hazy	11:19:00	24-hour TSP	121	ug/m3

Action level exceedance

Limit level exceedance

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)
20/11/02	0:00	0.4	19
20/11/02	1:00	0.4	336
20/11/02	2:00	0.4	11
20/11/02	3:00	0.9	349
20/11/02	4:00	0.4	322
20/11/02	5:00	0.4	66
20/11/02	6:00	0.4	34
20/11/02	7:00	0.9	57
20/11/02	8:00	1.8	11
20/11/02	9:00	2.2	25
20/11/02	10:00	2.2	17
20/11/02	11:00	2.2	34
20/11/02	12:00	2.2	30
20/11/02	13:00	2.2	11
20/11/02	14:00	1.8	11
20/11/02	15:00	2.7	324
20/11/02	16:00	2.7	310
20/11/02	17:00	2.2	327
20/11/02	18:00	2.2	343
20/11/02	19:00	2.7	342
20/11/02	20:00	4.5	344
20/11/02	21:00	4.5	328
20/11/02	22:00	4	333
20/11/02	23:00	2.7	337
20/11/03	0:00	1.8	19
20/11/03	1:00	1.3	2
20/11/03	2:00	2.2	332
20/11/03	3:00	2.2	346
20/11/03	4:00	1.8	346
20/11/03	5:00	1.8	339
20/11/03	6:00	2.7	326
20/11/03	7:00	2.2	358
20/11/03	8:00	2.2	27
20/11/03	9:00	2.7	24
20/11/03	10:00	2.7	34
20/11/03	11:00	2.2	22
20/11/03	12:00	1.8	357
20/11/03	13:00	1.8	16
20/11/03	14:00	1.8	1
20/11/03	15:00	1.3	22
20/11/03	16:00	0.9	332
20/11/03	17:00	0.4	89
20/11/03	18:00	1.8	2
20/11/03	19:00	1.3	34
20/11/03	20:00	1.3	33
20/11/03	21:00	1.3	76
20/11/03	22:00	0.9	20
20/11/03	23:00	1.3	12



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)

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 27 November 2020

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_6November 2020_24hrTSP_Station ASR1

Limit Level Exceedance
0463091_6November2020_1hrTSP_Station ASR1

Two (2) exceedances were recorded on 6 November 2020.

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 style="text-align: center;"><u>Action Level Exceedance</u> 0463091_6November 2020_24hrTSP_Station ASR1</p> <p style="text-align: center;"><u>Limit Level Exceedance</u> 0463091_6November2020_1hrTSP_Station ASR1</p> <p style="text-align: center;">[Total No. of Exceedances = 2]</p>	
Date	<p style="text-align: center;">6 November 2020 (Measured) 27 November 2020 (Results obtained from ENPO Website)</p>	
Monitoring Station	<p style="text-align: center;">ASR1</p>	
Parameter(s) with Exceedance(s)	<p style="text-align: center;">1 - hr TSP and 24 - hr TSP</p>	
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 <i>Appendix A</i> (Data are source from Contract No. HY/2012/08).	
Works Undertaken (at the time of monitoring event)	Works undertaken under this Contract on 6 November 2020 included <ul style="list-style-type: none"> Indoor defect works at Customs and Excise Department Building, including wall painting, vinyl sheet floor laying, wall plastering and floor sealer painting. 	
Possible Reason for Action or Limit Level Exceedance(s)	The exceedances are unlikely to be due to the Contract, in view of the following: <ul style="list-style-type: none"> With reference to the recorded wind direction (vary between 13° and 325° and) and wind speed (ranged between 0.4 and 2.7 m/s), the wind was mainly from north-westerly direction and occasionally north-easterly direction. Haze was observed during the sampling time. Only minor defect works were conducted which are considered not major dust generating works, thus results of 1-hour TSP and 24-hour TSP at ASR1 were unlikely impacted by the works under this project. The construction area under this Contract were paved/covered with vegetation. 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 6 November 2020, locations of air quality monitoring stations and wind data are attached (refer to <i>Appendix A</i>).	

Appendix A

Results of Air Quality
Monitoring, Meteorological
Data and Locations of Air
Quality Monitoring Stations

Air quality monitoring results on 6/11/2020								
Project	Contract	Date	Station	Weather	Start time	Parameters	Results	Unit
TMCLKL	HY/2012/08	2020-11-06	ASR10	Hazy	8:00:00	1-hour TSP	89	ug/m3
TMCLKL	HY/2012/08	2020-11-06	ASR10	Hazy	9:02:00	1-hour TSP	165	ug/m3
TMCLKL	HY/2012/08	2020-11-06	ASR10	Hazy	10:04:00	1-hour TSP	135	ug/m3
TMCLKL	HY/2012/08	2020-11-06	ASR6	Hazy	8:13:00	1-hour TSP	126	ug/m3
TMCLKL	HY/2012/08	2020-11-06	ASR6	Hazy	9:15:00	1-hour TSP	175	ug/m3
TMCLKL	HY/2012/08	2020-11-06	ASR6	Hazy	10:17:00	1-hour TSP	180	ug/m3
TMCLKL	HY/2012/08	2020-11-06	ASR5	Hazy	8:25:00	1-hour TSP	247	ug/m3
TMCLKL	HY/2012/08	2020-11-06	ASR5	Hazy	9:27:00	1-hour TSP	163	ug/m3
TMCLKL	HY/2012/08	2020-11-06	ASR5	Hazy	10:29:00	1-hour TSP	229	ug/m3
TMCLKL	HY/2012/08	2020-11-06	ASR1	Hazy	8:36:00	1-hour TSP	887	ug/m3
TMCLKL	HY/2012/08	2020-11-06	ASR1	Hazy	9:38:00	1-hour TSP	311	ug/m3
TMCLKL	HY/2012/08	2020-11-06	ASR1	Hazy	10:40:00	1-hour TSP	237	ug/m3
TMCLKL	HY/2012/08	2020-11-06	AQMS1	Hazy	8:47:00	1-hour TSP	182	ug/m3
TMCLKL	HY/2012/08	2020-11-06	AQMS1	Hazy	9:49:00	1-hour TSP	150	ug/m3
TMCLKL	HY/2012/08	2020-11-06	AQMS1	Hazy	10:51:00	1-hour TSP	222	ug/m3
TMCLKL	HY/2012/08	2020-11-06	AQMS1	Hazy	11:53:00	24-hour TSP	141	ug/m3
TMCLKL	HY/2012/08	2020-11-06	ASR1	Hazy	11:42:00	24-hour TSP	214	ug/m3
TMCLKL	HY/2012/08	2020-11-06	ASR10	Hazy	11:06:00	24-hour TSP	120	ug/m3
TMCLKL	HY/2012/08	2020-11-06	ASR5	Hazy	11:31:00	24-hour TSP	176	ug/m3
TMCLKL	HY/2012/08	2020-11-06	ASR6	Hazy	11:19:00	24-hour TSP	185	ug/m3

Action level exceedance

Limit level exceedance

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)
20/11/06	0:00	0.9	45
20/11/06	1:00	0.9	50
20/11/06	2:00	0.9	15
20/11/06	3:00	0.9	70
20/11/06	4:00	0.4	21
20/11/06	5:00	0.4	56
20/11/06	6:00	0.4	54
20/11/06	7:00	0	350
20/11/06	8:00	0.4	54
20/11/06	9:00	2.7	304
20/11/06	10:00	1.3	79
20/11/06	11:00	1.3	111
20/11/06	12:00	1.8	260
20/11/06	13:00	2.7	275
20/11/06	14:00	2.7	273
20/11/06	15:00	2.2	263
20/11/06	16:00	1.3	266
20/11/06	17:00	1.3	286
20/11/06	18:00	0.9	301
20/11/06	19:00	1.8	320
20/11/06	20:00	0.9	310
20/11/06	21:00	0.4	323
20/11/06	22:00	0.9	312
20/11/06	23:00	0.4	321
20/11/07	0:00	0.4	325
20/11/07	1:00	1.8	307
20/11/07	2:00	0.4	105
20/11/07	3:00	0.4	315
20/11/07	4:00	0.9	306
20/11/07	5:00	1.3	315
20/11/07	6:00	1.3	315
20/11/07	7:00	2.2	27
20/11/07	8:00	2.7	30
20/11/07	9:00	2.2	18
20/11/07	10:00	1.8	13
20/11/07	11:00	1.3	307
20/11/07	12:00	1.3	318
20/11/07	13:00	1.3	313
20/11/07	14:00	1.8	262
20/11/07	15:00	1.8	277
20/11/07	16:00	2.7	325
20/11/07	17:00	1.8	307
20/11/07	18:00	0.9	303
20/11/07	19:00	1.8	306
20/11/07	20:00	0.4	130
20/11/07	21:00	0.9	326
20/11/07	22:00	1.3	19
20/11/07	23:00	0.9	20

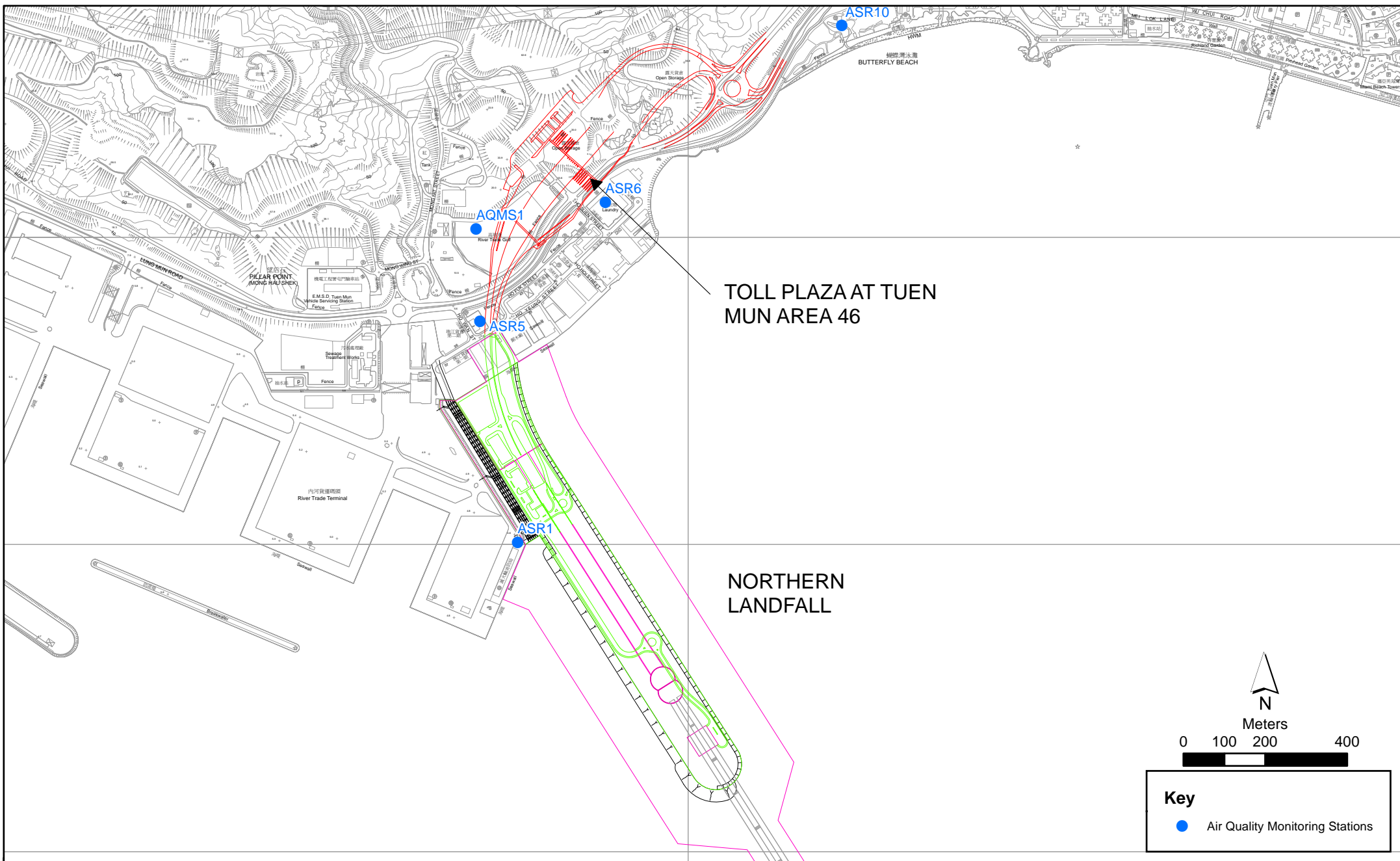


Figure 2.1

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)

Email
message

Environmental
Resources
Management

To Ramboll Hong Kong Limited (ENPO)

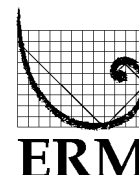
From ERM- Hong Kong, Limited

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 27 November 2020

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_12November2020_1hrTSP_Station ASR6

0463091_12November2020_1hrTSP_Station ASR5

0463091_12November2020_1hrTSP_Station ASR1

Two (2) exceedances were recorded on 12 November 2020.

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_12November 2020_1hrTSP_Station ASR6 0463091_12November 2020_1hrTSP_Station ASR5 0463091_12November 2020_1hrTSP_Station ASR1 [Total No. of Exceedances = 3]	
Date	12 November 2020 (Measured) 27 November 2020 (Results obtained from ENPO Website)	
Monitoring Station	ASR6, ASR5 and 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 <i>Appendix A</i> (Data are source from Contract No. HY/2012/08).	
Works Undertaken (at the time of monitoring event)	Works undertaken under this Contract on 12 November 2020 included <ul style="list-style-type: none"> Indoor defect works at Customs and Excise Department Building, including wall painting, vinyl sheet floor laying, wall plastering and floor sealer painting. 	
Possible Reason for Action or Limit Level Exceedance(s)	The exceedances are unlikely to be due to the Contract, in view of the following: <ul style="list-style-type: none"> With reference to the recorded wind direction (vary between 192° and 228° and) and wind speed (ranged between 1.8 and 2.2 m/s), the wind was mainly from south-westerly direction. Haze was observed during the sampling time. Only minor defect works were conducted which are considered not major dust generating works, thus results of 1-hour TSP at ASR6, ASR5 and ASR1 were unlikely impacted by the works under this project. The construction area under this Contract were paved/covered with vegetation. 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 12 November 2020, locations of air quality monitoring stations and wind data are attached (refer to <i>Appendix A</i>).	

Appendix A

Results of Air Quality
Monitoring, Meteorological
Data and Locations of Air
Quality Monitoring Stations

Air quality monitoring results on 12/11/2020								
Project	Contract	Date	Station	Weather	Start time	Parameters	Results	Unit
TMCLKL	HY/2012/08	2020-11-12	ASR10	Hazy	13:07:00	1-hour TSP	230	ug/m3
TMCLKL	HY/2012/08	2020-11-12	ASR10	Hazy	14:09:00	1-hour TSP	171	ug/m3
TMCLKL	HY/2012/08	2020-11-12	ASR10	Hazy	15:11:00	1-hour TSP	148	ug/m3
TMCLKL	HY/2012/08	2020-11-12	ASR6	Hazy	13:18:00	1-hour TSP	358	ug/m3
TMCLKL	HY/2012/08	2020-11-12	ASR6	Hazy	14:20:00	1-hour TSP	126	ug/m3
TMCLKL	HY/2012/08	2020-11-12	ASR6	Hazy	15:22:00	1-hour TSP	182	ug/m3
TMCLKL	HY/2012/08	2020-11-12	ASR5	Hazy	13:29:00	1-hour TSP	433	ug/m3
TMCLKL	HY/2012/08	2020-11-12	ASR5	Hazy	14:31:00	1-hour TSP	195	ug/m3
TMCLKL	HY/2012/08	2020-11-12	ASR5	Hazy	15:33:00	1-hour TSP	249	ug/m3
TMCLKL	HY/2012/08	2020-11-12	ASR1	Hazy	13:41:00	1-hour TSP	474	ug/m3
TMCLKL	HY/2012/08	2020-11-12	ASR1	Hazy	14:43:00	1-hour TSP	186	ug/m3
TMCLKL	HY/2012/08	2020-11-12	ASR1	Hazy	15:45:00	1-hour TSP	213	ug/m3
TMCLKL	HY/2012/08	2020-11-12	AQMS1	Hazy	13:52:00	1-hour TSP	175	ug/m3
TMCLKL	HY/2012/08	2020-11-12	AQMS1	Hazy	14:54:00	1-hour TSP	145	ug/m3
TMCLKL	HY/2012/08	2020-11-12	AQMS1	Hazy	15:56:00	1-hour TSP	231	ug/m3
TMCLKL	HY/2012/08	2020-11-12	AQMS1	Hazy	16:58:00	24-hour TSP	91	ug/m3
TMCLKL	HY/2012/08	2020-11-12	ASR1	Hazy	16:47:00	24-hour TSP	126	ug/m3
TMCLKL	HY/2012/08	2020-11-12	ASR10	Hazy	16:13:00	24-hour TSP	86	ug/m3
TMCLKL	HY/2012/08	2020-11-12	ASR5	Hazy	16:35:00	24-hour TSP	168	ug/m3
TMCLKL	HY/2012/08	2020-11-12	ASR6	Hazy	16:24:00	24-hour TSP	108	ug/m3

Action level exceedance

Limit level exceedance

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)
20/11/12	0:00	0.9	20
20/11/12	1:00	0.9	43
20/11/12	2:00	0.4	311
20/11/12	3:00	0.4	327
20/11/12	4:00	0.4	338
20/11/12	5:00	0.4	322
20/11/12	6:00	0.4	317
20/11/12	7:00	1.3	12
20/11/12	8:00	2.2	28
20/11/12	9:00	1.8	30
20/11/12	10:00	1.8	21
20/11/12	11:00	1.3	15
20/11/12	12:00	1.8	126
20/11/12	13:00	1.8	228
20/11/12	14:00	2.2	192
20/11/12	15:00	1.8	203
20/11/12	16:00	1.8	188
20/11/12	17:00	1.3	80
20/11/12	18:00	1.8	86
20/11/12	19:00	1.8	87
20/11/12	20:00	0.9	42
20/11/12	21:00	0.4	113
20/11/12	22:00	0.4	103
20/11/12	23:00	0.4	115

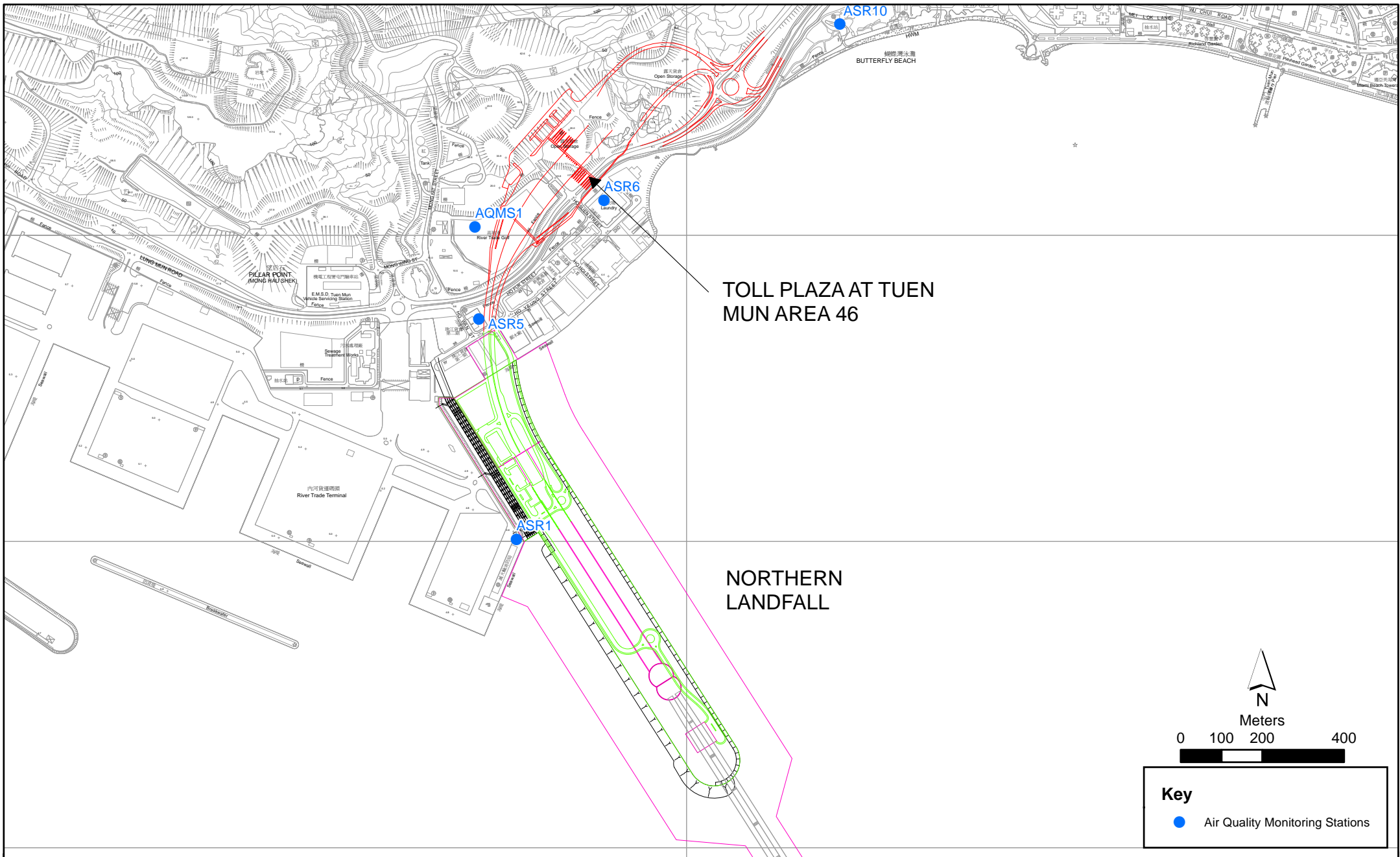


Figure 2.1

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)