

Appendix I

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

Appendix J1 Cumulative Statistics on Exceedances

| | | Total No. recorded in this reporting period | Total No. recorded since contract commencement |
|-----------|--------|--|--|
| 1-Hr TSP | Action | 4 | 25 |
| | Limit | 0 | 2 |
| 24-Hr TSP | Action | 1 | 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 Period | 1 | 0 | 0 |
| Total No. received since contract commencement | 1 | 0 | 0 |

Email
message

Environmental
Resources
Management

To Ramboll Hong Kong Limited (ENPO)

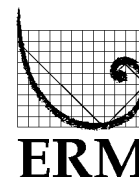
From ERM- Hong Kong, Limited

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 4 April 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_27March2019_1hrTSP_Station ASR1

One (1) exceedance was recorded on 27 March 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_27March2019_1hrTSP_Station ASR1 [Total No. of Exceedances = 1] | |
| Date | 27 March 2019 (Measured) 4 April 2019 (Results obtained from ENPO Website) | |
| 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) | Works undertaken under this Contract on 27 March 2019 included: <ul style="list-style-type: none"> ▪ Building structure at Administration Building and Maintenance Depot (<i>refer to Contractor's photo</i>) | |
| 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"> • Apart from exceedance of 1-hr TSP at ASR1 during 13:33-14:33 on 27 March 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. • Watering record provided by the Contractor was reviewed. Watering was maintained on unpaved and dry road on 27 March 2019 (<i>refer to Contractor's Photo and watering record</i>). • Recorded wind speed during the works period was zero. Dust generated from the construction works, if any, will be localized within the site area and was not likely to be dispersed to station ASR1. <p>Based on the above, the exceedances are unlikely to be due to the Contract.</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. | |
| Remarks | The monitoring results on 27 March 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 27 March 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 | 2019-03-27 | AQMS1 | 13:44 | 1-hour TSP | 136 | ug/m3 |
| TMCLKL | HY/2012/08 | 2019-03-27 | AQMS1 | 14:46 | 1-hour TSP | 165 | ug/m3 |
| TMCLKL | HY/2012/08 | 2019-03-27 | AQMS1 | 15:48 | 1-hour TSP | 114 | ug/m3 |
| TMCLKL | HY/2012/08 | 2019-03-27 | ASR1 | 13:33 | 1-hour TSP | 412 | ug/m3 |
| TMCLKL | HY/2012/08 | 2019-03-27 | ASR1 | 14:35 | 1-hour TSP | 213 | ug/m3 |
| TMCLKL | HY/2012/08 | 2019-03-27 | ASR1 | 15:37 | 1-hour TSP | 274 | ug/m3 |
| TMCLKL | HY/2012/08 | 2019-03-27 | ASR10 | 13:01 | 1-hour TSP | 86 | ug/m3 |
| TMCLKL | HY/2012/08 | 2019-03-27 | ASR10 | 14:03 | 1-hour TSP | 43 | ug/m3 |
| TMCLKL | HY/2012/08 | 2019-03-27 | ASR10 | 15:05 | 1-hour TSP | 51 | ug/m3 |
| TMCLKL | HY/2012/08 | 2019-03-27 | ASR5 | 13:22 | 1-hour TSP | 121 | ug/m3 |
| TMCLKL | HY/2012/08 | 2019-03-27 | ASR5 | 14:24 | 1-hour TSP | 93 | ug/m3 |
| TMCLKL | HY/2012/08 | 2019-03-27 | ASR5 | 15:26 | 1-hour TSP | 102 | ug/m3 |
| TMCLKL | HY/2012/08 | 2019-03-27 | ASR6 | 13:11 | 1-hour TSP | 110 | ug/m3 |
| TMCLKL | HY/2012/08 | 2019-03-27 | ASR6 | 14:13 | 1-hour TSP | 88 | ug/m3 |
| TMCLKL | HY/2012/08 | 2019-03-27 | ASR6 | 15:15 | 1-hour TSP | 76 | ug/m3 |
| TMCLKL | HY/2012/08 | 2019-03-27 | AQMS1 | 16:50 | 24-hour TSP | 67 | ug/m3 |
| TMCLKL | HY/2012/08 | 2019-03-27 | ASR1 | 16:39 | 24-hour TSP | 129 | ug/m3 |
| TMCLKL | HY/2012/08 | 2019-03-27 | ASR10 | 16:07 | 24-hour TSP | 48 | ug/m3 |
| TMCLKL | HY/2012/08 | 2019-03-27 | ASR5 | 16:28 | 24-hour TSP | 108 | ug/m3 |
| TMCLKL | HY/2012/08 | 2019-03-27 | ASR6 | 16:17 | 24-hour TSP | 73 | ug/m3 |

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

PHOTO BY CONTRACTOR ON 27 MARCH 2019

Photo 1 - Building structure was 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 27 MARCH 2019

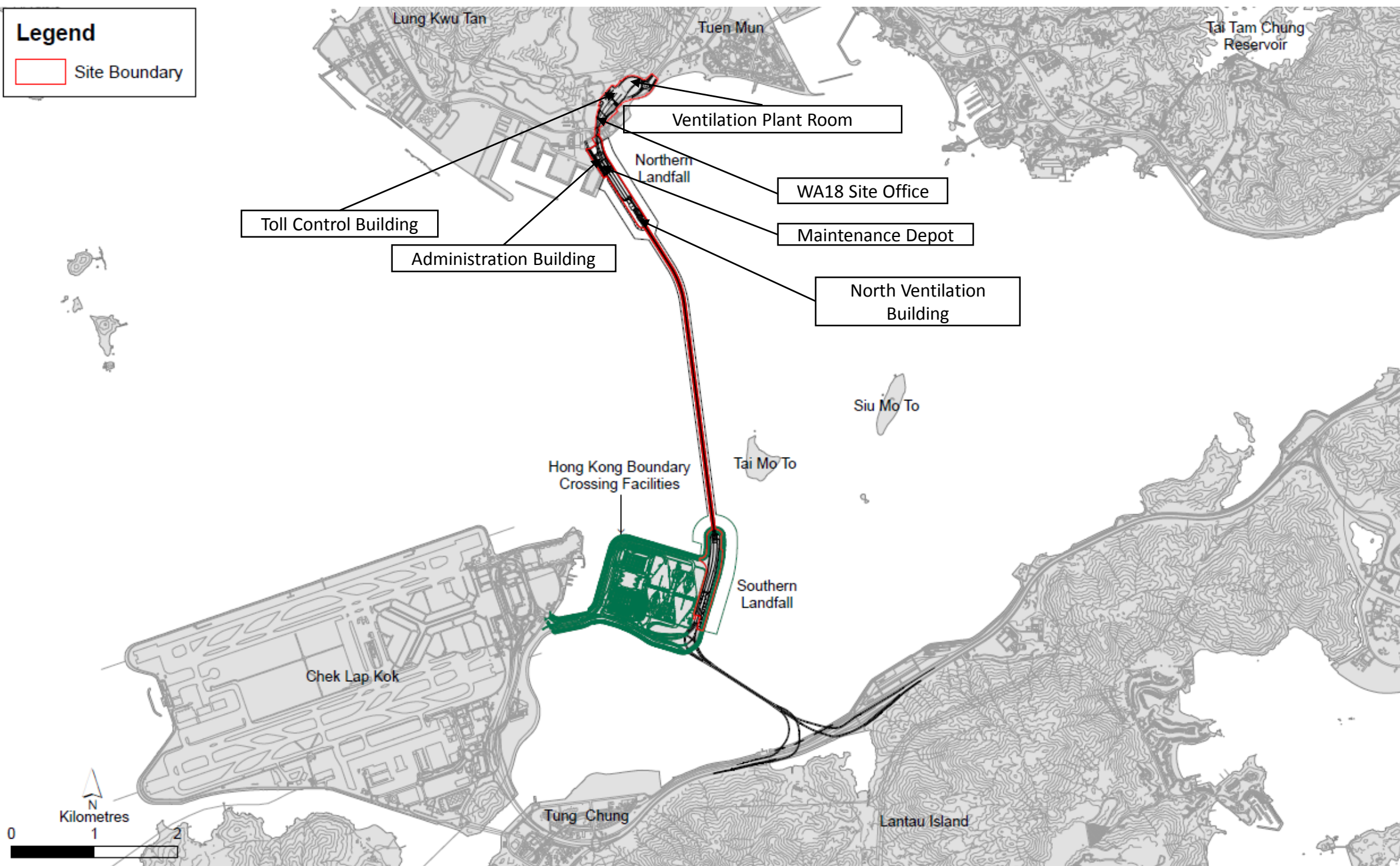
| 27 th Mar | | Location: AAB & MD | |
|----------------------|----|-----------------------|------|
| Period | | Time | Sign |
| 7-8 | | | |
| 8-9 | / | 8:07 | Man |
| 9-10 | // | 9:34 9:58 | Man |
| 10-11 | / | 10:41 | Man |
| 11-12 | / | 11:38 | Man |
| 12-13 | / | 12:50 | Man |
| 13-14 | / | 13:21 | Man |
| 14-15 | // | 14:03 14:44 | Man |
| 15-16 | / | 15:36 | Man |
| 16-17 | / | 16:21 | Man |
| 17-18 | / | 17:40 | Man |
| 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 Director (degree) |
| 19/03/27 | 0:00 | 0.4 | 95 |
| 19/03/27 | 1:00 | 0 | - |
| 19/03/27 | 2:00 | 0.4 | 68 |
| 19/03/27 | 3:00 | 0 | - |
| 19/03/27 | 4:00 | 0 | - |
| 19/03/27 | 5:00 | 0 | - |
| 19/03/27 | 6:00 | 0 | - |
| 19/03/27 | 7:00 | 1.3 | 96 |
| 19/03/27 | 8:00 | 1.3 | 101 |
| 19/03/27 | 9:00 | 0 | - |
| 19/03/27 | 10:00 | 0.4 | 109 |
| 19/03/27 | 11:00 | 0 | - |
| 19/03/27 | 12:00 | 0 | - |
| 19/03/27 | 13:00 | 0 | - |
| 19/03/27 | 14:00 | 0 | - |
| 19/03/27 | 15:00 | 0 | - |
| 19/03/27 | 16:00 | 0 | - |
| 19/03/27 | 17:00 | 0 | - |
| 19/03/27 | 18:00 | 0 | - |
| 19/03/27 | 19:00 | 0 | - |
| 19/03/27 | 20:00 | 0 | - |
| 19/03/27 | 21:00 | 0 | - |
| 19/03/27 | 22:00 | 0 | - |
| 19/03/27 | 23:00 | 0 | - |

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

Legend

 Site Boundary



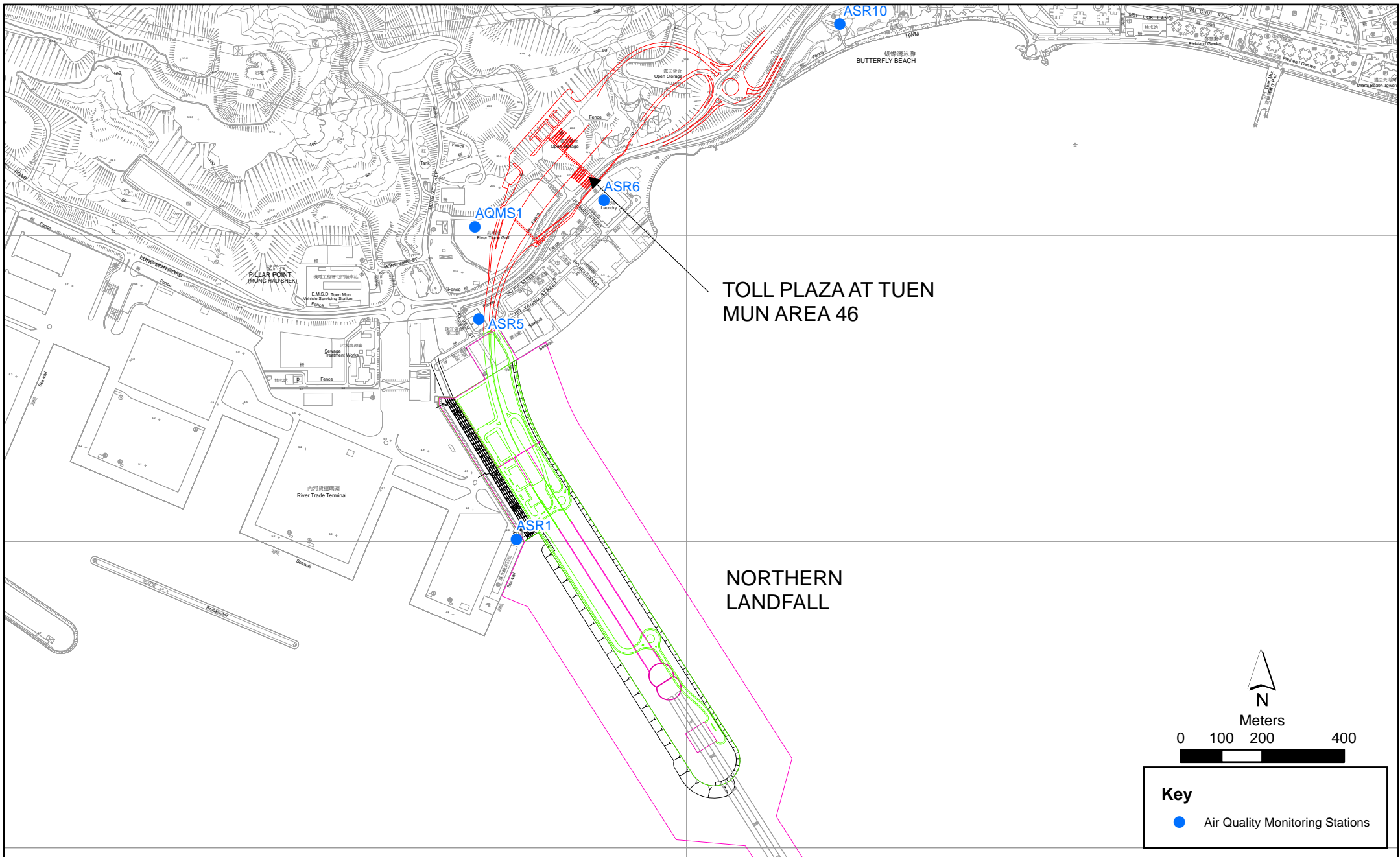


Figure 2.1

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)

Email
message

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To Ramboll Hong Kong Limited (ENPO)

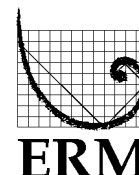
From ERM- Hong Kong, Limited

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 9 April 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



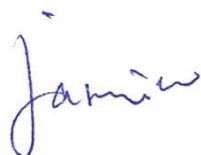
Dear Sir/ Madam,

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

Action Level Exceedance
0463091_30March2019_1hrTSP_Station ASR1

One (1) exceedance was recorded on 30 March 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_30March2019_1hrTSP_Station ASR1 [Total No. of Exceedances = 1] | |
| Date | 30 March 2019 (Measured) 9 April 2019 (Results obtained from ENPO Website) | |
| 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) | Works undertaken under this Contract on 30 March 2019 included: <ul style="list-style-type: none"> ▪ Building structure at Administration Building and Maintenance Depot (<i>refer to Contractor's photo</i>) | |
| 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"> • Apart from exceedance of 1-hr TSP at ASR1 during 10:48-11:48 on 30 March 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. • Watering record provided by the Contractor was reviewed. Watering was maintained on unpaved and dry road on 30 March 2019 (<i>refer to Contractor's Photo and watering record</i>). • With reference to the recorded wind direction (ranged between 110° and 114°, blowing from an easterly direction) during the works period, no works area under this contract is located upstream of Station ASR1. <p>Based on the above, the exceedances are unlikely to be due to the Contract.</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. | |
| Remarks | The monitoring results on 30 March 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 30 March 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 | 2019-03-30 | AQMS1 | 8:55 | 1-hour TSP | 56 | ug/m3 |
| TMCLKL | HY/2012/08 | 2019-03-30 | AQMS1 | 9:57 | 1-hour TSP | 128 | ug/m3 |
| TMCLKL | HY/2012/08 | 2019-03-30 | AQMS1 | 10:59 | 1-hour TSP | 165 | ug/m3 |
| TMCLKL | HY/2012/08 | 2019-03-30 | ASR1 | 8:44 | 1-hour TSP | 34 | ug/m3 |
| TMCLKL | HY/2012/08 | 2019-03-30 | ASR1 | 9:46 | 1-hour TSP | 122 | ug/m3 |
| TMCLKL | HY/2012/08 | 2019-03-30 | ASR1 | 10:48 | 1-hour TSP | 374 | ug/m3 |
| TMCLKL | HY/2012/08 | 2019-03-30 | ASR10 | 8:10 | 1-hour TSP | 51 | ug/m3 |
| TMCLKL | HY/2012/08 | 2019-03-30 | ASR10 | 9:12 | 1-hour TSP | 32 | ug/m3 |
| TMCLKL | HY/2012/08 | 2019-03-30 | ASR10 | 10:14 | 1-hour TSP | 56 | ug/m3 |
| TMCLKL | HY/2012/08 | 2019-03-30 | ASR5 | 8:32 | 1-hour TSP | 142 | ug/m3 |
| TMCLKL | HY/2012/08 | 2019-03-30 | ASR5 | 9:34 | 1-hour TSP | 192 | ug/m3 |
| TMCLKL | HY/2012/08 | 2019-03-30 | ASR5 | 10:36 | 1-hour TSP | 121 | ug/m3 |
| TMCLKL | HY/2012/08 | 2019-03-30 | ASR6 | 8:20 | 1-hour TSP | 86 | ug/m3 |
| TMCLKL | HY/2012/08 | 2019-03-30 | ASR6 | 9:22 | 1-hour TSP | 124 | ug/m3 |
| TMCLKL | HY/2012/08 | 2019-03-30 | ASR6 | 10:24 | 1-hour TSP | 92 | ug/m3 |
| TMCLKL | HY/2012/08 | 2019-03-30 | AQMS1 | 12:01 | 24-hour TSP | 64 | ug/m3 |
| TMCLKL | HY/2012/08 | 2019-03-30 | ASR1 | 11:50 | 24-hour TSP | 186 | ug/m3 |
| TMCLKL | HY/2012/08 | 2019-03-30 | ASR10 | 11:16 | 24-hour TSP | 52 | ug/m3 |
| TMCLKL | HY/2012/08 | 2019-03-30 | ASR5 | 11:38 | 24-hour TSP | 69 | ug/m3 |
| TMCLKL | HY/2012/08 | 2019-03-30 | ASR6 | 11:26 | 24-hour TSP | 66 | ug/m3 |

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

PHOTO BY CONTRACTOR ON 30 MARCH 2019

Photo 1 - Building structure was conducted at works area of Administration Building and Maintenance



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



WATERING RECORD ON 27 MARCH 2019

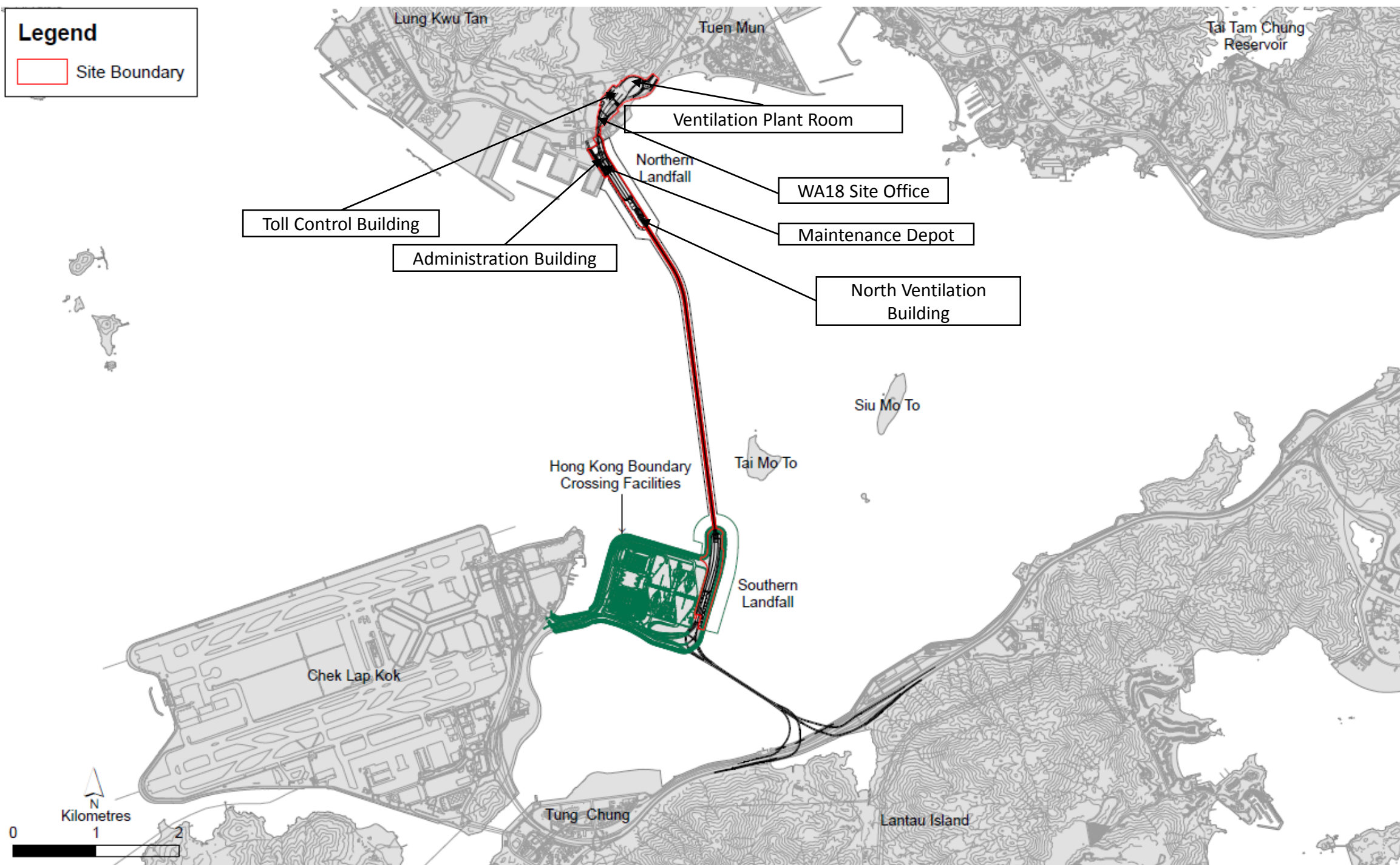
| 30 th Mar | | Location | |
|----------------------|----|-------------|------|
| Period | | Time | Sign |
| 7-8 | / | 7:56 | Alan |
| 8-9 | / | 8:41 | Alan |
| 9-10 | / | 9:36 | Alan |
| 10-11 | / | 10:27 | Alan |
| 11-12 | / | 11:31 | Alan |
| 12-13 | / | 12:09 | Alan |
| 13-14 | // | 13:04 13:49 | Alan |
| 14-15 | / | 14:42 | Alan |
| 15-16 | / | 15:33 | Alan |
| 16-17 | / | 16:13 | Alan |
| 17-18 | / | 17:06 | 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 Director (degree) |
| 19/03/30 | 0:00 | 0 | - |
| 19/03/30 | 1:00 | 0 | - |
| 19/03/30 | 2:00 | 0 | - |
| 19/03/30 | 3:00 | 0 | - |
| 19/03/30 | 4:00 | 0 | - |
| 19/03/30 | 5:00 | 0 | - |
| 19/03/30 | 6:00 | 0 | - |
| 19/03/30 | 7:00 | 0 | - |
| 19/03/30 | 8:00 | 0 | - |
| 19/03/30 | 9:00 | 0 | - |
| 19/03/30 | 10:00 | 1.8 | 110 |
| 19/03/30 | 11:00 | 1.8 | 114 |
| 19/03/30 | 12:00 | 0.9 | 119 |
| 19/03/30 | 13:00 | 2.2 | 105 |
| 19/03/30 | 14:00 | 0.9 | 113 |
| 19/03/30 | 15:00 | 2.7 | 108 |
| 19/03/30 | 16:00 | 2.7 | 109 |
| 19/03/30 | 17:00 | 2.2 | 103 |
| 19/03/30 | 18:00 | 1.8 | 121 |
| 19/03/30 | 19:00 | 1.3 | 120 |
| 19/03/30 | 20:00 | 0 | - |
| 19/03/30 | 21:00 | 0.4 | 101 |
| 19/03/30 | 22:00 | 0.4 | 83 |
| 19/03/30 | 23:00 | 0.4 | 81 |

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

Legend

Site Boundary



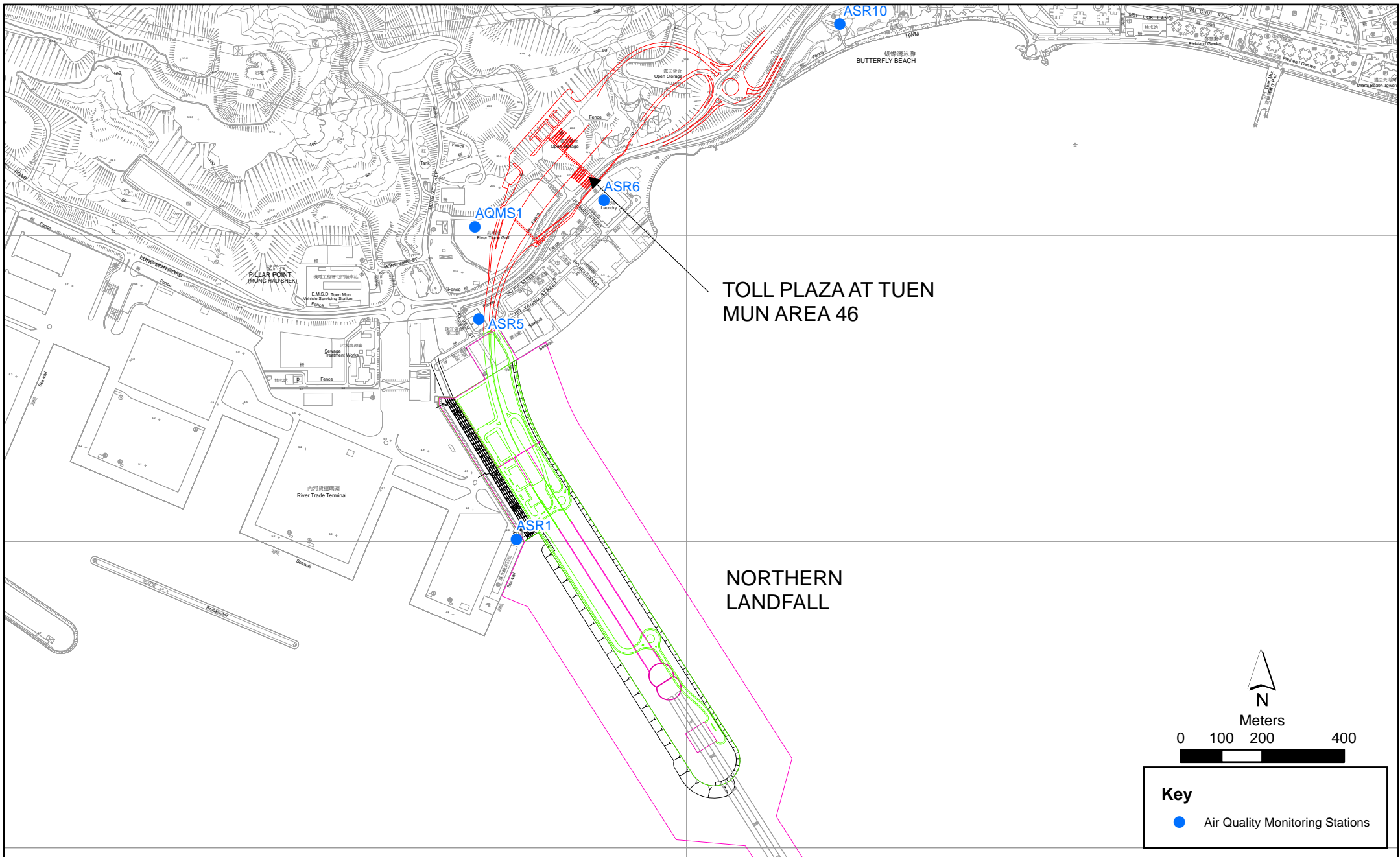


Figure 2.1

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)

File: T:\GIS\CONTRACT\0212330\Mxd\0212330_ASR_for_Enhanced_TSP_monitoring.mxd
 Date: 21/2/2014

Key

- Air Quality Monitoring Stations

N
 Meters
 0 100 200 400

Environmental
 Resources
 Management



Email
message

Environmental
Resources
Management

To Ramboll Hong Kong Limited (ENPO)

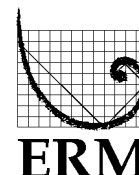
From ERM- Hong Kong, Limited

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 3 June 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_11May2019_1hrTSP_Station ASR1

One (1) exceedance was recorded on 11 May 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_11May2019_1hrTSP_Station ASR1 [Total No. of Exceedances = 1] | |
| Date | 11 May 2019 (Measured) 27 May 2019 (Results obtained from ENPO Website) | |
| 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) | Works undertaken under this Contract on 11 May 2019 included: <ul style="list-style-type: none"> ▪ Building structure at Administration Building, Maintenance Depot, Customs and Excise Building and Fire Services Building (<i>refer to Contractor's photo</i>) | |
| 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"> • Apart from exceedance of 1-hr TSP at ASR1 during 09:03 – 10:03 on 11 May 2019, all 1-hr 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. • With reference to the recorded wind direction (ranged between 95° and 98°, blowing from an easterly direction) during the works period, no works area under this contract is located upstream of Station ASR1. <p>Based on the above, the exceedances are unlikely to be due to the Contract.</p> | |
| Actions Taken/ To Be Taken | 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 11 May 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 11 May 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 | 2019-05-11 | AQMS1 | 9:15 | 1-hour TSP | 95 | ug/m3 |
| TMCLKL | HY/2012/08 | 2019-05-11 | AQMS1 | 10:17 | 1-hour TSP | 105 | ug/m3 |
| TMCLKL | HY/2012/08 | 2019-05-11 | AQMS1 | 11:19 | 1-hour TSP | 99 | ug/m3 |
| TMCLKL | HY/2012/08 | 2019-05-11 | ASR1 | 9:03 | 1-hour TSP | 339 | ug/m3 |
| TMCLKL | HY/2012/08 | 2019-05-11 | ASR1 | 10:05 | 1-hour TSP | 129 | ug/m3 |
| TMCLKL | HY/2012/08 | 2019-05-11 | ASR1 | 11:07 | 1-hour TSP | 122 | ug/m3 |
| TMCLKL | HY/2012/08 | 2019-05-11 | ASR10 | 8:30 | 1-hour TSP | 73 | ug/m3 |
| TMCLKL | HY/2012/08 | 2019-05-11 | ASR10 | 9:32 | 1-hour TSP | 52 | ug/m3 |
| TMCLKL | HY/2012/08 | 2019-05-11 | ASR10 | 10:34 | 1-hour TSP | 60 | ug/m3 |
| TMCLKL | HY/2012/08 | 2019-05-11 | ASR5 | 8:52 | 1-hour TSP | 126 | ug/m3 |
| TMCLKL | HY/2012/08 | 2019-05-11 | ASR5 | 9:54 | 1-hour TSP | 124 | ug/m3 |
| TMCLKL | HY/2012/08 | 2019-05-11 | ASR5 | 10:56 | 1-hour TSP | 194 | ug/m3 |
| TMCLKL | HY/2012/08 | 2019-05-11 | ASR6 | 8:41 | 1-hour TSP | 90 | ug/m3 |
| TMCLKL | HY/2012/08 | 2019-05-11 | ASR6 | 9:43 | 1-hour TSP | 85 | ug/m3 |
| TMCLKL | HY/2012/08 | 2019-05-11 | ASR6 | 10:45 | 1-hour TSP | 137 | ug/m3 |
| TMCLKL | HY/2012/08 | 2019-05-11 | AQMS1 | 12:21 | 24-hour TSP | 41 | ug/m3 |
| TMCLKL | HY/2012/08 | 2019-05-11 | ASR1 | 12:09 | 24-hour TSP | 87 | ug/m3 |
| TMCLKL | HY/2012/08 | 2019-05-11 | ASR10 | 11:36 | 24-hour TSP | 48 | ug/m3 |
| TMCLKL | HY/2012/08 | 2019-05-11 | ASR5 | 11:58 | 24-hour TSP | 67 | ug/m3 |
| TMCLKL | HY/2012/08 | 2019-05-11 | ASR6 | 11:47 | 24-hour TSP | 49 | ug/m3 |

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

Photo 1 - Building structure was conducted at works area of Customs and Excise Building



Photo 2 - Building structure was conducted at works area of Administration Building

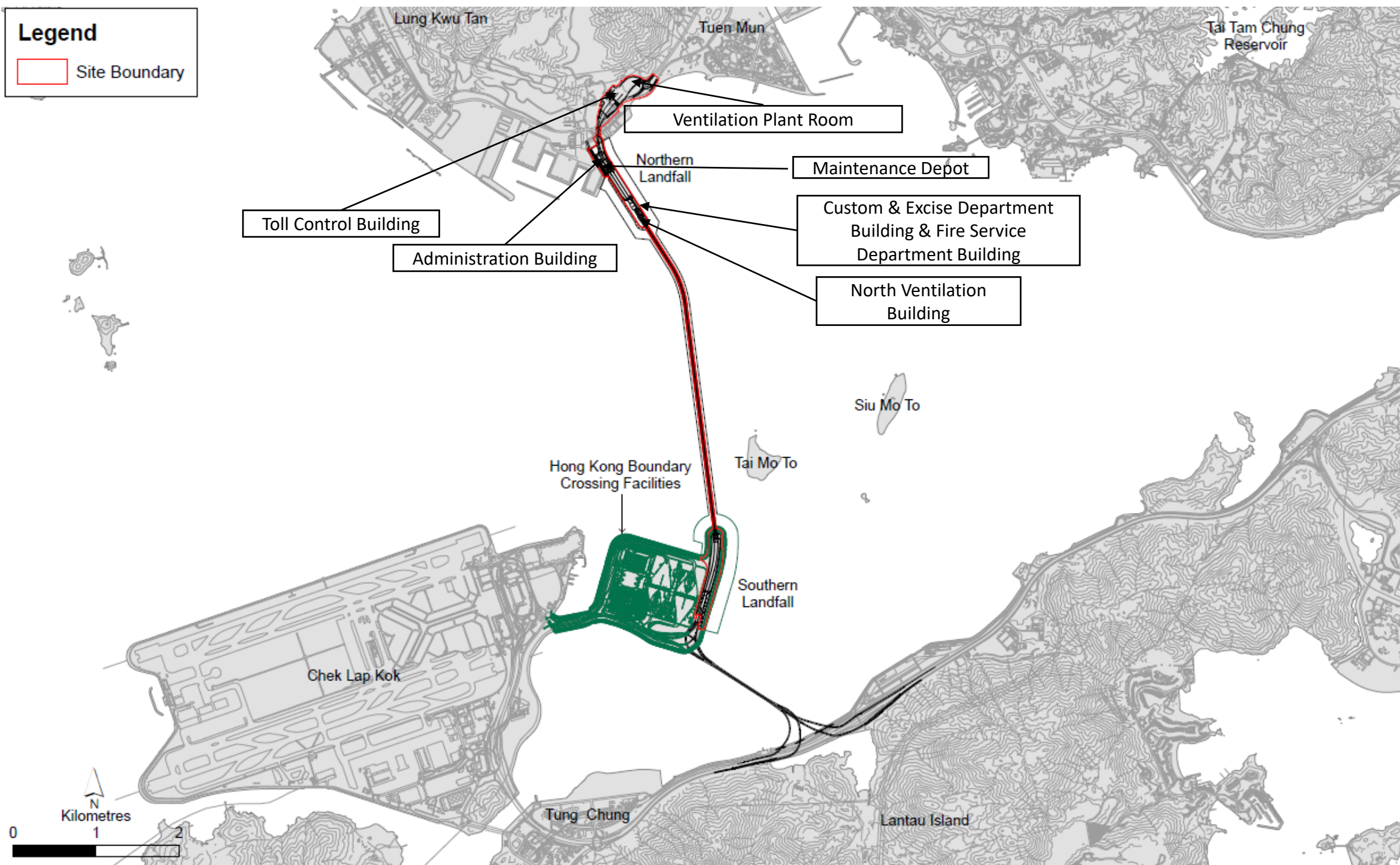


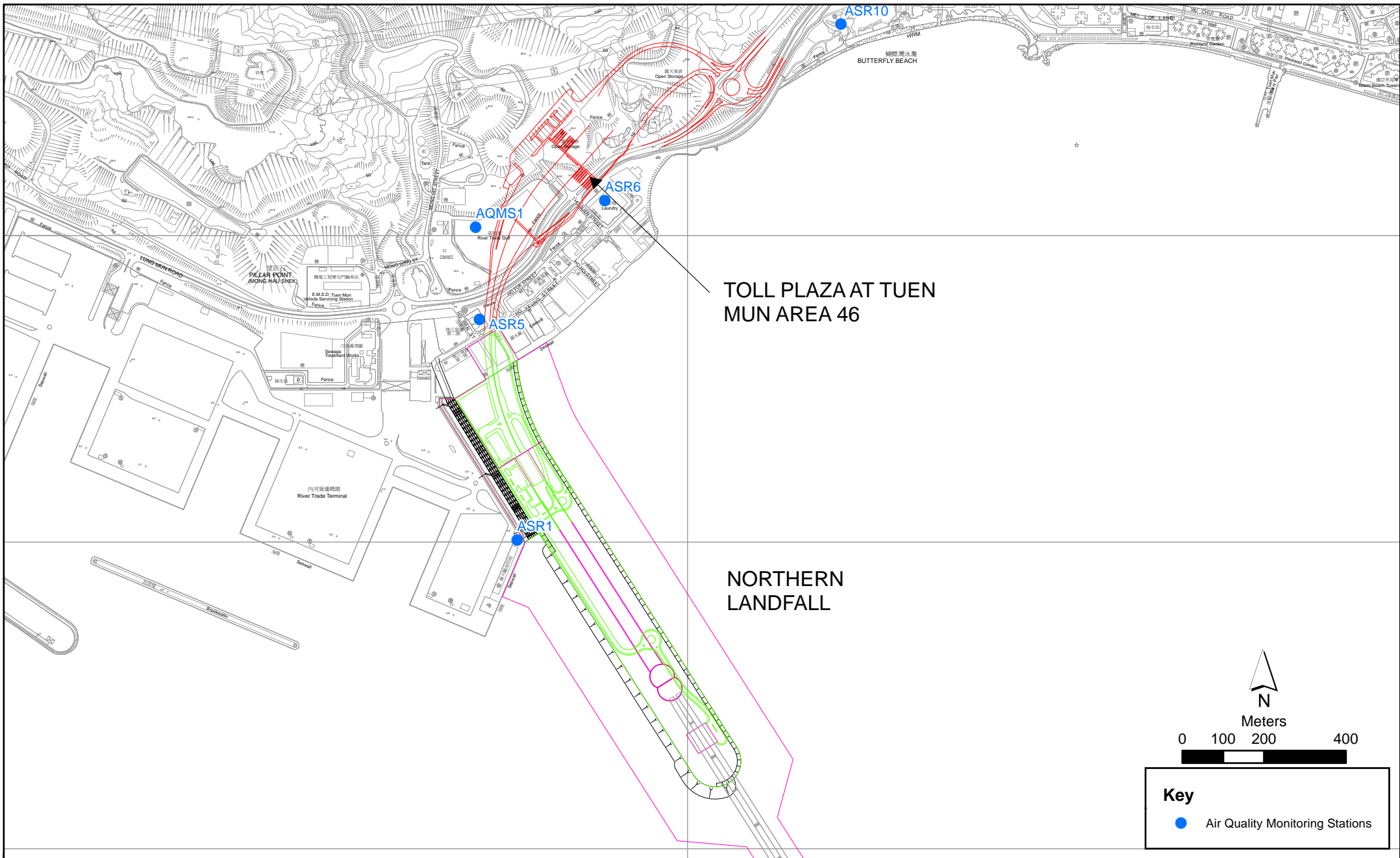
| Meteorological Data for Impact Monitoring in the reporting period* | | | |
|--|--------------|-----------------------------|-----------------------------------|
| Date (yy-mm-dd) | Time (24hrs) | Average of Wind Speed (m/s) | Average of Wind Director (degree) |
| 19/05/11 | 0:00 | 0.9 | 14 |
| 19/05/11 | 1:00 | 0 | 46 |
| 19/05/11 | 2:00 | 0.0 | 34 |
| 19/05/11 | 3:00 | 0.9 | 46 |
| 19/05/11 | 4:00 | 0.4 | 49 |
| 19/05/11 | 5:00 | 0.4 | 100 |
| 19/05/11 | 6:00 | 0.4 | 39 |
| 19/05/11 | 7:00 | 0.9 | 70 |
| 19/05/11 | 8:00 | 1.8 | 42 |
| 19/05/11 | 9:00 | 2.7 | 98 |
| 19/05/11 | 10:00 | 2.7 | 95 |
| 19/05/11 | 11:00 | 1.8 | 122 |
| 19/05/11 | 12:00 | 1.3 | 218 |
| 19/05/11 | 13:00 | 1.3 | 275 |
| 19/05/11 | 14:00 | 2.2 | 191 |
| 19/05/11 | 15:00 | 2.2 | 194 |
| 19/05/11 | 16:00 | 2.2 | 196 |
| 19/05/11 | 17:00 | 2.2 | 191 |
| 19/05/11 | 18:00 | 0.9 | 84 |
| 19/05/11 | 19:00 | 2.2 | 39 |
| 19/05/11 | 20:00 | 2.2 | 49 |
| 19/05/11 | 21:00 | 2.2 | 60 |
| 19/05/11 | 22:00 | 3.1 | 95 |
| 19/05/11 | 23:00 | 3.1 | 67 |

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

Legend

Site Boundary





TOLL PLAZA AT TUEN
MUN AREA 46

NORTHERN
LANDFALL



Meters

0 100 200 400



Key

- Air Quality Monitoring Stations

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)

**Environmental
Resources
Management**



Email
message

Environmental
Resources
Management

To Ramboll Hong Kong Limited (ENPO)

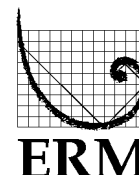
From ERM- Hong Kong, Limited

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 3 June 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_23May2019_1hrTSP_Station ASR1

0463091_23May2019_24hrTSP_Station ASR1

Two (2) exceedance was recorded on 23 May 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_23May2019_1hrTSP_Station ASR1 0463091_23May2019_24hrTSP_Station ASR1 [Total No. of Exceedances = 2] | |
| Date | 23 May 2019 (Measured) 3 June 2019 (Results obtained from ENPO Website) | |
| Monitoring Station | ASR1, ASR5, ASR6, ASR10, AQMS1 | |
| Parameter(s) with Exceedance(s) | 1- hr TSP 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 AQMS1 = 213 ASR6 = 238 ASR10 = 214 |
| 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. | |
| Works Undertaken (at the time of monitoring event) | Works undertaken under this Contract on 23 and 24 May 2019 included: <ul style="list-style-type: none"> Building structure at Administration Building, Maintenance Depot, Customs and Excise Building and Fire Services Building (<i>refer to Contractor's photo</i>) | |
| 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"> Apart from exceedance of 1-hr TSP at ASR1 during 13:44-14:44 on 23 May 2019 and 24-hr TSP at ASR1 during 23 May 2019 16:50 to 24 May 2019 16:50, all 1-hr 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. With reference to the recorded wind direction (ranged between 84° and 105° when 1-hr TSP exceedance was recorded and ranged between 59° to 101° when 24-hr TSP exceedance were recorded blowing from an easterly direction) during the works period, no works area under this contract is located upstream of Station ASR1. <p>Based on the above, the exceedances are unlikely to be due to the Contract.</p> | |
| Actions Taken/ To Be Taken | 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 23 May 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 23 and 24 May 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 | 2019-05-23 | AQMS1 | 13:55 | 1-hour TSP | 145 | ug/m3 |
| TMCLKL | HY/2012/08 | 2019-05-23 | AQMS1 | 14:57 | 1-hour TSP | 83 | ug/m3 |
| TMCLKL | HY/2012/08 | 2019-05-23 | AQMS1 | 15:59 | 1-hour TSP | 80 | ug/m3 |
| TMCLKL | HY/2012/08 | 2019-05-23 | ASR1 | 13:44 | 1-hour TSP | 408 | ug/m3 |
| TMCLKL | HY/2012/08 | 2019-05-23 | ASR1 | 14:46 | 1-hour TSP | 169 | ug/m3 |
| TMCLKL | HY/2012/08 | 2019-05-23 | ASR1 | 15:48 | 1-hour TSP | 191 | ug/m3 |
| TMCLKL | HY/2012/08 | 2019-05-23 | ASR10 | 13:13 | 1-hour TSP | 122 | ug/m3 |
| TMCLKL | HY/2012/08 | 2019-05-23 | ASR10 | 14:15 | 1-hour TSP | 37 | ug/m3 |
| TMCLKL | HY/2012/08 | 2019-05-23 | ASR10 | 15:17 | 1-hour TSP | 49 | ug/m3 |
| TMCLKL | HY/2012/08 | 2019-05-23 | ASR5 | 13:33 | 1-hour TSP | 215 | ug/m3 |
| TMCLKL | HY/2012/08 | 2019-05-23 | ASR5 | 14:35 | 1-hour TSP | 72 | ug/m3 |
| TMCLKL | HY/2012/08 | 2019-05-23 | ASR5 | 15:37 | 1-hour TSP | 105 | ug/m3 |
| TMCLKL | HY/2012/08 | 2019-05-23 | ASR6 | 13:23 | 1-hour TSP | 167 | ug/m3 |
| TMCLKL | HY/2012/08 | 2019-05-23 | ASR6 | 14:25 | 1-hour TSP | 60 | ug/m3 |
| TMCLKL | HY/2012/08 | 2019-05-23 | ASR6 | 15:27 | 1-hour TSP | 93 | ug/m3 |
| TMCLKL | HY/2012/08 | 2019-05-23 | AQMS1 | 17:01 | 24-hour TSP | 67 | ug/m3 |
| TMCLKL | HY/2012/08 | 2019-05-23 | ASR1 | 16:50 | 24-hour TSP | 217 | ug/m3 |
| TMCLKL | HY/2012/08 | 2019-05-23 | ASR10 | 16:19 | 24-hour TSP | 51 | ug/m3 |
| TMCLKL | HY/2012/08 | 2019-05-23 | ASR5 | 16:39 | 24-hour TSP | 80 | ug/m3 |
| TMCLKL | HY/2012/08 | 2019-05-23 | ASR6 | 16:29 | 24-hour TSP | 71 | ug/m3 |

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

PHOTO BY CONTRACTOR ON 23 AND 24 MAY 2019

Photo 1 - Building structure was conducted at works area of Customs and Excise Building (23 May 2019)



Photo 2- Building structure was conducted at works area of Customs and Excise Building (24 May 2019)



Photo 3 - Building structure was conducted at works area of Maintenance Depot (24 May 2019)

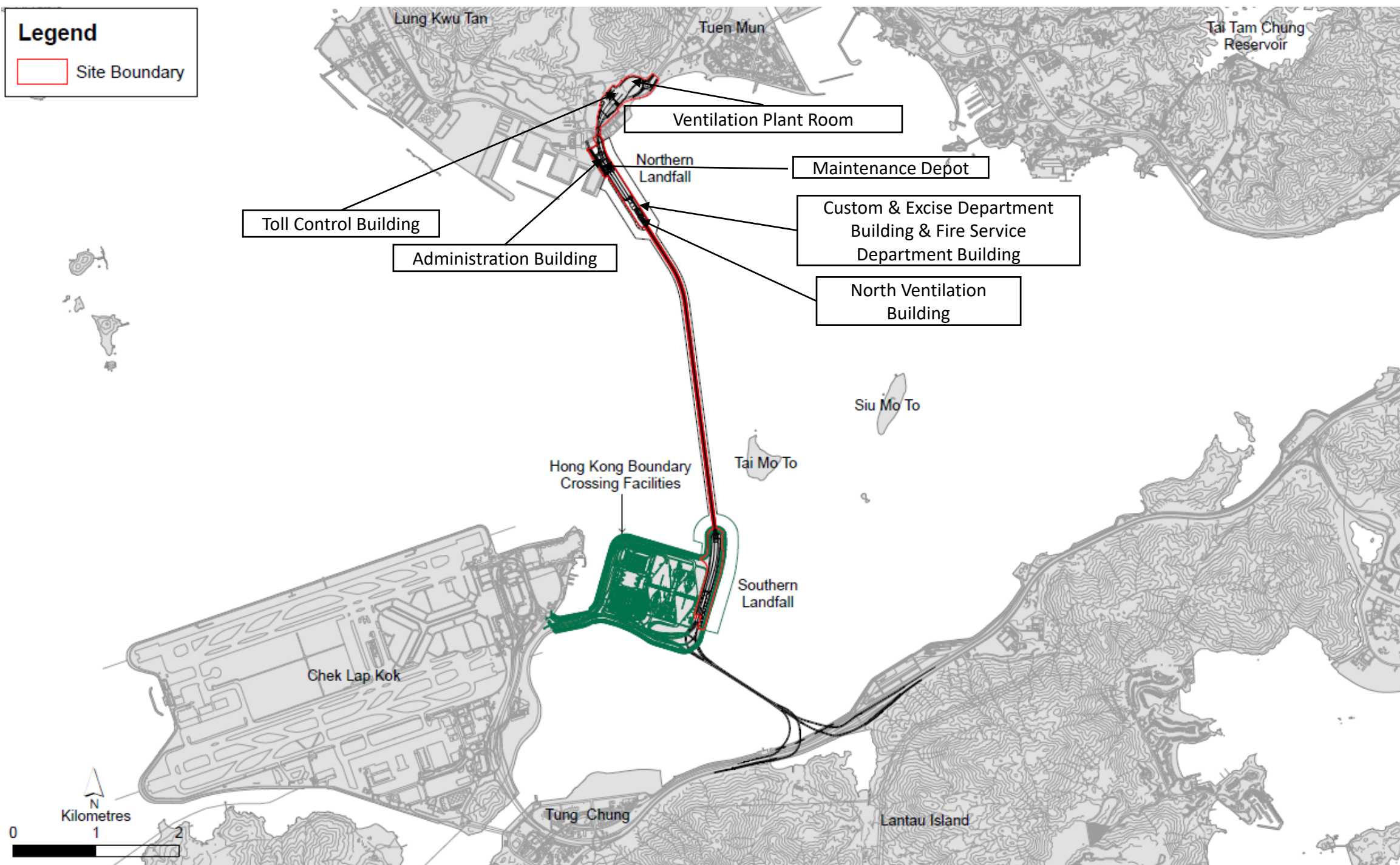


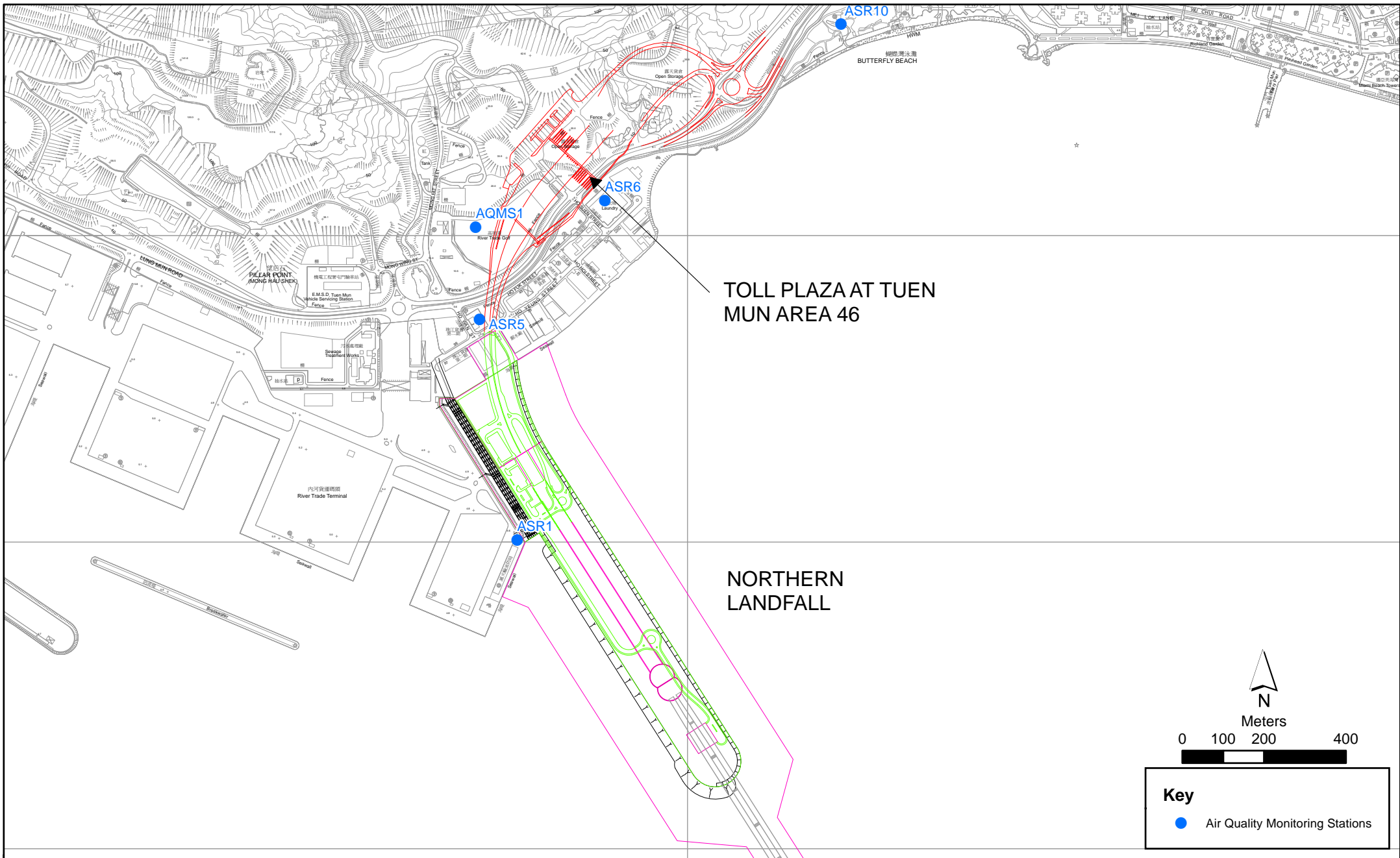
| Meteorological Data for Impact Monitoring in the reporting period* | | | |
|--|--------------|-----------------------------|-----------------------------------|
| Date (yy-mm-dd) | Time (24hrs) | Average of Wind Speed (m/s) | Average of Wind Director (degree) |
| 19/05/23 | 0:00 | 1.8 | 71 |
| 19/05/23 | 1:00 | 2.2 | 83 |
| 19/05/23 | 2:00 | 2.2 | 93 |
| 19/05/23 | 3:00 | 1.8 | 97 |
| 19/05/23 | 4:00 | 1.8 | 60 |
| 19/05/23 | 5:00 | 1.8 | 67 |
| 19/05/23 | 6:00 | 2.2 | 99 |
| 19/05/23 | 7:00 | 1.8 | 82 |
| 19/05/23 | 8:00 | 2.2 | 83 |
| 19/05/23 | 9:00 | 2.7 | 95 |
| 19/05/23 | 10:00 | 2.7 | 82 |
| 19/05/23 | 11:00 | 3.1 | 97 |
| 19/05/23 | 12:00 | 2.2 | 92 |
| 19/05/23 | 13:00 | 2.7 | 84 |
| 19/05/23 | 14:00 | 4 | 105 |
| 19/05/23 | 15:00 | 3.1 | 84 |
| 19/05/23 | 16:00 | 3.6 | 86 |
| 19/05/23 | 17:00 | 3.1 | 91 |
| 19/05/23 | 18:00 | 3.1 | 101 |
| 19/05/23 | 19:00 | 3.1 | 86 |
| 19/05/23 | 20:00 | 3.6 | 65 |
| 19/05/23 | 21:00 | 4 | 85 |
| 19/05/23 | 22:00 | 4.5 | 100 |
| 19/05/23 | 23:00 | 4.5 | 82 |
| 19/05/24 | 0:00 | 3.6 | 97 |
| 19/05/24 | 1:00 | 2.7 | 60 |
| 19/05/24 | 2:00 | 3.1 | 75 |
| 19/05/24 | 3:00 | 3.1 | 73 |
| 19/05/24 | 4:00 | 3.1 | 59 |
| 19/05/24 | 5:00 | 3.1 | 60 |
| 19/05/24 | 6:00 | 3.1 | 64 |
| 19/05/24 | 7:00 | 4 | 91 |
| 19/05/24 | 8:00 | 4.5 | 89 |
| 19/05/24 | 9:00 | 4.9 | 87 |
| 19/05/24 | 10:00 | 4.5 | 100 |
| 19/05/24 | 11:00 | 4.5 | 81 |
| 19/05/24 | 12:00 | 4.5 | 101 |
| 19/05/24 | 13:00 | 4.9 | 100 |
| 19/05/24 | 14:00 | 4.5 | 81 |
| 19/05/24 | 15:00 | 4.5 | 80 |
| 19/05/24 | 16:00 | 4.5 | 80 |
| 19/05/24 | 17:00 | 4.5 | 86 |
| 19/05/24 | 18:00 | 4.5 | 93 |
| 19/05/24 | 19:00 | 4 | 63 |
| 19/05/24 | 20:00 | 4 | 75 |
| 19/05/24 | 21:00 | 4.5 | 87 |
| 19/05/24 | 22:00 | 4.9 | 87 |
| 19/05/24 | 23:00 | 4.5 | 84 |

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

Legend

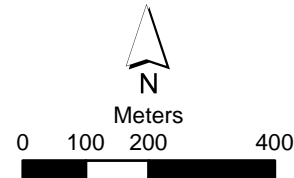
Site Boundary





TOLL PLAZA AT TUEN
MUN AREA 46

NORTHERN
LANDFALL



Key

- Air Quality Monitoring Stations

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)

**Environmental
Resources
Management**



ENVIRONMENTAL COMPLAINT/ ENQUIRY FORM

| |
|---|
| Complaint/ Enquiry Received* |
| Date: 22 May 2019 Time: Undisclosed From: Environmental Protection Department (EPD) Via: Email |
| Complainant/ Enquirer*: Name: Undisclosed Tel: Undisclosed Address: Undisclosed Media: Dust / Other Description: A complaint was received by EPD regarding construction dust nuisance at Northern Landfall of the sub-sea tunnel of Tuen Mun - Chek Lap Kok Link. The complaint reported that dust nuisance was generated at near the River Trade Terminal and Chu Kong Warehouse. The Environmental Team (ET) received the complaint notification from the Independent Environmental Checker (IEC) on 22 May 2019. |

Investigation Report & Response

| |
|--|
| <p>Site records provided by the Contractor were reviewed upon receiving the complaint. Based on the site records, major works under this Contract included structure building at Maintenance Depot and Administration Building near the River Trade Terminal and Chu Kong Warehouse which are not major dust generating works.</p> <p>Site inspection was carried out on 24 May 2019. During the site inspection, no particular finding was observed. There were no major unpaved roads in the site boundary of this Contract and majors works under this contract near the River Trade Terminal and Chu Kong Warehouse were structure building which are not major dust generating works (see <i>Annex A</i>). Construction site boundary under this Contract is shown in <i>Figure 1</i>.</p> <p>Action level exceedances on 1-hour TSP and 24-hour TSP at ASR1 were recorded on 23 May 2019. However, as the complaint was received on 22 May 2019, it is not likely to be related to the exceedances recorded on 23 May 2019.</p> <p>Upon investigation, there is no evidence to indicate that the complaint case is related to this Contract.</p> |
|--|

Mitigation Measures and Follow-Up Actions Recommended to Contractor

| |
|---|
| <p>Based on the investigation, there is no evidence to indicate that the complaint case is related to this Contract and thus no further action will be required. The Contractor has been reminded to maintain watering for at least 12 times per day at any unpaved road throughout the construction period. Increase in watering frequency should also be considered when necessary.</p> |
|---|

Date of File Closed : 12 June 2019

Approved and Filed by:

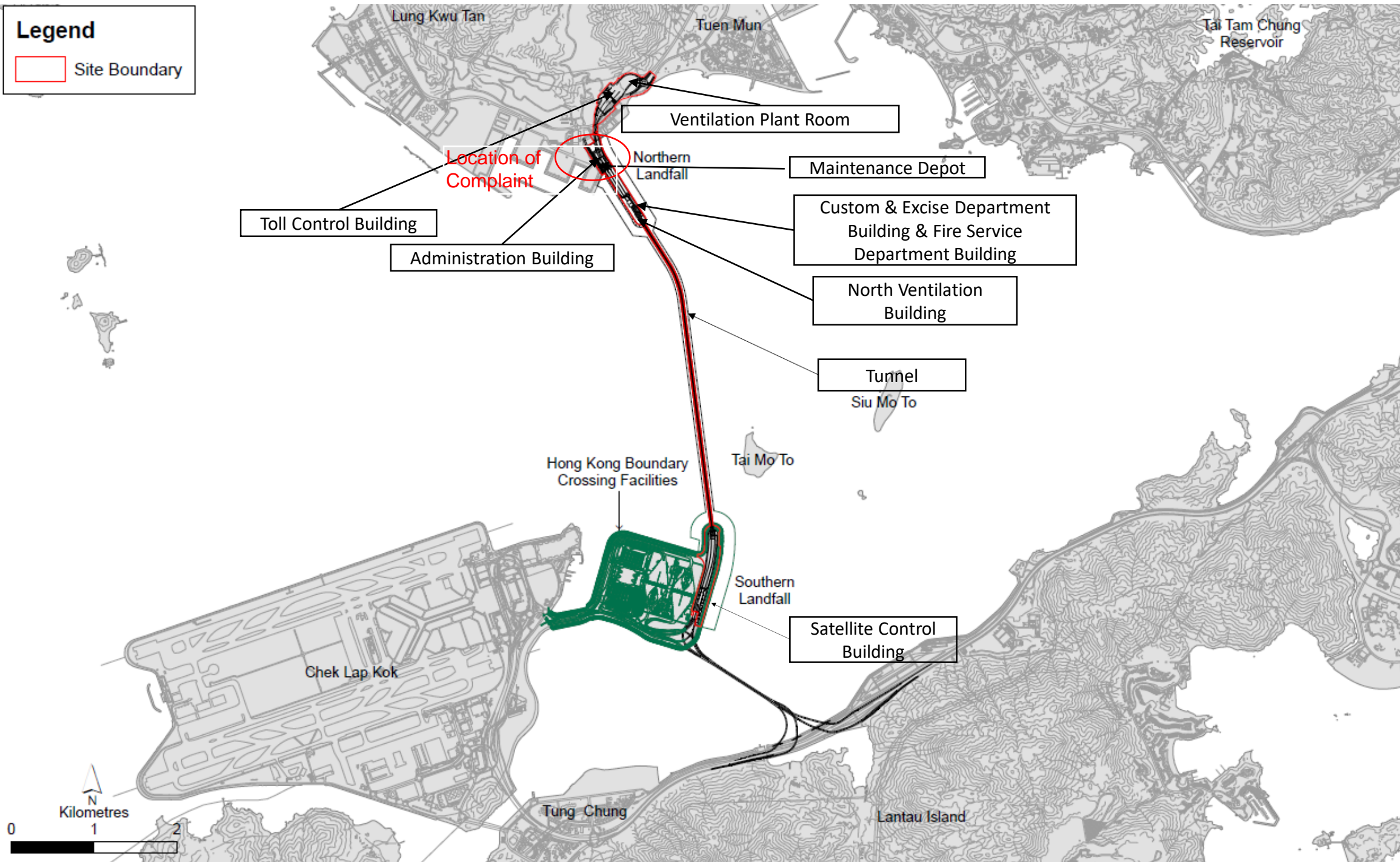
A handwritten signature in blue ink that reads 'Jasmine'.

(Dr Jasmine Ng, ET Leader)

Date: 30 May 2019

Legend

Site Boundary



Annex A

Photo of site inspection at
Northern Landfall on 24
May 2019

Photo 1 - Structure building at Maintenance Depot

