

**Noise Impact Monitoring Result for  
Hong Kong-Zhuhai-Macao Bridge  
Hong Kong Boundary Crossing Facilities – Phase 2 and Other Works**

**NMS2 - Seaview Crescent**

| Date      | Start Time | L <sub>eq</sub> 30min<br>dB(A) | L <sub>10</sub><br>dB(A) | L <sub>90</sub><br>dB(A) | Wind Speed<br>(m/s) | Weather | Limit Level<br>dB(A) |
|-----------|------------|--------------------------------|--------------------------|--------------------------|---------------------|---------|----------------------|
| 1-Apr-21  | 10:35      | 62                             | 66                       | 60                       | 0.2                 | Fine    | 75                   |
| 7-Apr-21  | 09:35      | 68                             | 66                       | 70                       | 0.6                 | Fine    | 75                   |
| 13-Apr-21 | 10:45      | 63                             | 65                       | 59                       | 1.4                 | Fine    | 75                   |
| 19-Apr-21 | 14:00      | 61                             | 62                       | 55                       | 0.8                 | Fine    | 75                   |
| 30-Apr-21 | 13:09      | 59                             | 63                       | 53                       | 1.1                 | Fine    | 75                   |
|           | <b>Max</b> | 68                             |                          |                          |                     |         |                      |
|           | <b>Min</b> | 59                             |                          |                          |                     |         |                      |

**NMS3C - Ying Tung Estate Refuse Collection Point**

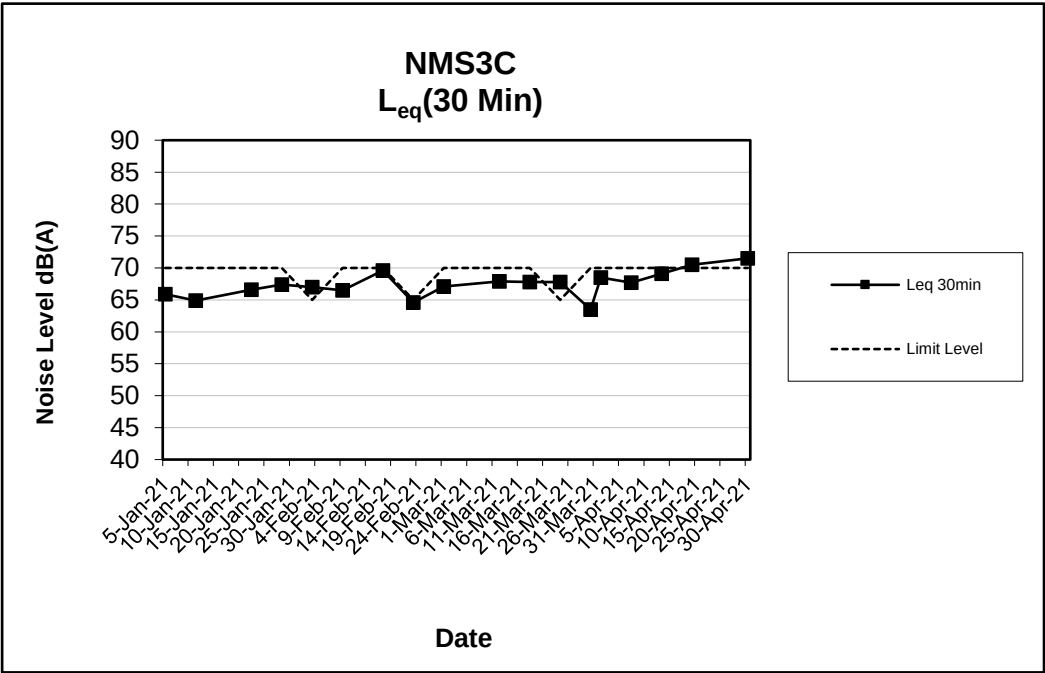
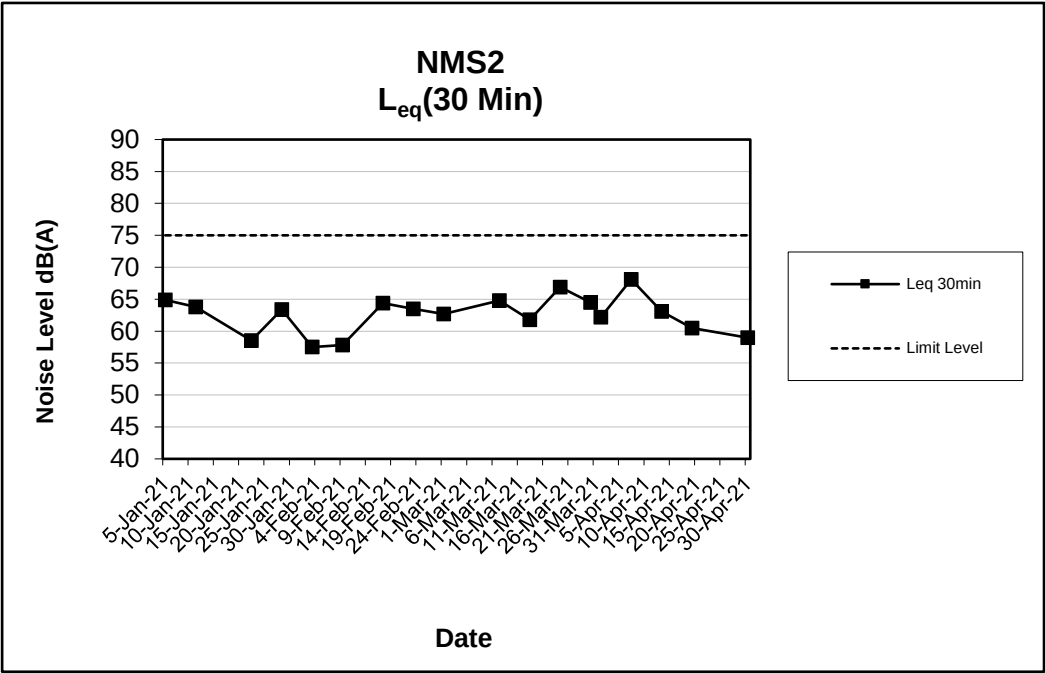
| Date      | Start Time | L <sub>eq</sub> 30min<br>dB(A) | L <sub>10</sub><br>dB(A) | L <sub>90</sub><br>dB(A) | Wind Speed<br>(m/s) | Weather | Limit Level<br>dB(A) |
|-----------|------------|--------------------------------|--------------------------|--------------------------|---------------------|---------|----------------------|
| 1-Apr-21  | 11:25      | 69                             | 73                       | 66                       | 0.3                 | Fine    | 70                   |
| 7-Apr-21  | 10:17      | 68                             | 71                       | 64                       | 0.4                 | Fine    | 70                   |
| 13-Apr-21 | 09:45      | 69                             | 72                       | 66                       | 0.4                 | Fine    | 70                   |
| 19-Apr-21 | 13:11      | 71                             | 74                       | 63                       | 0.4                 | Fine    | 70                   |
| 30-Apr-21 | 12:48      | 72                             | 76                       | 66                       | 0.2                 | Fine    | 70                   |
|           | <b>Max</b> | 72                             |                          |                          |                     |         |                      |
|           | <b>Min</b> | 68                             |                          |                          |                     |         |                      |

Note:

NMS2: Façade Measurement

NMS3C: Free-field measurement (+3dB(A) correction has been applied), reduction to 65dB(A) during school examination periods will be applied.

No raining or wind with speed over 5 m/s was observed during noise monitoring according to the onsite observation.



# 1-hour TSP Monitoring Result for Hong Kong-Zhuhai-Macao Bridge Hong Kong Boundary Crossing Facilities – Phase 2 and Other Works

## AMS2 - Tung Chung Development Pier

|           |                   |            | 1-hour TSP (µg/m³) |                 |                 | Action Level (ug/m³) | Limit Level (ug/m³) |
|-----------|-------------------|------------|--------------------|-----------------|-----------------|----------------------|---------------------|
| Date      | Weather Condition | Start Time | 1st Measurement    | 2nd Measurement | 3rd Measurement |                      |                     |
| 1-Apr-21  | Fine              | 09:40      | 48                 | 58              | 62              | 374                  | 500                 |
| 7-Apr-21  | Fine              | 09:32      | 72                 | 58              | 62              |                      |                     |
| 13-Apr-21 | Fine              | 09:35      | 60                 | 62              | 72              |                      |                     |
| 19-Apr-21 | Fine              | 12:45      | 72                 | 84              | 84              |                      |                     |
| 24-Apr-21 | Fine              | 12:32      | 79                 | 89              | 89              |                      |                     |
| 30-Apr-21 | Fine              | 13:36      | 77                 | 86              | 89              |                      |                     |
|           |                   | Min        | 48                 |                 |                 |                      |                     |
|           |                   | Max        | 89                 |                 |                 |                      |                     |
|           |                   | Average    | 72                 |                 |                 |                      |                     |

## AMS3C - Ying Tung Estate Market Rooftop

|           |                   |            | 1-hour TSP (µg/m³) |                 |                 | Action Level (ug/m³) | Limit Level (ug/m³) |
|-----------|-------------------|------------|--------------------|-----------------|-----------------|----------------------|---------------------|
| Date      | Weather Condition | Start Time | 1st Measurement    | 2nd Measurement | 3rd Measurement |                      |                     |
| 1-Apr-21  | Fine              | 09:55      | 49                 | 48              | 51              | 368                  | 500                 |
| 7-Apr-21  | Fine              | 10:15      | 65                 | 59              | 68              |                      |                     |
| 13-Apr-21 | Fine              | 09:15      | 53                 | 53              | 61              |                      |                     |
| 19-Apr-21 | Fine              | 14:05      | 61                 | 67              | 72              |                      |                     |
| 24-Apr-21 | Fine              | 13:49      | 57                 | 68              | 61              |                      |                     |
| 30-Apr-21 | Fine              | 13:42      | 53                 | 72              | 67              |                      |                     |
|           |                   | Min        | 48                 |                 |                 |                      |                     |
|           |                   | Max        | 72                 |                 |                 |                      |                     |
|           |                   | Average    | 60                 |                 |                 |                      |                     |

## AMS7B - 3RS Site Offices

|      |                   |            | 1-hour TSP (µg/m³) |                 |                 |                      |                     |
|------|-------------------|------------|--------------------|-----------------|-----------------|----------------------|---------------------|
| Date | Weather Condition | Start Time | 1st Measurement    | 2nd Measurement | 3rd Measurement | Action Level (ug/m³) | Limit Level (ug/m³) |
|      |                   |            |                    |                 |                 | 370                  | 500                 |
|      |                   |            |                    |                 |                 |                      |                     |
|      |                   |            |                    |                 |                 |                      |                     |
|      |                   |            |                    |                 |                 |                      |                     |
|      |                   |            |                    |                 |                 |                      |                     |
|      |                   |            |                    |                 |                 |                      |                     |
|      |                   | Min        |                    |                 |                 |                      |                     |
|      |                   | Max        |                    |                 |                 |                      |                     |
|      |                   | Average    |                    |                 |                 |                      |                     |

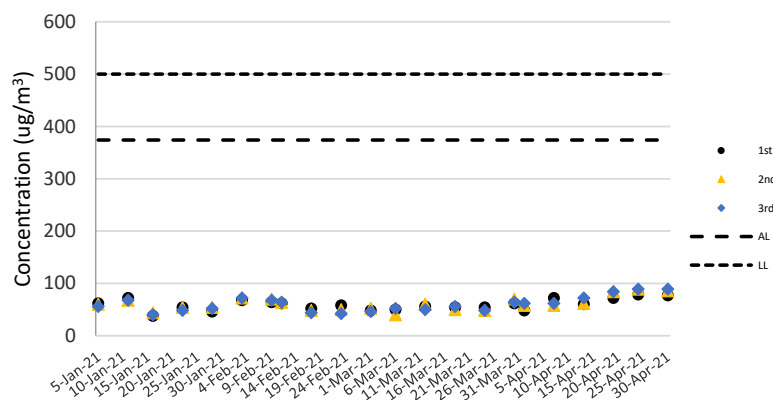
Note:

Underline: Exceedance of Action Level

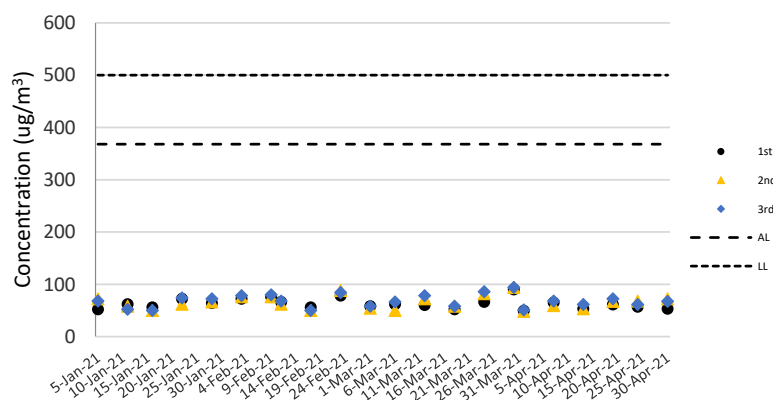
Underline and Bold: Exceedance of Limit Level

Air quality monitoring location AMS7B was temporary suspended, effective from 10 December 2020.

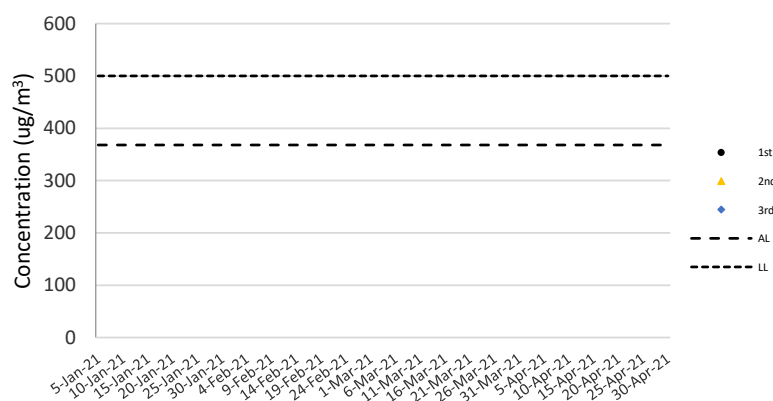
### 1-hr TSP AMS2



### 1-hr TSP AMS3C



### 1-hr TSP AMS7B



## 24-hour TSP Monitoring Result for Hong Kong-Zhuhai-Macao Bridge Hong Kong Boundary Crossing Facilities – Phase 2 and Other Works

### AMS2 - Tung Chung Development Pier

| Start Date | Weather Condition | Air Temperature (K) | Atmospheric Pressure, Pa (mmHg) | Filter Weight (g) |        | Particulate weight (g) | Sampling Time(hrs) | Flow Rate (m³/min.) |       | Average flow (m³/min.) | Total volume (m³) | Conc. (ug/m³) | Action Level (ug/m³) | Limit Level (ug/m³) |
|------------|-------------------|---------------------|---------------------------------|-------------------|--------|------------------------|--------------------|---------------------|-------|------------------------|-------------------|---------------|----------------------|---------------------|
|            |                   |                     |                                 | Initial           | Final  |                        |                    | Initial             | Final |                        |                   |               |                      |                     |
| 1-Apr-21   | Fine              | 299.9               | 755.8                           | 2.7128            | 2.7415 | 0.0287                 | 24                 | 1.55                | 1.56  | 1.56                   | 2240.3            | 13            | 176                  | 260                 |
| 7-Apr-21   | Fine              | 296.3               | 762.1                           | 2.7153            | 2.7827 | 0.0674                 | 24                 | 1.56                | 1.56  | 1.56                   | 2248.8            | 30            |                      |                     |
| 13-Apr-21  | Fine              | 299.1               | 760.3                           | 2.6959            | 2.7549 | 0.0590                 | 24                 | 1.67                | 1.67  | 1.67                   | 2410.3            | 24            |                      |                     |
| 19-Apr-21  | Fine              | 295.7               | 760.0                           | 2.6938            | 2.7959 | 0.1021                 | 24                 | 1.56                | 1.56  | 1.56                   | 2248.5            | 45            |                      |                     |
| 24-Apr-21  | Fine              | 298.6               | 758.2                           | 2.7072            | 2.8085 | 0.1013                 | 24                 | 0.97                | 0.98  | 0.97                   | 1404.0            | 72            |                      |                     |
| 30-Apr-21  | Fine              | 298.8               | 759.4                           | 2.6696            | 2.7101 | 0.0405                 | 24                 | 0.97                | 0.98  | 0.98                   | 1404.3            | 29            |                      |                     |
|            |                   |                     |                                 |                   |        |                        |                    |                     |       |                        | Min               | 13            |                      |                     |
|            |                   |                     |                                 |                   |        |                        |                    |                     |       |                        | Max               | 72            |                      |                     |
|            |                   |                     |                                 |                   |        |                        |                    |                     |       |                        | Average           | 36            |                      |                     |

### AMS3C - Ying Tung Estate Market Rooftop

| Start Date | Weather Condition | Air Temperature (K) | Atmospheric Pressure, Pa (mmHg) | Filter Weight (g) |        | Particulate weight (g) | Sampling Time(hrs) | Flow Rate (m³/min.) |       | Average flow (m³/min.) | Total volume (m³) | Conc. (ug/m³) | Action Level (ug/m³) | Limit Level (ug/m³) |
|------------|-------------------|---------------------|---------------------------------|-------------------|--------|------------------------|--------------------|---------------------|-------|------------------------|-------------------|---------------|----------------------|---------------------|
|            |                   |                     |                                 | Initial           | Final  |                        |                    | Initial             | Final |                        |                   |               |                      |                     |
| 1-Apr-21   | Fine              | 299.9               | 755.8                           | 2.7200            | 2.7582 | 0.0382                 | 24                 | 1.40                | 1.41  | 1.41                   | 2027.6            | 19            | 167                  | 260                 |
| 7-Apr-21   | Fine              | 296.3               | 762.1                           | 2.7110            | 2.7922 | 0.0812                 | 24                 | 1.42                | 1.41  | 1.42                   | 2038.4            | 40            |                      |                     |
| 13-Apr-21  | Fine              | 299.1               | 760.3                           | 2.7132            | 2.7496 | 0.0364                 | 24                 | 1.56                | 1.56  | 1.56                   | 2245.1            | 16            |                      |                     |
| 19-Apr-21  | Fine              | 295.7               | 760.0                           | 2.6830            | 2.7509 | 0.0679                 | 24                 | 1.42                | 1.41  | 1.42                   | 2038.1            | 33            |                      |                     |
| 24-Apr-21  | Fine              | 298.6               | 758.2                           | 2.7068            | 2.8043 | 0.0975                 | 24                 | 1.10                | 1.10  | 1.10                   | 1584.0            | 62            |                      |                     |
| 30-Apr-21  | Fine              | 298.8               | 759.4                           | 2.7256            | 2.7922 | 0.0666                 | 24                 | 1.10                | 1.10  | 1.10                   | 1584.4            | 42            |                      |                     |
|            |                   |                     |                                 |                   |        |                        |                    |                     |       |                        | Min               | 16            |                      |                     |
|            |                   |                     |                                 |                   |        |                        |                    |                     |       |                        | Max               | 62            |                      |                     |
|            |                   |                     |                                 |                   |        |                        |                    |                     |       |                        | Average           | 35            |                      |                     |

### AMS7B - 3RS Site Offices

| Start Date | Weather Condition | Air Temperature (K) | Atmospheric Pressure, Pa (mmHg) | Filter Weight (g) |       | Particulate weight (g) | Sampling Time(hrs) | Flow Rate (m³/min.) |       | Average flow (m³/min.) | Total volume (m³) | Conc. (ug/m³) | Action Level (ug/m³) | Limit Level (ug/m³) |
|------------|-------------------|---------------------|---------------------------------|-------------------|-------|------------------------|--------------------|---------------------|-------|------------------------|-------------------|---------------|----------------------|---------------------|
|            |                   |                     |                                 | Initial           | Final |                        |                    | Initial             | Final |                        |                   |               |                      |                     |
|            |                   |                     |                                 |                   |       |                        |                    |                     |       |                        |                   |               | 183                  | 260                 |
|            |                   |                     |                                 |                   |       |                        |                    |                     |       |                        |                   |               |                      |                     |
|            |                   |                     |                                 |                   |       |                        |                    |                     |       |                        |                   |               |                      |                     |
|            |                   |                     |                                 |                   |       |                        |                    |                     |       |                        |                   |               |                      |                     |
|            |                   |                     |                                 |                   |       |                        |                    |                     |       |                        |                   |               |                      |                     |
|            |                   |                     |                                 |                   |       |                        |                    |                     |       |                        | Min               |               |                      |                     |
|            |                   |                     |                                 |                   |       |                        |                    |                     |       |                        | Max               |               |                      |                     |
|            |                   |                     |                                 |                   |       |                        |                    |                     |       |                        | Average           |               |                      |                     |

Note:

Underline: Exceedance of Action Level

Underline and Bold: Exceedance of Limit Level

Air quality monitoring location AMS7B was temporary suspended, effective from 10 December 2020.

