

## **APPENDIX 4F Cumulative Construction Noise Impact**

Appendix 4F: Cumulative Construction Noise Impact (With Implementation of Both Mitigated Scenario 1 and 2)

| NSR No. | Description  | Concurrent Project - Pedestrian Link near Chuk Yuen North Estate |   |                                  |                         |  | Max. Predicted Mitigated CNL for this Project, dB(A) | Max. Predicted Cumulative CNL, dB(A) |
|---------|--|--|---|----------------------------------|-------------------------|--|--|--------------------------------------|
|         |  | Max. SWL, dB(A)  | Distance from Notional Noise Source of Current Project, m | Corr. for Distance, dB(A) [1][2] | Corr. for façade, dB(A) | Max. Predicted Mitigated CNL for Concurrent Project, dB(A) |  |                                      |
| NSR 12  | Mui Yuen House, Chuk Yuen North Estate                         | 103  | 18  | -33                              | 3                       | 73   | 65   | 73                                   |
| NSR 13  | Our Lady of Maryknoll Hospital                                 | 103  | 69  | -45                              | 3                       | 61   | 74   | 74                                   |
| NSR 14  | Our Lady's College   | 103  | 119   | -49                              | 3                       | 57   | 68   | 68 (Normal School Days)              |
|         |  | 103  | 119   | -49                              | 3                       | 57   | 64   | 65 (Examination Period)              |
| NSR 15  | Evangel Children's Home  | 103  | 63  | -44                              | 3                       | 62   | 75   | 75                                   |
| NSR 16  | Wing Shing House   | 103  | 190   | -54                              | 3                       | 52   | 75   | 75                                   |
| NSR 17  | Ying Fuk Court   | 103  | 150   | -51                              | 3                       | 55   | 59   | 60                                   |
| NSR 18  | Diamond Hill Kwong Yum Home for the Aged                       | 103  | 90  | -47                              | 3                       | 59   | 71   | 71                                   |
| NSR 19  | St. Bonaventure College and High School                        | 103  | 180   | -53                              | 3                       | 53   | 68   | 68 (Normal School Days)              |
|         |  | 103  | 180   | -53                              | 3                       | 53   | 64   | 65 (Examination Period)              |
| NSR 20  | Wu York Yu Health Centre                                       | 103  | 231   | -55                              | 3                       | 51   | 70   | 70                                   |
| NSR 21  | Twghs Wong Tai Sin Hospital                                    | 103  | 188   | -53                              | 3                       | 53   | 63   | 63                                   |
| NSR 22  | Ho Lap Primary School  | 103  | 288   | -57                              | 3                       | 49   | 66   | 66 (Normal School Days)              |
|         |  | 103  | 288   | -57                              | 3                       | 49   | 64   | 64 (Examination Period)              |
| NSR P1  | Proposed Departmental Quarters for Customs & Excise Department | 103  | 264   | -56                              | 3                       | 50   | 75   | 75                                   |

| NSR No. | Description                   | Concurrent Project - Improvement of Lion Rock Tunnel |   |                                  |                         |  | Max. Predicted Mitigated CNL for this Project, dB(A) | Max. Predicted Cumulative CNL, dB(A) |
|---------|-------------------------------|--|---|----------------------------------|-------------------------|--|--|--------------------------------------|
|         |                               | Max. SWL, dB(A)                                      | Distance from Notional Noise Source of Current Project, m | Corr. for Distance, dB(A) [1][2] | Corr. for façade, dB(A) | Max. Predicted Mitigated CNL for Concurrent Project, dB(A) |  |                                      |
| NSR 1   | Block B, Peninsula Heights    | 117  | 101   | -48                              | 3                       | 72   | 71   | 74                                   |
| NSR 2   | Block 1, Meridian Hill        | 117  | 222   | -55                              | 3                       | 65   | 72   | 73                                   |
| NSR 3   | Chun Sing House, Tin Ma Court | 117  | 353   | -59                              | 3                       | 61   | 66   | 67                                   |

Predicted Noise Level exceeded the corresponding EIAO-TM noise criteria of 75 db(A) for residential / 70 db(A) for school during normal school days

Predicted Noise Level exceeded the corresponding EIAO-TM noise criteria of 65db(A) for school during examination period

Note:

[1] Distance Correction for PMEs =  $10 \cdot \log(2 \cdot \pi \cdot r^2)$  [where  $\pi = 3.1416$  and  $r$  is the distance of NSR from notional noise source]

[2] The figures are rounded-up to a whole number.