

Project : SCL - Tai Wai to Hung Hom Section

Title : Construction Noise Calculation

Scenario : Mitigated Scenario

Subtitle : Ma Chai Hang Ventilation Building

| Activities | 2012 | | | | | | | | | | | | 2013 | | | | | | | | | | | | 2014 | | | | | | | | | | | | |
|--|------|-----|-------|-----|-----|------|------|-----|------|-----|-----|-----|------|-----|-------|-----|-----|------|------|-----|------|-----|-----|-----|------|-----|-------|-----|-----|------|------|-----|------|-----|-----|-----|--|
| | Jan | Feb | March | Apr | May | June | July | Aug | Sept | Oct | Nov | Dec | Jan | Feb | March | Apr | May | June | July | Aug | Sept | Oct | Nov | Dec | Jan | Feb | March | Apr | May | June | July | Aug | Sept | Oct | Nov | Dec | |
| Ma Chai Hang Ventilation Building Stage 1 S1 Mobilization | | | | | | | | | | | | | 101 | | | | | | | | | | | | | | | | | | | | | | | | |
| Site Clearance of Playground | | | | | | | | | | | | | 106 | 106 | | | | | | | | | | | | | | | | | | | | | | | |
| Ma Chai Hang Ventilation Building Stage 2 S2 Guide Wall Construction | | | | | | | | | | | | | | | 99 | | | | | | | | | | | | | | | | | | | | | | |
| Diaphragm Wall Construction | | | | | | | | | | | | | | | 102 | 102 | 102 | 102 | | | | | | | | | | | | | | | | | | | |
| Ma Chai Hang Ventilation Building Stage 3 S3 Jet Grounding | | | | | | | | | | | | | | | | | | | | 101 | | | | | | | | | | | | | | | | | |
| Ma Chai Hang Ventilation Building Stage 4 S4 Excavation | | | | | | | | | | | | | | | | | | | | | 108 | 108 | | | | | | | | | | | | | | | |
| Ma Chai Hang Ventilation Building Stage 5 S5 Installation of Struts and Waling | | | | | | | | | | | | | | | | | | | | | 98 | 98 | | | | | | | | | | | | | | | |
| Tunnelling/Mining Operations | | | | | | | | | | | | | | | | | | | | | | | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | | |
| Construction of Station/Depot Structure Elements | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| E&M Installation | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ma Chai Hang Ventilation Building Stage 6 S6 Permanent Underground Structures | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ma Chai Hang Ventilation Building Stage 7 S7 Backfilling and Reinstatement | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ma Chai Hang Ventilation Building Stage 8 S8 Construction of Above Ground Structures | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ma Chai Hang Ventilation Building S9 Reprovisioning Works | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | 101 | 101 | 101 | 101 | 101 | 101 | 101 | | | | | | | | | | | | | | | | | | | | | | | | | |

| Summary of SWLs | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|---|
| Ma Chai Hang Ventilation Building Stage 1 S1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 107 | 106 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Ma Chai Hang Ventilation Building Stage 2 S2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 104 | 102 | 102 | 102 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ma Chai Hang Ventilation Building Stage 3 S3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 101 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ma Chai Hang Ventilation Building Stage 4 S4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 108 | 108 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ma Chai Hang Ventilation Building Stage 5 S5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 98 | 98 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | |
| Ma Chai Hang Ventilation Building Stage 6 S6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ma Chai Hang Ventilation Building Stage 7 S7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ma Chai Hang Ventilation Building Stage 8 S8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ma Chai Hang Ventilation Building S9 | 0 | 0 | 0 | 0 | 0 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

| Predicted Construction Noise, dB(A) | | Max | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------------|----|-----|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| DIH-4-2 | 63 | 63 | 0 | 0 | 0 | 0 | 0 | 52 | 52 | 52 | 52 | 52 | 52 | 52 | 62 | 61 | 59 | 57 | 57 | 57 | 56 | 63 | 63 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | |
| DIH-20-1 | 64 | 64 | 0 | 0 | 0 | 0 | 0 | 55 | 55 | 55 | 55 | 55 | 55 | 63 | 62 | 59 | 58 | 58 | 58 | 57 | 64 | 64 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | |
| DIH-21-1 | 67 | 67 | 0 | 0 | 0 | 0 | 0 | 56 | 56 | 56 | 56 | 56 | 56 | 66 | 65 | 62 | 61 | 61 | 61 | 60 | 67 | 67 | 62 | 62 | 62 | 62 | 62 | 62 | 62 | 62 | 62 | 62 | 62 | 62 | 62 | 62 | 62 |
| DIH-22-1 | 65 | 65 | 0 | 0 | 0 | 0 | 0 | 57 | 57 | 57 | 57 | 57 | 57 | 64 | 63 | 60 | 58 | 58 | 58 | 58 | 65 | 65 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 |
| DIH-23-1 | 64 | 64 | 0 | 0 | 0 | 0 | 0 | 58 | 58 | 58 | 58 | 58 | 58 | 63 | 62 | 59 | 57 | 57 | 57 | 57 | 64 | 64 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | 59 |

Project : SCL - Tai Wai to Hung Hom Section

Title : Construction Noise Calculation

Scenario : Mitigated Scenario

Subtitle : Ma Chai Hang Ventilation Building

| Activities | 2015 | | | | | | | | | | | | 2016 | | | | | | | | | | | |
|--|------|-----|-------|-----|-----|------|------|-----|------|-----|-----|-----|------|-----|-------|-----|-----|------|------|-----|------|-----|-----|-----|
| | Jan | Feb | March | Apr | May | June | July | Aug | Sept | Oct | Nov | Dec | Jan | Feb | March | Apr | May | June | July | Aug | Sept | Oct | Nov | Dec |
| Ma Chai Hang Ventilation Building Stage 1 S1 Mobilization Site Clearance of Playground | | | | | | | | | | | | | | | | | | | | | | | | |
| Ma Chai Hang Ventilation Building Stage 2 S2 Guide Wall Construction Diaphragm Wall Construction | | | | | | | | | | | | | | | | | | | | | | | | |
| Ma Chai Hang Ventilation Building Stage 3 S3 Jet Grounding | | | | | | | | | | | | | | | | | | | | | | | | |
| Ma Chai Hang Ventilation Building Stage 4 S4 Excavation | | | | | | | | | | | | | | | | | | | | | | | | |
| Ma Chai Hang Ventilation Building Stage 5 S5 Installation of Struts and Waling Tunnelling/Mining Operations Construction of Station/Depot Structure Elements E&M Installation | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 105 | 105 | 105 | | 97 | 97 | | | | | | | |
| Ma Chai Hang Ventilation Building Stage 6 S6 Permanent Underground Structures | | | | | | | | | | | | | | | | | | 104 | 104 | | | | | |
| Ma Chai Hang Ventilation Building Stage 7 S7 Backfilling and Reinstatement | | | | | | | | | | | | | | | | | | | | 102 | | | | |
| Ma Chai Hang Ventilation Building Stage 8 S8 Construction of Above Ground Structures | | | | | | | | | | | | | | | | | | | | | 103 | 103 | | |
| Ma Chai Hang Ventilation Building S9 Reprovisioning Works | | | | | | | | | | | | | | | | | | | | | | | | |

| Summary of SWLs | |
|--|---|
| Ma Chai Hang Ventilation Building Stage 1 S1 | 0 |
| Ma Chai Hang Ventilation Building Stage 2 S2 | 0 |
| Ma Chai Hang Ventilation Building Stage 3 S3 | 0 |
| Ma Chai Hang Ventilation Building Stage 4 S4 | 0 |
| Ma Chai Hang Ventilation Building Stage 5 S5 | 103 103 103 103 103 103 103 103 103 103 103 103 0 105 105 105 97 97 0 0 0 0 0 0 |
| Ma Chai Hang Ventilation Building Stage 6 S6 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 104 104 0 0 0 0 |
| Ma Chai Hang Ventilation Building Stage 7 S7 | 0 102 0 0 0 |
| Ma Chai Hang Ventilation Building Stage 8 S8 | 0 103 103 0 |
| Ma Chai Hang Ventilation Building S9 | 0 |

| Predicted Construction Noise, dB(A) | Max | Jan | Feb | March | Apr | May | June | July | Aug | Sept | Oct | Nov | Dec | Jan | Feb | March | Apr | May | June | July | Aug | Sept | Oct | Nov | Dec |
|-------------------------------------|-----|-----|-----|-------|-----|-----|------|------|-----|------|-----|-----|-----|-----|-----|-------|-----|-----|------|------|-----|------|-----|-----|-----|
| DIH-4-2 | 63 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 0 | 60 | 60 | 60 | 52 | 52 | 59 | 59 | 57 | 58 | 58 | 0 | 0 |
| DIH-20-1 | 64 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | 0 | 61 | 61 | 61 | 53 | 53 | 60 | 60 | 58 | 59 | 59 | 0 | 0 |
| DIH-21-1 | 67 | 62 | 62 | 62 | 62 | 62 | 62 | 62 | 62 | 62 | 62 | 62 | 0 | 64 | 64 | 64 | 56 | 56 | 62 | 62 | 61 | 61 | 61 | 0 | 0 |
| DIH-22-1 | 65 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 0 | 61 | 61 | 61 | 53 | 53 | 60 | 60 | 59 | 59 | 59 | 0 | 0 |
| DIH-23-1 | 64 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | 0 | 60 | 60 | 60 | 52 | 52 | 59 | 59 | 58 | 58 | 58 | 0 | 0 |