

Appendix 4.7

Detailed Construction Dust
Assessment
Results (Mitigated)

Result Summary (Cumulative Max. 1-hour TSP)

Mitigated

| ASR ID | Location | Max. 1-hour TSP Concentration at various height (ug/m3) | | | | |
|--------|--|---|-------|--------|--------|--------|
| | | 1.5 mAG | 5 mAG | 10 mAG | 15 mAG | 20 mAG |
| A1 | Lo Wu Control Point | 195 | 187 | 177 | 177 | 177 |
| A2 | Village House along Lo Wu Road | 218 | 207 | 194 | 184 | 177 |
| A3 | Lo Wu Public School | 202 | 193 | 182 | 177 | 177 |
| A4 | Lo Wu Document Storage Building | 203 | 196 | 184 | 177 | 177 |
| A5 | Village House along Lo Wu Station Road | 179 | 179 | 179 | 179 | 179 |
| A6 | Food and Environmental Hygiene Department | 178 | 176 | 168 | 159 | 159 |
| A7 | Village House along Man Kam To Road | 188 | 176 | 168 | 163 | 160 |
| A8 | Border District Police Headquarter | 191 | 188 | 181 | 174 | 167 |
| A9 | Village House along Man Kam To Road | 208 | 199 | 188 | 180 | 172 |
| A10 | Village House along Man Kam To Road | 204 | 202 | 196 | 189 | 182 |
| A11 | Village House along Man Kam To Road | 196 | 196 | 195 | 193 | 190 |
| A13 | Temple | 211 | 187 | 178 | 171 | 165 |
| A14 | Village House along Man Kam To Road | 191 | 185 | 175 | 168 | 164 |
| A15 | Village House along Man Kam To Road | 197 | 182 | 171 | 163 | 162 |
| A16 | Village House along Man Kam To Road | 167 | 161 | 160 | 160 | 160 |
| A17 | Village House along Man Kam To Road | 161 | 161 | 160 | 160 | 160 |
| A18 | Ta Kwu Ling Division Border Enforcement Unit Block | 171 | 171 | 170 | 169 | 168 |
| A19 | Village House near Man Kam To Operation Base | 205 | 203 | 205 | 204 | 194 |
| A20 | Man Kam To Boundary Control Point | 182 | 180 | 178 | 177 | 175 |
| A21 | Village House to the south of Man Kam To Boundary Control Po | 168 | 168 | 169 | 170 | 169 |
| A22 | Hung Kiu San Tsuen | 226 | 189 | 175 | 174 | 173 |
| A23 | Village House at San Uk Ling | 164 | 163 | 163 | 163 | 163 |
| A24 | Village House along Li Ma Hang Road | 163 | 163 | 163 | 163 | 163 |
| A25 | Village House along Muk Wu | 163 | 163 | 163 | 163 | 163 |
| A26 | Village House along Li Ma Hang Road | 166 | 166 | 166 | 166 | 166 |
| A28 | Village House along Li Ma Hang Road | 166 | 166 | 166 | 166 | 166 |
| A29 | Village House at Muk Wu Nga Yiu | 166 | 166 | 166 | 166 | 166 |
| A30 | Village House at Muk Wu Chuen Yiu (Planned) | 309 | 196 | 166 | 166 | 166 |
| A31 | Village House at Muk Wu Chuen Yiu | 265 | 224 | 166 | 166 | 166 |
| A32 | Recreational use – Planned development | 384 | 224 | 166 | 166 | 166 |
| A33 | Recreational use – Planned development | 294 | 188 | 168 | 166 | 166 |
| A34 | Recreational use – Planned development | 320 | 209 | 166 | 166 | 166 |
| A35 | Recreational use – Planned development | 243 | 181 | 166 | 166 | 166 |
| A36 | Recreational use – Planned development | 192 | 166 | 166 | 166 | 166 |
| A37 | House No 28 Ta Kwu Ling Village | 174 | 166 | 166 | 166 | 166 |

Result Summary (Cumulative 10th highest 24-hour RSP)

Mitigated

| ASR ID | Location | 10th highest 24-hour RSP Concentration at various height (ug/m3) | | | | |
|--------|--|--|-------|--------|--------|--------|
| | | 1.5 mAG | 5 mAG | 10 mAG | 15 mAG | 20 mAG |
| A1 | Lo Wu Control Point | 86 | 86 | 86 | 86 | 86 |
| A2 | Village House along Lo Wu Road | 86 | 86 | 86 | 86 | 86 |
| A3 | Lo Wu Public School | 86 | 86 | 86 | 86 | 86 |
| A4 | Lo Wu Document Storage Building | 86 | 86 | 86 | 86 | 86 |
| A5 | Village House along Lo Wu Station Road | 88 | 88 | 88 | 88 | 87 |
| A6 | Food and Environmental Hygiene Department | 88 | 88 | 88 | 88 | 87 |
| A7 | Village House along Man Kam To Road | 88 | 87 | 86 | 86 | 86 |
| A8 | Border District Police Headquarter | 87 | 87 | 87 | 87 | 87 |
| A9 | Village House along Man Kam To Road | 88 | 88 | 88 | 87 | 87 |
| A10 | Village House along Man Kam To Road | 89 | 89 | 89 | 89 | 89 |
| A11 | Village House along Man Kam To Road | 95 | 92 | 90 | 88 | 87 |
| A13 | Temple | 97 | 91 | 88 | 86 | 86 |
| A14 | Village House along Man Kam To Road | 88 | 88 | 88 | 87 | 86 |
| A15 | Village House along Man Kam To Road | 86 | 86 | 86 | 86 | 86 |
| A16 | Village House along Man Kam To Road | 85 | 85 | 85 | 85 | 85 |
| A17 | Village House along Man Kam To Road | 85 | 85 | 84 | 84 | 84 |
| A18 | Ta Kwu Ling Division Border Enforcement Unit Block | 86 | 86 | 86 | 86 | 86 |
| A19 | Village House near Man Kam To Operation Base | 86 | 86 | 86 | 86 | 86 |
| A20 | Man Kam To Boundary Control Point | 87 | 87 | 86 | 86 | 86 |
| A21 | Village House to the south of Man Kam To Boundary Control Po | 87 | 87 | 87 | 87 | 87 |
| A22 | Hung Kiu San Tsuen | 91 | 90 | 88 | 88 | 89 |
| A23 | Village House at San Uk Ling | 93 | 89 | 87 | 86 | 86 |
| A24 | Village House along Li Ma Hang Road | 89 | 86 | 86 | 86 | 86 |
| A25 | Village House along Muk Wu | 86 | 86 | 86 | 86 | 86 |
| A26 | Village House along Li Ma Hang Road | 91 | 89 | 87 | 87 | 87 |
| A28 | Village House along Li Ma Hang Road | 90 | 87 | 86 | 86 | 86 |
| A29 | Village House at Muk Wu Nga Yiu | 87 | 87 | 87 | 87 | 86 |
| A30 | Village House at Muk Wu Chuen Yiu (Planned) | 94 | 89 | 87 | 87 | 86 |
| A31 | Village House at Muk Wu Chuen Yiu | 90 | 89 | 87 | 87 | 86 |
| A32 | Recreational use – Planned development | 91 | 88 | 87 | 87 | 86 |
| A33 | Recreational use – Planned development | 98 | 91 | 88 | 87 | 87 |
| A34 | Recreational use – Planned development | 94 | 88 | 87 | 87 | 86 |
| A35 | Recreational use – Planned development | 95 | 87 | 87 | 86 | 86 |
| A36 | Recreational use – Planned development | 89 | 87 | 87 | 86 | 86 |
| A37 | House No 28 Ta Kwu Ling Village | 91 | 88 | 87 | 86 | 86 |

Result Summary (Cumulative Annual RSP)

Mitigated

| ASR ID | Location | Annual RSP Concentration at various height (ug/m3) | | | | |
|--------|--|--|-------|--------|--------|--------|
| | | 1.5 mAG | 5 mAG | 10 mAG | 15 mAG | 20 mAG |
| A1 | Lo Wu Control Point | 44 | 44 | 44 | 44 | 44 |
| A2 | Village House along Lo Wu Road | 45 | 45 | 45 | 45 | 44 |
| A3 | Lo Wu Public School | 45 | 45 | 45 | 45 | 45 |
| A4 | Lo Wu Document Storage Building | 44 | 44 | 44 | 44 | 44 |
| A5 | Village House along Lo Wu Station Road | 45 | 45 | 44 | 44 | 44 |
| A6 | Food and Environmental Hygiene Department | 44 | 44 | 44 | 44 | 44 |
| A7 | Village House along Man Kam To Road | 45 | 44 | 44 | 44 | 44 |
| A8 | Border District Police Headquarter | 44 | 44 | 44 | 44 | 44 |
| A9 | Village House along Man Kam To Road | 45 | 44 | 44 | 44 | 44 |
| A10 | Village House along Man Kam To Road | 45 | 45 | 45 | 45 | 45 |
| A11 | Village House along Man Kam To Road | 49 | 47 | 45 | 45 | 44 |
| A13 | Temple | 46 | 45 | 45 | 44 | 44 |
| A14 | Village House along Man Kam To Road | 45 | 45 | 45 | 44 | 44 |
| A15 | Village House along Man Kam To Road | 44 | 44 | 44 | 44 | 44 |
| A16 | Village House along Man Kam To Road | 44 | 44 | 44 | 44 | 44 |
| A17 | Village House along Man Kam To Road | 44 | 44 | 44 | 44 | 44 |
| A18 | Ta Kwu Ling Division Border Enforcement Unit Block | 44 | 44 | 44 | 43 | 43 |
| A19 | Village House near Man Kam To Operation Base | 44 | 44 | 44 | 44 | 44 |
| A20 | Man Kam To Boundary Control Point | 44 | 44 | 44 | 43 | 43 |
| A21 | Village House to the south of Man Kam To Boundary Control Po | 44 | 44 | 44 | 44 | 44 |
| A22 | Hung Kiu San Tsuen | 45 | 44 | 44 | 44 | 44 |
| A23 | Village House at San Uk Ling | 45 | 44 | 43 | 43 | 43 |
| A24 | Village House along Li Ma Hang Road | 48 | 45 | 43 | 43 | 43 |
| A25 | Village House along Muk Wu | 44 | 44 | 43 | 43 | 43 |
| A26 | Village House along Li Ma Hang Road | 44 | 44 | 43 | 43 | 43 |
| A28 | Village House along Li Ma Hang Road | 50 | 45 | 44 | 43 | 43 |
| A29 | Village House at Muk Wu Nga Yiu | 44 | 44 | 44 | 43 | 43 |
| A30 | Village House at Muk Wu Chuen Yiu (Planned) | 49 | 45 | 44 | 43 | 43 |
| A31 | Village House at Muk Wu Chuen Yiu | 46 | 45 | 44 | 43 | 43 |
| A32 | Recreational use – Planned development | 47 | 44 | 43 | 43 | 43 |
| A33 | Recreational use – Planned development | 48 | 45 | 43 | 43 | 43 |
| A34 | Recreational use – Planned development | 45 | 44 | 43 | 43 | 43 |
| A35 | Recreational use – Planned development | 45 | 43 | 43 | 43 | 43 |
| A36 | Recreational use – Planned development | 47 | 44 | 43 | 43 | 43 |
| A37 | House No 28 Ta Kwu Ling Village | 44 | 43 | 43 | 43 | 43 |

Result Summary (Cumulative 10th highest 24-hour FSP)

Mitigated

| ASR ID | Location | 10th highest 24-hour FSP Concentration at various height (ug/m3) | | | | |
|--------|--|--|-------|--------|--------|--------|
| | | 1.5 mAG | 5 mAG | 10 mAG | 15 mAG | 20 mAG |
| A1 | Lo Wu Control Point | 65 | 65 | 65 | 65 | 65 |
| A2 | Village House along Lo Wu Road | 65 | 65 | 65 | 65 | 65 |
| A3 | Lo Wu Public School | 65 | 65 | 65 | 65 | 65 |
| A4 | Lo Wu Document Storage Building | 65 | 65 | 65 | 65 | 65 |
| A5 | Village House along Lo Wu Station Road | 65 | 65 | 65 | 65 | 65 |
| A6 | Food and Environmental Hygiene Department | 63 | 63 | 63 | 63 | 63 |
| A7 | Village House along Man Kam To Road | 64 | 63 | 63 | 63 | 63 |
| A8 | Border District Police Headquarter | 63 | 63 | 63 | 63 | 63 |
| A9 | Village House along Man Kam To Road | 63 | 63 | 63 | 63 | 63 |
| A10 | Village House along Man Kam To Road | 63 | 63 | 63 | 63 | 63 |
| A11 | Village House along Man Kam To Road | 63 | 63 | 63 | 63 | 63 |
| A13 | Temple | 64 | 64 | 63 | 63 | 63 |
| A14 | Village House along Man Kam To Road | 63 | 63 | 63 | 63 | 63 |
| A15 | Village House along Man Kam To Road | 63 | 63 | 63 | 63 | 63 |
| A16 | Village House along Man Kam To Road | 63 | 63 | 63 | 63 | 63 |
| A17 | Village House along Man Kam To Road | 64 | 63 | 63 | 63 | 63 |
| A18 | Ta Kwu Ling Division Border Enforcement Unit Block | 65 | 64 | 64 | 64 | 64 |
| A19 | Village House near Man Kam To Operation Base | 64 | 64 | 64 | 64 | 64 |
| A20 | Man Kam To Boundary Control Point | 65 | 64 | 64 | 64 | 64 |
| A21 | Village House to the south of Man Kam To Boundary Control Po | 64 | 64 | 64 | 64 | 64 |
| A22 | Hung Kiu San Tsuen | 65 | 65 | 65 | 65 | 65 |
| A23 | Village House at San Uk Ling | 65 | 64 | 64 | 64 | 64 |
| A24 | Village House along Li Ma Hang Road | 64 | 64 | 64 | 64 | 64 |
| A25 | Village House along Muk Wu | 64 | 64 | 64 | 64 | 64 |
| A26 | Village House along Li Ma Hang Road | 65 | 65 | 65 | 65 | 65 |
| A28 | Village House along Li Ma Hang Road | 65 | 65 | 65 | 65 | 65 |
| A29 | Village House at Muk Wu Nga Yiu | 65 | 65 | 65 | 65 | 65 |
| A30 | Village House at Muk Wu Chuen Yiu (Planned) | 65 | 65 | 65 | 65 | 65 |
| A31 | Village House at Muk Wu Chuen Yiu | 65 | 65 | 65 | 65 | 65 |
| A32 | Recreational use – Planned development | 65 | 65 | 65 | 65 | 65 |
| A33 | Recreational use – Planned development | 67 | 65 | 65 | 65 | 65 |
| A34 | Recreational use – Planned development | 66 | 65 | 65 | 65 | 65 |
| A35 | Recreational use – Planned development | 66 | 65 | 65 | 65 | 65 |
| A36 | Recreational use – Planned development | 65 | 65 | 65 | 65 | 65 |
| A37 | House No 28 Ta Kwu Ling Village | 65 | 65 | 65 | 65 | 65 |

Result Summary (Cumulative Annual FSP)

Mitigated

| ASR ID | Location | Annual FSP Concentration at various height (ug/m3) | | | | |
|--------|--|--|-------|--------|--------|--------|
| | | 1.5 mAG | 5 mAG | 10 mAG | 15 mAG | 20 mAG |
| A1 | Lo Wu Control Point | 31 | 31 | 31 | 31 | 31 |
| A2 | Village House along Lo Wu Road | 31 | 31 | 31 | 31 | 31 |
| A3 | Lo Wu Public School | 31 | 31 | 31 | 31 | 31 |
| A4 | Lo Wu Document Storage Building | 31 | 31 | 31 | 31 | 31 |
| A5 | Village House along Lo Wu Station Road | 31 | 31 | 31 | 31 | 31 |
| A6 | Food and Environmental Hygiene Department | 31 | 31 | 31 | 31 | 31 |
| A7 | Village House along Man Kam To Road | 31 | 31 | 31 | 31 | 31 |
| A8 | Border District Police Headquarter | 31 | 31 | 31 | 31 | 31 |
| A9 | Village House along Man Kam To Road | 31 | 31 | 31 | 31 | 31 |
| A10 | Village House along Man Kam To Road | 31 | 31 | 31 | 31 | 31 |
| A11 | Village House along Man Kam To Road | 31 | 31 | 31 | 31 | 31 |
| A13 | Temple | 31 | 31 | 31 | 31 | 31 |
| A14 | Village House along Man Kam To Road | 31 | 31 | 31 | 31 | 31 |
| A15 | Village House along Man Kam To Road | 31 | 31 | 31 | 31 | 31 |
| A16 | Village House along Man Kam To Road | 31 | 31 | 31 | 31 | 31 |
| A17 | Village House along Man Kam To Road | 31 | 31 | 31 | 31 | 31 |
| A18 | Ta Kwu Ling Division Border Enforcement Unit Block | 31 | 30 | 30 | 30 | 30 |
| A19 | Village House near Man Kam To Operation Base | 30 | 30 | 30 | 30 | 30 |
| A20 | Man Kam To Boundary Control Point | 31 | 30 | 30 | 30 | 30 |
| A21 | Village House to the south of Man Kam To Boundary Control Po | 30 | 30 | 30 | 30 | 30 |
| A22 | Hung Kiu San Tsuen | 31 | 31 | 31 | 31 | 31 |
| A23 | Village House at San Uk Ling | 30 | 30 | 30 | 30 | 30 |
| A24 | Village House along Li Ma Hang Road | 30 | 30 | 30 | 30 | 30 |
| A25 | Village House along Muk Wu | 30 | 30 | 30 | 30 | 30 |
| A26 | Village House along Li Ma Hang Road | 30 | 30 | 30 | 30 | 30 |
| A28 | Village House along Li Ma Hang Road | 31 | 30 | 30 | 30 | 30 |
| A29 | Village House at Muk Wu Nga Yiu | 30 | 30 | 30 | 30 | 30 |
| A30 | Village House at Muk Wu Chuen Yiu (Planned) | 31 | 31 | 30 | 30 | 30 |
| A31 | Village House at Muk Wu Chuen Yiu | 31 | 31 | 30 | 30 | 30 |
| A32 | Recreational use – Planned development | 31 | 30 | 30 | 30 | 30 |
| A33 | Recreational use – Planned development | 31 | 30 | 30 | 30 | 30 |
| A34 | Recreational use – Planned development | 31 | 30 | 30 | 30 | 30 |
| A35 | Recreational use – Planned development | 31 | 30 | 30 | 30 | 30 |
| A36 | Recreational use – Planned development | 31 | 30 | 30 | 30 | 30 |
| A37 | House No 28 Ta Kwu Ling Village | 30 | 30 | 30 | 30 | 30 |