

Appendix 3.2 Calculation of the Composite Emission Factors for each Road Link

| Year 2028 Calculations of Emission Rates Using Euro4 | | | | | | | | | | | | | | | Emission Factor for NO _x in gm/km-veh | | | | | | | | | | NO _x E.F. (0.01g/mile-veh) |
|---|-------|---------------|---------|------|----|-----|------|----|-----|-----|-----|-----|------|------|--|--------|-------|------|-----|-------|--------|--------|------|--------|---|
| Traffic Breakdown | | | | | | | | | | | | | | | MC | PC | TAXI | PV | PLB | LGV | HGV | NFB | FBSD | FBDD | |
| Road Name | Roads | Road Link No. | Total Q | Q | MC | PC | TAXI | PV | PLB | LGV | HGV | NFB | FBSD | FBDD | MC | PC | TAXI | PV | PLB | LGV | HGV | NFB | FBSD | FBDD | |
| North Lantau Highway (EB) Yam O Section | 1 | 1 | 4820 | 4820 | 2% | 38% | 27% | 1% | 0% | 5% | 15% | 9% | 0% | 3% | 27.8 | 1001.7 | 649.3 | 29.3 | 0.0 | 232.8 | 2508.5 | 2157.6 | 61.5 | 799.5 | 249.336 |
| North Lantau Highway (WB) Yam O Section | 2 | 2 | 4805 | 4805 | 2% | 40% | 29% | 1% | 0% | 4% | 13% | 9% | 0% | 3% | 27.8 | 1034.1 | 673.8 | 29.3 | 0.0 | 194.0 | 2110.6 | 2256.8 | 61.5 | 861.0 | 242.777 |
| North Lantau Highway (EB) Sau Ho Wan Section | 3 | 3 | 5565 | 5565 | 2% | 37% | 27% | 1% | 0% | 5% | 17% | 9% | 0% | 3% | 31.5 | 1115.1 | 722.8 | 35.1 | 0.0 | 295.9 | 3217.8 | 2405.6 | 61.5 | 1107.0 | 260.037 |
| North Lantau Highway (WB) Sau Ho Wan Section | 4 | 4 | 5265 | 5265 | 1% | 36% | 26% | 0% | 0% | 6% | 18% | 9% | 0% | 4% | 27.8 | 1031.4 | 671.3 | 29.3 | 0.0 | 291.0 | 3252.4 | 2232.0 | 61.5 | 1137.8 | 266.974 |
| Road P1 | 5 | 5 | 1405 | 1405 | 1% | 15% | 10% | 0% | 0% | 17% | 54% | 4% | 0% | 0% | 3.7 | 110.7 | 68.6 | 0.0 | 0.0 | 237.7 | 2612.3 | 248.0 | 0.0 | 0.0 | 375.803 |

| Emission Factor for RSP in gm/km-veh | | | | | | | | | | RSP E.F. (g/mile-veh) |
|--------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------------------------------|
| MC | PC | TAXI | PV | PLB | LGV | HGV | NFB | FBSD | FBDD | |
| 0.0300 | 0.0300 | 0.0100 | 0.1200 | 0.0700 | 0.0900 | 0.3600 | 0.3300 | 0.4500 | 0.4500 | |
| 2.25 | 55.65 | 13.25 | 3.00 | 0.00 | 21.60 | 261.00 | 143.55 | 4.50 | 58.50 | 0.1881 |
| 2.25 | 57.45 | 13.75 | 3.00 | 0.00 | 18.00 | 219.60 | 150.15 | 4.50 | 63.00 | 0.1781 |
| 2.55 | 61.95 | 14.75 | 3.60 | 0.00 | 27.45 | 334.80 | 160.05 | 4.50 | 81.00 | 0.1997 |
| 2.25 | 57.30 | 13.70 | 3.00 | 0.00 | 27.00 | 338.40 | 148.50 | 4.50 | 83.25 | 0.2072 |