**Table 1. Measured and predicted results**

|  |  |  |  |
| --- | --- | --- | --- |
|   | Predicted Lday [dB(A)] | Measured Lday [dB(A)] | Predicted -Measured [dB(A)] |
| Long-term Position 1 |  72.5 |  73.6 | -1.1  |
|   |   |   |   |
| Short-Term Position 1 |  69.3 | 66.5 |  +1.8 |
| Short-Term Position 2 |  70.9 | 74.0 |  -3.1 |
| Short-Term Position 3 |  63.3 | 65.0 |  -1.7 |
| Short-Term Position 4 |  49.5 | 54.4 |  -4.9 |
| Short-Term Position 5 |  55.6 | 56.6 |  -1 |
| Short-Term Position 6 |  70.0 | 72.9 |  -2.9 |
| Short-Term Position 7 |  65.6 | 67.4 | -1.8  |

**Table 2. Estimates of population exposure for study area (all roads included)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | **<55** | **55-60** | **60-65** | **65-70** | **70-75** | **>75** |
| **Residents** | 35675 | 28411 | 14522 | 12730 | 32668 | 9033 |
|  | **45-50** | **50-55** | **55-60** | **60-65** | **65-70** | **>70** |
| **Residents** | 27020 | 14591 | 10377 | 20872 | 25346 | 458 |

**Table 3. Population exposure for the base reference condition - selected roads**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | **<55** | **55-60** | **60-65** | **65-70** | **70-75** | **>75** |
| **Residents** | 60588 | 22757 | 12064 | 6174 | 23891 | 7565 |
|  | **45-50** | **50-55** | **55-60** | **60-65** | **65-70** | **>70** |
| **Residents** | 21894 | 12587 | 5854 | 14158 | 18905 | 291 |

**Table 4. Revised population exposure from the base reference condition for 10% and 20% travel demand reductions on roads**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **(-10%)** | **<55** | **55-60** | **60-65** | **65-70** | **70-75** | **>75** |
| **Residents** | 63142(+4.2%) | 21770(-4.3%) | 11301(-6.3%) | 5690(-7.4%) | 25672(-7.5%) | 5464(-27.8%) |
| **(-20%)** | **<55** | **55-60** | **60-65** | **65-70** | **70-75** | **>75** |
| **Residents** | 64899(+7.1%) | 21841(-4.2%) | 10167(-15.7%) | 6331(+3.1%) | 27117(+13.5%) | 2684(-64.5%) |
| **(-10%)** | **45-50** | **50-55** | **55-60** | **60-65** | **65-70** | **>70** |
| **Residents** | 21132(-3.5%) | 11729(-6.8%) | 5425(-7.9%) | 16452(+16.2%) | 16643(-12.2%) | 115(-60.5%) |
| **(-20%)** | **45-50** | **50-55** | **55-60** | **60-65** | **65-70** | **>70** |
| **Residents** | 19630(-10.3%) | 11347(-9.8%) | 6236(+6.5%) | 17354(+22.6%) | 14153(-25.1%) | 93(-68.1%) |

**Table 5. Revised population exposure from the base reference condition for 10% and 20% speed reductions on** **roads**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **(-10%)** | **<55** | **55-60** | **60-65** | **65-70** | **70-75** | **>75** |
| **Residents** | 61872(+2.1%) | 22443(-1.4%) | 11505(-4.6%) | 5843(-5.2%) | 25246(+5.7%) | 6130(-23.4%) |
| **(-20%)** | **<55** | **55-60** | **60-65** | **65-70** | **70-75** | **>75** |
| **Residents** | 64560(+6.5%) | 21572(-4.4%) | 11111(-7.9%) | 5863(-8.6%) | 25927(+8.5%) | 4006(-47.1%) |
| **(-10%)** | **45-50** | **50-55** | **55-60** | **60-65** | **65-70** | **>70** |
| **Residents** | 21055(-3.8%) | 12124(-3.6) | 5623(-4.0%) | 15862(+12.0%) | 17418(-8.5%) | 123(-57.7%) |
| **(-20%)** | **45-50** | **50-55** | **55-60** | **60-65** | **65-70** | **>70** |
| **Residents** | 21009(-4.1%) | 11552(-8.2%) | 5377(-8.2%) | 16911(+19.5%) | 16111(+14.8%) | 108(-169.4%) |

**Table 6. Revised population exposure from the base reference condition for the combined implementation of two ‘acoustical planning’ mitigation measures**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **(-10%)** | **<55** | **55-60** | **60-65** | **65-70** | **70-75** | **>75** |
| **Residents** | 64110(+5.8%) | 21863(-3.1%) | 10265(-14.9%) | 5907(-4.3%) | 27147(+13.6%) | 3747(-50.5%) |
| **(-10%)** | **45-50** | **50-55** | **55-60** | **60-65** | **65-70** | **>70** |
| **Residents** | 20418(-6.7% | 11466(-8.9%) | 5453(-6.9%) | 16604(+17.3%) | 15200(-20.0%) | 93(-68.0%) |

**Table 7. Revised population exposure from the base barrier reference condition for noise barrier implementation**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **No Barrier** | **<55** | **55-60** | **60-65** | **65-70** | **70-75** | **>75** |
| **Residents** | 119582 | 5908 | 3798 | 1227 | 970 | 1554 |
| **2m Barrier** | **<55** | **55-60** | **60-65** | **65-70** | **70-75** | **>75** |
| **Residents** | 119649(+0.1%) | 5967(+1.0%) | 3788(-0.3%) | 1262(+2.9%) | 931(-4.0%) | 1442(-7.2%) |
| **3.5m Barrier** | **<55** | **55-60** | **60-65** | **65-70** | **70-75** | **>75** |
| **Residents** | 119670(+0.1%) | 6060(+2.6%) | 3715(-2.2%) | 1256(+3.2%) | 931(-4.0%) | 1407(-9.5%) |
|  **No Barrier** | **45-50** | **50-55** | **55-60** | **60-65** | **65-70** | **>70** |
| **Residents** | 4993 | 4223 | 1076 | 1273 | 529 | 1234 |
| **2m Barrier** | **45-50** | **50-55** | **55-60** | **60-65** | **65-70** | **>70** |
| **Residents** | 5024(+0.6%) | 4325(+2.4%) | 1026(-4.7%) | 1292(+1.5%) | 502(-5.1%) | 1185(-4.0%) |
| **3.5m Barrier** | **45-50** | **50-55** | **55-60** | **60-65** | **65-70** | **>70** |
| **Residents** | 5086(+1.9%) | 4309(+2.0%) | 1041(-3.3%) | 1286(+1.0%) | 502(-5.1%) | 1131(-8.4%) |