

APPENDIX I

Appendix I Effectiveness Analysis

Road Name	Section	Sub-section	Mitigation Measures		Total No. of Dwellings Protected	Cost of Implementation (HK\$ × Million)	Approx. Average Noise Reduction at Mid-Floor dB(A)	Effectiveness Factor (Dwelling.dB(A)/HK\$) (×10 ⁻⁵)
			Form	Length				
Island Eastern Corridor	Tai Koo Shing	I	C	560	524	39.76	4.5	5.9
Tung Tau Tsuen Road	-	I	B	375	702	18.75	8.5	31.8
Che Kung Miu Road	-	I	B	200	28	10.00	1.4	0.4
			A	360	29	18.00	6.5	1.0
			C	280	714	19.88	2.4	8.6
Hung Mui Kuk Road	-	III	B	250	458	12.50	6.1	22.4
Tin Sum Street	-	IV	B	745	1471	37.25	6.3	24.9
Tai Chung Kiu Road	-	I	C	265	216	18.82	8.9	10.2
Yuen Wo Road	-	II	C	155	320	11.01	5.7	16.6
			C	190	312	13.49	5.9	13.6
Ma On Shan Road	-	I	A	210	28	10.50	5.5	1.5
			C	285	1520	20.24	6.9	51.8
			C	290	2132	20.59	8.1	83.9
Ting Kok Road	-	I	A	400	126	20.00	8.0	5.0
Po Lam Road North	-	I	A	190	24	9.5	6.0	1.5
			C	370	840	26.27	6.2	19.8
		II	C	380	1667	26.98	10.0	61.8
		III	C	340	372	24.14	3.6	5.5
		IV	C	320	1364	22.72	3.4	20.4
Po Hong Road	-	V	C	220	280	15.62	3.8	6.8

Road Name	Section	Sub-section	Mitigation Measures		Total No. of Dwellings Protected	Cost of Implementation (HK\$ × Million)	Approx. Average Noise Reduction at Mid-Floor dB(A)	Effectiveness Factor (Dwelling.dB(A)/HK\$) (×10 ⁻⁵)
			Form	Length				
Fung Shue Wo Road	-	I	A	320	66	16.00	9.7	4.0
			C	360	688	25.56	3.9	10.5
		II	A	410	66	20.5	10.4	3.3
			B	185	300	9.25	5.4	17.5
			C	150	588	10.65	4.0	22.1
Tuen Mun Road	Tsuen Wan	I	C	1100	861	78.10	13.2	14.6
	Tsing Lung Tau	II	C	700	828	49.70	12.8	21.3
	Castle Peak Bay	III	C	180	158	12.78	17.0	21.0
Castle Peak Road	Hung Shui Kiu	I	B	320	18	16.00	14.5	1.6
	Ping Shan	I	A	250	9	1.50	6.0	3.6
		II	A	130	14	6.50	2.5	0.5
Hiram's Highway	-	I	A	330	31	16.50	8.6	1.6
Tolo Highway	Ma Liu Shui	I	C	1470	330	104.37	17.2	5.4
	Tai Po Kau	II	C	420	21	29.82	8.5	0.6
Cheung Pei Shan Road	-	I	C	100	160	11.36	2.5	3.5
			C	135	180	12.78	6.8	9.6
			C	160	340	22.72	4.3	6.4
			C	70	120	9.94	4.8	5.8
			B	220	48	11.00	14.0	6.1
			B	260	51	13.00	13.0	5.1
Junk Bay Road	-	I	C	470	726	33.37	6.5	14.1
			C	655	2383	46.51	5.4	27.7

Legends: A - Plain barrier (3.5m) B - Plain barrier (7m) C - Semi-enclosure D - Full enclosure