

Appendix 4.5 Predicted Maximum 1-hour Average NO₂, 24-hour Average NO₂ and 24-hour Average RSP at the Representative ASRs

5-year Averaged Background (Yuen Long Station)

NO₂ = 60 µg/m³
RSP = 62 µg/m³
O₃ = 74 µg/m³

Total Traffic emission

ASRs	x	y	mAG	NO ₂		RSP
				1-hr	24-hr	24-hr
DIC	816128	826853	1.5	207	119	93
	816128	826853	5	207	119	93
	816128	826853	10	205	118	92
	816128	826853	15	204	118	92
SSE	815820	827004	1.5	210	120	96
	815820	827004	5	205	118	94
	815820	827004	10	194	114	89
	815820	827004	15	193	113	88
HFG	815772	827096	1.5	184	110	85
	815772	827096	5	181	108	84
	815772	827096	10	177	107	81
	815772	827096	15	176	106	80
KFG	816081	827161	1.5	211	120	96
	816081	827161	5	208	119	95
	816081	827161	10	199	115	91
	816081	827161	15	193	113	88
HG	816094	827195	1.5	194	113	88
	816094	827195	5	190	112	87
	816094	827195	10	185	110	85
	816094	827195	15	180	108	82
SST	815950	827099	1.5	218	123	98
	815950	827099	5	217	123	97
ABH	815874	827224	1.5	206	118	93
	815874	827224	5	205	118	92
	815874	827224	10	202	117	91
	815874	827224	15	200	116	90
SMS	815816	827249	1.5	203	117	92
	815816	827249	5	202	117	91
	815816	827249	10	199	115	90
	815816	827249	15	196	114	88
SLS	815839	827322	1.5	218	123	98
TSP	815997	827272	1.5	221	125	101
TTP	815982	827327	1.5	215	122	99
	815982	827327	5	213	121	98
	815982	827327	10	210	120	95
	815982	827327	15	208	119	94
HKG	815970	827372	1.5	218	123	99
	815970	827372	5	217	123	98
	815970	827372	10	213	121	96
	815970	827372	15	211	120	95
JCP	816029	827333	1.5	193	113	89
	816029	827333	5	191	113	88
	816029	827333	10	186	110	86
	816029	827333	15	184	110	85
HTG	816138	827336	1.5	178	107	83
	816138	827336	5	177	107	82
	816138	827336	10	173	105	80
	816138	827336	15	172	105	80
RG	816014	827390	1.5	192	113	88
	816014	827390	5	190	112	88
	816014	827390	10	185	110	86
	816014	827390	15	183	109	85
TA	815998	827502	1.5	205	118	94
	815998	827502	5	203	117	93
	815998	827502	10	197	115	90
	815998	827502	15	192	113	88

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ASRs	x	y	mAG	NO ₂		RSP
				1-hr	24-hr	24-hr
TWSP	815917	827492	1.5	259	139	117
CLFY	815902	827559	1.5	267	143	120
	815902	827559	5	253	137	114
	815902	827559	10	238	131	107
	815902	827559	15	236	131	107
TFH	815830	827536	1.5	229	127	102
	815830	827536	5	226	127	102
	815830	827536	10	220	124	99
	815830	827536	15	218	123	98
LCKP	815791	827469	1.5	254	138	114
	815791	827469	5	253	137	113
	815791	827469	10	238	131	107
	815791	827469	15	221	125	100
STF	815718	827490	1.5	213	121	98
	815718	827490	5	210	120	96
	815718	827490	10	200	116	92
	815718	827490	15	194	113	88
LCK	815810	827693	1.5	246	134	109
	815810	827693	5	250	136	110
	815810	827693	10	252	137	112
	815810	827693	15	249	136	110
SOC	815774	827773	1.5	265	142	117
	815774	827773	5	261	141	116
	815774	827773	10	249	136	110
	815774	827773	15	240	132	106
LBB	815881	827655	1.5	227	127	102
	815881	827655	5	225	126	102
	815881	827655	10	223	125	101
	815881	827655	15	220	124	99
LPB	815905	827704	1.5	199	116	90
	815905	827704	5	198	115	90
	815905	827704	10	195	114	89
	815905	827704	15	193	113	88
TKB	815861	827733	1.5	243	133	109
	815861	827733	5	246	135	110
	815861	827733	10	249	135	111
	815861	827733	15	243	133	109
TMF	815850	827774	1.5	260	140	116
	815850	827774	5	260	140	116
	815850	827774	10	256	139	114
	815850	827774	15	251	136	112
TMT	815648	828097	10	201	116	90
	815648	828097	15	198	115	89
TH	815837	827803	1.5	247	135	110
LWF	815744	827834	1.5	275	146	121
	815744	827834	5	269	143	119
	815744	827834	10	251	137	111
	815744	827834	15	240	132	106
NTM	815819	827993	1.5	206	118	94
	815819	827993	5	200	116	91
	815819	827993	10	194	114	89
	815819	827993	15	193	113	88
YOP	815868	827955	1.5	199	116	91
	815868	827955	5	195	114	89
	815868	827955	10	189	112	86
	815868	827955	15	187	111	85

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Total Traffic emission

ASRs	x	y	mAG	NO ₂		RSP
				1-hr	24-hr	24-hr
WG	815784	828027	1.5	246	135	110
	815784	828027	5	236	131	106
	815784	828027	10	210	120	95
	815784	828027	15	198	115	90
TMTP	815638	828325	10	245	134	108
	815638	828325	15	229	128	101
MON	815758	828293	1.5	213	121	97
	815758	828293	5	207	119	94
	815758	828293	10	199	115	90
MSB	815564	828437	1.5	224	126	100
	815564	828437	5	222	125	99
	815564	828437	10	215	122	96
	815564	828437	15	209	120	94
PC	815569	828464	1.5	224	126	100
	815569	828464	5	222	125	99
	815569	828464	10	217	123	97
	815569	828464	15	212	121	95
FHB	815573	828481	1.5	227	127	101
	815573	828481	5	225	126	100
	815573	828481	10	220	124	98
	815573	828481	15	215	122	96
FM	815584	828530	1.5	237	131	106
	815584	828530	5	235	130	105
	815584	828530	10	228	127	102
	815584	828530	15	224	126	100
SC	815689	828466	1.5	208	119	95
	815689	828466	5	204	118	93
	815689	828466	10	197	115	90
	815689	828466	15	194	114	88
HTB	815669	828500	1.5	211	121	96
	815669	828500	5	210	120	95
	815669	828500	10	204	118	92
	815669	828500	15	200	116	91
YOT	815591	828557	1.5	244	134	107
	815591	828557	5	239	132	105
	815591	828557	10	230	128	102
	815591	828557	15	226	127	101
SHM	815606	828673	8.5	278	147	121
OC	815680	828538	1.5	195	114	89
	815680	828538	5	193	113	88
	815680	828538	10	191	112	87
	815680	828538	15	189	112	86
GC	815669	828603	1.5	196	114	89
	815669	828603	5	196	114	89
	815669	828603	10	192	113	88
	815669	828603	15	190	112	87
FEC	815649	828684	1.5	199	116	90
	815649	828684	5	198	115	90
	815649	828684	10	195	114	88
	815649	828684	15	195	114	87
RDG	815676	828734	1.5	183	109	84
	815676	828734	5	182	109	84
	815676	828734	10	179	108	83
	815676	828734	15	177	107	81

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Total Traffic emission

ASRs	x	y	mAG	NO ₂		RSP
				1-hr	24-hr	24-hr
KHB	815668	828797	1.5	227	127	101
	815668	828797	5	211	121	94
	815668	828797	10	202	117	90
	815668	828797	15	202	117	90
PEN	815675	828829	1.5	225	126	100
	815675	828829	5	215	122	96
	815675	828829	10	200	116	89
	815675	828829	15	200	116	89
YLB	815621	828841	1.5	230	128	102
	815621	828841	5	228	127	101
	815621	828841	10	222	125	99
	815621	828841	15	221	124	98
EC	815556	828746	1.5	233	129	103
	815556	828746	5	232	129	103
	815556	828746	10	228	127	101
	815556	828746	15	225	126	100
TMC	815703	828946	1.5	208	119	93
	815703	828946	5	204	118	91
	815703	828946	10	197	115	89
	815703	828946	15	197	115	88
DST	815629	828908	1.5	221	125	98
	815629	828908	5	220	124	97
	815629	828908	10	214	122	95
	815629	828908	15	213	121	95
PAC	815636	828940	1.5	224	125	99
	815636	828940	5	222	125	98
	815636	828940	10	215	122	96
	815636	828940	15	215	122	95
PG	815935	827244	1.5	266	142	117
	815935	827244	5	263	141	116
	815935	827244	10	255	138	113
	815935	827244	15	253	137	112
PL	815734	827936	5	281	148	123
	815734	827936	10	247	135	109
	815734	827936	15	218	123	97

Note: Based on findings of on-site visit, there are no sensitive facades or fresh air intakes located below 10 metres above ground for ASRs TMT and TMTP facing Tuen Mun Road. Therefore, the minimum height of these ASRs for assessment is 10mAG. There is no openable window or fresh air intake found at Tuen Mun San Hui market facing Tuen Mun Road except the louvers underneath the roof floor. The minimum height of the louvers is 8.5mAG. There are no sensitive facades or fresh air intakes located below 5 metres above ground for ASR PL. Therefore, the minimum height for ASR PL is 5 metres above ground.