

Appendix 3-10 Comparison of Cumulative Impact Result of NO₂ Annual Average of Different Levels in “Without Project” in the Year of 2021, 2029 and 2036

Cumulative Results for Grid [25,30] - Without Project

PATH Grid	ASR ID	ASR Descriptions	X	Y	Z (m) ⁽¹⁾	2021			2029			2036			Differences between Predicted NO ₂ and the AOO ⁽²⁾								
						Max 1-hour Average	19 th Highest 1-hour Average	Annual Average	Max 1-hour Average	19 th Highest 1-hour Average	Annual Average	Max 1-hour Average	19 th Highest 1-hour Average	Annual Average	2021		2029		2036				
						µg/m ³	µg/m ³	No. of Exceedance	µg/m ³	µg/m ³	No. of Exceedance	µg/m ³	µg/m ³	No. of Exceedance	µg/m ³	µg/m ³	NO ₂ -19th 1hr	NO ₂ -Annual	NO ₂ -19th 1hr	NO ₂ -Annual	NO ₂ -19th 1hr	NO ₂ -Annual	
25_30	A017	Lai King Estate Ming King House	831029.9	823438.3	1.5	265.7	190.3	12	45.5	263.7	187.3	11	44.4	261.9	185.3	11	41.0	9.7	-5.5	12.7	-3.8	14.7	-1.9
25_30	A018	Lai King Estate Yat King House	831099.8	823436.2	1.5	266.2	191.0	12	45.3	264.2	187.8	11	44.4	262.3	186.4	10	42.2	9.0	-5.3	11.8	-4.4	13.5	-2.3
25_30	A019	HKEAA Lai King Assessment Centre	831031.0	823405.5	1.5	265.3	189.0	11	44.8	263.6	187.1	11	43.3	261.8	185.2	11	41.6	11.0	-4.8	12.9	-3.3	14.8	-1.6
25_30	A020	Lai King Restaurant Playground	831038.6	823364.8	1.5	264.8	188.0	11	44.8	263.2	186.4	11	42.5	261.2	185.1	10	41.1	12.0	-3.8	13.6	-2.5	14.9	-1.1
25_30	A021	Lai King Restaurant	831015.9	823355.3	1.5	263.9	186.8	11	43.6	262.5	186.5	11	42.3	256.4	184.9	10	41.0	13.2	-3.6	13.5	-2.3	15.1	-1.0
25_30	A023	Yuet Lai Court - Lai Hung House (Block D)	831142.7	823291.0	1.5	266.3	192.1	13	42.2	264.2	190.6	11	41.3	262.2	186.4	10	40.4	7.9	-2.2	9.4	-1.3	13.6	-0.4
25_30	A024	Yuet Lai Court - Lai Wah House (Block B)	831146.4	823206.1	1.5	265.2	191.2	12	41.7	263.5	190.1	10	40.9	261.7	186.2	10	40.2	8.8	-1.7	9.9	-0.9	13.8	-0.2
25_30	A025	Lai King Estate - Young King House	831032.9	823143.3	1.5	264.1	187.7	12	44.0	262.6	186.9	12	42.6	257.0	186.1	10	41.1	12.3	-4.0	13.1	-2.1	13.4	-1.1
25_30	A026	Lai King Estate - On King House	831007.1	823097.6	1.5	263.3	187.8	12	43.3	262.1	186.6	11	42.1	253.2	186.4	10	40.8	12.2	-3.3	13.4	-2.1	13.6	-0.8
25_30	A027	Lai King Estate - Flatted Factories	830996.8	823048.6	1.5	266.7	186.5	10	41.9	265.0	186.0	10	41.1	248.2	182.7	10	40.2	13.5	-1.9	14.0	-1.1	17.3	-0.2
25_30	A028	China Holiness College	831002.4	822964.3	1.5	247.9	183.7	10	40.7	247.7	182.3	10	40.1	247.5	181.1	10	39.6	16.3	-0.7	17.7	-0.1	18.9	0.4
25_30	A029	OUHK CITA Learning Centre	831102.8	823086.0	1.5	246.0	187.4	12	43.4	245.6	186.5	10	42.2	257.0	186.3	10	40.8	12.6	-3.4	13.5	-2.2	13.7	-0.8
25_30	A030	Lai King Community Hall	831112.4	823014.7	1.5	262.2	187.0	11	42.2	258.3	186.7	10	41.3	248.9	186.3	10	40.2	13.0	-2.2	13.3	-1.3	13.7	-0.2
25_30	A031	Asbury Methodist Primary School	831131.9	822963.2	1.5	250.3	186.4	11	41.6	249.5	186.1	10	40.0	248.6	184.7	10	40.0	13.6	-1.6	13.9	-0.8	15.3	0.0
25_30	A032	Mariners' Club	830866.0	822981.9	1.5	248.2	186.2	10	40.5	247.8	184.6	9	52.2	247.8	182.6	9	50.1	13.8	-2.1	15.4	-1.6	17.4	-10.1
25_30	A033	Container Terminal 2 Office	830756.6	823064.1	1.5	243.7	183.7	9	54.2	243.6	180.7	9	50.2	243.6	180.0	9	45.8	16.3	-14.2	19.3	-10.0	20.0	-5.8
25_30	A034	Container Terminal 2 Workshop	830761.5	823119.6	1.5	244.5	183.7	9	55.2	243.6	180.7	9	51.0	243.6	180.0	9	46.4	16.3	-15.2	19.3	-11.0	20.0	-6.4
25_30	A035	Container Terminal 5 Administration Building	830687.1	823361.0	16.5	243.6	183.7	10	49.4	243.6	180.7	9	45.5	243.6	180.0	9	43.6	16.3	-9.4	19.3	-6.5	20.0	-6.5
25_30	A036	Container Terminal 5 Godown	830701.0	823494.2	16.5	243.6	184.4	10	50.4	243.6	184.1	10	47.2	243.6	180.7	9	44.0	15.6	-10.4	15.9	-7.2	19.3	-4.0
25_30	A060	Cho Yiu Chuen Kai Min Lau	831240.8	823247.2	1.5	263.0	192.0	11	40.8	263.0	192.0	11	40.2	260.2	186.2	10	39.8	8.0	-0.8	9.6	-0.2	13.8	0.2
25_30	A061	Cho Yiu Chuen Kai Hang Lau	831225.6	823116.7	1.5	262.9	190.3	12	41.0	261.8	188.6	12	40.4	260.9	186.4	10	39.9	9.7	-1.0	11.4	-0.4	13.6	0.1
25_30	A062	Cho Yiu Chuen Chung Ling Sheh	831158.4	823053.9	1.5	266.8	190.6	12	41.3	265.6	189.2	11	40.6	264.6	186.5	10	39.4	9.4	-1.3	10.8	-1.6	14.5	0.2
25_30	A063	Lai King Estate - Lok King House (Block 7)	831044.9	823078.7	1.5	266.6	196.7	14	46.9	264.3	192.7	13	45.0	262.2	186.5	12	42.8	3.3	-6.9	7.3	-5.0	13.5	-2.8
25_30	A066	Yin Lai Court - Yin Kwong House (Block A)	831081.0	823350.3	1.5	263.7	188.3	11	44.5	263.0	186.8	11	43.0	261.9	185.5	10	41.4	11.7	-4.5	13.2	-3.0	14.5	-1.4
25_30	A067	Yin Lai Court - Yin Tak House (Block B)	831076.0	823318.2	1.5	265.3	187.9	11	44.3	263.5	186.8	11	42.8	261.8	185.4	10	41.3	12.1	-4.3	13.2	-2.8	14.6	-1.3
25_30	A070	Lai King Sports Centre	831181.3	823410.6	1.5	267.7	190.0	12	42.1	267.7	190.0	12	41.2	266.2	186.2	10	40.6	12.2	-4.6	13.2	-3.2	14.7	-0.4
25_30	A017	Lai King Estate Ming King House	831029.9	823438.3	5	264.86	189.3	11	44.8	263.18	186.9	11	43.2	261.38	185.1	11	41.6	10.7	-4.8	13.1	-3.2	14.9	-1.6
25_30	A018	Lai King Estate Yat King House	831099.8	823436.2	5	266.52	189.6	12	45.3	264.33	187.8	11	43.7	262.23	186.4	10	41.8	10.4	-5.3	12.2	-3.7	13.8	-1.8
25_30	A019	HKEAA Lai King Assessment Centre	831031.0	823405.5	5	264.64	187.9	11	44.2	263.04	186.5	11	42.8	260.42	185.1	11	41.2	12.1	-4.2	13.5	-2.8	14.9	-1.2
25_30	A021	Lai King Restaurant	831015.9	823355.3	5	263.54	186.6	11	43.1	262.26	186.2	11	41.9	254.26	185.0	10	40.7	13.4	-0.7	13.8	-1.9	17.0	-0.7
25_30	A023	Yuet Lai Court - Lai Hung House (Block D)	831142.7	823291.0	5	266.18	192.3	13	41.7	264.13	190.6	11	40.9	262.13	186.3	10	40.1	7.7	-1.7	9.4	-0.9	13.7	-0.1
25_30	A024	Yuet Lai Court - Lai Wah House (Block B)	831146.4	823206.1	5	265.22	191.3	12	41.4	263.45	190.1	12	40.7	261.73	185.9	10	40.0	8.7	-1.4	9.9	-0.7	14.1	0.0
25_30	A025	Lai King Estate - Young King House	831032.9	823143.3	5	263.52	187.1	12	43.2	262.28	186.8	11	42.1	254.30	186.5	10	40.8	12.9	-3.2	13.2	-2.1	13.5	-0.8
25_30	A026	Lai King Estate - On King House	831007.1	823097.6	5	262.86	186.7	11	42.6	261.00	186.6	10	41.6	249.33	184.8	10	40.5	13.3	-2.6	13.4	-1.6	15.2	-0.5
25_30	A027	Lai King Estate - Flatted Factories	830996.8	823048.6	5	261.82	184.9	10	41.4	248.33	184.4	10	40.7	247.91	182.0	10	39.9	15.1	-1.4	15.6	-0.7	18.0	0.1
25_30	A028	China Holiness College	831002.4	822964.3	5	247.64	182.4	10	40.5	247.27	182.2	10	40.0	245.94	180.4	10	39.5	17.6	-0.5	17.8	0.0	19.6	0.5
25_30	A029	OUHK CITA Learning Centre	831102.8	823086.0	5	263.20	186.9	11	42.2	262.28	186.4	10	41.3	254.30	185.4	10	40.2	13.1	-2.2	13.6	-1.3	14.6	-0.2
25_30	A030	Lai King Community Hall	831112.4	823014.7	5	262.00	186.8	11	41.4	256.80	186.4	10	40.7	248.78	184.9	10	39.9	13.2	-1.4	13.6	-0.7	15.1	0.1
25_30	A031	Asbury Methodist Primary School	831131.9	822963.2	5	260.00	186.3	11	40.9	249.23	185.1	10	40.3	248.43	184.6	10	39.7	13.7	-0.9	14.9	-0.3	15.4	0.3
25_30	A032	Mariners' Club	830866.0	822981.9	5	247.81	183.2	10	40.8	247.58	181.9	9	54.4	245.94	180.9	9	48.8	16.8	-18.9	18.1	-14.4	19.1	-8.8
25_30	A033	Container Terminal 2 Office	830756.6	823064.1	5	243.64	183.7	9	53.7	243.64	180.5	9	49.8	243.64	180.0	9	45.6	16.3	-13.7	19.5	-11.9	20.0	-5.6
25_30	A034	Container Terminal 2 Workshop	830761.5	823119.6	5	244.12	183.7	9	54.6	243.64	180.5	9	50.6	243.64	180.0	9	46.1	16.3	-14.6	19.5	-10.6	20.0	-6.1
25_30	A035	Container Terminal 5 Administration Building	830687.1	823361.0	20	243.64	182.7	10	48.6	243.64	180.0	9	45.9	243.64	180.0	9	43.1	17.3	-8.6	20.0	-5.9	20.0	-3.1
25_30	A036	Container Terminal 5 Godown	830701.0	823494.2	20	243.64	184.2	10	49.1	243.64	183.4	10	46.3	243.64	180.0	9	43.4	15.8	-9.1	16.6	-6.3	20.0	-3.4
25_30	A060	Cho Yiu Chuen Kai Min Lau	831240.8	823247.2	5	264.47	191.6	11	40.6	262.94	189.3	11	40.1	259.66	186.2	10	39.7	8.4	-0.6	10.7	-0.1	13.8	0.3
25_30	A061	Cho Yiu Chuen Kai Hang Lau	831225.6	823116.7	5	262.74	190.3	12	40.6	261.76	187.9	12	40.1	259.09	186.4	10	39.7	9.7	0.6</				

Appendix 3-10 Comparison of Cumulative Impact Result of NO₂ Annual Average of Different Levels in "Without Project" in the Year of 2021, 2029 and 2036

Cumulative Results for Grid [25,31] - Without Project

PATH Grid	ASR ID	ASR Descriptions	X	Y	Z (m) ¹	2021			2029			2036			Differences between Predicted NO ₂ and the AQO ¹								
						Max 1-hour Average	19 th Highest 1-hour Average	Annual Average	Max 1-hour Average	19 th Highest 1-hour Average	Annual Average	Max 1-hour Average	19 th Highest 1-hour Average	Annual Average	2021		2029		2036				
						µg/m ³	µg/m ³ No. of Exceedance	µg/m ³	µg/m ³	µg/m ³ No. of Exceedance	µg/m ³	µg/m ³	µg/m ³ No. of Exceedance	µg/m ³	µg/m ³	µg/m ³ No. of Exceedance	NO ₂ -19th 1hr	NO ₂ -Annual	NO ₂ -19th 1hr	NO ₂ -Annual	NO ₂ -19th 1hr	NO ₂ -Annual	
25_31	A001	Kwai Tsing Theatre	831041.6	824134.6	1.5	265.2	191.1	13	40.8	262.8	187.9	13	38.5	259.1	184.9	13	35.6	8.9	-0.8	12.1	1.5	15.1	4.4
25_31	A003	Kwai Tsing District Police Headquarters & Divisional Police Station	831350.0	824183.2	1.5	269.7	188.7	13	39.6	267.4	182.7	13	37.3	264.5	179.8	12	34.5	11.3	0.4	17.3	2.7	20.2	5.5
25_31	A004	Proposed Residential (Group E) 1 Development at Ex-Kwai Chung Police Married Quarters at Kwai Yi Road	831363.5	824097.8	1.5	267.9	187.6	13	46.4	265.9	181.4	13	42.3	256.3	180.2	12	37.6	12.4	-6.4	18.6	-2.3	19.8	2.4
25_31	A005	Kwai Fong Terrace Block 2	831290.7	824014.5	16.4	265.4	187.8	13	37.3	263.5	180.4	13	35.5	252.1	178.8	12	33.5	12.2	2.7	19.6	4.5	21.2	6.5
25_31	A006	Kwai Yi Road Playground & Sports Ground	831262.6	823970.9	1.5	265.2	190.0	13	49.7	262.9	187.6	13	44.9	256.9	182.7	13	39.5	10.0	-9.7	12.4	-4.9	17.3	0.5
25_31	A007	Tin Hau Temple	831371.1	824034.2	1.5	271.6	196.6	16	42.7	269.7	192.5	14	40.6	264.9	188.3	13	36.6	3.4	-2.7	7.5	0.0	11.7	3.4
25_31	A011	Lingnam Dr. Chung Wing Kwong Memorial Secondary School	831160.7	823770.7	1.5	267.3	197.3	14	43.3	264.2	193.4	13	40.3	261.2	186.4	13	36.6	2.7	-3.3	6.6	-0.3	13.6	3.4
25_31	A012	Lai King Catholic Secondary School	831130.4	823751.5	1.5	268.6	198.2	16	44.3	265.1	193.4	14	41.2	261.7	187.0	13	37.3	1.8	-4.3	6.6	-1.2	13.0	2.7
25_31	A013	Ho Kwai Chung Polyclinic & Special Education Services Centre	831224.3	823707.5	1.5	268.3	197.1	15	42.0	265.2	194.0	14	39.8	261.9	187.8	13	36.6	2.9	-2.0	6.0	0.2	12.2	3.4
25_31	A014	Lai King Hill Road North Sitting-out Area	831178.6	823604.5	1.5	264.4	193.9	14	43.5	262.4	187.6	14	40.5	255.2	185.6	13	36.4	6.1	-3.5	12.4	-0.5	14.4	3.6
25_31	A015	Lai King Estate Wo King House	831121.4	823592.1	1.5	265.0	194.6	14	41.9	262.7	190.5	13	39.1	256.4	185.7	13	35.7	5.4	-1.9	9.5	0.9	14.3	4.3
25_31	A016	Lai King Estate Fung King House	831067.5	823562.2	1.5	265.6	193.7	13	41.0	263.1	188.3	13	38.5	259.4	185.9	13	35.5	6.3	-1.0	11.7	1.5	14.1	4.5
25_31	A037	Container Terminal 5 Office	830624.1	823625.6	1.5	243.1	189.1	13	50.5	241.3	185.7	12	44.5	240.1	182.7	11	39.1	10.9	-10.5	14.3	-4.5	17.3	0.9
25_31	A038	Fidelity Godown	830714.3	823729.0	1.5	262.9	187.4	13	47.7	261.1	182.6	12	42.8	246.6	180.9	12	38.1	12.6	-7.7	17.4	-2.8	19.1	1.9
25_31	A039	Karry (Kwai Chung) Godown	830766.8	823705.1	1.5	263.0	188.4	13	48.7	261.1	183.7	13	43.6	246.2	181.3	12	38.7	11.6	-8.7	16.3	-3.6	18.7	1.3
25_31	A040	Cargo Consolidation Complex	830794.1	823681.4	21.3	244.8	181.7	13	39.7	242.9	180.8	12	37.0	241.3	179.8	12	34.3	18.3	0.3	19.2	3.0	20.2	5.7
25_31	A041	Ever Gain Plaza Tower 1	830872.8	823701.0	47.9	240.6	180.2	12	33.3	240.0	179.0	12	32.4	239.5	177.9	11	31.4	19.8	6.7	21.0	7.6	22.1	8.6
25_31	A042	Ever Gain Plaza Tower 2	830904.7	823798.4	47.9	250.4	180.0	12	33.2	239.9	179.6	12	32.4	238.7	179.1	11	31.5	20.0	6.6	20.4	7.6	20.9	8.5
25_31	A043	Kwai Shun Industrial Centre North Tower	830863.1	823846.0	1.5	261.1	186.8	13	53.2	250.4	184.3	12	47.2	239.4	182.0	12	41.2	13.2	-13.2	15.7	-7.2	18.0	-1.2
25_31	A044	Golden Industrial Building	830815.4	823864.2	1.5	261.3	185.7	12	49.0	251.8	182.9	12	43.9	239.5	180.3	12	38.6	14.3	-9.0	17.1	-3.9	18.7	1.4
25_31	A045	Kwai Shun Street Cooked Food Market	830839.2	823900.8	1.5	261.2	185.8	12	49.2	251.0	183.2	12	44.3	239.5	181.3	12	38.9	14.2	-9.2	16.8	-4.3	18.7	1.1
25_31	A046	Kwai Shun Street Playground	830821.6	823933.5	1.5	260.7	185.7	13	48.7	250.7	182.9	12	44.1	239.5	181.4	12	38.8	14.3	-8.7	17.1	-4.1	18.6	1.2
25_31	A047	Kwai Tak Industrial Building Block 2	830787.8	823924.4	1.5	267.3	185.3	12	48.8	244.7	182.4	12	43.9	239.6	181.4	12	38.5	14.7	-8.8	17.8	-3.9	18.6	1.5
25_31	A048	Profit Industrial Building	830871.9	823970.5	1.5	265.9	196.6	16	44.8	263.4	194.3	15	41.5	260.7	185.9	13	37.8	3.4	-4.8	5.7	-1.5	14.1	2.2
25_31	A049	Join-in Hang Sing Centre	830959.1	823952.6	1.5	266.4	196.6	15	47.0	263.7	189.2	13	43.1	261.1	185.2	13	39.0	3.4	-7.0	10.8	-3.1	14.8	1.0
25_31	A050	Petrol Station Office at Container Port Road	830985.3	823920.0	1.5	267.0	197.4	14	44.1	264.7	190.5	13	40.9	261.8	186.2	13	37.3	2.6	-4.1	9.5	-0.9	13.8	2.7
25_31	A051	Marvel Industrial Building Block B	830815.4	824045.5	5.5	267.2	197.6	14	44.8	264.3	193.9	14	41.6	261.2	186.5	13	37.7	2.4	-4.8	6.1	-1.6	13.5	2.3
25_31	A052	Wing Hang Industrial Building	830774.6	824161.2	7.5	261.3	186.7	13	42.6	256.7	185.5	13	39.6	241.4	180.2	12	36.3	13.3	-2.8	14.5	0.4	19.8	3.7
25_31	A053	Kwai Shing Swimming Pool	830744.3	824375.0	1.5	261.7	177.2	12	47.6	255.4	177.2	12	35.8	241.6	177.2	12	34.0	22.8	2.4	22.8	4.2	22.8	6.0
25_31	A054	Shing Shing Basketball Court	830728.9	824258.1	1.5	262.7	184.9	13	38.9	261.4	180.7	13	36.8	246.7	176.1	11	34.9	15.1	1.2	17.9	-1.4	19.3	2.8
25_31	A055	Kwai Chung Sports Ground	830939.9	824258.1	1.5	262.8	177.2	12	35.0	261.1	181.4	13	41.9	246.6	180.2	12	37.7	12.6	-5.0	18.8	-4.9	19.8	2.3
25_31	A056	Kwai Chung Plaza Block 1	831136.3	824345.1	1.5	265.7	189.3	13	38.3	263.0	186.6	13	36.5	261.0	183.2	12	34.3	10.7	1.7	13.4	3.5	21.9	5.7
25_31	A057	New Kwai Fong Gardens Block A	831183.9	824086.6	1.5	270.8	191.8	13	41.9	268.0	188.4	13	39.3	265.7	180.2	13	36.3	8.2	-1.9	11.6	0.7	19.8	3.7
25_31	A058	Hibiscus Park Block 2	830922.6	824012.9	5.1	260.7	178.1	12	35.2	247.0	178.1	12	33.9	238.0	176.1	11	31.9	21.9	4.8	21.9	6.1	21.9	7.4
25_31	A054	Wing Hong Factory Building	830882.5	824034.6	1.5	265.4	194.7	14	43.8	265.7	190.2	13	40.8	258.0	185.8	13	37.2	5.3	-3.8	9.8	-0.8	14.2	2.8
25_31	A065	Metropia Tower 2	831049.0	824241.6	1.5	264.4	187.6	13	38.9	262.3	184.5	13	36.9	256.0	178.9	12	34.4	12.4	1.1	15.5	3.1	21.1	5.6
25_31	A068	Wah Fung Industrial Centre	830931.7	824126.4	6.5	264.2	188.6	13	41.8	262.1	181.3	13	39.0	252.9	179.6	12	35.8	11.4	-1.8	18.7	1.0	20.4	4.2
25_31	A069	Fook Yip Building	831019.3	824035.8	1.8	264.9	190.6	13	46.2	262.8	187.1	13	42.3	264.0	184.4	13	38.1	9.4	-8.2	12.9	-2.3	15.6	1.9
25_31	A001	Kwai Tsing Theatre	831041.6	824134.6	5	264.7	190.6	13	40.2	262.5	187.2	13	37.9	266.2	184.7	13	35.2	9.4	-0.2	12.8	2.1	15.3	4.8
25_31	A003	Kwai Tsing District Police Headquarters & Divisional Police Station	831350.0	824183.2	5	269.6	188.1	13	39.1	267.3	181.6	13	36.9	263.7	179.8	12	34.7	11.9	0.9	18.4	3.1	20.2	5.8
25_31	A004	Proposed Residential (Group E) 1 Development at Ex-Kwai Chung Police Married Quarters at Kwai Yi Road	831363.5	824097.8	5	267.9	187.5	13	43.1	265.9	180.9	13	39.8	266.2	179.7	12	36.1	12.5	-3.1	19.1	0.2	20.3	3.9
25_31	A005	Kwai Fong Terrace Block 2	831290.7	824014.5	19.9	265.4	184.4	13	36.2	263.5	178.8	13	34.7	261.3	178.7	12	33.0	15.6	3.8	21.2	5.3	21.3	7.0
25_31	A007	Tin Hau Temple	831371.1	824034.2	5	271.6	192.2	14	39.9	267.6	189.4	13	37.8	263.8	178.6	12	35.1	7.8	0.1	10.6	2.2	14.4	4.9
25_31	A011	Lingnam Dr. Chung Wing Kwong Memorial Secondary School	831160.7	823770.7	5	267.0	196.8	14	42.7	263.9	193.0	13	39.9	261.1	186.3	13	36.3	3.2	-2.7	7.0	0.1	13.7	3.7
25_31	A012	Lai King Catholic Secondary School	831130.4	823751.5	5	268.1	197.2	14	43.6	264.7	193.2	13	40.5	261.5	186.7	13	36.8	2.8	-3.6	6.8	-0.5	13.3	3.2
25_31	A013	Ho Kwai Chung Polyclinic & Special Education Services Centre	831224.3	823707.5	5	264.9	192.9	13	38.9	262.7	188.0	13	37.0	267.9	185.9	12	34.5	7.1	1.1	12.0	3.0	14.1	5.5
25_31	A015	Lai King Estate Wo King House	831121.4	823592.1	5	264.2	193.8	14	40.8	262.1	187.2	13	38.2	252.4	185.4	13	35.1	6.2	-0.8	12.8	1.8	14.6	4.9
25_31	A016	Lai King Estate Fung King House	831067.5	823562.2	5	263.7	188.8	13	39.8	261.8	187.1	13	37.5	260.1	180.0	13	34.8	11.2	0.2	12.9	2.5	20.0	5.2
25_31	A037	Container Terminal 5 Office	830624.1	823625.6	5	241.4	188.4	13	47.9	240.3	185.0	11	42.9	239.6	182.0	11	38.1	11.6	-7.9	15.0	-2.9	18.0	1.9
25_31	A038	Fidelity Godown	830714.3	823729.0	5	262.6	187.3	13	45.2	260.9	182.1	12	41.4	245.4	180.7	12	37.2	12.7	-5.7	17.9	-1.4	19.3	2.8
25_31	A039	Karry (Kwai Chung) Godown	830766.8	823705.1	5	262.7	187.3	13	45.9	260.9	183.2	12	42.3	244.9	181.0	12	37.8	12.7	-6.9	16.8	-2.3		

Cumulative Results for Grid [25,31] - Without Project

PATH Grid	ASR ID	ASR Descriptions	X	Y	Z (m) ⁽¹⁾	2021			2029			2036			Differences between Predicted NO ₂ and the AQO ⁽²⁾								
						Max 1-hour Average	19 th Highest 1-hour Average	Annual Average	Max 1-hour Average	19 th Highest 1-hour Average	Annual Average	Max 1-hour Average	19 th Highest 1-hour Average	Annual Average	2021		2029		2036				
						µg/m ³	µg/m ³	No. of Exceedance	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	No. of Exceedance	µg/m ³	NO ₂ -19th 1hr	NO ₂ -Annual	NO ₂ -19th 1hr	NO ₂ -Annual	NO ₂ -19th 1hr
25_31	A001	Kwai Tsing Theatre	831041.6	824134.6	10	<u>263.6</u>	189.2	13	38.8	<u>261.8</u>	186.4	13	36.8	<u>250.3</u>	183.6	12	34.4	10.8	1.2	13.6	3.2	16.4	5.6
25_31	A003	Kwai Tsing District Police Headquarters & Divisional Police Station	831350.0	824183.2	10	<u>269.4</u>	185.4	13	37.7	<u>267.3</u>	181.6	13	35.8	<u>262.0</u>	179.8	12	33.6	14.6	2.3	18.4	4.2	20.2	6.4
25_31	A004	Ex-Kwai Chung Police Married Quarters at Kwai Yi Road	831363.5	824097.8	10	<u>267.9</u>	187.3	13	39.1	<u>266.0</u>	179.8	13	36.8	<u>255.9</u>	179.1	12	34.3	12.7	0.9	20.2	3.2	20.9	5.7
25_31	A005	Kwai Fong Terrace Block 2	831290.7	824014.5	24.9	<u>265.4</u>	180.6	13	35.2	<u>263.6</u>	178.6	13	33.9	<u>250.3</u>	178.6	11	32.4	19.4	4.8	21.4	6.1	21.4	7.6
25_31	A007	Tin Hau Temple	831371.1	824034.2	10	<u>268.5</u>	187.9	13	37.5	<u>265.5</u>	179.8	13	35.8	<u>262.7</u>	178.6	11	33.7	12.1	2.5	20.2	4.2	21.4	6.3
25_31	A011	Lingnam Dr. Chung Wing Kwong Memorial Secondary School	831160.7	823770.7	10	<u>266.0</u>	195.6	13	41.2	<u>263.3</u>	191.9	13	38.6	<u>260.8</u>	185.9	13	35.5	4.4	-1.2	8.1	1.4	14.1	4.5
25_31	A012	Lai King Catholic Secondary School	831130.4	823751.5	10	<u>262.8</u>	195.5	14	41.8	<u>263.7</u>	191.1	13	39.2	<u>261.0</u>	186.2	13	35.9	4.5	-1.8	8.9	0.8	13.8	4.1
25_31	A013	Ho Kwai Chung Polyclinic & Special Education Services Centre	831224.3	823707.5	10	<u>262.8</u>	187.6	13	36.5	<u>261.2</u>	186.2	13	34.9	<u>246.0</u>	184.8	11	33.1	12.4	3.5	13.8	5.1	15.2	6.9
25_31	A015	Lai King Estate Wo King House	831121.4	823592.1	10	<u>262.9</u>	188.0	13	38.8	<u>261.3</u>	186.5	13	36.6	<u>246.2</u>	183.3	11	34.1	12.0	1.2	13.5	3.4	16.7	5.9
25_31	A016	Lai King Estate Fung King House	831067.5	823562.2	10	<u>261.7</u>	187.0	13	38.2	<u>256.4</u>	180.6	13	36.2	<u>242.4</u>	179.0	12	33.9	13.0	1.8	19.4	3.8	21.0	6.1
25_31	A037	Container Terminal 5 Office	830624.1	823623.6	10	<u>239.7</u>	193.5	12	46.7	<u>239.3</u>	181.4	11	42.1	<u>239.3</u>	180.8	11	37.6	16.5	-6.7	18.6	-2.1	19.2	2.4
25_31	A038	Fidelity Godown	830714.3	823729.0	10	<u>261.9</u>	196.9	13	44.1	<u>257.1</u>	181.8	12	40.3	<u>241.6</u>	180.4	12	36.4	13.1	-4.1	18.2	-0.3	19.6	3.6
25_31	A039	Karry (Kwai Chung) Godown	830766.8	823705.1	10	<u>262.0</u>	186.7	13	44.8	<u>257.3</u>	182.7	12	40.8	<u>241.3</u>	180.7	12	36.8	15.3	-4.9	17.3	-0.9	19.3	3.2
25_31	A040	Cargo Consolidation Complex	830794.1	823681.4	29.8	<u>243.8</u>	186.8	12	36.7	<u>242.3</u>	180.2	12	34.8	<u>240.9</u>	178.2	11	32.9	19.2	3.3	19.8	5.2	21.8	7.1
25_31	A041	Ever Gain Plaza Tower 1	830872.8	823701.0	56.4	<u>246.0</u>	181.0	12	33.0	<u>240.3</u>	179.7	11	32.2	<u>239.7</u>	178.3	11	31.3	19.0	7.0	20.3	7.8	21.7	8.7
25_31	A042	Ever Gain Plaza Tower 2	830904.7	823798.4	56.4	<u>256.4</u>	180.8	12	32.9	<u>243.7</u>	180.2	12	32.2	<u>239.1</u>	179.5	11	31.4	19.2	7.1	19.8	7.8	20.5	8.6
25_31	A043	Kwai Shun Industrial Centre North Tower	830863.1	823846.0	10	<u>261.0</u>	183.6	12	46.3	<u>248.9</u>	182.1	12	42.0	<u>239.3</u>	181.1	12	37.4	16.4	-6.3	17.9	-2.0	18.9	2.6
25_31	A044	Golden Industrial Building	830819.5	823864.2	10	<u>260.9</u>	183.6	12	45.2	<u>248.5</u>	181.7	12	41.1	<u>239.3</u>	180.8	12	36.8	16.4	-5.2	18.3	-1.1	19.2	3.2
25_31	A045	Kwai Shun Street Cooked Food Market	830839.2	823900.8	10	<u>260.6</u>	184.2	12	47.1	<u>246.8</u>	182.0	12	42.7	<u>239.3</u>	181.0	12	37.8	15.8	-7.1	18.0	-2.7	19.0	2.2
25_31	A047	Kwai Tak Industrial Building Block 2	830787.8	823924.4	10	<u>253.9</u>	182.9	12	45.3	<u>242.6</u>	181.9	12	41.3	<u>239.4</u>	180.8	12	36.9	17.1	-5.3	18.1	-1.3	19.2	3.1
25_31	A048	Profit Industrial Building	830871.9	823970.7	10	<u>265.4</u>	194.7	15	43.5	<u>263.0</u>	189.9	13	40.7	<u>258.5</u>	185.0	13	37.2	5.3	-3.5	11.1	-0.7	15.0	2.8
25_31	A049	Join-in Hang Sing Centre	830959.1	823952.6	10	<u>265.0</u>	189.9	13	42.4	<u>262.9</u>	187.1	13	39.6	<u>253.3</u>	184.0	12	36.3	10.1	-2.4	12.9	0.4	16.0	3.7
25_31	A050	Petrol Station Office at Container Port Road	830985.3	823920.0	10	<u>266.5</u>	191.4	13	42.0	<u>263.8</u>	187.8	13	39.2	<u>261.4</u>	184.7	13	36.1	8.6	-2.0	12.2	0.8	15.3	3.9
25_31	A051	Marvel Industrial Building Block B	830815.4	824045.5	14	<u>263.0</u>	187.8	13	40.4	<u>261.3</u>	186.4	13	37.9	<u>246.4</u>	183.9	12	35.1	12.2	-0.4	13.6	2.1	16.1	4.9
25_31	A052	Wing Hang Industrial Building	830774.6	824161.2	16	<u>248.5</u>	185.2	13	38.4	<u>244.8</u>	181.9	12	36.3	<u>240.5</u>	179.6	12	34.0	14.8	1.6	18.1	3.7	20.4	6.0
25_31	A053	Kwai Shing Swimming Pool	830744.3	824375.0	10	<u>257.9</u>	177.2	12	35.9	<u>244.9</u>	177.2	12	34.4	<u>239.6</u>	177.2	12	32.9	22.8	4.1	22.8	5.6	22.8	7.1
25_31	A056	Kwai Chung Plaza Block 1	831136.3	824345.1	10	<u>264.1</u>	179.4	12	35.8	<u>262.1</u>	178.1	12	34.5	<u>254.3</u>	178.1	12	32.8	20.6	4.2	21.9	5.5	21.9	7.2
25_31	A057	New Kwai Fong Gardens Block A	831183.9	824086.6	10	<u>269.2</u>	188.8	13	38.8	<u>267.0</u>	181.5	13	36.8	<u>260.4</u>	179.6	12	34.3	11.2	1.2	18.5	3.2	20.4	5.7
25_31	A058	Hibiscus Park Block 2	830902.8	824410.2	13.6	<u>255.9</u>	178.1	12	34.6	<u>244.3</u>	178.1	12	33.5	<u>236.8</u>	178.0	12	32.2	21.9	5.4	21.9	6.5	22.0	7.8
25_31	A064	Wing Hong Factory Building	830882.5	824034.6	10	<u>263.7</u>	191.2	13	41.5	<u>261.8</u>	187.0	13	38.9	<u>249.7</u>	184.5	13	35.8	8.8	-1.5	13.0	1.1	15.5	4.2
25_31	A065	Metrolapaz Tower 2	831049.0	824241.6	10	<u>263.9</u>	186.8	13	37.7	<u>261.9</u>	179.1	13	35.9	<u>253.1</u>	178.8	12	33.8	13.2	2.3	20.9	4.1	21.2	6.2
25_31	A068	Wah Fung Industrial Centre	830931.7	824126.4	15	<u>263.0</u>	179.8	13	38.4	<u>261.3</u>	179.5	13	36.4	<u>246.6</u>	179.1	12	34.1	20.2	1.6	20.5	3.6	20.9	5.9
25_31	A069	Fook Yip Building	831019.3	824035.8	10.3	<u>264.0</u>	187.6	13	40.8	<u>262.3</u>	185.9	13	38.3	<u>247.1</u>	179.8	12	35.3	12.4	-0.8	14.1	1.7	20.2	4.7

- Note:
- The heights Z are 1.5m, 5m and 10m above ground, except some heights of ASRs which are podium or in higher terrain such as buildings in hilly region have been adjusted.
 - AQO requirements:

NO ₂ 1-hour average	200 µg/m ³ with less than	19 exceedance
NO ₂ Annual average	40 µg/m ³	
 - Underlined means the pollutant concentration has exceeded the AQO limit.
 - Positive value is well within the AQO. Negative value exceeds the AQO.

Appendix 3-10 Comparison of Cumulative Impact Result of NO₂ Annual Average of Different Levels in “Without Project” in the Year of 2021, 2029 and 2036

Cumulative Results for Grid [26,30] - Without Project

PATH Grid	ASR ID	ASR Descriptions	X	Y	Z (m) ¹⁾	2021			2029			2036			Differences between Predicted NO ₂ and the AQO ³⁾								
						Max 1-hour Average	19 th Highest 1-hour Average	Annual Average	Max 1-hour Average	19 th Highest 1-hour Average	Annual Average	Max 1-hour Average	19 th Highest 1-hour Average	Annual Average	2021		2029		2036				
						µg/m ³	µg/m ³	No. of Exceedance	µg/m ³	µg/m ³	No. of Exceedance	µg/m ³	µg/m ³	No. of Exceedance	µg/m ³	µg/m ³	No. of Exceedance	µg/m ³	NO ₂ -19th 1hr	NO ₂ -Annual	NO ₂ -19th 1hr	NO ₂ -Annual	NO ₂ -19th 1hr
26_30	A059	Highland Park Block 6	831427.6	823491.1	3.3	<u>266.1</u>	184.4	7	29.7	<u>265.2</u>	178.9	5	29.4	<u>255.1</u>	174.2	5	29.1	15.6	10.3	21.1	10.6	25.8	10.9
26_30	A059	Highland Park Block 6	831427.6	823491.1	8.8	<u>266.1</u>	184.2	7	29.7	<u>265.2</u>	178.5	5	29.3	<u>255.1</u>	174.4	5	29.0	15.8	10.3	21.5	10.7	25.6	11.0
26_30	A059	Highland Park Block 6	831427.6	823491.1	11.8	<u>266.1</u>	184.2	7	29.6	<u>265.2</u>	178.5	5	29.3	<u>255.1</u>	174.4	5	29.0	15.8	10.4	21.5	10.7	25.6	11.0

- Note:
- The heights Z are 1.5m, 5m and 10m above ground, except some heights of ASRs which are podium or in higher terrain such as buildings in hilly region have been adjusted.
 - AQO requirements:

NO2 1-hour average	200 µg/m ³ with less than	19 exceedance
NO2 Annual average	40 µg/m ³	
 - Underlined means the pollutant concentration has exceeded the AQO limit.
 - Positive value is well within the AQO. Negative value exceeds the AQO.

Appendix 3-10 Comparison of Cumulative Impact Result of NO₂ Annual Average of Different Levels in “Without Project” in the Year of 2021, 2029 and 2036

Cumulative Results for Grid [26,31] - Without Project

PATH Grid	ASR ID	ASR Descriptions	X	Y	Z (m) ⁽¹⁾	2021			2029			2036			Differences between Predicted NO ₂ and the AQO ⁽²⁾								
						Max 1-hour Average	19 th Highest 1-hour Average		Annual Average	Max 1-hour Average	19 th Highest 1-hour Average		Annual Average	Max 1-hour Average	19 th Highest 1-hour Average		Annual Average	2021		2029		2036	
							μg/m ³	μg/m ³			No. of Exceedance	μg/m ³			μg/m ³	μg/m ³		No. of Exceedance	μg/m ³	μg/m ³	μg/m ³	No. of Exceedance	μg/m ³
26_31	A008	Lai Yiu Estate Fu Yiu House	831430.8	823909.0	1.5	<u>260.2</u>	182.9	8	30.4	<u>249.1</u>	181.6	8	29.2	<u>242.5</u>	180.2	7	28.1	17.1	9.6	18.4	10.8	19.8	11.9
26_31	A009	TWGHs Ko Ho Ning Memorial Primary School	831411.2	823810.7	1.5	<u>260.1</u>	182.8	8	29.5	<u>247.4</u>	181.5	8	28.6	<u>242.4</u>	180.2	7	27.6	17.2	10.5	18.5	11.4	19.8	12.4
26_31	A010	Kwai Chung Methodist College	831447.6	823708.8	1.5	<u>259.3</u>	181.8	8	28.8	<u>242.9</u>	180.8	8	28.0	<u>242.1</u>	179.8	7	27.3	18.2	11.2	19.2	12.0	20.2	12.7
26_31	A008	Lai Yiu Estate Fu Yiu House	831430.8	823909.0	5	<u>260.3</u>	182.9	9	30.1	<u>249.1</u>	181.6	8	29.0	<u>242.5</u>	180.2	7	27.9	17.1	9.9	18.4	11.0	19.8	12.1
26_31	A009	TWGHs Ko Ho Ning Memorial Primary School	831411.2	823810.7	5	<u>260.0</u>	182.7	8	29.3	<u>246.8</u>	181.4	8	28.4	<u>242.4</u>	180.1	7	27.5	17.3	10.7	18.6	11.6	19.9	12.5
26_31	A010	Kwai Chung Methodist College	831447.6	823708.8	5	<u>261.2</u>	181.7	8	28.5	<u>242.8</u>	180.7	8	27.8	<u>242.1</u>	179.7	7	27.2	18.3	11.5	19.3	12.2	20.3	12.8
26_31	A008	Lai Yiu Estate Fu Yiu House	831430.8	823909.0	10	<u>260.2</u>	182.9	9	29.4	<u>248.5</u>	181.5	8	28.5	<u>242.2</u>	180.2	7	27.6	17.1	10.8	18.5	11.5	19.8	12.4
26_31	A009	TWGHs Ko Ho Ning Memorial Primary School	831411.2	823810.7	10	<u>259.4</u>	182.5	8	28.9	<u>245.5</u>	181.3	8	28.1	<u>242.3</u>	180.0	7	27.3	17.5	11.1	18.7	11.9	20.0	12.7
26_31	A010	Kwai Chung Methodist College	831447.6	823708.8	10	<u>249.3</u>	181.5	8	28.1	<u>242.7</u>	180.6	8	27.5	<u>242.0</u>	179.7	6	27.0	18.5	11.9	19.4	12.5	20.3	13.0

Note:

1. The heights Z are 1.5m, 5m and 10m above ground, except some heights of ASRs which are podium or in higher terrain such as buildings in hilly region have been adjusted.

2. AQO requirements: NO2 1-hour average 200 μg/m³ with less than 19 exceedance
 NO2 Annual average 40 μg/m³

3. Underlined means the pollutant concentration has exceeded the AQO limit.

4. Positive value is well within the AQO. Negative value exceeds the AQO.