

Table 4B.1 Population data of and Buildings identified around KWVG and LPG Filling Station

PVS/ PVS. OZP	Building	Category	Floors	Total Population (2019)	Total Population (2025)	Total Population (2036)	Year 2019 Population				Year 2025 Population				Year 2036 Population			
							Weekday (day)	Weekday (Night)	Weekend (Day)	Weekend (Night)	Weekday (day)	Weekday (Night)	Weekend (Day)	Weekend (Night)	Weekday (day)	Weekday (Night)	Weekend (Day)	Weekend (Night)
112.02	Ngau Tau Kok Police Station	Police Station	7	149	158	176	149	45	97	45	158	47	103	47	176	53	114	53
112.03	Engineering Centre	Commercial Building	13	520	552	616	520	52	208	26	552	55	221	28	616	62	246	31
112.04	Vocational Training Council Kowloon Bay Complex	Commercial Building	12	480	510	568	480	48	192	24	510	51	204	26	568	57	227	28
112.05	Sunshine Kowloon Bay Cargo Centre	Commercial Building	9	360	382	426	360	36	144	18	382	38	153	19	426	43	170	21
112.06	Construction Innovation and Technology Application Centre	Commercial Building	5	200	212	237	200	20	80	10	212	21	85	11	237	24	95	12
112.07	Water Supplies Department Kowloon East Regional Building	Commercial Building	15	600	637	711	600	60	240	30	637	64	255	32	711	71	284	36
112.08	Government Logistics Department, Land Transport Division, Training and Testing Unit	Commercial Building	1	20	21	24	20	2	8	1	21	2	8	1	24	2	10	1
253.03	New Acute Hospital (Administration Building and Staff & Education Building)	Hospital	13	1365	1449	1617	1365	1365	1365	1365	1449	1449	1449	1449	1617	1617	1617	1617
253.04*	New Acute Hospital (Acute Building)*	Hospital	24	10000	10615	11843	10000	10000	10000	10000	10615	10615	10615	10615	11843	11843	11843	11843
253.05	LPG Filling Station	Petrol Station	N/A	18	19	23	9	0	9	0	10	0	10	0	12	0	12	0
253.06	Pacific Trade Centre	Commercial Building	15	600	637	711	600	60	240	30	637	64	255	32	711	71	284	36
	Octa Tower	Commercial Building	27	1080	1146	1279	1080	108	432	54	1146	115	458	57	1279	128	512	64
253.07	Kowloon Godown/D. G. Godown	Industrial Building	11	396	420	469	396	40	218	40	420	42	231	42	469	47	258	47
253.08	Citybus Kowloon Bay Parking Site	Carpark	1	4	4	5	3	0	3	0	3	0	3	0	4	1	4	1
253.09	Central Laboratory	Industrial Building	4	144	153	171	144	14	79	14	153	15	84	15	171	17	94	17
253.10	New Acute Hospital (SOPC Building and Oncology Building)	Hospital	12	3220	3418	3813	3220	3220	3220	3220	3418	3418	3418	3418	3813	3813	3813	3813
253.11	Hong Kong Children's Hospital	Hospital	11	3536	3754	4188	3536	3536	3536	3536	3754	3754	3754	3754	4188	4188	4188	4188
307.05	Enterprise Square 5	Commercial Building	49	1960	2081	2321	1960	196	784	98	2081	208	832	104	2321	232	928	116
307.06	Sheriff's Department	Carpark	2	8	8	9	6	1	6	1	6	1	6	1	6	1	6	1
307.07	Exchange Tower	Commercial Building	32	1267	1345	1501	1267	127	507	63	1345	135	538	67	1501	150	600	75
307.08	Enterprise Square III	Commercial Building	41	1267	1345	1501	1267	127	507	63	1345	135	538	67	1501	150	600	75
307.10	One Kowloon	Commercial Building	39	1267	1345	1501	1267	127	507	63	1345	135	538	67	1501	150	600	75
307.11	Manhattan Place	Commercial Building	40	1267	1345	1501	1267	127	507	63	1345	135	538	67	1501	150	600	75
307.14	Yip On Factory Estate Block 2	Industrial Building	20	960	1019	1137	960	96	528	96	1019	102	560	102	1137	114	625	114
307.15	Refuse Transfer Station	Station (Refuse disposal)	N/A	5	5	6	5	1	3	1	5	1	3	1	6	1	3	1
307.16	New Kowloon Bay Vehicle Inspection Centre	Industrial Building	2	72	76	85	72	7	40	7	76	8	42	8	85	9	47	9
307.17	Chevalier Commercial Centre	Commercial Building	23	920	977	1090	920	92	368	46	977	98	391	49	1090	109	436	55
307.18	Yip On Factory Estate Block 1	Industrial Building	9	324	344	384	324	32	178	32	344	34	189	34	384	38	211	38
307.20	Transport Department Kowloon Bay Motor Vehicle Examination Centre	Industrial Building	1	36	38	43	36	4	20	4	38	4	21	4	43	4	24	4
307.21	The Quayside	Commercial Building	24	960	1019	1137	960	96	384	48	1019	102	408	51	1137	114	455	57
307.22																		
308.01	One Bay East	Commercial Building	36	1267	1345	1501	1267	127	507	63	1345	135	538	67	1501	150	600	75
308.02	Ocean Industrial Building	Industrial Building	13	468	497	554	468	47	257	47	497	50	273	50	554	55	305	55
308.03	Hoi Bun Road Substation	Station (Electric Substation)	N/A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
308.04	Hoi Bun Road Park	Leisure	N/A	200	212	237	140	20	170	20	148	21	180	21	166	24	201	24

Table 4B.2 Traffic Population at the LPG Filling Station and KWDG

Station No.	Station Name	Vehicle per day			Vehicle per hr (day)			People/km (day)			Vehicle per hr (night)			People/km (night)		
		2019	2025	2036	2019	2025	2036	2019	2025	2036	2019	2025	2036	2019	2025	2036
3012	Kwun Tong Road	79,225	88,133	107,146	4,522	5,031	6,116	283	314	382	2,080	2,313	2,813	130	145	176
3020	Wai Yip Street	27,290	27,471	27,806	1,558	1,568	1,587	97	98	99	716	721	730	45	45	46
3023	Kwun Tong Bypass <K77>	95,620	95,620	95,620	5,458	5,458	5,458	341	341	341	2,510	2,510	2,510	157	157	157
3833	Kwun Tong Road	89,684	93,268	100,215	5,119	5,324	5,721	320	333	358	2,354	2,448	2,631	147	153	164
3870	Ngau Tau Kok Road	18,520	18,520	18,520	1,057	1,057	1,057	66	66	66	486	486	486	30	30	30
3873	Lai Yip Street	16,783	18,185	21,067	958	1,038	1,203	60	65	75	441	477	553	28	30	35
4075	Sheung Yee Road	30,617	97,092	805,517	1,748	5,542	45,982	109	346	2,874	804	2,549	21,145	50	159	1,322
N/A	Kai Hing Road**	5,436	6,416	8,693	310	366	496	19	23	31	143	168	228	9	11	14
N/A	Hoi Bun Road**	11,004	12,987	17,597	628	741	1,004	39	46	63	289	341	462	18	21	29

* For NAH Building (253.04), maximum capacity 15,547, provided by Meinhardt (Drawing Title: Schedules, Site Coverage and Plot Ratio Calculations. Drawing No. NAH-A/WTP/AR/GBP-125) are used for sensitivity case. According to the Sewerage Impact Assessment report¹, there are 4,750 employees and 1,600 patients in the Acute Block. Numbers are factored up to account for transient population.

** For Kai Hing Road and Hoi Bun Road, the traffic populations are estimated based on the data from the road surveys. The road surveys results can be found in Table 4B.3 and 4B.4.

Note (from the previous QRA (AEIAR-130/2009)):

Vehicle per day obtained from ATC (2017)

Day:Night ratio = 0.685

Passenger / vehicle = 3.125

Speed = 50 km/hr

¹ New Acute Hospital at Kai Tak Development Area Sewerage Impact Assessment Report, 2019

Table 4B.3 Road Population Survey of Kai Hing Road*

Types of Transportation	20-Aug				22-Aug				27-Aug				29-Aug			
	8:10 AM	2:05 PM	6:29 PM	10:00 PM	8:13 AM	2:00 PM	6:16 PM	10:00 PM	8:12 AM	1:50 PM	6:06 PM	10:00 PM	8:09 AM	1:50 PM	6:20 PM	10:07 PM
Motorcycle	1	0	1	2	2	1	4	1	2	0	3	1	2	-	3	0
Private car	40	41	20	4	33	37	30	10	42	41	37	9	47	-	25	10
Taxi	11	8	3	3	10	14	1	12	14	18	10	4	19	-	7	2
Public light bus	8	3	2	1	5	3	3	2	4	3	3	2	6	-	5	2
Goods vehicle	9	10	15	5	24	19	17	5	17	29	20	7	18	-	18	7
Bus	5	0	5	1	5	1	5	1	6	2	6	1	7	-	4	0

*Road population survey was carried for 15 minutes

Table 4B.4 Road Population Survey of Hoi Bun Road*

Types of Transportation	20-Aug				22-Aug				27-Aug				29-Aug			
	8:26 AM	2:21 PM	6:45 PM	10:16 PM	8:29 AM	2:16 PM	6:31 PM	10:09 PM	8:28 AM	2:10 PM	6:21 PM	10:15 PM	8:09 AM	2:10 PM	6:35 PM	10:24 PM
Motorcycle	1	5	4	1	6	0	11	2	3	1	4	0	3	-	5	0
Private car	62	67	69	15	55	57	63	24	61	58	70	15	77	-	65	8
Taxi	18	48	40	24	28	35	31	31	22	35	35	31	64	-	32	43
Public light bus	12	10	7	13	14	8	10	18	12	3	9	13	18	-	11	14
Goods vehicle	15	32	21	7	11	17	25	6	7	23	14	3	13	-	21	2
Bus	10	7	9	2	16	4	12	1	12	3	14	2	15	-	8	1

*Road population survey was carried for 15 minutes

Table 4B.5 Marine Population Survey of Kwun Tong Promenade

Types of Transportation	20-Aug				22-Aug				27-Aug				29-Aug			
	8:40 AM	2:35 PM	7:07 PM	10:31 PM	8:45 AM	2:40 PM	6:47 PM	10:31 PM	8:39 AM	2:30 PM	6:35 PM	10:30 PM	8:41 AM	2:30 PM	6:51 PM	10:39 PM
Houseboat	3	0	11	0	4	14	8	1	2	2	23	5	1	2	19	1
Trawler Boat	4	6	13	5	10	9	16	5	8	4	12	5	13	5	8	1
Cabin Cruiser Boat	2	1	9	2	0	1	4	0	5	2	7	0	12	8	6	0
Motor Yacht Boat (small)	20	16	40	13	22	20	29	13	22	20	22	12	27	24	12	19
Motor Yacht Boat (large)	1	1	3	1	2	2	4	1	1	2	3	6	1	1	5	1
Fishing boat/Deck boat/Cuddy cabins boat	9	4	8	5	7	3	7	6	7	3	23	2	5	5	9	0
Small Craft / Pleasure Craft	1	0	9	2	2	0	8	1	2	2	2	0	0	2	0	2
Houseboat	3	0	11	0	4	14	8	1	2	2	23	5	1	2	19	1