
Attachment 5 –

Revised Sewerage Impact Assessment

Issue No. : Issue 5
Issue Date : August 2026
Project No. : 1947



SEWERAGE IMPACT ASSESSMENT

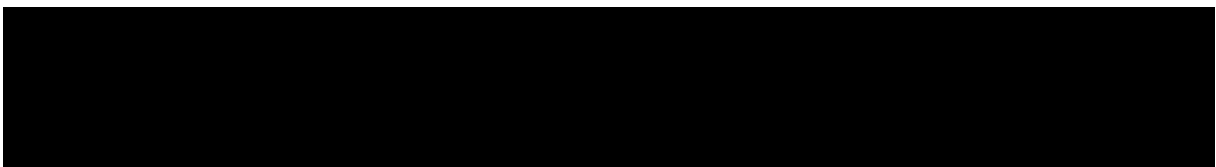
FOR

**SECTION 16 PLANNING
APPLICATION FOR PROPOSED
AMENDMENTS TO AN
APPROVED SCHEME (UNDER
APPLICATION NO. A/H6/91
WITH MINOR RELAXATION OF
PLOT RATIO RESTRICTION
APPROVED) FOR PERMITTED
FLAT USE AT 4, 4A, 4B AND 4C
TAI HANG ROAD, HONG KONG**

Prepared by

Allied Environmental Consultants Limited

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Document Verification



Project Title Section 16 Planning
Application for Proposed
Amendments to an
Approved Scheme (under
Application No. A/H6/91
with Minor Relaxation of
Plot Ratio Restriction
Approved) for Permitted
Flat Use at 4, 4A, 4B and
4C Tai Hang Road, Hong
Kong

Project No.
1947

Document Title Sewerage Impact Assessment

Issue No.	Issue Date	Description	Prepared by	Checked by	Approved by
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1. Introduction

- 1.1.1. A planning application No. A/H6/91 was submitted to the Town Planning Board (the Board) on 4 June 2021 under Section 16 of the Town Planning Ordinance for Proposed Minor Relaxation of Plot Ratio (PR) Restriction from 5 to 5.687 for Permitted Flat Use at 4, 4A, 4B and 4C Tai Hang Road, Hong Kong (Application Site). The application was approved with conditions by the Board on 14 January 2022. The previous Sewerage Impact Assessment (SIA) report (Issue 2) in support of the Approved Scheme was accepted by DSD and EPD.
- 1.1.2. Subsequent to the approval of the above planning application, the Applicant has been actively proceeding with the detailed design and implementation of the residential development. In response to the latest market trend and to address the continuous housing demand in Hong Kong, the Applicant hereby submits the current application to propose amendments to the Approved Scheme to increase the number of units from 61 to 176, with no change to other major development parameters including GFA, PR and number of storeys as compared with the Approved Scheme. Allied Environmental Consultants Limited (AEC) has been appointed to conduct the current SIA (Issue 3) for the current application.
- 1.1.3. The layout plan updates between approved Issue 2 and Issue 3 are summarized as shown in **Table 1-1**. In view of updates of the layout plan, 72 residential unit (R1 type), 90 residential unit (R2 type) and 14 residential unit (R3 type) were noted. Hence, this SIA report is updated to reflect the change.

Table 1-1 Comparison of number of residential units in approved Issue 2 and Issue 3

Residential Unit Category	Approved Issue 2	Issue 3	Remark
	Number of Unit		
R1 Type	0	72	The GFA of unit is <50 m ²
R2 Type	12	90	The GFA of unit is >50 and <110m ²
R3 Type	49	14	The GFA of unit is >110m ²
Total	61	176	

2. Objectives

- 2.1.1. Main objectives of the study are to evaluate potential sewerage impacts based on estimated sewage generation, and to recommend appropriate options for sewage discharge from the Proposed Development.

3. Description of the Proposed Development

- 3.1.1. The Application Site is located within Inland Lot No. 7426 zoned Residential (Group B) ("R(B)") on the Approved Causeway Bay Outline Zoning Plan No. S/H6/17, in the vicinity of the Application Site include Winway Court, Jolly Villa, Y.I. and Illumination Terrace on the lower Tai Hang Road, and Trafalgar Court and The Elegance on the upper Tai Hang Road. Its surrounding areas are zoned Residential (Group B) ("R(B)"), and Green Belt ("GB"). Location of the Application Site is shown in **Figure 3-1**.
- 3.1.2. The Proposed Development comprise of 1 no. residential tower, podium and 3 levels of carpark. The Proposed Development is expected to be operated in Year 2030.

4. Description of Sewerage System

- 4.1.1. Drainage record plans were obtained from the drawing office of the Drainage Services Department (“DSD”) and the Application Site is indicated on the drainage record plans as shown in **Figure 3-1**. Concerned sewerage network was identified for succeeding estimation of the potential sewerage impact to the downstream sewers associated with the Proposed Development.
- 4.1.2. The sewerage network of existing gravity sewers along Tai Hang Road collects sewage generated from the Proposed Development, via the public sewage manholes FMH7013366 and FMH7013365. The sewage discharged from the Proposed Development is conveyed to North Point Preliminary Treatment Works, and discharged to Stonecutters Island Sewage Treatment Works (SCISTW) for further treatment and ultimate disposal.

5. Legislation, Standards and Guidelines

- 5.1.1. Water quality in Hong Kong is legislated by the provisions of the Water Pollution Control Ordinance (Cap 358), 1980 (WPCO). Territorial Water has been subdivided into ten Water Control Zones (WCZ) and four supplementary water control zones. A Technical Memorandum on Standards for Effluents discharged into Drainage and Sewerage Systems, Inland and Coastal Water (TMES) has been issued, which requires licensing of all discharges into all public sewers and drains. The water quality standards will have to be met during the operation stage.
- 5.1.2. Besides as stipulated in the Building (Standards of Sanitary Fitments, Plumbing, Drainage Works and Latrines) Regulations 41(1), 40(2), 41(1), 90 and recap in ProPECC PN 1/23, domestic sewage should be discharged to a foul water sewer and surface water should be discharged via rainwater pipes to stormwater drains during operation phase.
- 5.1.3. The following standards and guidelines are adopted for estimation, assessment and evaluation of sewerage implication of the Proposed Development:
- “Hong Kong Planning Standards and Guidelines” issued by the Planning Department;
 - “Sewerage Manual Part 1” published by DSD; and

- “Guidelines for Estimating Sewage Flows for Sewage Infrastructure Planning Version 1.0 (Report No.: EPD/TP1/05)” (“GESF”) published by Environmental Protection Department (“EPD”).

6. Estimation of Sewage Flow and Peak Discharge

6.1. Methodology for Estimation of Average Dry Weather Flow

- 6.1.1. With reference to the GESF, the Unit Flow Factors (“UFF”) for different types of population as shown in **Table 6-1** have been used in calculation of sewerage flow from the Proposed Development.

Table 6-1 Global Unit Flow Factors

Development Type	Unit	UFF (m ³ /day)
Domestic Flow ^[1] ^[2]		
Residential R1	Person	0.19
Residential R2	Person	0.27
Residential R3	Person	0.37
Commercial Flow ^[2]		
Job Type J11, Community, Social & Personal Services	Employee	0.28

Notes:

^[1] Initial flat size assumptions in are based on Table 8 in Chapter 2 of “Hong Kong Planning Standards and Guidelines”. Assumption values under the category of Hong Kong & Kowloon is selected.

^[2] UFFs for various occupancy types are adopted according to Table T-1 and Table T-2 of the GESF.

6.2. Estimation of Sewage Flow from Proposed Development

- 6.2.1. With reference to **Table 6-2**, the total estimated Average Dry Weather Flow (“ADWF”) from the Proposed Development is 112.9m³/day. The population estimated ADWF of Proposed Development are summarized in **Appendix 6-1**.

Table 6-2 Sewage Flow Estimation for the Proposed Development

Type of Occupancy ^[1]	Population ^[1]	Category ^[3]	UFF (m ³ /day)	ADWF (m ³ /day)
Proposed Development (Domestic) ^[4]	187 Persons ^[2]	Domestic Private R1	0.19	35.6
	234 Persons ^[2]	Domestic Private R2	0.27	63.2
	36 Persons ^[2]	Domestic Private R3	0.37	13.5

Type of Occupancy ^[1]	Population ^[1]	Category ^[3]	UFF (m ³ /day)	ADWF (m ³ /day)
Clubhouse (Non-Domestic) ^[5,6]	2 Employees	Job Type J11, Community, Social & Personal Services	0.28	0.6
Total				112.9

Notes:

[1] Based on the latest layout plan, the design flat mix for the Proposed Development are 72 flats with GFA less than 50m² (i.e. "Domestic Private R1"), 90 flats with GFA between 50m² to 110m² (i.e. "Domestic Private R2"), and 14 flats of GFA of larger than 110m² (i.e. "Domestic Private R3").

[2] According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of Wan Chai in 2023 is -1.3%. For conservative approach, population growth of 0% is adopted.

[3] Categories of UFFs are selected according to Table T-1 and Table T-2 in GESF.

[4] For floor area less than 50m², UFF of "Domestic Private R1" is deployed (i.e. 0.19 m³/day); for floor area between 50m² and 110m², UFF of "Domestic Private R2" is deployed (i.e. 0.27 m³/day); while, for floor area larger than 110m², UFF of "Domestic Private R3" is deployed (i.e. 0.37 m³/day).

[5] UFF of "Job Type J11 Community, Social & Personal Services" is adopted. UFF for each employee is the sum of UFF of "Commercial Employee" (i.e. 0.08m³/day) and UFF of "Job Type J11 Community, Social & Personal Services" (i.e. 0.20m³/day).

[6] As advised by Project team.

6.3. Estimation of Sewage Flow from Upstream and Downstream Catchments

6.3.1. Different catchment areas are defined as shown in **Figure 6-1** to consider upstream and downstream sewage generation.

6.3.2. Based on information collected from desktop study, population estimations and sewage flow from different catchments at the study area are calculated as given in **Appendix 6-2** and **Appendix 6-3**.

6.4. Estimation of Peak Discharge

6.4.1. Catchment inflow factor ("P_{cif}") caters for the net overall ingress of wastewater to the sewerage system. They are catchment-dependent and applicable to major sewerage facilities of a catchment.

6.4.2. As mentioned in **Section 4.1.2**, sewage discharged from concerned catchments is conveyed to North Point Preliminary Treatment Works, and discharged to the SCISTW. In accordance with Table T-4 and Annex 1 of Appendix VII - Part 1 of the GESF, the P_{cif} of 1.0 is adopted for existing sewerage because concerned sewerage system is identified in North Point.

- 6.4.3. Revised average dry weather flow (“revised ADWF”) is determined by production of average dry weather flow and catchment inflow factor. Contributing population is then calculated by dividing the revised ADWF by 0.27. The calculated contributing population is finally used for selection of peaking factors.
- 6.4.4. Based on **Table 6-3** which is also presented in Table T-5 in GESF, the peaking factors for each sewer are chosen in the hydraulic calculation for peak flow estimation.

Table 6-3 Peaking Factors

Population Range for Sewers ^{[1] [2]}	Peaking Factor (including storm water allowance) for facility with existing upstream sewerage	Peaking Factor (excluding storm water allowance) for facility with new upstream sewerage
< 1000	8	6
1000 - 5000	6	5
5000 - 10000	5	4
10000 - 50000	4	3
> 50000	Max (7.3 / $N^{0.15}$, 2.4)	Max (6 / $N^{0.175}$, 1.6)

Notes:

[1] N is the contributing population in thousands.

[2] According to Section 12.1 of GESF, Contributing Population = Calculated Total Average Flow (m^3/day) ÷ 0.27 ($m^3/person/day$)

6.5. Peak Discharge from Proposed Development and Catchment Areas

- 6.5.1. Flow rates of peak discharge from the Proposed Development and other catchment areas are estimated in accordance with the DSD’s “Sewerage Manual Part 1”. Peak flows from Proposed Development at the study area under future condition are summarized in **Table 6-4**.

Table 6-4 Population and Sewage Flow Estimation under Future Condition

Contributing Catchment Area ^[4]	Sewer No.				Contributing Population ^[2]	Peaking Factor ^[3]	Revised ADWF (m ³ /day) ^[1]	Total Peak Discharge (with Swimming pool) ^[5] (m ³ /s)
	ID	From	ID	To				
<u>Proposed Development</u>	1	FMH7013366	2	FMH7013365	418	8.0	113	0.010
Proposed Development + <u>A + B + C + D+ E+ F+ G + H + I</u>	2	FMH7013365	3	FMH7013351	20610	4.0	5565	0.462
Proposed Development + A + B + C + D+ E+ F+ G + H + I	3	FMH7013351	4	FMH7013350	20610	4.0	5565	0.462
Proposed Development + A + B + C + D+ E+ F+ G + H + I	4	FMH7013350	5	FMH7047900	20610	4.0	5565	0.462
Proposed Development + A + B + C + D+ E+ F+ G + H + I	5	FMH7047900	6	FMH7063779	20610	4.0	5565	0.462
Proposed Development + A + B + C + D+ E+ F+ G + H + I	6	FMH7063779	7	FMH7063780	20610	4.0	5565	0.462
Proposed Development + A + B + C + D+ E+ F+ G + H + I + <u>J</u>	7	FMH7063780	8	FMH7013348	21362	4.0	5768	0.476
Proposed Development + A + B + C + D+ E+ F+ G + H + I + J	8	FMH7013348	9	FMH7013335	21362	4.0	5768	0.476

Notes:

[1] Revised ADWF (m³/day) = ADWF (m³/day) × Catchment Inflow Factor

[2] According to Section 12.1 of GESF, Contributing Population = Calculated Total Average Flow (m³/day) ÷ 0.27 (m³/person/day)

[3] According to Table T-5 of GESF.

[4] Underlined and bold means it is a new contributing for the sewer.

[5] Total Peak Discharge (With Swimming Pool) (m³/s) = (Revised ADWF (m³/day) × Peaking Factor ÷ 86400s/day) + Public Toilet Sewage Generation (m³/s) + Swimming Pool Backwash (m³/s)

7. Sewer Capability

- 7.1.1. The Colebrook White's equation is adopted for hydraulic analysis of the sewerage system. Various roughness coefficients, k_s , are adopted in accordance with Table 5 of DSD's "*Sewerage Manual Part 1*".
- 7.1.2. Occupancy rate and capacity of the sewerage system are tabulated in **Table 7-1** and detailed calculation is given in **Appendix 7-1**.

Table 7-1 Occupancy Rate of Concerned Foul Sewers

Contributing Catchment Area ^[2]	ID	From	ID	To	Total Peak Discharge (with Swimming pool) (m ³ /s)	Maximum Capacity of Sewer (m ³ /s)	Occupancy Rate (%) ^[1]
<u>Proposed Development</u>	1	FMH7013366	2	FMH7013365	0.010	0.118	8.9%
Proposed Development + <u>A + B + C + D+ E+ F+ G + H + I</u>	2	FMH7013365	3	FMH7013351	0.462	0.587	78.7%
Proposed Development + A + B + C + D+ E+ F+ G + H + I	3	FMH7013351	4	FMH7013350	0.462	0.744	62.1%
Proposed Development + A + B + C + D+ E+ F+ G + H + I	4	FMH7013350	5	FMH7047900	0.462	0.744	62.1%
Proposed Development + A + B + C + D+ E+ F+ G + H + I	5	FMH7047900	6	FMH7063779	0.462	0.744	62.1%
Proposed Development + A + B + C + D+ E+ F+ G + H + I	6	FMH7063779	7	FMH7063780	0.462	0.744	62.1%
Proposed Development + A + B + C + D+ E+ F+ G + H + I <u>+ J</u>	7	FMH7063780	8	FMH7013348	0.476	0.744	64.0%
Proposed Development + A + B + C + D+ E+ F+ G + H + I + J	8	FMH7013348	9	FMH7013335	0.476	1.116	42.7%

Notes:

[1] Occupancy Rate = Peak Discharge (m³/s) ÷ Maximum Capacity (m³/s)

[2] Underlined and bold means it is a new contributing for the sewer.

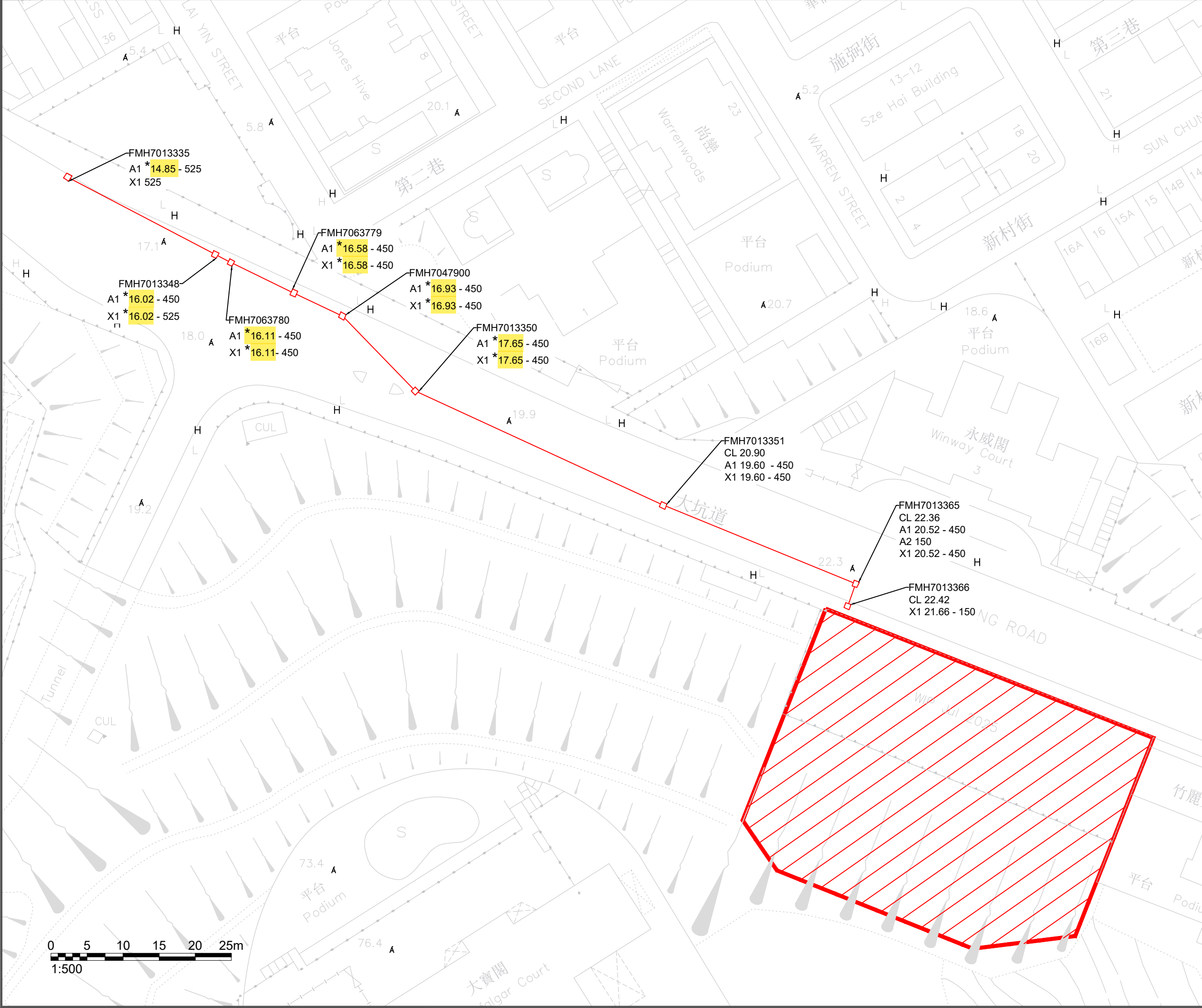
- 7.1.3. Calculation results summarized in **Table 7-1** indicated that the total peak flow occupancy of the sewer pipes is ranging from 8.9% to **78.7%**. It is demonstrated that the existing sewerage system has sufficient capacity to cater for the sewage generated from the Proposed Development in the future.
- 7.1.4. According to the *Drainage Services Department in Brief 2024-25*, the treatment capacity of the SCISTW is 2,450,000m³/day. The sewage loading from the Proposed Development takes up 0.005% in capacity of the SCISTW, which remains with generous capacity to cater for the increase in sewage generated by the Proposed Development.
- 7.1.5. Owing to the insignificant contribution of sewage generation from Proposed Development to the existing sewerage system, and to the capacity of SCISTW, no adverse impact to public sewerage system associated with the Proposed Development is expected.

8. Liability

- 8.1.1. The project proponent will be responsible for construction of the proposed sewers and manholes, for future connection to public sewage system, while future maintenance of the sewers outside the Application Site boundary will be carried out by the DSD.
- 8.1.2. During operation phase, regular inspection of the sewers within the Application Site should be conducted by the property management office to ensure proper performance. Regular maintenance should also be carried out in accordance with standard practices stated in the DSD's "*Sewerage Manual Part 1*".

9. Conclusions

- 9.1.1. Sewerage impact assessment has been conducted for the Proposed Development. The result showed that 0.010m³/s of peak sewage discharge is expected to be generated from the Proposed Development upon full occupancy.
- 9.1.2. Given the negligible sewage flow generated by the Proposed Development, no adverse impacts on the existing public sewerage network or the capacity of the Stonecutters Island Sewage Treatment Works (SCISTW) are anticipated.



- NOTES :
-  Application Site
 -  Existing Sewerage System
 -  Assumption based on Interpolation

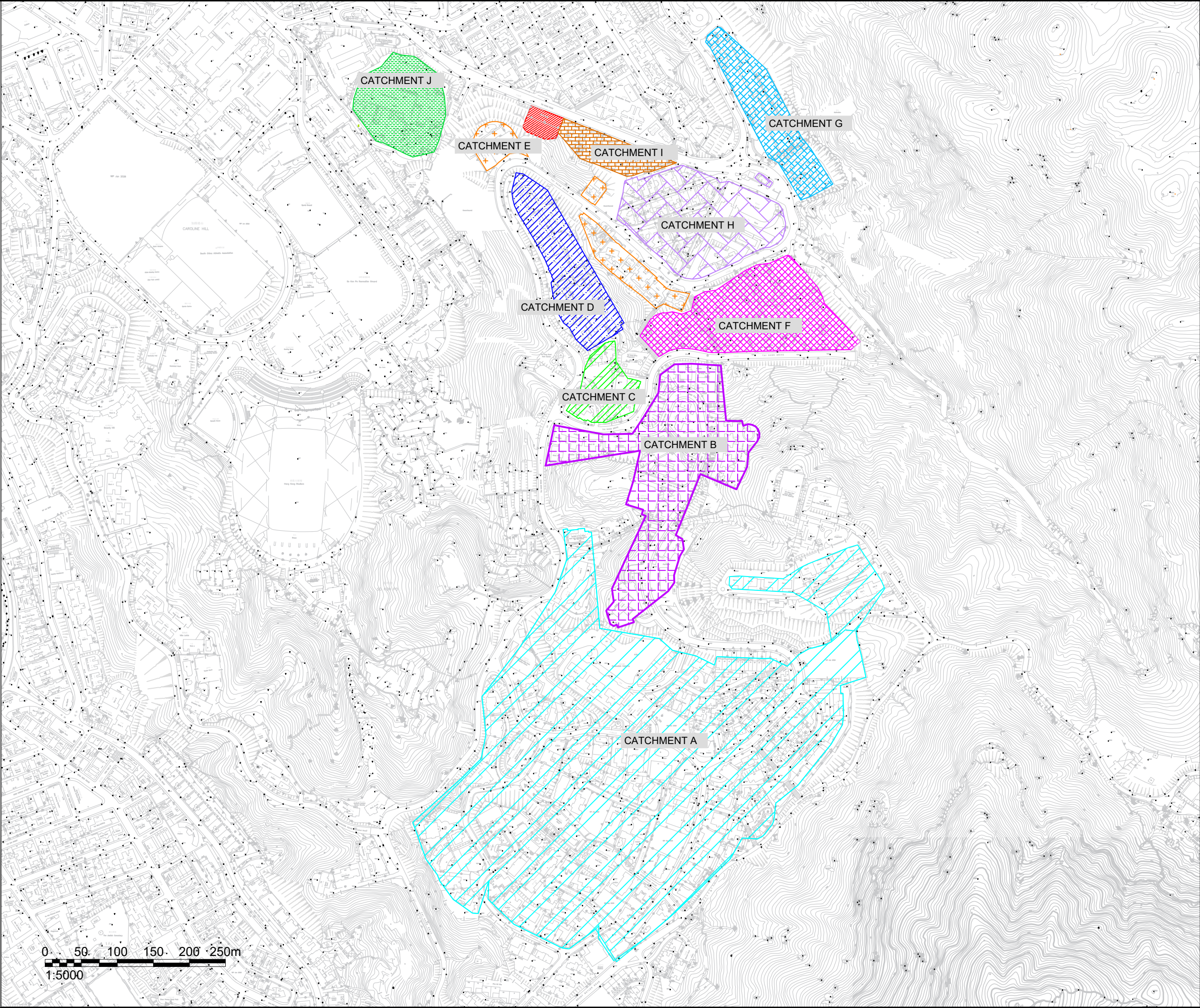
Consultant



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Project No. : 1947	
Drawn By : ZX	
Project : Section 16 Planning Application for Proposed Amendments to an Approved Scheme (under Application No. A/H6/91 with Minor Relaxation of Plot Ratio Restriction Approved) for Permitted Flat Use at .4, 4A, 4B & 4C Tai Hang Road, Hong Kong	
Drawing Title : Application Site Location & Existing Sewerage System	
Drawing No : Figure 3-1	Revision : 2
Scale : As Shown	Date : August 2026
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- NOTES :
- Application Site
 - Catchment A
 - Catchment B
 - Catchment C
 - Catchment D
 - Catchment E
 - Catchment F
 - Catchment G
 - Catchment H
 - Catchment I
 - Catchment J

Consultant



Allied Environmental Consultants Limited

Project No. :	1947
Drawn By :	ZX
Project :	Section 16 Planning Application for Proposed Amendments to an Approved Scheme (under Application No. A/H6/91 with Minor Relaxation of Plot Ratio Restriction Approved) for Permitted Flat Use at .4, 4A, 4B & 4C Tai Hang Road, Hong Kong
Drawing Title :	Application Site & Catchment Area
Drawing No. :	Figure 6-1
Revision :	2
Scale :	As Shown
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Project No. 1947

Sewerage Impact Assessment for Section 16 Planning Application for Proposed Amendments to an Approved Scheme (under Application No. A/H6/91 with Minor Relaxation of Plot Ratio Restriction Approved) for Permitted Flat Use at 4, 4A, 4B and 4C Tai Hang Road, Hong Kong

Appendix 6-1

Estimation of Sewerage Flow from the Proposed Development

Appendix 6-1 : Estimation of Sewerage Flow from the Proposed Development

Type of Occupancy	Number of Unit [2]	Household Size [5]	Population Growth Rate [1]	No. of Occupancy [2]	Unit Flow Factor		Total Average Sewage Discharge (m ³ /day) [4]	Remark
					Category [3]	m ³ /day		
Residential	72	2.6	0.0%	187	T1, Domestic (private permanent housing R1)	0.19	35.6	The area of unit is approx <50 m2. Therefore, Type R1 is adopted.
Residential	90	2.6	0.0%	234	T1, Domestic (private permanent housing R2)	0.27	63.2	The area of unit is approx >50 and <110m2. Therefore, Type R2 is adopted.
Residential	14	2.6	0.0%	36	T1, Domestic (private permanent housing R3)	0.37	13.5	The area of unit is >110m2. Therefore, Type R3 is adopted.
Clubhouse	-	N/A	-	2	Community, Social & Personal Services	0.28	0.6	-
176				458			112.9	

Notes:

[1] According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of Wan Chai in 2023 is -1.3%. For conservative approach, population growth of 0% is adopted.

[2] Information provided by Applicant, the design flat mix for the Proposed Redevelopment are 72 flats with floor areas less than 50m2 (i.e. "Domestic Private R1"), 102 flats with floor areas between 50m2 to 110m2 (i.e. "Domestic Private R2"), and 2 flats of floor area of larger than 110m2 (i.e. "Domestic Private R3"). The design occupancy for the Proposed Redevelopment is 187 persons for "Domestic Private R1", 265 persons for "Domestic Private R2" and 6 persons for "Domestic Private R3".

[3] The unit flow factor is made reference to "Guidelines for Estimating Sewage Flows for Sewage Infrastructure Planning (Version 1.0)", published by EPD.

[4] The presented value of Average Dry Weather Flow would be slightly different to the value from manual calculation due to numerical round-off.

[5] According to 2021 Population Census, the average Household Size in Wan Chai is 2.6 persons.

Project No. 1947

Sewerage Impact Assessment for Section 16 Planning Application for Proposed Amendments to an Approved Scheme (under Application No. A/H6/91 with Minor Relaxation of Plot Ratio Restriction Approved) for Permitted Flat Use at 4, 4A, 4B and 4C Tai Hang Road, Hong Kong

Appendix 6-2

Population Estimation for Catchment Areas

Appendix 6-2 Population Estimation for Catchment Areas

Operation Year	2030
By Census Year	2021

Catchment A

Description		Reference
A1	Buddhist Li Ka Shing Care and Attention Home for the Elderly	
Total Area (m2)	521	The development is used as a care home. With reference to CIFSUS, the worker density for Community, Social & Personal Services is adopted (https://www.pland.gov.hk/pland_en/p_study/comp_s/cifsus/cifsusReport.pdf)
Number of Floors	11	
Total Floor Area (m2)	5731	
Worker Density (per 100m2)	3.3	
Total Workers	190	
Bed Spaces	242	According to the information from Buddhist Li Ka Shing Care and Attention Home for the Elderly, there are 242 bed spaces for residents (http://biks.buddhist-hkcia.org/en/ro/)
Visitors	242	
Total Pop.	674	

Description		Reference
A2	Jardini	
Residential		
No. of Households	114	Jardini Tai Hang Mid-Levels Estate Info Centaline Property
Average Household Size (2021) in Wan Chai	2.6	https://www.census2021.gov.hk/en/district_profiles.html
Total Pop.	297	According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of Wan Chai in 2023 is -1.3%. For conservative approach, population growth of 0% is adopted.
Average Population Growth Per Year	0.00%	
Est. Pop. (persons) (2030)	297	

Description		Reference
A3	Perkins Road Dairy Farm Shopping Centre	
Total Pop.	31	According to information from Wellcome Supermarkets, there are approximately 8 700 employees across 280 stores in Hong Kong. (https://www.wellcome.com.hk/en/about-wellcome)

Description		Reference
A4	Tai Hang Road Petrol Filling Station	
Total Area (m2)	92	The development is a petrol filling station. With reference to CIFSUS, the worker density for Retail Trade is adopted (https://www.pland.gov.hk/pland_en/p_study/comp_s/cifsus/cifsusReport.pdf)
Number of Floors	1	
Total Floor Area (m2)	92	
Worker Density (per 100m2)	3.5	
Total Pop.	4	

Description		Reference
A5	Villa De Perkins (7, 9, 11, 13, 15, 17, 19, 21 and 23 Perkins Road)	
Residential		
No. of Households	11	https://www.midland.com.hk/en/estate/Hong-Kong-Villa-De-Perkins-E000006962
Average Household Size (2021) in Wan Chai	2.6	https://www.census2021.gov.hk/en/district_profiles.html
Total Pop.	29	According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of Wan Chai in 2023 is -1.3%. For conservative approach, population growth of 0% is adopted.
Average Population Growth Per Year	0.00%	
Est. Pop. (persons) (2030)	29	

Swimming Pool

Swimming Pool Area, m2	128	General Specification for Swimming Pool Water Treatment Installation in Government Buildings of The Hong Kong Special Administrative Region
Height of Swimming Pool, m	1.5	
Estimated volume of the Swimming pool, m ³	192	
Turnover Rate, hour	6	
Surface Loading Rate of Filter, m ³ /m ² /hr	50	
Required Filter Area, m ²	0.64	Swimming Pools: Design and Construction, Fourth Edition By Philip H. Perkins (50 m ³ /m ² /hr adopted)
Backwash Duration (mins)	7.00	
Backwash Flow Rate, m ³ /m ² /hr	30	
Maximum backwash volume, m ³	2.2	
Maximum backwash volume, L/s	5.33	
Maximum backwash volume, m3/s	0.005	With reference to Section B8.5.5 of General Specification for Swimming Pool Water Treatment Installation in Government Buildings of the HKSAR published by the ArchSD, "the water velocity <i>phases shall be sufficient to maintain the filter in duration of 7 minutes for sand filter</i> " Technical Paper - Domestic Swimming Pool Filtration by European Union of Swimmingpool and Spa Associations

Description		Reference
A6	No 25 Perkins Road	
Residential		
No. of Households	1	https://www.midland.com.hk/en/estate/Hong-Kong-Island-Jardine-s-lookout-Tai-Hang-25-Perkins-Road-E00001818
Average Household Size (2021) in Wan Chai	2.6	https://www.census2021.gov.hk/en/district_profiles.html
Total Pop.	3	According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of Wan Chai in 2023 is -1.3%. For conservative approach, population growth of 0% is adopted.
Average Population Growth Per Year	0.00%	
Est. Pop. (persons) (2030)	3	

Swimming Pool

Swimming Pool Area, m2	55	General Specification for Swimming Pool Water Treatment Installation in Government Buildings of The Hong Kong Special Administrative Region
Height of Swimming Pool, m	1.5	
Estimated volume of the Swimming pool, m ³	83	
Turnover Rate, hour	6	
Surface Loading Rate of Filter, m ³ /m ² /hr	50	
Required Filter Area, m ²	0.28	Swimming Pools: Design and Construction, Fourth Edition By Philip H. Perkins (50 m ³ /m ² /hr adopted)
Backwash Duration (mins)	7.00	
Backwash Flow Rate, m ³ /m ² /hr	30	
Maximum backwash volume, m ³	1.0	
Maximum backwash volume, L/s	2.29	
Maximum backwash volume, m3/s	0.002	With reference to Section B8.5.5 of General Specification for Swimming Pool Water Treatment Installation in Government Buildings of the HKSAR published by the ArchSD, "the water velocity <i>phases shall be sufficient to maintain the filter in duration of 7 minutes for sand filter</i> " Technical Paper - Domestic Swimming Pool Filtration by European Union of Swimmingpool and Spa Associations

Description		Reference
A7	Cavendish Heights	
Residential		
No. of Households	440	https://www.midland.com.hk/en/estate/Hong-Kong-Island-Jardine-s-lookout-Tai-Hang-Cavendish-Heights-E00124
Average Household Size (2021) in Wan Chai	2.6	https://www.census2021.gov.hk/en/district_profiles.html
Total Pop.	1144	According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of Wan Chai in 2023 is -1.3%. For conservative approach, population growth of 0% is adopted.
Average Population Growth Per Year	0.00%	
Est. Pop. (persons) (2030)	1144	

Swimming Pool (Large)

Swimming Pool Area, m2	251	General Specification for Swimming Pool Water Treatment Installation in Government Buildings of The Hong Kong Special Administrative Region
Height of Swimming Pool, m	1.5	
Estimated volume of the Swimming pool, m ³	377	
Turnover Rate, hour	6	
Surface Loading Rate of Filter, m ³ /m ² /hr	50	
Required Filter Area, m ²	1.26	Swimming Pools: Design and Construction, Fourth Edition By Philip H. Perkins (50 m ³ /m ² /hr adopted)
Backwash Duration (mins)	7.00	
Backwash Flow Rate, m ³ /m ² /hr	30	
Maximum backwash volume, m ³	4.4	
Maximum backwash volume, L/s	10.46	
Maximum backwash volume, m3/s	0.010	With reference to Section B8.5.5 of General Specification for Swimming Pool Water Treatment Installation in Government Buildings of the HKSAR published by the ArchSD, "the water velocity <i>phases shall be sufficient to maintain the filter in duration of 7 minutes for sand filter</i> " Technical Paper - Domestic Swimming Pool Filtration by European Union of Swimmingpool and Spa Associations

Swimming Pool (Small)

Swimming Pool Area, m2	36	General Specification for Swimming Pool Water Treatment Installation in Government Buildings of The Hong Kong Special Administrative Region
Height of Swimming Pool, m	1.5	
Estimated volume of the Swimming pool, m ³	54	
Turnover Rate, hour	6	
Surface Loading Rate of Filter, m ³ /m ² /hr	50	
Required Filter Area, m ²	0.18	Swimming Pools: Design and Construction, Fourth Edition By Philip H. Perkins (50 m ³ /m ² /hr adopted)
Backwash Duration (mins)	7.00	
Backwash Flow Rate, m ³ /m ² /hr	30	
Maximum backwash volume, m ³	0.6	
Maximum backwash volume, L/s	1.50	
Maximum backwash volume, m3/s	0.002	With reference to Section B8.5.5 of General Specification for Swimming Pool Water Treatment Installation in Government Buildings of the HKSAR published by the ArchSD, "the water velocity <i>phases shall be sufficient to maintain the filter in duration of 7 minutes for sand filter</i> " Technical Paper - Domestic Swimming Pool Filtration by European Union of Swimmingpool and Spa Associations

Appendix 6-2 Population Estimation for Catchment Areas

Description		Reference	
A8 New Development at No.41, 43 and 45 Perkins Road			
Total Area (m2)	1871		
Allowable Plot Ratio	1	With reference to the Approved Tai Hang and Wong Nai Chung Gap Outline Zoning Plan (SH13/12), for Residential (Group C) 3, maximum plot ratio of 1 and maximum building height of 6 storeys including carports is allowed.	
Gross Floor Area (GFA) (m2)	1871		
Number of Households	9	With reference to Chapter 2 (Residential) of HKPSG, the flat size is assume to be 210m2 (Residential Type 3)	
Average Household Size (2021) in Wan Chai	2.6	https://www.census2021.gov.hk/en/district_profiles.html	
Total Pop.	24		
Average Population Growth Per Year	0.00%	According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of Wan Chai in 2023 is -1.3%. For conservative approach, population growth of 0% is adopted.	
Est. Pop. (persons) (2030)	24		
Description		Reference	
A9 Pinewood Garden			
No. of Households	19	https://www.midland.com.hk/en/estate/hong-kong-island-jardine-s-lookout-Tai-Hang-Pinewood-Garden-607061	
Average Household Size (2021) in Wan Chai	2.6	https://www.census2021.gov.hk/en/district_profiles.html	
Total Pop.	50		
Average Population Growth Per Year	0.00%	According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of Wan Chai in 2023 is -1.3%. For conservative approach, population growth of 0% is adopted.	
Est. Pop. (persons) (2030)	50		
Description		Reference	
A10 Dukes Place			
No. of Households	16	https://www.midland.com.hk/en/estate/hong-kong-island-jardine-s-lookout-Tai-Hang-Dukes-Place-E000016636	
Average Household Size (2021) in Wan Chai	2.6	https://www.census2021.gov.hk/en/district_profiles.html	
Total Pop.	42		
Average Population Growth Per Year	0.00%	According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of Wan Chai in 2023 is -1.3%. For conservative approach, population growth of 0% is adopted.	
Est. Pop. (persons) (2030)	42		
Swimming Pool			
Swimming Pool Area, m2	104		
Height of Swimming Pool, m	1.5		
Estimated volume of the Swimming pool, m³	156		
Turnover Rate, hour	6	General Specification for Swimming Pool Water Treatment Installation in Government Buildings of The Hong Kong Special Administrative Region	
Surface Loading Rate of Filter, m³/m²/hr	50	Swimming Pools: Design and Construction, Fourth Edition By Philip H. Perkins (50 m³/m²/hr adopted)	
Required Filter Area, m²	0.52		
Backwash Duration (mins)	7.00	With reference to Section B8.5.5 of General Specification for Swimming Pool Water Treatment Installation in Government Buildings of the HKSAR published by the ArchSD, "the water velocity chosen shall be effective in cleaning the filter in duration of 7 minutes for sand filter".	
Backwash Flow Rate, m³/m²/hr	30	Technical Paper - Domestic Swimming Pool Filtration by European Union of Swimmingpool and Spa Associations	
Maximum backwash volume, m³	1.82		
Maximum backwash volume, L/s	4.33		
Maximum backwash volume, m³/s	0.004		
Description		Reference	
A11 No.3 Moorsom Road			
No. of Households	1	https://www.midland.com.hk/en/estate/hong-kong-jardine-s-lookout-Tai-Hang-3-Moorsom-Road-E000007380	
Average Household Size (2021) in Wan Chai	2.6	https://www.census2021.gov.hk/en/district_profiles.html	
Total Pop.	3		
Average Population Growth Per Year	0.00%	According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of Wan Chai in 2023 is -1.3%. For conservative approach, population growth of 0% is adopted.	
Est. Pop. (persons) (2030)	3		
Description		Reference	
A12 No.5 Moorsom Road			
No. of Households	1	https://www.midland.com.hk/en/estate/hong-kong-jardine-s-lookout-Tai-Hang-5-Moorsom-Road-E000008660	
Average Household Size (2021) in Wan Chai	2.6	https://www.census2021.gov.hk/en/district_profiles.html	
Total Pop.	3		
Average Population Growth Per Year	0.00%	According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of Wan Chai in 2023 is -1.3%. For conservative approach, population growth of 0% is adopted.	
Est. Pop. (persons) (2030)	3		
Description		Reference	
A13 No.7 Moorsom Road			
No. of Households	1	https://www.midland.com.hk/en/estate/hong-kong-7-Moorsom-Road-E000011810	
Average Household Size (2021) in Wan Chai	2.6	https://www.census2021.gov.hk/en/district_profiles.html	
Total Pop.	3		
Average Population Growth Per Year	0.00%	According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of Wan Chai in 2023 is -1.3%. For conservative approach, population growth of 0% is adopted.	
Est. Pop. (persons) (2030)	3		
Description		Reference	
A14 No.9 Moorsom Road			
No. of Households	1	https://www.midland.com.hk/en/estate/hong-kong-jardine-s-lookout-Tai-Hang-9-Moorsom-Road-E000011811	
Average Household Size (2021) in Wan Chai	2.6	https://www.census2021.gov.hk/en/district_profiles.html	
Total Pop.	3		
Average Population Growth Per Year	0.00%	According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of Wan Chai in 2023 is -1.3%. For conservative approach, population growth of 0% is adopted.	
Est. Pop. (persons) (2030)	3		
Description		Reference	
A15 No.11 Moorsom Road			
No. of Households	1	https://www.midland.com.hk/en/estate/hong-kong-jardine-s-lookout-Tai-Hang-11-Moorsom-Road-E000008326	
Average Household Size (2021) in Wan Chai	2.6	https://www.census2021.gov.hk/en/district_profiles.html	
Total Pop.	3		
Average Population Growth Per Year	0.00%	According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of Wan Chai in 2023 is -1.3%. For conservative approach, population growth of 0% is adopted.	
Est. Pop. (persons) (2030)	3		
Description		Reference	
A16 No.15 Moorsom Road			
No. of Households	1	https://hk.cerinet.com/estate/en/15%20Moorsom%20Road/2-TZMTZHMYHL	
Average Household Size (2021) in Wan Chai	2.6	https://www.census2021.gov.hk/en/district_profiles.html	
Total Pop.	3		
Average Population Growth Per Year	0.00%	According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of Wan Chai in 2023 is -1.3%. For conservative approach, population growth of 0% is adopted.	
Est. Pop. (persons) (2030)	3		
Description		Reference	
A17 No.17 Moorsom Road			
No. of Households	1	https://hk.cerinet.com/estate/en/17%20MOORSOM%20ROAD/1-TZMTZHMYHL	
Average Household Size (2021) in Wan Chai	2.6	https://www.census2021.gov.hk/en/district_profiles.html	
Total Pop.	3		
Average Population Growth Per Year	0.00%	According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of Wan Chai in 2023 is -1.3%. For conservative approach, population growth of 0% is adopted.	
Est. Pop. (persons) (2030)	3		
Description		Reference	
A18 No.19 Moorsom Road			
No. of Households	1	https://hk.cerinet.com/estate/en/19%20MOORSOM%20ROAD/1-TZMTZHMYHL	
Average Household Size (2021) in Wan Chai	2.6	https://www.census2021.gov.hk/en/district_profiles.html	
Total Pop.	3		
Average Population Growth Per Year	0.00%	According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of Wan Chai in 2023 is -1.3%. For conservative approach, population growth of 0% is adopted.	
Est. Pop. (persons) (2030)	3		

Appendix 6-2 Population Estimation for Catchment Areas

Description		Reference	
A19 Jardine's Lookout Garden Houses (No.21-49 Moorsom Road)			
No. of Households	15	https://www.midland.com.hk/en/estate/hong-kong-island-jardine-s-lookout-tai-hang-jardine-s-lookout-garden-houses-E04416	
Average Household Size (2021) in Wan Chai	2.6	https://www.census2021.gov.hk/en/district_profiles.html	
Total Pop.	39		
Average Population Growth Per Year	0.00%	According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of Wan Chai in 2023 is -1.3%. For conservative approach, population growth of 0% is adopted.	
Est. Pop. [persons] (2030)	39		
Flat size assumption (Hong Kong & Kowloon)			
R3 (210m2 per flat)	15	GFA of flat is 159-236m2. The area of unit is >110m2. Adopting R3 to represent a worst case scenario.	
Description		Reference	
A20 No.1 Moorsom Drive			
No. of Households	1	https://www.midland.com.hk/en/estate/hong-kong-island-jardine-s-lookout-tai-hang-1-moorsom-drive-E000008329	
Average Household Size (2021) in Wan Chai	2.6	https://www.census2021.gov.hk/en/district_profiles.html	
Total Pop.	3		
Average Population Growth Per Year	0.00%	According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of Wan Chai in 2023 is -1.3%. For conservative approach, population growth of 0% is adopted.	
Est. Pop. [persons] (2030)	3		
Swimming Pool			
Swimming Pool Area, m2	84		
Height of Swimming Pool, m	1.5		
Estimated volume of the Swimming pool, m³	126		
Turnover Rate, hour	6	General Specification for Swimming Pool Water Treatment Installation in Government Buildings of The Hong Kong Special Administrative Region	
Surface Loading Rate of Filter, m³/m²/hr	50	Swimming Pools: Design and Construction, Fourth Edition By Philip H. Perkins (50 m3/m2hr adopted)	
Required Filter Area, m²	0.42		
Backwash Duration (mins)	7.00	With reference to Section B8.5.5 of General Specification for Swimming Pool Water Treatment Installation in Government Buildings of the HKSAR published by the ArchSD, "the water velocity chosen shall be effective in cleaning the filter in duration of 7 minutes for sand filter".	
Backwash Flow Rate, m³/m²/hr	30	Technical Paper - Domestic Swimming Pool Filtration by European Union of Swimmingpool and Spa Associations	
Maximum backwash volume, m³	1.5		
Maximum backwash volume, L/s	3.50		
Maximum backwash volume, m3/s	0.004		
Description		Reference	
A21 No.2 Moorsom Drive			
No. of Households	1	https://www.midland.com.hk/en/estate/hong-kong-island-jardine-s-lookout-tai-hang-2-moorsom-drive-E000008506	
Average Household Size (2021) in Wan Chai	2.6	https://www.census2021.gov.hk/en/district_profiles.html	
Total Pop.	3		
Average Population Growth Per Year	0.00%	According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of Wan Chai in 2023 is -1.3%. For conservative approach, population growth of 0% is adopted.	
Est. Pop. [persons] (2030)	3		
Description		Reference	
A22 No.3 Moorsom Drive			
No. of Households	1	https://www.google.com/search?q=3+moorsom+drive%2C+jardine%27s+lookout&rlz=1C1CH2O_en-GBHK913HK913&asr=AJeK01v0Lk3v6LKSITfalyQm9pd3tcw%3A162878183293&ae=2ocLj	
Average Household Size (2021) in Wan Chai	2.6	https://www.census2021.gov.hk/en/district_profiles.html	
Total Pop.	3		
Average Population Growth Per Year	0.00%	According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of Wan Chai in 2023 is -1.3%. For conservative approach, population growth of 0% is adopted.	
Est. Pop. [persons] (2030)	3		
Swimming Pool			
Swimming Pool Area, m2	31		
Height of Swimming Pool, m	1.5		
Estimated volume of the Swimming pool, m³	47		
Turnover Rate, hour	6	General Specification for Swimming Pool Water Treatment Installation in Government Buildings of The Hong Kong Special Administrative Region	
Surface Loading Rate of Filter, m³/m²/hr	50	Swimming Pools: Design and Construction, Fourth Edition By Philip H. Perkins (50 m3/m2hr adopted)	
Required Filter Area, m²	0.16		
Backwash Duration (mins)	7.00	With reference to Section B8.5.5 of General Specification for Swimming Pool Water Treatment Installation in Government Buildings of the HKSAR published by the ArchSD, "the water velocity chosen shall be effective in cleaning the filter in duration of 7 minutes for sand filter".	
Backwash Flow Rate, m³/m²/hr	30	Technical Paper - Domestic Swimming Pool Filtration by European Union of Swimmingpool and Spa Associations	
Maximum backwash volume, m³	0.5		
Maximum backwash volume, L/s	1.29		
Maximum backwash volume, m3/s	0.001		
Description		Reference	
A23 No.4 Moorsom Drive			
No. of Households	1	https://www.midland.com.hk/en/estate/hong-kong-island-jardine-s-lookout-tai-hang-4-moorsom-drive-E000011806	
Average Household Size (2021) in Wan Chai	2.6	https://www.census2021.gov.hk/en/district_profiles.html	
Total Pop.	3		
Average Population Growth Per Year	0.00%	According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of Wan Chai in 2023 is -1.3%. For conservative approach, population growth of 0% is adopted.	
Est. Pop. [persons] (2030)	3		
Description		Reference	
A24 No.5 Moorsom Drive			
No. of Households	1	https://www.midland.com.hk/en/estate/hong-kong-island-jardine-s-lookout-tai-hang-5-moorsom-drive-E000007698	
Average Household Size (2021) in Wan Chai	2.6	https://www.census2021.gov.hk/en/district_profiles.html	
Total Pop.	3		
Average Population Growth Per Year	0.00%	According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of Wan Chai in 2023 is -1.3%. For conservative approach, population growth of 0% is adopted.	
Est. Pop. [persons] (2030)	3		
Description		Reference	
A25 No.6 Moorsom Drive			
No. of Households	1	https://www.midland.com.hk/en/estate/hong-kong-jardine-s-lookout-tai-hang-6-moorsom-drive-E0000112542	
Average Household Size (2021) in Wan Chai	2.6	https://www.census2021.gov.hk/en/district_profiles.html	
Total Pop.	3		
Average Population Growth Per Year	0.00%	According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of Wan Chai in 2023 is -1.3%. For conservative approach, population growth of 0% is adopted.	
Est. Pop. [persons] (2030)	3		
Description		Reference	
A26 No.7 Moorsom Drive			
No. of Households	1	https://www.midland.com.hk/en/estate/hong-kong-island-jardine-s-lookout-tai-hang-7-moorsom-drive-E000011807	
Average Household Size (2021) in Wan Chai	2.6	https://www.census2021.gov.hk/en/district_profiles.html	
Total Pop.	3		
Average Population Growth Per Year	0.00%	According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of Wan Chai in 2023 is -1.3%. For conservative approach, population growth of 0% is adopted.	
Est. Pop. [persons] (2030)	3		

Appendix 6-2 Population Estimation for Catchment Areas

Description			Reference
A27	No.8 Moorsom Drive		
	No. of Households	1	https://www.midland.com.hk/en/estate/Hong-Kong-Jardine'S-Lookout-Tai-Hang-8-Moorsom-Drive-E000011808
	Average Household Size (2021) in Wan Chai	2.6	https://www.census2021.gov.hk/en/district_profiles.html
	Total Pop.	3	
	Average Population Growth Per Year	0.00%	According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of Wan Chai in 2023 is -1.3%. For conservative approach, population growth of 0% is adopted.
	Est. Pop. (persons) (2030)	3	
Description			Reference
A28	No.9 Moorsom Drive		
	No. of Households	1	https://www.midland.com.hk/en/estate/Hong-Kong-9-Moorsom-Drive-E000011809
	Average Household Size (2021) in Wan Chai	2.6	https://www.census2021.gov.hk/en/district_profiles.html
	Total Pop.	3	
	Average Population Growth Per Year	0.00%	According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of Wan Chai in 2023 is -1.3%. For conservative approach, population growth of 0% is adopted.
	Est. Pop. (persons) (2030)	3	
Description			Reference
A29	Butler Towers		
	No. of Households	118	https://www.midland.com.hk/en/estate/Hong-Kong-Island-Jardine-s-Lookout-Tai-Hang-Butler-Towers-E01661
	Average Household Size (2021) in Wan Chai	2.6	https://www.census2021.gov.hk/en/district_profiles.html
	Total Pop.	307	
	Average Population Growth Per Year	0.00%	According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of Wan Chai in 2023 is -1.3%. For conservative approach, population growth of 0% is adopted.
	Est. Pop. (persons) (2030)	307	
Description			Reference
A30	Wing On Towers		
	No. of Households	68	https://www.midland.com.hk/en/estate/Hong-Kong-Island-Jardine-s-Lookout-Tai-Hang-Wing-On-Towers-E00926
	Average Household Size (2021) in Wan Chai	2.6	https://www.census2021.gov.hk/en/district_profiles.html
	Total Pop.	177	
	Average Population Growth Per Year	0.00%	According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of Wan Chai in 2023 is -1.3%. For conservative approach, population growth of 0% is adopted.
	Est. Pop. (persons) (2030)	177	
Description			Reference
A31	No.2 Boyce Road		
	No. of Households	1	https://www.midland.com.hk/en/estate/Hong-Kong-Island-Jardine-s-Lookout-Tai-Hang-2-Boyce-Road-E000007361
	Average Household Size (2021) in Wan Chai	2.6	https://www.census2021.gov.hk/en/district_profiles.html
	Total Pop.	3	
	Average Population Growth Per Year	0.00%	According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of Wan Chai in 2023 is -1.3%. For conservative approach, population growth of 0% is adopted.
	Est. Pop. (persons) (2030)	3	
Description			Reference
A32	No.4 Boyce Road		
	No. of Households	1	https://www.midland.com.hk/en/estate/Hong-Kong-Jardine'S-Lookout-Tai-Hang-4-Boyce-Road-E000007612
	Average Household Size (2021) in Wan Chai	2.6	https://www.census2021.gov.hk/en/district_profiles.html
	Total Pop.	3	
	Average Population Growth Per Year	0.00%	According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of Wan Chai in 2023 is -1.3%. For conservative approach, population growth of 0% is adopted.
	Est. Pop. (persons) (2030)	3	
Description			Reference
A33	No.6 Boyce Road		
	No. of Households	1	https://www.midland.com.hk/en/estate/Hong-Kong-Jardine'S-Lookout-Tai-Hang-6-Boyce-Road-E000007613
	Average Household Size (2021) in Wan Chai	2.6	https://www.census2021.gov.hk/en/district_profiles.html
	Total Pop.	3	
	Average Population Growth Per Year	0.00%	According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of Wan Chai in 2023 is -1.3%. For conservative approach, population growth of 0% is adopted.
	Est. Pop. (persons) (2030)	3	
Description			Reference
A34	No.8 Boyce Road		
	No. of Households	1	https://www.midland.com.hk/en/estate/Hong-Kong-Island-Jardine'S-Lookout-Tai-Hang-8-Boyce-Road-E000007614
	Average Household Size (2021) in Wan Chai	2.6	https://www.census2021.gov.hk/en/district_profiles.html
	Total Pop.	3	
	Average Population Growth Per Year	0.00%	According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of Wan Chai in 2023 is -1.3%. For conservative approach, population growth of 0% is adopted.
	Est. Pop. (persons) (2030)	3	
Description			Reference
A35	No.10 Boyce Road		
	No. of Households	1	https://www.midland.com.hk/en/estate/Hong-Kong-10-Boyce-Road-E000007611
	Average Household Size (2021) in Wan Chai	2.6	https://www.census2021.gov.hk/en/district_profiles.html
	Total Pop.	3	
	Average Population Growth Per Year	0.00%	According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of Wan Chai in 2023 is -1.3%. For conservative approach, population growth of 0% is adopted.
	Est. Pop. (persons) (2030)	3	
Description			Reference
A36	Linden Height		
	No. of Households	36	https://www.enquiryhomehk.com/properties/jardine-lookout/roder-height/200617
	Average Household Size (2021) in Wan Chai	2.6	https://www.census2021.gov.hk/en/district_profiles.html
	Total Pop.	94	
	Average Population Growth Per Year	0.00%	According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of Wan Chai in 2023 is -1.3%. For conservative approach, population growth of 0% is adopted.
	Est. Pop. (persons) (2030)	94	
Description			Reference
A37	No.12 Boyce Road		
	No. of Households	6	https://hk.cerantet.com/estate/en/12%20BOYCE%20ROAD/1-SKBAPPPXW
	Average Household Size (2021) in Wan Chai	2.6	https://www.census2021.gov.hk/en/district_profiles.html
	Total Pop.	16	
	Average Population Growth Per Year	0.00%	According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of Wan Chai in 2023 is -1.3%. For conservative approach, population growth of 0% is adopted.
	Est. Pop. (persons) (2030)	16	
Description			Reference
A38	No.6 Moorsom Road		
	No. of Households	1	https://www.oneday.com.hk/en_US/buildings/6-moorsom-road/
	Average Household Size (2021) in Wan Chai	2.6	https://www.census2021.gov.hk/en/district_profiles.html
	Total Pop.	3	
	Average Population Growth Per Year	0.00%	According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of Wan Chai in 2023 is -1.3%. For conservative approach, population growth of 0% is adopted.
	Est. Pop. (persons) (2030)	3	
Description			Reference
A39	No.8 Moorsom Road		
	No. of Households	1	https://www.okay.com/en/building/8-moorsom-road/5492
	Average Household Size (2021) in Wan Chai	2.6	https://www.census2021.gov.hk/en/district_profiles.html
	Total Pop.	3	
	Average Population Growth Per Year	0.00%	According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of Wan Chai in 2023 is -1.3%. For conservative approach, population growth of 0% is adopted.
	Est. Pop. (persons) (2030)	3	

Appendix 6-2 Population Estimation for Catchment Areas

Description			Reference
A40 No.10 Moorsom Road	No. of Households	1	https://hk.censtat.com/estate/en/10-Moorsom-Road/2-TZ17Z-HA/HK
	Average Household Size (2021) in Wan Chai	2.6	https://www.census2021.gov.hk/en/district_profiles.html
	Total Pop.	3	
	Average Population Growth Per Year	0.00%	According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of Wan Chai in 2023 is -1.3%. For conservative approach, population growth of 0% is adopted.
	Est. Pop. (persons) (2030)	3	
Swimming Pool	Swimming Pool Area, m ²	37	
	Height of Swimming Pool, m	1.5	
	Estimated volume of the Swimming pool, m ³	56	
	Turnover Rate, hour	6	General Specification for Swimming Pool Water Treatment Installation in Government Buildings of The Hong Kong Special Administrative Region
	Surface Loading Rate of Filter, m ³ /m ² /hr	50	Swimming Pools: Design and Construction, Fourth Edition By Philip H. Perkins (50 m ³ /m ² /hr adopted)
	Required Filter Area, m ²	0.19	
	Backwash Duration (mins)	7.00	With reference to Section B8.5.5 of General Specification for Swimming Pool Water Treatment Installation in Government Buildings of the HKSAR published by the ArchSD, "the water velocity chosen shall be effective in cleaning the filter in duration of 7 minutes for sand filter".
	Backwash Flow Rate, m ³ /m ² /hr	30	Technical Paper - Domestic Swimming Pool Filtration by European Union of Swimmingpool and Spa Associations
	Maximum backwash volume, m ³	0.6	
	Maximum backwash volume, L/s	1.54	
	Maximum backwash volume, m ³ /s	0.002	
Description			Reference
A41 No.12 Moorsom Road	No. of Households	1	https://www.midland.com.hk/en/estate/Hong-Kong-Island-Jardine-s-Logout-Tai-Hang-12-Moorsom-Road-E000011815
	Average Household Size (2021) in Wan Chai	2.6	https://www.census2021.gov.hk/en/district_profiles.html
	Total Pop.	3	
	Average Population Growth Per Year	0.00%	According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of Wan Chai in 2023 is -1.3%. For conservative approach, population growth of 0% is adopted.
	Est. Pop. (persons) (2030)	3	
Description			Reference
A42 No.14 Moorsom Road	No. of Households	1	https://www.midland.com.hk/en/estate/Hong-Kong-Island-Jardine-S-Logout-Tai-Hang-14-Moorsom-Road-E000008213
	Average Household Size (2021) in Wan Chai	2.6	https://www.census2021.gov.hk/en/district_profiles.html
	Total Pop.	3	
	Average Population Growth Per Year	0.00%	According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of Wan Chai in 2023 is -1.3%. For conservative approach, population growth of 0% is adopted.
	Est. Pop. (persons) (2030)	3	
Description			Reference
A43 Moorsom Lodge	No. of Households	6	https://www.midland.com.hk/en/estate/Hong-Kong-Island-Jardine-S-Logout-Tai-Hang-Moorsom-Lodge-E06420
	Average Household Size (2021) in Wan Chai	2.6	https://www.census2021.gov.hk/en/district_profiles.html
	Total Pop.	16	
	Average Population Growth Per Year	0.00%	According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of Wan Chai in 2023 is -1.3%. For conservative approach, population growth of 0% is adopted.
	Est. Pop. (persons) (2030)	16	
Description			Reference
A44 No.53 Perkins Road	No. of Households	1	https://www.midland.com.hk/en/estate/Hong-Kong-Island-Jardine-S-Logout-Tai-Hang-53-Perkins-Road-E000011819
	Average Household Size (2021) in Wan Chai	2.6	https://www.census2021.gov.hk/en/district_profiles.html
	Total Pop.	3	
	Average Population Growth Per Year	0.00%	According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of Wan Chai in 2023 is -1.3%. For conservative approach, population growth of 0% is adopted.
	Est. Pop. (persons) (2030)	3	
Swimming Pool	Swimming Pool Area, m ²	85	
	Height of Swimming Pool, m	1.5	
	Estimated volume of the Swimming pool, m ³	127	
	Turnover Rate, hour	6	General Specification for Swimming Pool Water Treatment Installation in Government Buildings of The Hong Kong Special Administrative Region
	Surface Loading Rate of Filter, m ³ /m ² /hr	50	Swimming Pools: Design and Construction, Fourth Edition By Philip H. Perkins (50 m ³ /m ² /hr adopted)
	Required Filter Area, m ²	0.42	
	Backwash Duration (mins)	7.00	With reference to Section B8.5.5 of General Specification for Swimming Pool Water Treatment Installation in Government Buildings of the HKSAR published by the ArchSD, "the water velocity chosen shall be effective in cleaning the filter in duration of 7 minutes for sand filter".
	Backwash Flow Rate, m ³ /m ² /hr	30	Technical Paper - Domestic Swimming Pool Filtration by European Union of Swimmingpool and Spa Associations
	Maximum backwash volume, m ³	1.5	
	Maximum backwash volume, L/s	3.53	
	Maximum backwash volume, m ³ /s	0.004	
Description			Reference
A45 No.55 Perkins Road	No. of Households	1	https://www.midland.com.hk/en/estate/Hong-Kong-Island-Jardine-S-Logout-Tai-Hang-55-Perkins-Road-E000011819
	Average Household Size (2021) in Wan Chai	2.6	https://www.census2021.gov.hk/en/district_profiles.html
	Total Pop.	3	
	Average Population Growth Per Year	0.00%	According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of Wan Chai in 2023 is -1.3%. For conservative approach, population growth of 0% is adopted.
	Est. Pop. (persons) (2030)	3	
Description			Reference
A46 Minton Court	No. of Households	7	https://www.midland.com.hk/en/estate/Hong-Kong-Island-Jardine-S-Logout-Tai-Hang-Minton-Court-E06376
	Average Household Size (2021) in Wan Chai	2.6	https://www.census2021.gov.hk/en/district_profiles.html
	Total Pop.	19	
	Average Population Growth Per Year	0.00%	According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of Wan Chai in 2023 is -1.3%. For conservative approach, population growth of 0% is adopted.
	Est. Pop. (persons) (2030)	19	
Description			Reference
A47 No.59 Perkins Road	No. of Households	1	https://www.midland.com.hk/en/estate/Hong-Kong-Island-Jardine-S-Logout-Tai-Hang-59-Perkins-Road-E000006999
	Average Household Size (2021) in Wan Chai	2.6	https://www.census2021.gov.hk/en/district_profiles.html
	Total Pop.	3	
	Average Population Growth Per Year	0.00%	According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of Wan Chai in 2023 is -1.3%. For conservative approach, population growth of 0% is adopted.
	Est. Pop. (persons) (2030)	3	
Description			Reference
A48 Falcon Lodge	No. of Households	5	https://www.midland.com.hk/en/estate/Hong-Kong-Island-Jardine-S-Logout-Tai-Hang-Falcon-Lodge-E02758
	Average Household Size (2021) in Wan Chai	2.6	https://www.census2021.gov.hk/en/district_profiles.html
	Total Pop.	13	
	Average Population Growth Per Year	0.00%	According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of Wan Chai in 2023 is -1.3%. For conservative approach, population growth of 0% is adopted.
	Est. Pop. (persons) (2030)	13	

Appendix 6-2 Population Estimation for Catchment Areas

Description			Reference
A49 No.69 Perkins Road	No. of Households	6	https://www.okay.com/en/building/69-perkins-road/rent/3482
	Average Household Size (2021) in Wan Chai	2.6	https://www.census2021.gov.hk/en/district_profiles.html
	Total Pop.	16	
	Average Population Growth Per Year	0.00%	According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of Wan Chai in 2023 is -1.3%. For conservative approach, population growth of 0% is adopted.
	Est. Pop. (persons) (2030)	16	
Description			Reference
A50 No.71 Perkins Road	No. of Households	3	https://www.okay.com/en/building/69-perkins-road/rent/3482
	Average Household Size (2021) in Wan Chai	2.6	https://www.census2021.gov.hk/en/district_profiles.html
	Total Pop.	8	
	Average Population Growth Per Year	0.00%	According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of Wan Chai in 2023 is -1.3%. For conservative approach, population growth of 0% is adopted.
	Est. Pop. (persons) (2030)	8	
Description			Reference
A51 No.73 Perkins Road	No. of Households	1	https://www.midland.com.hk/en/estate/Hong-Kong-Island-Jardine-s-Lookout-Tai-Hang-73-Perkins-Road-E000018271
	Average Household Size (2021) in Wan Chai	2.6	https://www.census2021.gov.hk/en/district_profiles.html
	Total Pop.	3	
	Average Population Growth Per Year	0.00%	According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of Wan Chai in 2023 is -1.3%. For conservative approach, population growth of 0% is adopted.
	Est. Pop. (persons) (2030)	3	
Flat size assumption (Hong Kong & Kowloon)			
R3 (210m2 per flat)	1	GFA of flat is 513m2. The area of unit is >110m2. Adopting R3 to represent a worst case scenario.	
Description			Reference
A52 No.75 Perkins Road	No. of Households	2	https://www.midland.com.hk/en/estate/Hong-Kong-Island-Jardine-s-Lookout-Tai-Hang-75-Perkins-Road-E000011821
	Average Household Size (2021) in Wan Chai	2.6	https://www.census2021.gov.hk/en/district_profiles.html
	Total Pop.	6	
	Average Population Growth Per Year	0.00%	According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of Wan Chai in 2023 is -1.3%. For conservative approach, population growth of 0% is adopted.
	Est. Pop. (persons) (2030)	6	
Description			Reference
A53 No.77 Perkins Road	No. of Households	1	https://www.midland.com.hk/en/estate/Hong-Kong-Island-Jardine-s-Lookout-Tai-Hang-77-Perkins-Road-E000013147
	Average Household Size (2021) in Wan Chai	2.6	https://www.census2021.gov.hk/en/district_profiles.html
	Total Pop.	3	
	Average Population Growth Per Year	0.00%	According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of Wan Chai in 2023 is -1.3%. For conservative approach, population growth of 0% is adopted.
	Est. Pop. (persons) (2030)	3	
Swimming Pool			
Swimming Pool Area, m2	38		
Height of Swimming Pool, m	1.5		
Estimated volume of the Swimming pool, m³	57		
Turnover Rate, hour	6	General Specification for Swimming Pool Water Treatment Installation in Government Buildings of The Hong Kong Special Administrative Region	
Surface Loading Rate of Filter, m³/m²/hr	50	Swimming Pools: Design and Construction, Fourth Edition By Philip H. Perkins (50 m³/m²/hr adopted)	
Required Filter Area, m²	0.19		
Backwash Duration (mins)	7.00	With reference to Section B8.5.5 of General Specification for Swimming Pool Water Treatment Installation in Government Buildings of the HKSAR published by the ArchSD, "the water velocity chosen shall be effective in cleaning the filter in duration of 7 minutes for sand filter".	
Backwash Flow Rate, m³/m²/hr	30	Technical Paper - Domestic Swimming Pool Filtration by European Union of Swimmingpool and Spa Associations	
Maximum backwash volume, m³	0.7		
Maximum backwash volume, L/s	1.98		
Maximum backwash volume, m3/s	0.002		
Description			Reference
A54 No.79 Perkins Road	No. of Households	1	https://hk.centanet.com/estate/en/79%20PERKINS%20ROAD%201-SKSASBPQHPW
	Average Household Size (2021) in Wan Chai	2.6	https://www.census2021.gov.hk/en/district_profiles.html
	Total Pop.	3	
	Average Population Growth Per Year	0.00%	According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of Wan Chai in 2023 is -1.3%. For conservative approach, population growth of 0% is adopted.
	Est. Pop. (persons) (2030)	3	
Description			Reference
A55 No.81 Perkins Road	No. of Households	1	https://hk.centanet.com/estate/en/81%20PERKINS%20ROAD%201-SKQYBPQAPW
	Average Household Size (2021) in Wan Chai	2.6	https://www.census2021.gov.hk/en/district_profiles.html
	Total Pop.	3	
	Average Population Growth Per Year	0.00%	According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of Wan Chai in 2023 is -1.3%. For conservative approach, population growth of 0% is adopted.
	Est. Pop. (persons) (2030)	3	
Description			Reference
A56 No.83 Perkins Road	No. of Households	1	https://hk.centanet.com/estate/en/83-Perkins-Road%201-SKYAGPGXPW
	Average Household Size (2021) in Wan Chai	2.6	https://www.census2021.gov.hk/en/district_profiles.html
	Total Pop.	3	
	Average Population Growth Per Year	0.00%	According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of Wan Chai in 2023 is -1.3%. For conservative approach, population growth of 0% is adopted.
	Est. Pop. (persons) (2030)	3	
Description			Reference
A57 No.2 Perkins Road	No. of Households	1	https://www.midland.com.hk/en/estate/Hong-Kong-Jardine-s-Lookout-Tai-Hang-2-Perkins-Road-E000013142
	Average Household Size (2021) in Wan Chai	2.6	https://www.census2021.gov.hk/en/district_profiles.html
	Total Pop.	3	
	Average Population Growth Per Year	0.00%	According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of Wan Chai in 2023 is -1.3%. For conservative approach, population growth of 0% is adopted.
	Est. Pop. (persons) (2030)	3	
Description			Reference
A58 No.4 Perkins Road	No. of Households	1	https://www.midland.com.hk/en/estate/Hong-Kong-Island-Jardine-s-Lookout-Tai-Hang-4-Perkins-Road-E000013143
	Average Household Size (2021) in Wan Chai	2.6	https://www.census2021.gov.hk/en/district_profiles.html
	Total Pop.	3	
	Average Population Growth Per Year	0.00%	According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of Wan Chai in 2023 is -1.3%. For conservative approach, population growth of 0% is adopted.
	Est. Pop. (persons) (2030)	3	

Appendix 6-2 Population Estimation for Catchment Areas

Description			Reference
A59 No.6 Perkins Road			
No. of Households	1	https://www.midland.com.hk/en/estate/Hong-Kong-Island-Jardine-s-Lookout-Tai-Hang-6-Perkins-Road-E000013145	
Average Household Size (2021) in Wan Chai	2.6	https://www.census2021.gov.hk/en/district_profiles.html	
Total Pop.	3		
Average Population Growth Per Year	0.00%	According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of Wan Chai in 2023 is -1.3%. For conservative approach, population growth of 0% is adopted.	
Est. Pop. (persons) (2030)	3		
Swimming Pool			
Swimming Pool Area, m2	129		
Height of Swimming Pool, m	1.5		
Estimated volume of the Swimming pool, m ³	194		
Turnover Rate, hour	6	General Specification for Swimming Pool Water Treatment Installation in Government Buildings of The Hong Kong Special Administrative Region	
Surface Loading Rate of Filter, m ³ /m ² /hr	50	Swimming Pools: Design and Construction, Fourth Edition By Philip H. Perkins (50 m ³ /m ² /hr adopted)	
Required Filter Area, m ²	0.65		
Backwash Duration (mins)	7.00	With reference to Section B8.5.5 of General Specification for Swimming Pool Water Treatment Installation in Government Buildings of the HKSAR published by the ArchSD, "the water velocity chosen shall be effective in cleaning the filter in duration of 7 minutes for sand filter".	
Backwash Flow Rate, m ³ /m ² /hr	30	Technical Paper - Domestic Swimming Pool Filtration by European Union of Swimmingpool and Spa Associations	
Maximum backwash volume, m ³	2.3		
Maximum backwash volume, L/s	5.38		
Maximum backwash volume, m3/s	0.005		
A60 No.8 Perkins Road			
No. of Households	1	https://www.midland.com.hk/en/estate/Hong-Kong-Island-Jardine-s-Lookout-Tai-Hang-8-Perkins-Road-E000013148	
Average Household Size (2021) in Wan Chai	2.6	https://www.census2021.gov.hk/en/district_profiles.html	
Total Pop.	3		
Average Population Growth Per Year	0.00%	According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of Wan Chai in 2023 is -1.3%. For conservative approach, population growth of 0% is adopted.	
Est. Pop. (persons) (2030)	3		
A61 No.10 Perkins Road			
No. of Households	1	https://hk.centanet.com/estate/en/NO_1010NS20PERKINS20ROAD/1_5KPPWYHPW	
Average Household Size (2021) in Wan Chai	2.6	https://www.census2021.gov.hk/en/district_profiles.html	
Total Pop.	3		
Average Population Growth Per Year	0.00%	According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of Wan Chai in 2023 is -1.3%. For conservative approach, population growth of 0% is adopted.	
Est. Pop. (persons) (2030)	3		
Swimming Pool			
Swimming Pool Area, m2	108		
Height of Swimming Pool, m	1.5		
Estimated volume of the Swimming pool, m ³	162		
Turnover Rate, hour	6	General Specification for Swimming Pool Water Treatment Installation in Government Buildings of The Hong Kong Special Administrative Region	
Surface Loading Rate of Filter, m ³ /m ² /hr	50	Swimming Pools: Design and Construction, Fourth Edition By Philip H. Perkins (50 m ³ /m ² /hr adopted)	
Required Filter Area, m ²	0.54		
Backwash Duration (mins)	7.00	With reference to Section B8.5.5 of General Specification for Swimming Pool Water Treatment Installation in Government Buildings of the HKSAR published by the ArchSD, "the water velocity chosen shall be effective in cleaning the filter in duration of 7 minutes for sand filter".	
Backwash Flow Rate, m ³ /m ² /hr	30	Technical Paper - Domestic Swimming Pool Filtration by European Union of Swimmingpool and Spa Associations	
Maximum backwash volume, m ³	1.9		
Maximum backwash volume, L/s	4.50		
Maximum backwash volume, m3/s	0.005		
A62 No.12 Perkins Road			
No. of Households	1	https://www.midland.com.hk/en/estate/Hong-Kong-Jardine's-Lookout-Tai-Hang-12-Perkins-Road-E000013149	
Average Household Size (2021) in Wan Chai	2.6	https://www.census2021.gov.hk/en/district_profiles.html	
Total Pop.	3		
Average Population Growth Per Year	0.00%	According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of Wan Chai in 2023 is -1.3%. For conservative approach, population growth of 0% is adopted.	
Est. Pop. (persons) (2030)	3		
Swimming Pool			
Swimming Pool Area, m2	180		
Height of Swimming Pool, m	1.5		
Estimated volume of the Swimming pool, m ³	270		
Turnover Rate, hour	6	General Specification for Swimming Pool Water Treatment Installation in Government Buildings of The Hong Kong Special Administrative Region	
Surface Loading Rate of Filter, m ³ /m ² /hr	50	Swimming Pools: Design and Construction, Fourth Edition By Philip H. Perkins (50 m ³ /m ² /hr adopted)	
Required Filter Area, m ²	0.90		
Backwash Duration (mins)	7.00	With reference to Section B8.5.5 of General Specification for Swimming Pool Water Treatment Installation in Government Buildings of the HKSAR published by the ArchSD, "the water velocity chosen shall be effective in cleaning the filter in duration of 7 minutes for sand filter".	
Backwash Flow Rate, m ³ /m ² /hr	30	Technical Paper - Domestic Swimming Pool Filtration by European Union of Swimmingpool and Spa Associations	
Maximum backwash volume, m ³	3.2		
Maximum backwash volume, L/s	7.50		
Maximum backwash volume, m3/s	0.008		
A63 No.14 Perkins Road			
No. of Households	1	https://www.midland.com.hk/en/estate/Hong-Kong-Jardine's-Lookout-Tai-Hang-14-Perkins-Road-E000011821	
Average Household Size (2021) in Wan Chai	2.6	https://www.census2021.gov.hk/en/district_profiles.html	
Total Pop.	3		
Average Population Growth Per Year	0.00%	According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of Wan Chai in 2023 is -1.3%. For conservative approach, population growth of 0% is adopted.	
Est. Pop. (persons) (2030)	3		
A64 Redwoods			
No. of Households	1	https://hk.centanet.com/estate/en/Redwoods/1_5KEGPPDHFW	
Average Household Size (2021) in Wan Chai	2.6	https://www.census2021.gov.hk/en/district_profiles.html	
Total Pop.	3		
Average Population Growth Per Year	0.00%	According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of Wan Chai in 2023 is -1.3%. For conservative approach, population growth of 0% is adopted.	
Est. Pop. (persons) (2030)	3		
Swimming Pool			
Swimming Pool Area, m2	270		
Height of Swimming Pool, m	1.5		
Estimated volume of the Swimming pool, m ³	405		
Turnover Rate, hour	6	General Specification for Swimming Pool Water Treatment Installation in Government Buildings of The Hong Kong Special Administrative Region	
Surface Loading Rate of Filter, m ³ /m ² /hr	50	Swimming Pools: Design and Construction, Fourth Edition By Philip H. Perkins (50 m ³ /m ² /hr adopted)	
Required Filter Area, m ²	1.35		
Backwash Duration (mins)	7.00	With reference to Section B8.5.5 of General Specification for Swimming Pool Water Treatment Installation in Government Buildings of the HKSAR published by the ArchSD, "the water velocity chosen shall be effective in cleaning the filter in duration of 7 minutes for sand filter".	
Backwash Flow Rate, m ³ /m ² /hr	30	Technical Paper - Domestic Swimming Pool Filtration by European Union of Swimmingpool and Spa Associations	
Maximum backwash volume, m ³	4.7		
Maximum backwash volume, L/s	11.25		
Maximum backwash volume, m3/s	0.011		
A65 No.18 Perkins Road			
No. of Households	1	https://www.midland.com.hk/en/estate/Hong-Kong-Island-SHEKSHENATN/27NS4NSHENS/E518118-Perkins-Road-E000013141	
Average Household Size (2021) in Wan Chai	2.6	https://www.census2021.gov.hk/en/district_profiles.html	
Total Pop.	3		
Average Population Growth Per Year	0.00%	According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of Wan Chai in 2023 is -1.3%. For conservative approach, population growth of 0% is adopted.	
Est. Pop. (persons) (2030)	3		

Appendix 6-2 Population Estimation for Catchment Areas

Description			Reference
A66 No.20 Perkins Road	No. of Households	1	https://www.midland.com.hk/en/estate/Hong-Kong-Island-Jardine's-Lookout-Tai-Hang-20-Perkins-Road-E00007125
	Average Household Size (2021) in Wan Chai	2.6	https://www.census2021.gov.hk/en/district_profiles.html
	Total Pop.	3	
	Average Population Growth Per Year	0.00%	According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of Wan Chai in 2023 is -1.3%. For conservative approach, population growth of 0% is adopted.
	Est. Pop. (persons) (2030)	3	
Description			Reference
A67 No.22 Perkins Road	No. of Households	1	https://hk.centartest.com/estate/en/NO.2222%20PERKINS%20ROAD/7_56PPWPPWPW
	Average Household Size (2021) in Wan Chai	2.6	https://www.census2021.gov.hk/en/district_profiles.html
	Total Pop.	3	
	Average Population Growth Per Year	0.00%	According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of Wan Chai in 2023 is -1.3%. For conservative approach, population growth of 0% is adopted.
	Est. Pop. (persons) (2030)	3	
Description			Reference
A68 No.24 Perkins Road	No. of Households	1	https://www.midland.com.hk/en/estate/Hong-Kong-24-Perkins-Road-E000011824
	Average Household Size (2021) in Wan Chai	2.6	https://www.census2021.gov.hk/en/district_profiles.html
	Total Pop.	3	
	Average Population Growth Per Year	0.00%	According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of Wan Chai in 2023 is -1.3%. For conservative approach, population growth of 0% is adopted.
	Est. Pop. (persons) (2030)	3	
Description			Reference
A69 No.2 Henderson Road	No. of Households	1	https://www.squarefoot.com.hk/en/2-2-a-henderson-road-bid-33079/
	Average Household Size (2021) in Wan Chai	2.6	https://www.census2021.gov.hk/en/district_profiles.html
	Total Pop.	3	
	Average Population Growth Per Year	0.00%	According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of Wan Chai in 2023 is -1.3%. For conservative approach, population growth of 0% is adopted.
	Est. Pop. (persons) (2030)	3	
Description			Reference
A70 No.3 Henderson Road	No. of Households	1	https://www.midland.com.hk/en/estate/Hong-Kong-Jardine's-Lookout-Tai-Hang-3-Henderson-Road-E000015430
	Average Household Size (2021) in Wan Chai	2.6	https://www.census2021.gov.hk/en/district_profiles.html
	Total Pop.	3	
	Average Population Growth Per Year	0.00%	According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of Wan Chai in 2023 is -1.3%. For conservative approach, population growth of 0% is adopted.
	Est. Pop. (persons) (2030)	3	
Description			Reference
A71 No.4 Henderson Road	No. of Households	1	https://www.midland.com.hk/en/estate/Hong-Kong-4-Henderson-Road-E000011475
	Average Household Size (2021) in Wan Chai	2.6	https://www.census2021.gov.hk/en/district_profiles.html
	Total Pop.	3	
	Average Population Growth Per Year	0.00%	According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of Wan Chai in 2023 is -1.3%. For conservative approach, population growth of 0% is adopted.
	Est. Pop. (persons) (2030)	3	
Description			Reference
A72 No.5 Henderson Road	No. of Households	1	https://www.midland.com.hk/en/estate/Hong-Kong-4-Henderson-Road-E000011475
	Average Household Size (2021) in Wan Chai	2.6	https://www.census2021.gov.hk/en/district_profiles.html
	Total Pop.	3	
	Average Population Growth Per Year	0.00%	According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of Wan Chai in 2023 is -1.3%. For conservative approach, population growth of 0% is adopted.
	Est. Pop. (persons) (2030)	3	
Description			Reference
A73 No.6 Henderson Road	No. of Households	1	https://www.midland.com.hk/en/estate/Hong-Kong-Jardine's-Lookout-Tai-Hang-6-Henderson-Road-E000011478
	Average Household Size (2021) in Wan Chai	2.6	https://www.census2021.gov.hk/en/district_profiles.html
	Total Pop.	3	
	Average Population Growth Per Year	0.00%	According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of Wan Chai in 2023 is -1.3%. For conservative approach, population growth of 0% is adopted.
	Est. Pop. (persons) (2030)	3	
Description			Reference
A74 No.7 Henderson Road	No. of Households	1	https://www.midland.com.hk/en/estate/Hong-Kong-7-Henderson-Road-E000011476
	Average Household Size (2021) in Wan Chai	2.6	https://www.census2021.gov.hk/en/district_profiles.html
	Total Pop.	3	
	Average Population Growth Per Year	0.00%	According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of Wan Chai in 2023 is -1.3%. For conservative approach, population growth of 0% is adopted.
	Est. Pop. (persons) (2030)	3	
Description			Reference
A75 No.8 Henderson Road	No. of Households	1	https://hk.centartest.com/estate/en/8%20HENDERSON%20ROAD/7_5K0P9P9JW
	Average Household Size (2021) in Wan Chai	2.6	https://www.census2021.gov.hk/en/district_profiles.html
	Total Pop.	3	
	Average Population Growth Per Year	0.00%	According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of Wan Chai in 2023 is -1.3%. For conservative approach, population growth of 0% is adopted.
	Est. Pop. (persons) (2030)	3	
Description			Reference
A76 No.9 Henderson Road	No. of Households	1	https://www.midland.com.hk/en/estate/Hong-Kong-Island-Jardine's-Lookout-Tai-Hang-9-Henderson-Road-E000011477
	Average Household Size (2021) in Wan Chai	2.6	https://www.census2021.gov.hk/en/district_profiles.html
	Total Pop.	3	
	Average Population Growth Per Year	0.00%	According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of Wan Chai in 2023 is -1.3%. For conservative approach, population growth of 0% is adopted.
	Est. Pop. (persons) (2030)	3	
Description			Reference
A77 No.10 Henderson Road	No. of Households	1	https://www.midland.com.hk/en/estate/Hong-Kong-Jardine's-Lookout-Tai-Hang-10-Henderson-Road-E000008161
	Average Household Size (2021) in Wan Chai	2.6	https://www.census2021.gov.hk/en/district_profiles.html
	Total Pop.	3	
	Average Population Growth Per Year	0.00%	According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of Wan Chai in 2023 is -1.3%. For conservative approach, population growth of 0% is adopted.
	Est. Pop. (persons) (2030)	3	
Swimming Pool			
Swimming Pool Area, m ²	57		
Height of Swimming Pool, m	1.5		
Estimated volume of the Swimming pool, m ³	86		
Turnover Rate, hour	6	General Specification for Swimming Pool Water Treatment Installation in Government Buildings of The Hong Kong Special Administrative Region	
Surface Loading Rate of Filter, m ³ /m ² /hr	50	Swimming Pools: Design and Construction, Fourth Edition By Philip H. Perkins (50 m ³ /m ² /hr adopted)	
Required Filter Area, m ²	0.29		
Backwash Duration (mins)	7.00	With reference to Section B8.5.5 of General Specification for Swimming Pool Water Treatment Installation in Government Buildings of the HKSAR published by the ArchSD, "the water velocity chosen shall be effective in cleaning the filter in duration of 7 minutes for sand filter".	
Backwash Flow Rate, m ³ /m ² /hr	30	Technical Paper - Domestic Swimming Pool Filtration by European Union of Swimmingpool and Spa Associations	
Maximum backwash volume, m ³	1.0		
Maximum backwash volume, L/s	2.38		
Maximum backwash volume, m ³ /s	0.002		

Appendix 6-2 Population Estimation for Catchment Areas

Description			Reference
A78 No.11 Henderson Road	No. of Households	1	https://www.midland.com.hk/en/estate/hong-kong-island-jardine-s-lookout-Tai-Hang-11-Henderson-Road-4000007121
	Average Household Size (2021) in Wan Chai	2.6	https://www.census2021.gov.hk/en/district_profiles.html
	Total Pop.	3	
	Average Population Growth Per Year	0.00%	According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of Wan Chai in 2023 is -1.3%. For conservative approach, population growth of 0% is adopted.
	Est. Pop. (persons) (2030)	3	
Description			Reference
A79 No.12 Henderson Road	No. of Households	1	https://www.midland.com.hk/en/estate/hong-kong-jardine-s-lookout-Tai-Hang-12-Henderson-Road-4000002041
	Average Household Size (2021) in Wan Chai	2.6	https://www.census2021.gov.hk/en/district_profiles.html
	Total Pop.	3	
	Average Population Growth Per Year	0.00%	According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of Wan Chai in 2023 is -1.3%. For conservative approach, population growth of 0% is adopted.
	Est. Pop. (persons) (2030)	3	
Description			Reference
A80 No.12A Henderson Road	No. of Households	1	https://www.midland.com.hk/en/estate/hong-kong-island-jardine-s-lookout-Tai-Hang-12A-Henderson-Road-4000007165
	Average Household Size (2021) in Wan Chai	2.6	https://www.census2021.gov.hk/en/district_profiles.html
	Total Pop.	3	
	Average Population Growth Per Year	0.00%	According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of Wan Chai in 2023 is -1.3%. For conservative approach, population growth of 0% is adopted.
	Est. Pop. (persons) (2030)	3	
Description			Reference
A81 No.18 Henderson Road	No. of Households	1	https://hk.censtat.net/estate/en/18%20HENDERSON%20ROAD/1-OSCAR%20VIC
	Average Household Size (2021) in Wan Chai	2.6	https://www.census2021.gov.hk/en/district_profiles.html
	Total Pop.	3	
	Average Population Growth Per Year	0.00%	According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of Wan Chai in 2023 is -1.3%. For conservative approach, population growth of 0% is adopted.
	Est. Pop. (persons) (2030)	3	
Description			Reference
A82 No.1 Cooper Road	No. of Households	1	https://hk.censtat.net/estate/en/1-Cooper-Road/1-OSCAR%20VIC
	Average Household Size (2021) in Wan Chai	2.6	https://www.census2021.gov.hk/en/district_profiles.html
	Total Pop.	3	
	Average Population Growth Per Year	0.00%	According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of Wan Chai in 2023 is -1.3%. For conservative approach, population growth of 0% is adopted.
	Est. Pop. (persons) (2030)	3	
Description			Reference
A83 No.1 Purves Road	No. of Households	1	https://www.midland.com.hk/en/estate/hong-kong-1-Purves-Road-4000008431
	Average Household Size (2021) in Wan Chai	2.6	https://www.census2021.gov.hk/en/district_profiles.html
	Total Pop.	3	
	Average Population Growth Per Year	0.00%	According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of Wan Chai in 2023 is -1.3%. For conservative approach, population growth of 0% is adopted.
	Est. Pop. (persons) (2030)	3	
Description			Reference
A84 No.2 Purves Road	No. of Households	1	https://www.midland.com.hk/en/estate/hong-kong-jardine-s-lookout-Tai-Hang-2-Purves-Road-4000011825
	Average Household Size (2021) in Wan Chai	2.6	https://www.census2021.gov.hk/en/district_profiles.html
	Total Pop.	3	
	Average Population Growth Per Year	0.00%	According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of Wan Chai in 2023 is -1.3%. For conservative approach, population growth of 0% is adopted.
	Est. Pop. (persons) (2030)	3	
Description			Reference
A85 No.3 Purves Road	No. of Households	1	https://www.midland.com.hk/en/estate/hong-kong-island-jardine-s-lookout-Tai-Hang-3-Purves-Road-4000011826
	Average Household Size (2021) in Wan Chai	2.6	https://www.census2021.gov.hk/en/district_profiles.html
	Total Pop.	3	
	Average Population Growth Per Year	0.00%	According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of Wan Chai in 2023 is -1.3%. For conservative approach, population growth of 0% is adopted.
	Est. Pop. (persons) (2030)	3	
Description			Reference
A86 No.4 Purves Road	No. of Households	1	https://www.midland.com.hk/en/estate/hong-kong-jardine-s-lookout-Tai-Hang-4-Purves-Road-4000011827
	Average Household Size (2021) in Wan Chai	2.6	https://www.census2021.gov.hk/en/district_profiles.html
	Total Pop.	3	
	Average Population Growth Per Year	0.00%	According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of Wan Chai in 2023 is -1.3%. For conservative approach, population growth of 0% is adopted.
	Est. Pop. (persons) (2030)	3	
Description			Reference
A87 No.5 Purves Road	No. of Households	1	https://www.midland.com.hk/en/estate/hong-kong-island-jardine-s-lookout-Tai-Hang-5-Purves-Road-4000011828
	Average Household Size (2021) in Wan Chai	2.6	https://www.census2021.gov.hk/en/district_profiles.html
	Total Pop.	3	
	Average Population Growth Per Year	0.00%	According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of Wan Chai in 2023 is -1.3%. For conservative approach, population growth of 0% is adopted.
	Est. Pop. (persons) (2030)	3	
Description			Reference
A88 No.6 Purves Road	No. of Households	1	https://www.midland.com.hk/en/estate/hong-kong-jardine-s-lookout-Tai-Hang-6-Purves-Road-4000011829
	Average Household Size (2021) in Wan Chai	2.6	https://www.census2021.gov.hk/en/district_profiles.html
	Total Pop.	3	
	Average Population Growth Per Year	0.00%	According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of Wan Chai in 2023 is -1.3%. For conservative approach, population growth of 0% is adopted.
	Est. Pop. (persons) (2030)	3	
Description			Reference
A89 No.7 Purves Road	No. of Households	1	https://www.midland.com.hk/en/estate/hong-kong-jardine-s-lookout-Tai-Hang-7-Purves-Road-4000011830
	Average Household Size (2021) in Wan Chai	2.6	https://www.census2021.gov.hk/en/district_profiles.html
	Total Pop.	3	
	Average Population Growth Per Year	0.00%	According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of Wan Chai in 2023 is -1.3%. For conservative approach, population growth of 0% is adopted.
	Est. Pop. (persons) (2030)	3	
Description			Reference
Swimming Pool			
Swimming Pool Area, m ²	22		
Height of Swimming Pool, m	1.5		
Estimated volume of the Swimming pool, m ³	33		
Turnover Rate, hour	6	General Specification for Swimming Pool Water Treatment Installation in Government Buildings of The Hong Kong Special Administrative Region	
Surface Loading Rate of Filter, m ³ /m ² /hr	50	Swimming Pools: Design and Construction, Fourth Edition By Philip H. Perkins (50 m ³ /m ² /hr adopted)	
Required Filter Area, m ²	0.11		
Backwash Duration (mins)	7.00	With reference to Section B8.5.5 of General Specification for Swimming Pool Water Treatment Installation in Government Buildings of the HKSAR published by the ArchSD, "the water velocity chosen shall be effective in cleaning the filter in duration of 7 minutes for sand filter".	
Backwash Flow Rate, m ³ /m ² /hr	30	Technical Paper - Domestic Swimming Pool Filtration by European Union of Swimmingpool and Spa Associations	
Maximum backwash volume, m ³	0.4		
Maximum backwash volume, L/s	0.92		
Maximum backwash volume, m ³ /s	0.001		

Appendix 6-2 Population Estimation for Catchment Areas

Description		Reference
A90 New Development at No.8 Purves Road		
Total Area (m2)	892	
Allowable Plot Ratio	0.6	With reference to the Approved Tai Hang and Wong Nai Chung Gap Outline Zoning Plan (S/H13/12), for Residential (Group C) 1, maximum plot ratio of 0.6 and maximum building height of 3 storeys including carports.
Gross Floor Area (GFA) (m2)	535	
Number of Households	3	With reference to Chapter 2 (Residential) of HKPSG, the flat size is assume to be 210m2 (Residential Type 3)
Average Household Size (2021) in Wan Chai	2.6	https://www.census2021.gov.hk/en/district_profiles.html
Total Pop.	8	
Average Population Growth Per Year	0.00%	According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of Wan Chai in 2023 is -1.3%. For conservative approach, population growth of 0% is adopted.
Est. Pop. (persons) (2030)	8	
Description		Reference
A91 No.4A Cooper Road		
No. of Households	1	https://www.midland.com.hk/en/estate/Hong-Kong-Island-Jardine-s-Lookout-Tai-Hang-4A-Cooper-Road-E000010748
Average Household Size (2021) in Wan Chai	2.6	https://www.census2021.gov.hk/en/district_profiles.html
Total Pop.	3	
Average Population Growth Per Year	0.00%	According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of Wan Chai in 2023 is -1.3%. For conservative approach, population growth of 0% is adopted.
Est. Pop. (persons) (2030)	3	
Swimming Pool		
Swimming Pool Area, m2	35	
Height of Swimming Pool, m	1.5	
Estimated volume of the Swimming pool, m ³	53	
Turnover Rate, hour	6	General Specification for Swimming Pool Water Treatment Installation in Government Buildings of The Hong Kong Special Administrative Region
Surface Loading Rate of Filter, m ³ /m ² /hr	50	Swimming Pools: Design and Construction, Fourth Edition By Philip H. Perkins (50 m3/m2/hr adopted)
Required Filter Area, m ²	0.18	
Backwash Duration (mins)	7.00	With reference to Section B8.5.5 of General Specification for Swimming Pool Water Treatment Installation in Government Buildings of the HKSAR published by the ArchSD, "the water velocity chosen shall be effective in cleaning the filter in duration of 7 minutes for sand filter".
Backwash Flow Rate, m ³ /m ² /hr	30	Technical Paper - Domestic Swimming Pool Filtration by European Union of Swimmingpool and Spa Associations
Maximum backwash volume, m ³	0.6	
Maximum backwash volume, L/s	1.46	
Maximum backwash volume, m3/s	0.001	
Description		Reference
A92 No.4 Cooper Road		
No. of Households	2	https://hk.centartest.com/estate/en/Maisonette/2-SKKYBPPEPW
Average Household Size (2021) in Wan Chai	2.6	https://www.census2021.gov.hk/en/district_profiles.html
Total Pop.	6	
Average Population Growth Per Year	0.00%	According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of Wan Chai in 2023 is -1.3%. For conservative approach, population growth of 0% is adopted.
Est. Pop. (persons) (2030)	6	
Description		Reference
A93 No.6 Cooper Road		
No. of Households	1	https://www.midland.com.hk/en/estate/Hong-Kong-Island-Jardine-s-Lookout-Tai-Hang-6-Cooper-Road-E000010741
Average Household Size (2021) in Wan Chai	2.6	https://www.census2021.gov.hk/en/district_profiles.html
Total Pop.	3	
Average Population Growth Per Year	0.00%	According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of Wan Chai in 2023 is -1.3%. For conservative approach, population growth of 0% is adopted.
Est. Pop. (persons) (2030)	3	
Swimming Pool		
Swimming Pool Area, m2	71	
Height of Swimming Pool, m	1.5	
Estimated volume of the Swimming pool, m ³	107	
Turnover Rate, hour	6	General Specification for Swimming Pool Water Treatment Installation in Government Buildings of The Hong Kong Special Administrative Region
Surface Loading Rate of Filter, m ³ /m ² /hr	50	Swimming Pools: Design and Construction, Fourth Edition By Philip H. Perkins (50 m3/m2/hr adopted)
Required Filter Area, m ²	0.36	
Backwash Duration (mins)	7.00	With reference to Section B8.5.5 of General Specification for Swimming Pool Water Treatment Installation in Government Buildings of the HKSAR published by the ArchSD, "the water velocity chosen shall be effective in cleaning the filter in duration of 7 minutes for sand filter".
Backwash Flow Rate, m ³ /m ² /hr	30	Technical Paper - Domestic Swimming Pool Filtration by European Union of Swimmingpool and Spa Associations
Maximum backwash volume, m ³	1.2	
Maximum backwash volume, L/s	2.97	
Maximum backwash volume, m3/s	0.003	
Description		Reference
A94 No.8 Cooper Road		
No. of Households	1	https://www.midland.com.hk/en/estate/Hong-Kong-Island-Jardine-s-Lookout-Tai-Hang-8-Cooper-Road-E000007352
Average Household Size (2021) in Wan Chai	2.6	https://www.census2021.gov.hk/en/district_profiles.html
Total Pop.	3	
Average Population Growth Per Year	0.00%	According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of Wan Chai in 2023 is -1.3%. For conservative approach, population growth of 0% is adopted.
Est. Pop. (persons) (2030)	3	
Swimming Pool		
Swimming Pool Area, m2	69	
Height of Swimming Pool, m	1.5	
Estimated volume of the Swimming pool, m ³	104	
Turnover Rate, hour	6	General Specification for Swimming Pool Water Treatment Installation in Government Buildings of The Hong Kong Special Administrative Region
Surface Loading Rate of Filter, m ³ /m ² /hr	50	Swimming Pools: Design and Construction, Fourth Edition By Philip H. Perkins (50 m3/m2/hr adopted)
Required Filter Area, m ²	0.35	
Backwash Duration (mins)	7.00	With reference to Section B8.5.5 of General Specification for Swimming Pool Water Treatment Installation in Government Buildings of the HKSAR published by the ArchSD, "the water velocity chosen shall be effective in cleaning the filter in duration of 7 minutes for sand filter".
Backwash Flow Rate, m ³ /m ² /hr	30	Technical Paper - Domestic Swimming Pool Filtration by European Union of Swimmingpool and Spa Associations
Maximum backwash volume, m ³	1.2	
Maximum backwash volume, L/s	2.88	
Maximum backwash volume, m3/s	0.003	
Description		Reference
A95 No.10 Cooper Road		
No. of Households	1	https://www.midland.com.hk/en/estate/Hong-Kong-Island-Jardine-s-Lookout-Tai-Hang-10-Cooper-Road-E000010742
Average Household Size (2021) in Wan Chai	2.6	https://www.census2021.gov.hk/en/district_profiles.html
Total Pop.	3	
Average Population Growth Per Year	0.00%	According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of Wan Chai in 2023 is -1.3%. For conservative approach, population growth of 0% is adopted.
Est. Pop. (persons) (2030)	3	
Swimming Pool		
Swimming Pool Area, m2	104	
Height of Swimming Pool, m	1.5	
Estimated volume of the Swimming pool, m ³	156	
Turnover Rate, hour	6	General Specification for Swimming Pool Water Treatment Installation in Government Buildings of The Hong Kong Special Administrative Region
Surface Loading Rate of Filter, m ³ /m ² /hr	50	Swimming Pools: Design and Construction, Fourth Edition By Philip H. Perkins (50 m3/m2/hr adopted)
Required Filter Area, m ²	0.52	
Backwash Duration (mins)	7.00	With reference to Section B8.5.5 of General Specification for Swimming Pool Water Treatment Installation in Government Buildings of the HKSAR published by the ArchSD, "the water velocity chosen shall be effective in cleaning the filter in duration of 7 minutes for sand filter".
Backwash Flow Rate, m ³ /m ² /hr	30	Technical Paper - Domestic Swimming Pool Filtration by European Union of Swimmingpool and Spa Associations
Maximum backwash volume, m ³	1.8	
Maximum backwash volume, L/s	4.33	
Maximum backwash volume, m3/s	0.004	

Appendix 6-2 Population Estimation for Catchment Areas

Description			Reference
A96 No.12 Cooper Road			
No. of Households	1		https://www.msland.com.hk/en/estate/hong-kong-jardine-s-lookout-Tai-Hang-12-Cooper-Road-6000010743
Average Household Size (2021) in Wan Chai	2.6		https://www.census2021.gov.hk/en/district_profiles.html
Total Pop.	3		
Average Population Growth Per Year	0.00%		According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of Wan Chai in 2023 is -1.3%. For conservative approach, population growth of 0% is adopted.
Est. Pop. (persons) (2030)	3		
Description			Reference
A97 No.1 Goldsmith Road			
No. of Households	1		https://www.msland.com.hk/en/estate/hong-kong-jardine-s-lookout-Tai-Hang-1-Goldsmith-Road-6000011804
Average Household Size (2021) in Wan Chai	2.6		https://www.census2021.gov.hk/en/district_profiles.html
Total Pop.	3		
Average Population Growth Per Year	0.00%		According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of Wan Chai in 2023 is -1.3%. For conservative approach, population growth of 0% is adopted.
Est. Pop. (persons) (2030)	3		
Swimming Pool			
Swimming Pool Area, m2	77		
Height of Swimming Pool, m	1.5		
Estimated volume of the Swimming pool, m ³	116		
Turnover Rate, hour	6		General Specification for Swimming Pool Water Treatment Installation in Government Buildings of The Hong Kong Special Administrative Region
Surface Loading Rate of Filter, m ³ /m ² /hr	50		Swimming Pools: Design and Construction, Fourth Edition By Philip H. Perkins (50 m ³ /m ² /hr adopted)
Required Filter Area, m ²	0.39		
Backwash Duration (mins)	7.00		With reference to Section B8.5.5 of General Specification for Swimming Pool Water Treatment Installation in Government Buildings of the HKSAR published by the ArchSD, "the water velocity chosen shall be effective in cleaning the filter in duration of 7 minutes for sand filter".
Backwash Flow Rate, m ³ /m ² /hr	30		Technical Paper - Domestic Swimming Pool Filtration by European Union of Swimmingpool and Spa Associations
Maximum backwash volume, m ³	1.3		
Maximum backwash volume, L/s	3.21		
Maximum backwash volume, m3/s	0.003		
Description			Reference
A98 No.2-3 Goldsmith Road			
No. of Households	1		https://www.msland.com.hk/en/estate/hong-kong-island-jardine-s-lookout-Tai-Hang-2-Goldsmith-Road-6000011181
Average Household Size (2021) in Wan Chai	2.6		https://www.census2021.gov.hk/en/district_profiles.html
Total Pop.	3		
Average Population Growth Per Year	0.00%		According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of Wan Chai in 2023 is -1.3%. For conservative approach, population growth of 0% is adopted.
Est. Pop. (persons) (2030)	3		
Swimming Pool			
Swimming Pool Area, m2	158		
Height of Swimming Pool, m	1.5		
Estimated volume of the Swimming pool, m ³	237		
Turnover Rate, hour	6		General Specification for Swimming Pool Water Treatment Installation in Government Buildings of The Hong Kong Special Administrative Region
Surface Loading Rate of Filter, m ³ /m ² /hr	50		Swimming Pools: Design and Construction, Fourth Edition By Philip H. Perkins (50 m ³ /m ² /hr adopted)
Required Filter Area, m ²	0.79		
Backwash Duration (mins)	7.00		With reference to Section B8.5.5 of General Specification for Swimming Pool Water Treatment Installation in Government Buildings of the HKSAR published by the ArchSD, "the water velocity chosen shall be effective in cleaning the filter in duration of 7 minutes for sand filter".
Backwash Flow Rate, m ³ /m ² /hr	30		Technical Paper - Domestic Swimming Pool Filtration by European Union of Swimmingpool and Spa Associations
Maximum backwash volume, m ³	2.8		
Maximum backwash volume, L/s	6.58		
Maximum backwash volume, m3/s	0.007		
Description			Reference
A99 No.4 Goldsmith Road			
No. of Households	1		https://www.msland.com.hk/en/estate/hong-kong-jardine-s-lookout-Tai-Hang-4-Goldsmith-Road-6000011182
Average Household Size (2021) in Wan Chai	2.6		https://www.census2021.gov.hk/en/district_profiles.html
Total Pop.	3		
Average Population Growth Per Year	0.00%		According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of Wan Chai in 2023 is -1.3%. For conservative approach, population growth of 0% is adopted.
Est. Pop. (persons) (2030)	3		
Description			Reference
A100 No.5 Goldsmith Road			
No. of Households	1		https://hk.centanyet.com/estate/en/Goldsmith-Road/2-72NkZhT7Yk
Average Household Size (2021) in Wan Chai	2.6		https://www.census2021.gov.hk/en/district_profiles.html
Total Pop.	3		
Average Population Growth Per Year	0.00%		According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of Wan Chai in 2023 is -1.3%. For conservative approach, population growth of 0% is adopted.
Est. Pop. (persons) (2030)	3		
Swimming Pool			
Swimming Pool Area, m2	55		
Height of Swimming Pool, m	1.5		
Estimated volume of the Swimming pool, m ³	83		
Turnover Rate, hour	6		General Specification for Swimming Pool Water Treatment Installation in Government Buildings of The Hong Kong Special Administrative Region
Surface Loading Rate of Filter, m ³ /m ² /hr	50		Swimming Pools: Design and Construction, Fourth Edition By Philip H. Perkins (50 m ³ /m ² /hr adopted)
Required Filter Area, m ²	0.28		
Backwash Duration (mins)	7.00		With reference to Section B8.5.5 of General Specification for Swimming Pool Water Treatment Installation in Government Buildings of the HKSAR published by the ArchSD, "the water velocity chosen shall be effective in cleaning the filter in duration of 7 minutes for sand filter".
Backwash Flow Rate, m ³ /m ² /hr	30		Technical Paper - Domestic Swimming Pool Filtration by European Union of Swimmingpool and Spa Associations
Maximum backwash volume, m ³	1.0		
Maximum backwash volume, L/s	2.30		
Maximum backwash volume, m3/s	0.002		
Description			Reference
A101 No.6 Goldsmith Road			
No. of Households	1		https://hk.centanyet.com/estate/en/Goldsmith-Road/2-72NkZhT7Yk
Average Household Size (2021) in Wan Chai	2.6		https://www.census2021.gov.hk/en/district_profiles.html
Total Pop.	3		
Average Population Growth Per Year	0.00%		According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of Wan Chai in 2023 is -1.3%. For conservative approach, population growth of 0% is adopted.
Est. Pop. (persons) (2030)	3		
Description			Reference
A102 Valley View			
No. of Households	2		Valley View 1 Jardine's Estate Info Centraline Property
Average Household Size (2021) in Wan Chai	2.6		https://www.census2021.gov.hk/en/district_profiles.html
Total Pop.	6		
Average Population Growth Per Year	0.00%		According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of Wan Chai in 2023 is -1.3%. For conservative approach, population growth of 0% is adopted.
Est. Pop. (persons) (2030)	6		
Swimming Pool			
Swimming Pool Area, m2	66		
Height of Swimming Pool, m	1.5		
Estimated volume of the Swimming pool, m ³	99		
Turnover Rate, hour	6		General Specification for Swimming Pool Water Treatment Installation in Government Buildings of The Hong Kong Special Administrative Region
Surface Loading Rate of Filter, m ³ /m ² /hr	50		Swimming Pools: Design and Construction, Fourth Edition By Philip H. Perkins (50 m ³ /m ² /hr adopted)
Required Filter Area, m ²	0.33		
Backwash Duration (mins)	7.00		With reference to Section B8.5.5 of General Specification for Swimming Pool Water Treatment Installation in Government Buildings of the HKSAR published by the ArchSD, "the water velocity chosen shall be effective in cleaning the filter in duration of 7 minutes for sand filter".
Backwash Flow Rate, m ³ /m ² /hr	30		Technical Paper - Domestic Swimming Pool Filtration by European Union of Swimmingpool and Spa Associations
Maximum backwash volume, m ³	1.2		
Maximum backwash volume, L/s	2.75		
Maximum backwash volume, m3/s	0.003		

Appendix 6-2 Population Estimation for Catchment Areas

Description			Reference
A103 No.17 Cooper Road	No. of Households	1	https://hk.cenat.net/en/estate/en/17%20COOPER%20ROAD%201-OSRDQRXRRC
	Average Household Size (2021) in Wan Chai	2.6	https://www.census2021.gov.hk/en/district_profiles.html
	Total Pop.	3	
	Average Population Growth Per Year	0.00%	According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of Wan Chai in 2023 is -1.3%. For conservative approach, population growth of 0% is adopted
	Est. Pop. (persons) (2030)	3	
Swimming Pool			
	Swimming Pool Area, m2	62	
	Height of Swimming Pool, m	1.5	
	Estimated volume of the Swimming pool, m ³	94	
	Turnover Rate, hour	6	General Specification for Swimming Pool Water Treatment Installation in Government Buildings of The Hong Kong Special Administrative Region
	Surface Loading Rate of Filter, m ³ /m ² /hr	50	Swimming Pools: Design and Construction, Fourth Edition By Philip H. Perkins (50 m ³ /m ² /hr adopted)
	Required Filter Area, m ²	0.31	
	Backwash Duration (mins)	7.00	With reference to Section B8.5.5 of General Specification for Swimming Pool Water Treatment Installation in Government Buildings of the HKSAR published by the ArchSD, "the water velocity chosen shall be effective in cleaning the filter in duration of 7 minutes for sand filter".
	Backwash Flow Rate, m ³ /m ² /hr	30	Technical Paper - Domestic Swimming Pool Filtration by European Union of Swimmingpool and Spa Associations
	Maximum backwash volume, m ³	1.1	
	Maximum backwash volume, L/s	2.60	
	Maximum backwash volume, m3/s	0.003	
Description			Reference
A104 No.19 Cooper Road	No. of Households	1	Reference to Database of Private Buildings in Hong Kong by Home Affairs Department (https://bmis1.buildingmgt.gov.hk/bd_hadbicx/content/searchbuilding/building_search.js#f)
	Average Household Size (2021) in Wan Chai	2.6	https://www.census2021.gov.hk/en/district_profiles.html
	Total Pop.	3	
	Average Population Growth Per Year	0.00%	According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of Wan Chai in 2023 is -1.3%. For conservative approach, population growth of 0% is adopted
	Est. Pop. (persons) (2030)	3	
Swimming Pool			
	Swimming Pool Area, m2	85	
	Height of Swimming Pool, m	1.5	
	Estimated volume of the Swimming pool, m ³	128	
	Turnover Rate, hour	6	General Specification for Swimming Pool Water Treatment Installation in Government Buildings of The Hong Kong Special Administrative Region
	Surface Loading Rate of Filter, m ³ /m ² /hr	50	Swimming Pools: Design and Construction, Fourth Edition By Philip H. Perkins (50 m ³ /m ² /hr adopted)
	Required Filter Area, m ²	0.43	
	Backwash Duration (mins)	7.00	With reference to Section B8.5.5 of General Specification for Swimming Pool Water Treatment Installation in Government Buildings of the HKSAR published by the ArchSD, "the water velocity chosen shall be effective in cleaning the filter in duration of 7 minutes for sand filter".
	Backwash Flow Rate, m ³ /m ² /hr	30	Technical Paper - Domestic Swimming Pool Filtration by European Union of Swimmingpool and Spa Associations
	Maximum backwash volume, m ³	1.5	
	Maximum backwash volume, L/s	3.95	
	Maximum backwash volume, m3/s	0.004	
Description			Reference
A105 No.21 Cooper Road	No. of Households	1	Reference to Database of Private Buildings in Hong Kong by Home Affairs Department (https://bmis1.buildingmgt.gov.hk/bd_hadbicx/content/searchbuilding/building_search.js#f)
	Average Household Size (2021) in Wan Chai	2.6	https://www.census2021.gov.hk/en/district_profiles.html
	Total Pop.	3	
	Average Population Growth Per Year	0.00%	According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of Wan Chai in 2023 is -1.3%. For conservative approach, population growth of 0% is adopted.
	Est. Pop. (persons) (2030)	3	
Description			Reference
A106 No.23 Cooper Road	No. of Households	1	Reference to Database of Private Buildings in Hong Kong by Home Affairs Department (https://bmis1.buildingmgt.gov.hk/bd_hadbicx/content/searchbuilding/building_search.js#f)
	Average Household Size (2021) in Wan Chai	2.6	https://www.census2021.gov.hk/en/district_profiles.html
	Total Pop.	3	
	Average Population Growth Per Year	0.00%	According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of Wan Chai in 2023 is -1.3%. For conservative approach, population growth of 0% is adopted
	Est. Pop. (persons) (2030)	3	
Description			Reference
A107 No.25 Cooper Road	No. of Households	1	https://www.midland.com.hk/en/estate/Hong-Kong-Iardine'S-lookout-Tai-Hang-25-Cooper-Road-6000007353
	Average Household Size (2021) in Wan Chai	2.6	https://www.census2021.gov.hk/en/district_profiles.html
	Total Pop.	3	
	Average Population Growth Per Year	0.00%	According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of Wan Chai in 2023 is -1.3%. For conservative approach, population growth of 0% is adopted
	Est. Pop. (persons) (2030)	3	
Swimming Pool			
	Swimming Pool Area, m2	27	
	Height of Swimming Pool, m	1.5	
	Estimated volume of the Swimming pool, m ³	41	
	Turnover Rate, hour	6	General Specification for Swimming Pool Water Treatment Installation in Government Buildings of The Hong Kong Special Administrative Region
	Surface Loading Rate of Filter, m ³ /m ² /hr	50	Swimming Pools: Design and Construction, Fourth Edition By Philip H. Perkins (50 m ³ /m ² /hr adopted)
	Required Filter Area, m ²	0.14	
	Backwash Duration (mins)	7.00	With reference to Section B8.5.5 of General Specification for Swimming Pool Water Treatment Installation in Government Buildings of the HKSAR published by the ArchSD, "the water velocity chosen shall be effective in cleaning the filter in duration of 7 minutes for sand filter".
	Backwash Flow Rate, m ³ /m ² /hr	30	Technical Paper - Domestic Swimming Pool Filtration by European Union of Swimmingpool and Spa Associations
	Maximum backwash volume, m ³	0.5	
	Maximum backwash volume, L/s	1.13	
	Maximum backwash volume, m3/s	0.001	
Description			Reference
A108 No.1 Creasy Road	No. of Households	2	Reference to Database of Private Buildings in Hong Kong by Home Affairs Department (https://bmis1.buildingmgt.gov.hk/bd_hadbicx/content/searchbuilding/building_search.js#f)
	Average Household Size (2021) in Wan Chai	2.6	https://www.census2021.gov.hk/en/district_profiles.html
	Total Pop.	6	
	Average Population Growth Per Year	0.00%	According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of Wan Chai in 2023 is -1.3%. For conservative approach, population growth of 0% is adopted
	Est. Pop. (persons) (2030)	6	
Description			Reference
A109 No.9 Creasy Road	No. of Households	1	Reference to Database of Private Buildings in Hong Kong by Home Affairs Department (https://bmis1.buildingmgt.gov.hk/bd_hadbicx/content/searchbuilding/building_search.js#f)
	Average Household Size (2021) in Wan Chai	2.6	https://www.census2021.gov.hk/en/district_profiles.html
	Total Pop.	3	
	Average Population Growth Per Year	0.00%	According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of Wan Chai in 2023 is -1.3%. For conservative approach, population growth of 0% is adopted
	Est. Pop. (persons) (2030)	3	
Description			Reference
A110 No.11 Creasy Road	No. of Households	1	https://hk.cenat.net/en/estate/en/11-Creasy-Road%201-SKBPPSPSPW
	Average Household Size (2021) in Wan Chai	2.6	https://www.census2021.gov.hk/en/district_profiles.html
	Total Pop.	3	
	Average Population Growth Per Year	0.00%	According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of Wan Chai in 2023 is -1.3%. For conservative approach, population growth of 0% is adopted
	Est. Pop. (persons) (2030)	3	

Appendix 6-2 Population Estimation for Catchment Areas

Description		Reference	
A111 No.11A Creasy Road			
No. of Households	1	Reference to Database of Private Buildings in Hong Kong by Home Affairs Department (https://bmis1.buildingmgt.gov.hk/bd_hadbex/content/searchbuilding/building_search.js#)	
Average Household Size (2021) in Wan Chai	2.6	https://www.census2021.gov.hk/en/district_profiles.html	
Total Pop.	3		
Average Population Growth Per Year	0.00%	According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of Wan Chai in 2023 is -1.3%. For conservative approach, population growth of 0% is adopted.	
Est. Pop. (persons) (2030)	3		
Swimming Pool			
Swimming Pool Area, m2	81		
Height of Swimming Pool, m	1.5		
Estimated volume of the Swimming pool, m ³	121		
Turnover Rate, hour	6	General Specification for Swimming Pool Water Treatment Installation in Government Buildings of The Hong Kong Special Administrative Region	
Surface Loading Rate of Filter, m ³ /m ² /hr	50	Swimming Pools: Design and Construction, Fourth Edition By Philip H. Perkins (50 m3/m2/hr adopted)	
Required Filter Area, m ²	0.40		
Backwash Duration (mins)	7.00	With reference to Section B8.5.5 of General Specification for Swimming Pool Water Treatment Installation in Government Buildings of the HKSAR published by the ArchSD, "the water velocity chosen shall be effective in cleaning the filter in duration of 7 minutes for sand filter".	
Backwash Flow Rate, m ³ /m ² /hr	30	Technical Paper - Domestic Swimming Pool Filtration by European Union of Swimmingpool and Spa Associations	
Maximum backwash volume, m ³	1.4		
Maximum backwash volume, L/s	3.37		
Maximum backwash volume, m3/s	0.003		
Description		Reference	
A112 No.15 Creasy Road			
No. of Households	2	https://www.midland.com.hk/en/estate/Hong-Kong-15-Creasy-Road-E000010752	
Average Household Size (2021) in Wan Chai	2.6	https://www.census2021.gov.hk/en/district_profiles.html	
Total Pop.	6		
Average Population Growth Per Year	0.00%	According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of Wan Chai in 2023 is -1.3%. For conservative approach, population growth of 0% is adopted.	
Est. Pop. (persons) (2030)	6		
Description		Reference	
A113 Jardine's Lookout Residents' Association- Creasy Road Building			
Restaurant			
Total Area (m2)	714		
Number of Floors	1		
Total Floor Area (m2)	714		
Worker Density (per 100m2)	5.1	The main user of the Jardine's Lookout Residents Association Creasy Road Building is the restaurant. With reference to CIFSUS, the worker density for Restaurant is adopted (https://www.pland.gov.hk/pland_enip_study/comp_s/cifsus/cifsusReport.pdf).	
Total Pop.	37		
Description		Reference	
A114 Jardine's Lookout Residents' Association- Purves Road Buildings			
Total Area (m2)	121		
Number of Floors	2		
Total Floor Area (m2)	242		
Worker Density (per 100m2)	3.3	The main use of the Jardine's Lookout Residents Association Purves Road Building is clubhouses. With reference to CIFSUS, the worker density for Community, Social & Personal Services is adopted (https://www.pland.gov.hk/pland_enip_study/comp_s/cifsus/cifsusReport.pdf).	
Total Pop.	8		
Swimming Pool			
Swimming Pool Area, m2	174		
Height of Swimming Pool, m	1.5		
Estimated volume of the Swimming pool, m ³	261		
Turnover Rate, hour	6	General Specification for Swimming Pool Water Treatment Installation in Government Buildings of The Hong Kong Special Administrative Region	
Surface Loading Rate of Filter, m ³ /m ² /hr	50	Swimming Pools: Design and Construction, Fourth Edition By Philip H. Perkins (50 m3/m2/hr adopted)	
Required Filter Area, m ²	0.87		
Backwash Duration (mins)	7.00	With reference to Section B8.5.5 of General Specification for Swimming Pool Water Treatment Installation in Government Buildings of the HKSAR published by the ArchSD, "the water velocity chosen shall be effective in cleaning the filter in duration of 7 minutes for sand filter".	
Backwash Flow Rate, m ³ /m ² /hr	30	Technical Paper - Domestic Swimming Pool Filtration by European Union of Swimmingpool and Spa Associations	
Maximum backwash volume, m ³	3.0		
Maximum backwash volume, L/s	7.25		
Maximum backwash volume, m3/s	0.007		
Description		Reference	
A115 111 Mount Butler Road			
No. of Households	252	https://th.central.com/estate/en/111-Mount-Butler-Road/7-0KVGPT0PW	
Average Household Size (2021) in Wan Chai	2.6	https://www.census2021.gov.hk/en/district_profiles.html	
Total Pop.	656		
Average Population Growth Per Year	0.00%	According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of Wan Chai in 2023 is -1.3%. For conservative approach, population growth of 0% is adopted.	
Est. Pop. (persons) (2030)	656		
Catchment B			
Description		Reference	
B1 Swiss Towers			
No. of Households	159	Swiss Towers Tai Hang Mid-Levels Estate Info Centaline Property	
Average Household Size (2021) in Wan Chai	2.6	https://www.census2021.gov.hk/en/district_profiles.html	
Total Pop.	414		
Average Population Growth Per Year	0.00%	According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of Wan Chai in 2023 is -1.3%. For conservative approach, population growth of 0% is adopted.	
Est. Pop. (persons) (2030)	414		
Description		Reference	
B2 Park Garden			
No. of Households	88	https://www.midland.com.hk/en/estate/Hong-Kong-Island-Jardine'S-Lookout-Tai-Hang-Park-Garden-E06914	
Average Household Size (2021) in Wan Chai	2.6	https://www.census2021.gov.hk/en/district_profiles.html	
Total Pop.	229		
Average Population Growth Per Year	0.00%	According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of Wan Chai in 2023 is -1.3%. For conservative approach, population growth of 0% is adopted.	
Est. Pop. (persons) (2030)	229		
Description		Reference	
B3 Bellevue Heights			
No. of Households	54	https://www.midland.com.hk/en/estate/Hong-Kong-Jardine'S-Lookout-Tai-Hang-Bellevue-Heights-E01511	
Average Household Size (2021) in Wan Chai	2.6	https://www.census2021.gov.hk/en/district_profiles.html	
Total Pop.	141		
Average Population Growth Per Year	0.00%	According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of Wan Chai in 2023 is -1.3%. For conservative approach, population growth of 0% is adopted.	
Est. Pop. (persons) (2030)	141		
Description		Reference	
B4 Vick King Building			
No. of Households	44	https://www.midland.com.hk/en/estate/Hong-Kong-Island-Jardine-s-Lookout-Tai-Hang-Vick-King-Building-E10087	
Average Household Size (2021) in Wan Chai	2.6	https://www.census2021.gov.hk/en/district_profiles.html	
Total Pop.	115		
Average Population Growth Per Year	0.00%	According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of Wan Chai in 2023 is -1.3%. For conservative approach, population growth of 0% is adopted.	
Est. Pop. (persons) (2030)	115		

Appendix 6-2 Population Estimation for Catchment Areas

Description		Reference	
B5 Tai Hang Terrace			
No. of Households	240	https://www.midland.com.hk/en/estate/Hong-Kong-Island-Jardine-s-Lookout-Tai-Hang-Tai-Hang-Terrace-E06284	
Average Household Size (2021) in Wan Chai	2.6	https://www.census2021.gov.hk/en/district_profiles.html	
Total Pop.	624		
Average Population Growth Per Year	0.00%	According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of Wan Chai in 2023 is -1.3%. For conservative approach, population growth of 0% is adopted.	
Est. Pop. (persons) (2030)	624		
Description		Reference	
B6 Flora Garden			
No. of Households	240	Flora Garden Tai Hang Mid-Levels Estate info Centaline Property	
Average Household Size (2021) in Wan Chai	2.6	https://www.census2021.gov.hk/en/district_profiles.html	
Total Pop.	624		
Average Population Growth Per Year	0.00%	According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of Wan Chai in 2023 is -1.3%. For conservative approach, population growth of 0% is adopted.	
Est. Pop. (persons) (2030)	624		
Swimming Pool			
Swimming Pool Area, m2	154		
Height of Swimming Pool, m	1.5		
Estimated volume of the Swimming pool, m³	231		
Turnover Rate, hour	6	General Specification for Swimming Pool Water Treatment Installation in Government Buildings of The Hong Kong Special Administrative Region	
Surface Loading Rate of Filter, m³/m²/hr	50	Swimming Pools: Design and Construction, Fourth Edition By Philip H. Perkins (50 m³/m²/hr adopted)	
Required Filter Area, m²	0.77		
Backwash Duration (mins)	7.00	With reference to Section B8.5.5 of General Specification for Swimming Pool Water Treatment Installation in Government Buildings of the HKSAR published by the ArchSD, "the water velocity chosen shall be effective in cleaning the filter in duration of 7 minutes for sand filter".	
Backwash Flow Rate, m³/m²/hr	30	Technical Paper - Domestic Swimming Pool Filtration by European Union of Swimmingpool and Spa Associations	
Maximum backwash volume, m³	2.7		
Maximum backwash volume, L/s	6.42		
Maximum backwash volume, m³/s	0.006		
Description		Reference	
B7 Elm Tree Towers			
No. of Households	114	https://www.midland.com.hk/en/estate/Hong-Kong-Island-Jardine-s-Lookout-Tai-Hang-Flora-Garden-E00448	
Average Household Size (2021) in Wan Chai	2.6	https://www.census2021.gov.hk/en/district_profiles.html	
Total Pop.	297		
Average Population Growth Per Year	0.00%	According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of Wan Chai in 2023 is -1.3%. For conservative approach, population growth of 0% is adopted.	
Est. Pop. (persons) (2030)	297		
Swimming Pool (Large)			
Swimming Pool Area, m2	119		
Height of Swimming Pool, m	1.5		
Estimated volume of the Swimming pool, m³	179		
Turnover Rate, hour	6	General Specification for Swimming Pool Water Treatment Installation in Government Buildings of The Hong Kong Special Administrative Region	
Surface Loading Rate of Filter, m³/m²/hr	50	Swimming Pools: Design and Construction, Fourth Edition By Philip H. Perkins (50 m³/m²/hr adopted)	
Required Filter Area, m²	0.60		
Backwash Duration (mins)	7.00	With reference to Section B8.5.5 of General Specification for Swimming Pool Water Treatment Installation in Government Buildings of the HKSAR published by the ArchSD, "the water velocity chosen shall be effective in cleaning the filter in duration of 7 minutes for sand filter".	
Backwash Flow Rate, m³/m²/hr	30	Technical Paper - Domestic Swimming Pool Filtration by European Union of Swimmingpool and Spa Associations	
Maximum backwash volume, m³	2.1		
Maximum backwash volume, L/s	4.96		
Maximum backwash volume, m³/s	0.005		
Swimming Pool (Small)			
Swimming Pool Area, m2	20		
Height of Swimming Pool, m	1.5		
Estimated volume of the Swimming pool, m³	30		
Turnover Rate, hour	6	General Specification for Swimming Pool Water Treatment Installation in Government Buildings of The Hong Kong Special Administrative Region	
Surface Loading Rate of Filter, m³/m²/hr	50	Swimming Pools: Design and Construction, Fourth Edition By Philip H. Perkins (50 m³/m²/hr adopted)	
Required Filter Area, m²	0.10		
Backwash Duration (mins)	7.00	With reference to Section B8.5.5 of General Specification for Swimming Pool Water Treatment Installation in Government Buildings of the HKSAR published by the ArchSD, "the water velocity chosen shall be effective in cleaning the filter in duration of 7 minutes for sand filter".	
Backwash Flow Rate, m³/m²/hr	30	Technical Paper - Domestic Swimming Pool Filtration by European Union of Swimmingpool and Spa Associations	
Maximum backwash volume, m³	0.4		
Maximum backwash volume, L/s	0.83		
Maximum backwash volume, m³/s	0.001		
Description		Reference	
B8 Chun Fal Centre			
Kindergarten (2/F of Chun Fal Centre)			
Number of Students	448	https://www.schooland.hk/kg/bhns	
Number of Staffs	37		
Total Pop.	485		
Supermarket (1/F of Chun Fal Centre)			
Total Pop.	30	According to information from ParknShop, there are approximately 30 employees at each branch (https://career.aswatson.com/employment/vacancy/index/parknshop/en)	
Description		Reference	
B9 Aurizon			
No. of Households	82	Home Affairs Department Database of Private Buildings in Hong Kong	
Average Household Size (2021) in Wan Chai	2.6	https://www.census2021.gov.hk/en/district_profiles.html	
Total Pop.	214		
Average Population Growth Per Year	0.00%	According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of Wan Chai in 2023 is -1.3%. For conservative approach, population growth of 0% is adopted.	
Est. Pop. (persons) (2030)	214		
Description		Reference	
B10 Aurora			
No. of Households	42	https://www.gi-homes.com/properties/aurora/21731	
Average Household Size (2021) in Wan Chai	2.6	https://www.census2021.gov.hk/en/district_profiles.html	
Total Pop.	110		
Average Population Growth Per Year	0.00%	According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of Wan Chai in 2023 is -1.3%. For conservative approach, population growth of 0% is adopted.	
Est. Pop. (persons) (2030)	110		

Appendix 6-2 Population Estimation for Catchment Areas

Catchment C

Description			Reference
C1	No.83-87 Tai Hang Road		
	No. of Households	12	https://www.okay.com/en/building/tai-hang-road-83-87/7074
	Average Household Size (2021) in Wan Chai	2.6	https://www.census2021.gov.hk/en/district_profiles.html
	Total Pop.	32	
	Average Population Growth Per Year	0.00%	According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of Wan Chai in 2023 is -1.3%. For conservative approach, population growth of 0% is adopted.
	Est. Pop. (persons) (2030)	32	
Description			Reference
C2	New Development at No.89-93 Tai Hang Road		
	Total Average Sewage Discharge (m ³ /day)	37.2	Values advised by DSD's comment received on 31 July 2026.
	Backwash Flow from Swimming Pool (L/s)	4.17	Values advised by DSD's comment received on 31 July 2026.
	Backwash Flow from Swimming Pool (m ³ /s)	0.00417	

Description			Reference
C3	Gold King Mansion		
	No. of Households	80	https://www.midland.com.hk/en/estate/Hong-Kong-Island-Jardine-s-Logout-Tai-Hang-Gold-King-Mansion-E03293
	Average Household Size (2021) in Wan Chai	2.6	https://www.census2021.gov.hk/en/district_profiles.html
	Total Pop.	208	
	Average Population Growth Per Year	0.00%	According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of Wan Chai in 2023 is -1.3%. For conservative approach, population growth of 0% is adopted.
	Est. Pop. (persons) (2030)	208	

Description			Reference
C4	Gold Ning Mansion		
	No. of Households	80	https://www.midland.com.hk/en/estate/Hong-Kong-Island-Jardine-s-Logout-Tai-Hang-Gold-Ning-Mansion-E10355
	Average Household Size (2021) in Wan Chai	2.6	https://www.census2021.gov.hk/en/district_profiles.html
	Total Pop.	208	
	Average Population Growth Per Year	0.00%	According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of Wan Chai in 2023 is -1.3%. For conservative approach, population growth of 0% is adopted.
	Est. Pop. (persons) (2030)	208	

Description			Reference
C5	Alpha Court		
	No. of Households	12	https://hk.ceritanet.com/estate/en/ALPHA%20COURT/1-OSRVQBDARV
	Average Household Size (2021) in Wan Chai	2.6	https://www.census2021.gov.hk/en/district_profiles.html
	Total Pop.	32	
	Average Population Growth Per Year	0.00%	According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of Wan Chai in 2023 is -1.3%. For conservative approach, population growth of 0% is adopted.
	Est. Pop. (persons) (2030)	32	

Description			Reference
C6	Renown Court		
	No. of Households	30	https://www.okay.com/en/building/renown-court/5127
	Average Household Size (2021) in Wan Chai	2.6	https://www.census2021.gov.hk/en/district_profiles.html
	Total Pop.	78	
	Average Population Growth Per Year	0.00%	According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of Wan Chai in 2023 is -1.3%. For conservative approach, population growth of 0% is adopted.
	Est. Pop. (persons) (2030)	78	

Catchment D

Description			Reference
D1	Grandview Mansion		
	No. of Households	33	https://www.midland.com.hk/en/estate/Hong-Kong-Island-Jardine-s-Logout-Tai-Hang-Grandview-Mansion-E03462
	Average Household Size (2021) in Wan Chai	2.6	https://www.census2021.gov.hk/en/district_profiles.html
	Total Pop.	86	
	Average Population Growth Per Year	0.00%	According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of Wan Chai in 2023 is -1.3%. For conservative approach, population growth of 0% is adopted.
	Est. Pop. (persons) (2030)	86	

Description			Reference
D2	No.2 Wang Fung Terrace		
	No. of Households	12	https://www.midland.com.hk/en/estate/Hong-Kong-Jardine-S-Logout-Tai-Hang-2-Wang-Fung-Terrace-E000010591
	Average Household Size (2021) in Wan Chai	2.6	https://www.census2021.gov.hk/en/district_profiles.html
	Total Pop.	32	
	Average Population Growth Per Year	0.00%	According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of Wan Chai in 2023 is -1.3%. For conservative approach, population growth of 0% is adopted.
	Est. Pop. (persons) (2030)	32	

Description			Reference
D3	No.3-3E Wang Fung Terrace		
	No. of Households	23	https://www.midland.com.hk/en/estate/Hong-Kong-Island-Jardine-s-Logout-Tai-Hang-3-3E-Wang-Fung-Terrace-E000010590
	Average Household Size (2021) in Wan Chai	2.6	https://www.census2021.gov.hk/en/district_profiles.html
	Total Pop.	60	
	Average Population Growth Per Year	0.00%	According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of Wan Chai in 2023 is -1.3%. For conservative approach, population growth of 0% is adopted.
	Est. Pop. (persons) (2030)	60	

Description			Reference
D4	No.4A-4D Wang Fung Terrace		
	No. of Households	16	https://www.midland.com.hk/en/estate/Hong-Kong-Island-Jardine-S-Logout-Tai-Hang-4A-4D-Wang-Fung-Terrace-E000005554
	Average Household Size (2021) in Wan Chai	2.6	https://www.census2021.gov.hk/en/district_profiles.html
	Total Pop.	42	
	Average Population Growth Per Year	0.00%	According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of Wan Chai in 2023 is -1.3%. For conservative approach, population growth of 0% is adopted.
	Est. Pop. (persons) (2030)	42	

Description			Reference
D5	No.4 Wang Fung Terrace		
	No. of Households	3	https://hk.ceritanet.com/estate/en/4%20WANG%20FUNG%20TERRACE/1-OSJQFRFRV/
	Average Household Size (2021) in Wan Chai	2.6	https://www.census2021.gov.hk/en/district_profiles.html
	Total Pop.	8	
	Average Population Growth Per Year	0.00%	According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of Wan Chai in 2023 is -1.3%. For conservative approach, population growth of 0% is adopted.
	Est. Pop. (persons) (2030)	8	

Description			Reference
D6	No.5 Wang Fung Terrace		
	No. of Households	16	https://www.okay.com/en/building/5-wang-fung-terrace/5235
	Average Household Size (2021) in Wan Chai	2.6	https://www.census2021.gov.hk/en/district_profiles.html
	Total Pop.	42	
	Average Population Growth Per Year	0.00%	According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of Wan Chai in 2023 is -1.3%. For conservative approach, population growth of 0% is adopted.
	Est. Pop. (persons) (2030)	42	

Description			Reference
D7	Scenic Lodge		
	No. of Households	12	https://hk.ceritanet.com/estate/en/Scenic-Lodge/1-SKPPWSPEPK/
	Average Household Size (2021) in Wan Chai	2.6	https://www.census2021.gov.hk/en/district_profiles.html
	Total Pop.	32	
	Average Population Growth Per Year	0.00%	According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of Wan Chai in 2023 is -1.3%. For conservative approach, population growth of 0% is adopted.
	Est. Pop. (persons) (2030)	32	

Appendix 6-2 Population Estimation for Catchment Areas

Description			Reference
D8	Jolly Garden		
	No. of Households	12	https://www.midland.com.hk/en/estate/hong-kong-jardine-s-lookout-tai-hang-jolly-garden-f04448
	Average Household Size (2021) in Wan Chai	2.6	https://www.census2021.gov.hk/en/district_profiles.html
	Total Pop.	32	
	Average Population Growth Per Year	0.00%	According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of Wan Chai in 2023 is -1.3%. For conservative approach, population growth of 0% is adopted.
	Est. Pop. (persons) (2030)	32	
Description			Reference
D9	Green Village		
	No. of Households	16	https://www.okay.com/en/building/green-village/2059
	Average Household Size (2021) in Wan Chai	2.6	https://www.census2021.gov.hk/en/district_profiles.html
	Total Pop.	42	
	Average Population Growth Per Year	0.00%	According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of Wan Chai in 2023 is -1.3%. For conservative approach, population growth of 0% is adopted.
	Est. Pop. (persons) (2030)	42	
Description			Reference
D10	No.9-9A Wang Fung Terrace		
	No. of Households	8	Home Affairs Department Database of Private Buildings in Hong Kong
	Average Household Size (2021) in Wan Chai	2.6	https://www.census2021.gov.hk/en/district_profiles.html
	Total Pop.	21	
	Average Population Growth Per Year	0.00%	According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of Wan Chai in 2023 is -1.3%. For conservative approach, population growth of 0% is adopted.
	Est. Pop. (persons) (2030)	21	
Description			Reference
D11	No.10 Wang Fung Terrace		
	No. of Households	6	https://www.okay.com/en/building/10-10a-wang-fung-terrace/bsu/2061
	Average Household Size (2021) in Wan Chai	2.6	https://www.census2021.gov.hk/en/district_profiles.html
	Total Pop.	16	
	Average Population Growth Per Year	0.00%	According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of Wan Chai in 2023 is -1.3%. For conservative approach, population growth of 0% is adopted.
	Est. Pop. (persons) (2030)	16	
Description			Reference
D12	Verde Green		
	No. of Households	6	https://hk.certinet.com/estate/en/VERDE%20GREEN/1-SKPPWAFEPB
	Average Household Size (2021) in Wan Chai	2.6	https://www.census2021.gov.hk/en/district_profiles.html
	Total Pop.	16	
	Average Population Growth Per Year	0.00%	According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of Wan Chai in 2023 is -1.3%. For conservative approach, population growth of 0% is adopted.
	Est. Pop. (persons) (2030)	16	
Description			Reference
D13	Hecky Court		
	No. of Households	7	https://www.midland.com.hk/en/estate/hong-kong-jardine-s-lookout-tai-hang-hecky-court-E12050
	Average Household Size (2021) in Wan Chai	2.6	https://www.census2021.gov.hk/en/district_profiles.html
	Total Pop.	19	
	Average Population Growth Per Year	0.00%	According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of Wan Chai in 2023 is -1.3%. For conservative approach, population growth of 0% is adopted.
	Est. Pop. (persons) (2030)	19	
Description			Reference
D14	Mayflower Mansion		
	No. of Households	32	https://www.midland.com.hk/en/estate/hong-kong-island-jardine-s-lookout-tai-hang-mayflower-mansion-E11105
	Average Household Size (2021) in Wan Chai	2.6	https://www.census2021.gov.hk/en/district_profiles.html
	Total Pop.	84	
	Average Population Growth Per Year	0.00%	According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of Wan Chai in 2023 is -1.3%. For conservative approach, population growth of 0% is adopted.
	Est. Pop. (persons) (2030)	84	
Swimming Pool			
	Swimming Pool Area, m ²	101	
	Height of Swimming Pool, m	1.5	
	Estimated volume of the Swimming pool, m ³	152	
	Turnover Rate, hour	6	General Specification for Swimming Pool Water Treatment Installation in Government Buildings of The Hong Kong Special Administrative Region
	Surface Loading Rate of Filter, m ³ /m ² /hr	50	Swimming Pools: Design and Construction, Fourth Edition By Philip H. Perkins (50 m ³ /m ² /hr adopted)
	Required Filter Area, m ²	0.51	
	Backwash Duration (mins)	7.00	With reference to Section B8.5.5 of General Specification for Swimming Pool Water Treatment Installation in Government Buildings of the HKSAR published by the ArchSD, "the water velocity chosen shall be effective in cleaning the filter in duration of 7 minutes for sand filter".
	Backwash Flow Rate, m ³ /m ² /hr	30	Technical Paper - Domestic Swimming Pool Filtration by European Union of Swimmingpool and Spa Associations
	Maximum backwash volume, m ³	1.8	
	Maximum backwash volume, L/s	4.21	
	Maximum backwash volume, m ³ /s	0.004	
Description			Reference
D15	No.12 Wang Fung Terrace		
	No. of Households	8	https://www.midland.com.hk/en/estate/hong-kong-island-jardine-s-lookout-tai-hang-12-Wang-Fung-Terrace-E000007919
	Average Household Size (2021) in Wan Chai	2.6	https://www.census2021.gov.hk/en/district_profiles.html
	Total Pop.	21	
	Average Population Growth Per Year	0.00%	According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of Wan Chai in 2023 is -1.3%. For conservative approach, population growth of 0% is adopted.
	Est. Pop. (persons) (2030)	21	
Catchment E			
Description			Reference
E1	Avalon		
	No. of Households	46	https://www.midland.com.hk/en/estate/hong-kong-island-jardine-s-lookout-tai-hang-avalon-E11036
	Average Household Size (2021) in Wan Chai	2.6	https://www.census2021.gov.hk/en/district_profiles.html
	Total Pop.	120	
	Average Population Growth Per Year	0.00%	According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of Wan Chai in 2023 is -1.3%. For conservative approach, population growth of 0% is adopted.
	Est. Pop. (persons) (2030)	120	
Swimming Pool			
	Swimming Pool Area, m ²	71	
	Height of Swimming Pool, m	1.5	
	Estimated volume of the Swimming pool, m ³	107	
	Turnover Rate, hour	6	General Specification for Swimming Pool Water Treatment Installation in Government Buildings of The Hong Kong Special Administrative Region
	Surface Loading Rate of Filter, m ³ /m ² /hr	50	Swimming Pools: Design and Construction, Fourth Edition By Philip H. Perkins (50 m ³ /m ² /hr adopted)
	Required Filter Area, m ²	0.36	
	Backwash Duration (mins)	7.00	With reference to Section B8.5.5 of General Specification for Swimming Pool Water Treatment Installation in Government Buildings of the HKSAR published by the ArchSD, "the water velocity chosen shall be effective in cleaning the filter in duration of 7 minutes for sand filter".
	Backwash Flow Rate, m ³ /m ² /hr	30	Technical Paper - Domestic Swimming Pool Filtration by European Union of Swimmingpool and Spa Associations
	Maximum backwash volume, m ³	1.2	
	Maximum backwash volume, L/s	2.97	
	Maximum backwash volume, m ³ /s	0.003	

Appendix 6-2 Population Estimation for Catchment Areas

Description			Reference
E2 Yukon Height	No. of Households	40	https://www.midland.com.hk/en/estate/Hong-Kong-Island-Jardine-S-Lookout-Tai-Hang-Yukon-Height-E10316
	Average Household Size (2021) in Wan Chai	2.6	https://www.census2021.gov.hk/en/district_profiles.html
	Total Pop.	104	
	Average Population Growth Per Year	0.00%	According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of Wan Chai in 2023 is -1.3%. For conservative approach, population growth of 0% is adopted.
	Est. Pop. (persons) (2030)	104	
Description			Reference
E3 Morengo Court	No. of Households	48	https://www.midland.com.hk/en/estate/Hong-Kong-Island-Jardine-s-Lookout-Tai-Hang-Morengo-Court-E06422
	Average Household Size (2021) in Wan Chai	2.6	https://www.census2021.gov.hk/en/district_profiles.html
	Total Pop.	125	
	Average Population Growth Per Year	0.00%	According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of Wan Chai in 2023 is -1.3%. For conservative approach, population growth of 0% is adopted.
	Est. Pop. (persons) (2030)	125	
Description			Reference
E4 Wah Fung Mansion	No. of Households	20	https://www.midland.com.hk/en/estate/Hong-Kong-Island-Jardine-s-Lookout-Tai-Hang-Wah-Fung-Mansion-E09121
	Average Household Size (2021) in Wan Chai	2.6	https://www.census2021.gov.hk/en/district_profiles.html
	Total Pop.	52	
	Average Population Growth Per Year	0.00%	According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of Wan Chai in 2023 is -1.3%. For conservative approach, population growth of 0% is adopted.
	Est. Pop. (persons) (2030)	52	
Description			Reference
E5 Carnation Court	No. of Households	44	https://www.midland.com.hk/en/estate/Hong-Kong-Island-Jardine-s-Lookout-Tai-Hang-Carnation-Court-E01745
	Average Household Size (2021) in Wan Chai	2.6	https://www.census2021.gov.hk/en/district_profiles.html
	Total Pop.	115	
	Average Population Growth Per Year	0.00%	According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of Wan Chai in 2023 is -1.3%. For conservative approach, population growth of 0% is adopted.
	Est. Pop. (persons) (2030)	115	
Swimming Pool			
Swimming Pool Area, m2	105		
Height of Swimming Pool, m	1.5		
Estimated volume of the Swimming pool, m ³	158		
Turnover Rate, hour	6	General Specification for Swimming Pool Water Treatment Installation in Government Buildings of The Hong Kong Special Administrative Region	
Surface Loading Rate of Filter, m ³ /m ² /hr	50	Swimming Pools: Design and Construction, Fourth Edition By Philip H. Perkins (50 m ³ /m ² /hr adopted)	
Required Filter Area, m ²	0.53		
Backwash Duration (mins)	7.00	With reference to Section B8.5.5 of General Specification for Swimming Pool Water Treatment Installation in Government Buildings of the HKSAR published by the ArchSD, "the water velocity chosen shall be effective in cleaning the filter in duration of 7 minutes for sand filter".	
Backwash Flow Rate, m ³ /m ² /hr	30	Technical Paper - Domestic Swimming Pool Filtration by European Union of Swimmingpool and Spa Associations	
Maximum backwash volume, m ³	1.8		
Maximum backwash volume, L/s	4.39		
Maximum backwash volume, m ³ /s	0.004		
Description			Reference
E6 No. 52 Tai Hang Road	No. of Households	3	https://www.okay.com/en/building/52-tai-hang-road/6666
	Average Household Size (2021) in Wan Chai	2.6	https://www.census2021.gov.hk/en/district_profiles.html
	Total Pop.	8	
	Average Population Growth Per Year	0.00%	According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of Wan Chai in 2023 is -1.3%. For conservative approach, population growth of 0% is adopted.
	Est. Pop. (persons) (2030)	8	
Description			Reference
E7 Royal Court	No. of Households	25	https://hk.centanet.com/estate/en/Royal%20Court/2-OSCDURJRV
	Average Household Size (2021) in Wan Chai	2.6	https://www.census2021.gov.hk/en/district_profiles.html
	Total Pop.	65	
	Average Population Growth Per Year	0.00%	According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of Wan Chai in 2023 is -1.3%. For conservative approach, population growth of 0% is adopted.
	Est. Pop. (persons) (2030)	65	
Description			Reference
E8 Sunrise Court	No. of Households	24	https://www.midland.com.hk/en/estate/Hong-Kong-Island-Jardine-S-Lookout-Tai-Hang-Sunrise-Court-E08215
	Average Household Size (2021) in Wan Chai	2.6	https://www.census2021.gov.hk/en/district_profiles.html
	Total Pop.	63	
	Average Population Growth Per Year	0.00%	According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of Wan Chai in 2023 is -1.3%. For conservative approach, population growth of 0% is adopted.
	Est. Pop. (persons) (2030)	63	
Description			Reference
E9 Fuk Kwan Mansion	No. of Households	12	https://www.okay.com/en/building/fuk-kwan-mansion/9332
	Average Household Size (2021) in Wan Chai	2.6	https://www.census2021.gov.hk/en/district_profiles.html
	Total Pop.	32	
	Average Population Growth Per Year	0.00%	According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of Wan Chai in 2023 is -1.3%. For conservative approach, population growth of 0% is adopted.
	Est. Pop. (persons) (2030)	32	
Description			Reference
E10 The Elegance	No. of Households	17	https://www.midland.com.hk/en/estate/Hong-Kong-Island-Jardine-s-Lookout-Tai-Hang-The-Elegance-E02619
	Average Household Size (2021) in Wan Chai	2.6	https://www.census2021.gov.hk/en/district_profiles.html
	Total Pop.	45	
	Average Population Growth Per Year	0.00%	According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of Wan Chai in 2023 is -1.3%. For conservative approach, population growth of 0% is adopted.
	Est. Pop. (persons) (2030)	45	
Description			Reference
E11 Trafalgar Court	No. of Households	60	https://www.midland.com.hk/en/estate/Hong-Kong-Island-Jardine-s-Lookout-Tai-Hang-Trafalgar-Court-E10536
	Average Household Size (2021) in Wan Chai	2.6	https://www.census2021.gov.hk/en/district_profiles.html
	Total Pop.	156	
	Average Population Growth Per Year	0.00%	According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of Wan Chai in 2023 is -1.3%. For conservative approach, population growth of 0% is adopted.
	Est. Pop. (persons) (2030)	156	
Swimming Pool			
Swimming Pool Area, m2	113		
Height of Swimming Pool, m	1.5		
Estimated volume of the Swimming pool, m ³	170		
Turnover Rate, hour	6	General Specification for Swimming Pool Water Treatment Installation in Government Buildings of The Hong Kong Special Administrative Region	
Surface Loading Rate of Filter, m ³ /m ² /hr	50	Swimming Pools: Design and Construction, Fourth Edition By Philip H. Perkins (50 m ³ /m ² /hr adopted)	
Required Filter Area, m ²	0.57		
Backwash Duration (mins)	7.00	With reference to Section B8.5.5 of General Specification for Swimming Pool Water Treatment Installation in Government Buildings of the HKSAR published by the ArchSD, "the water velocity chosen shall be effective in cleaning the filter in duration of 7 minutes for sand filter".	
Backwash Flow Rate, m ³ /m ² /hr	30	Technical Paper - Domestic Swimming Pool Filtration by European Union of Swimmingpool and Spa Associations	
Maximum backwash volume, m ³	2.0		
Maximum backwash volume, L/s	4.71		
Maximum backwash volume, m ³ /s	0.005		

Appendix 6-2 Population Estimation for Catchment Areas

Catchment F

Description		Reference	
F1 Haw Par Mansion			
Total Area (m2)	539	https://www.heritage.gov.hk/en/hpm/background.htm	
Number of Floors	4		
Total Floor Area (m2)	2156		
Worker Density (per 100m2)	3.3	The development is currently a museum and concert space. With reference to CIFSUS, the worker density for Community, Social & Personal Services is adopted (https://www.cland.gov.hk/oland_en/o_study/como_s/cifsus/cifsusReort.pdf)	
Total workers	72		
Total visitors	410	Assumed 350 standing guests and 60 seated guests (https://exclusive-venue.com/venue/haw-par-mansion-grade-1-heritage-venue-lai-hong-hk)	
Total Pop.	482		
Description		Reference	
F2 The Legend			
No. of Households	382	https://hmi-1.buildingmgt.gov.hk/info	
Average Household Size (2021) in Wan Chai	2.6	https://www.census2021.gov.hk/en/district_profiles.html	
Total Pop.	994		
Average Population Growth Per Year	0.00%	According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of Wan Chai in 2023 is -1.3%. For conservative approach, population growth of 0% is adopted.	
Est. Pop. (persons) (2030)	994		
Swimming Pool			
Swimming Pool Area, m2	495		
Height of Swimming Pool, m	1.5		
Estimated volume of the Swimming pool, m³	743		
Turnover Rate, hour	6	General Specification for Swimming Pool Water Treatment Installation in Government Buildings of The Hong Kong Special Administrative Region	
Surface Loading Rate of Filter, m³/m²/hr	50	Swimming Pools: Design and Construction, Fourth Edition By Philip H. Perkins (50 m³/m²/hr adopted)	
Required Filter Area, m²	2.48		
Backwash Duration (mins)	7.00	With reference to Section B8.5.5 of General Specification for Swimming Pool Water Treatment Installation in Government Buildings of the HKSAR published by the ArchSD, "the water velocity chosen shall be effective in cleaning the filter in duration of 7 minutes for sand filter".	
Backwash Flow Rate, m³/m²/hr	30	Technical Paper - Domestic Swimming Pool Filtration by European Union of Swimmingpool and Spa Associations	
Maximum backwash volume, m³	8.7		
Maximum backwash volume, L/s	20.63		
Maximum backwash volume, m³/s	0.021		
Description		Reference	
F3 Gardenview Heights			
No. of Households	68	https://www.midland.com.hk/en/estate/Hong-Kong-Island-Jardine-s-Lookout-Tai-Hong-Gardenview-Heights-E03213	
Average Household Size (2021) in Wan Chai	2.6	https://www.census2021.gov.hk/en/district_profiles.html	
Total Pop.	177		
Average Population Growth Per Year	0.00%	According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of Wan Chai in 2023 is -1.3%. For conservative approach, population growth of 0% is adopted.	
Est. Pop. (persons) (2030)	177		
Swimming Pool			
Swimming Pool Area, m2	105		
Height of Swimming Pool, m	1.5		
Estimated volume of the Swimming pool, m³	158		
Turnover Rate, hour	6	General Specification for Swimming Pool Water Treatment Installation in Government Buildings of The Hong Kong Special Administrative Region	
Surface Loading Rate of Filter, m³/m²/hr	50	Swimming Pools: Design and Construction, Fourth Edition By Philip H. Perkins (50 m³/m²/hr adopted)	
Required Filter Area, m²	0.53		
Backwash Duration (mins)	7.00	With reference to Section B8.5.5 of General Specification for Swimming Pool Water Treatment Installation in Government Buildings of the HKSAR published by the ArchSD, "the water velocity chosen shall be effective in cleaning the filter in duration of 7 minutes for sand filter".	
Backwash Flow Rate, m³/m²/hr	30	Technical Paper - Domestic Swimming Pool Filtration by European Union of Swimmingpool and Spa Associations	
Maximum backwash volume, m³	1.8		
Maximum backwash volume, L/s	4.38		
Maximum backwash volume, m³/s	0.004		
Description		Reference	
F4 Dragon Garden			
No. of Households	80	Home Affairs Department Database of Private Buildings in Hong Kong	
Average Household Size (2021) in Wan Chai	2.6	https://www.census2021.gov.hk/en/district_profiles.html	
Total Pop.	208		
Average Population Growth Per Year	0.00%	According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of Wan Chai in 2023 is -1.3%. For conservative approach, population growth of 0% is adopted.	
Est. Pop. (persons) (2030)	208		
Description		Reference	
F5 The Signature			
No. of Households	66	https://www.midland.com.hk/en/estate/Hong-Kong-Island-Jardine-s-Lookout-Tai-Hong-The-Signature-E000010945	
Average Household Size (2021) in Wan Chai	2.6	https://www.census2021.gov.hk/en/district_profiles.html	
Total Pop.	172		
Average Population Growth Per Year	0.00%	According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of Wan Chai in 2023 is -1.3%. For conservative approach, population growth of 0% is adopted.	
Est. Pop. (persons) (2030)	172		
Swimming Pool (Large)			
Swimming Pool Area, m2	163		
Height of Swimming Pool, m	1.5		
Estimated volume of the Swimming pool, m³	245		
Turnover Rate, hour	6	General Specification for Swimming Pool Water Treatment Installation in Government Buildings of The Hong Kong Special Administrative Region	
Surface Loading Rate of Filter, m³/m²/hr	50	Swimming Pools: Design and Construction, Fourth Edition By Philip H. Perkins (50 m³/m²/hr adopted)	
Required Filter Area, m²	0.82		
Backwash Duration (mins)	7.00	With reference to Section B8.5.5 of General Specification for Swimming Pool Water Treatment Installation in Government Buildings of the HKSAR published by the ArchSD, "the water velocity chosen shall be effective in cleaning the filter in duration of 7 minutes for sand filter".	
Backwash Flow Rate, m³/m²/hr	30	Technical Paper - Domestic Swimming Pool Filtration by European Union of Swimmingpool and Spa Associations	
Maximum backwash volume, m³	2.9		
Maximum backwash volume, L/s	6.79		
Maximum backwash volume, m³/s	0.007		
Swimming Pool (Small)			
Swimming Pool Area, m2	26		
Height of Swimming Pool, m	1.5		
Estimated volume of the Swimming pool, m³	39		
Turnover Rate, hour	6	General Specification for Swimming Pool Water Treatment Installation in Government Buildings of The Hong Kong Special Administrative Region	
Surface Loading Rate of Filter, m³/m²/hr	50	Swimming Pools: Design and Construction, Fourth Edition By Philip H. Perkins (50 m³/m²/hr adopted)	
Required Filter Area, m²	0.13		
Backwash Duration (mins)	7.00	With reference to Section B8.5.5 of General Specification for Swimming Pool Water Treatment Installation in Government Buildings of the HKSAR published by the ArchSD, "the water velocity chosen shall be effective in cleaning the filter in duration of 7 minutes for sand filter".	
Backwash Flow Rate, m³/m²/hr	30	Technical Paper - Domestic Swimming Pool Filtration by European Union of Swimmingpool and Spa Associations	
Maximum backwash volume, m³	0.5		
Maximum backwash volume, L/s	1.08		
Maximum backwash volume, m³/s	0.001		

Description		Reference	
F6 Ronsdale Garden No. of Households Average Household Size (2021) in Wan Chai Total Pop. Average Population Growth Per Year Est. Pop. (persons) (2030)	396	https://hk.censtat.net/estate/en/Ronsdale-Garden/2-72MMHNBN	
	2.6	https://www.census2021.gov.hk/en/district_profiles.html	
	1030		
	0.00%	According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of Wan Chai in 2023 is -1.3%. For conservative approach, population growth of 0% is adopted.	
	1030		
Swimming Pool			
Swimming Pool Area, m2	231		
Height of Swimming Pool, m	1.5		
Estimated volume of the Swimming pool, m ³	347		
Turnover Rate, hour	6	General Specification for Swimming Pool Water Treatment Installation in Government Buildings of The Hong Kong Special Administrative Region	
Surface Loading Rate of Filter, m ³ /m ² /hr	50	Swimming Pools: Design and Construction, Fourth Edition By Philip H. Perkins (50 m ³ /m ² /hr adopted)	
Required Filter Area, m ²	1.16		
Backwash Duration (mins)	7.00	With reference to Section B8.5.5 of General Specification for Swimming Pool Water Treatment Installation in Government Buildings of the HKSAR published by the ArchSD, "the water velocity chosen shall be effective in cleaning the filter in duration of 7 minutes for sand filter".	
Backwash Flow Rate, m ³ /m ² /hr	30	Technical Paper - Domestic Swimming Pool Filtration by European Union of Swimmingpool and Spa Associations	
Maximum backwash volume, m ³	4.0		
Maximum backwash volume, L/s	9.63		
Maximum backwash volume, m ³ /s	0.010		
Description		Reference	
F7 The Church of Christ in China Kung Lee College Number of Students Number of Staffs Total Pop.	500	https://zh.wikipedia.org/wiki/%E4%B8%AD%E8%8F%AF%E5%9F%8A%E7%9D%A3%E6%95%99%E6%9C%83%E5%85%AC%E7%90%86%E9%AB%98%E4%B8%AD%E6%9B%8E%E9%A2	
	28	https://www.schooland.hk/aa/cockle	
	528		
Catchment G			
Description		Reference	
G1 Tsuen Wing Lau, Lai Tak Tsuen Residential Blocks Total Pop. Average Population Growth Per Year Est. Pop. (persons) (2030)	6211	According to 2021 population census, Population in Lai Tak Tsuen of the Wan Chai District are 6211 persons	
	0.00%	According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of Wan Chai in 2023 is -1.3%. For conservative approach, population growth of 0% is adopted.	
	6211		
Retail Units (G/F of Tsuen Wing Lau)			
Total Area (m2)	1239		
Number of Floors	1		
Total Floor Area (m2)	1239		
Worker Density (per 100m2)	3.5	With reference to CIFSUS, the worker density for Retail Trade is adopted (https://www.pland.gov.hk/pland_enip_study/comp_s/cifsus/cifsusReport.pdf)	
Total Pop.	44		
Restaurants (G/F of Tsuen Wing Lau)			
Total Area (m2)	1070		
Number of Floors	1		
Total Floor Area (m2)	1070		
Worker Density (per 100m2)	5.1	With reference to CIFSUS, the worker density for Restaurant is adopted (https://www.pland.gov.hk/pland_enip_study/comp_s/cifsus/cifsusReport.pdf)	
Total Pop.	55		
Pre-School (G/F and B/F of Tsuen Wing Lau)			
Number of Students	132	https://www.schooland.hk/az/mass	
Number of Staffs	6	https://www.schooland.hk/kg/mass	
Total Pop.	138		
Description		Reference	
G2 Serenade No. of Households Average Household Size (2021) in Wan Chai Total Pop. Average Population Growth Per Year Est. Pop. (persons) (2030)	270	https://www.midland.com.hk/en/estate/Hong-Kong-Island-Jardine-s-Lookout-Tai-Hang-Serenade-E000007895	
	2.6	https://www.census2021.gov.hk/en/district_profiles.html	
	702		
	0.00%	According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of Wan Chai in 2023 is -1.3%. For conservative approach, population growth of 0% is adopted.	
	702		
Swimming Pool			
Swimming Pool Area, m2	96		
Height of Swimming Pool, m	1.5		
Estimated volume of the Swimming pool, m ³	144		
Turnover Rate, hour	6	General Specification for Swimming Pool Water Treatment Installation in Government Buildings of The Hong Kong Special Administrative Region	
Surface Loading Rate of Filter, m ³ /m ² /hr	50	Swimming Pools: Design and Construction, Fourth Edition By Philip H. Perkins (50 m ³ /m ² /hr adopted)	
Required Filter Area, m ²	0.48		
Backwash Duration (mins)	7.00	With reference to Section B8.5.5 of General Specification for Swimming Pool Water Treatment Installation in Government Buildings of the HKSAR published by the ArchSD, "the water velocity chosen shall be effective in cleaning the filter in duration of 7 minutes for sand filter".	
Backwash Flow Rate, m ³ /m ² /hr	30	Technical Paper - Domestic Swimming Pool Filtration by European Union of Swimmingpool and Spa Associations	
Maximum backwash volume, m ³	1.7		
Maximum backwash volume, L/s	4.01		
Maximum backwash volume, m ³ /s	0.004		
Catchment H			
Description		Reference	
H1 15-16 Li Kwan Avenue No. of Households Average Household Size (2021) in Wan Chai Total Pop. Average Population Growth Per Year Est. Pop. (persons) (2030)	8	https://www.okay.com/en/building/15-16-li-kwan-avenue/9928	
	2.6	https://www.census2021.gov.hk/en/district_profiles.html	
	21		
	0.00%	According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of Wan Chai in 2023 is -1.3%. For conservative approach, population growth of 0% is adopted.	
	21		
Description		Reference	
H2 Yik Kwan Villa No. of Households Average Household Size (2021) in Wan Chai Total Pop. Average Population Growth Per Year Est. Pop. (persons) (2030)	10	https://www.midland.com.hk/en/estate/Hong-Kong-Island-Jardine-s-Lookout-Tai-Hang-Yik-Kwan-Villa-E10105	
	2.6	https://www.census2021.gov.hk/en/district_profiles.html	
	26		
	0.00%	According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of Wan Chai in 2023 is -1.3%. For conservative approach, population growth of 0% is adopted.	
	26		
Description		Reference	
H3 No. 7 Yik Kwan Avenue No. of Households Average Household Size (2021) in Wan Chai Total Pop. Average Population Growth Per Year Est. Pop. (persons) (2030)	6	https://hk.censtat.net/estate/en/5%20Yik%20Kwan%20Avenue/2-OSSJFRC3RV	
	2.6	https://www.census2021.gov.hk/en/district_profiles.html	
	16		
	0.00%	According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of Wan Chai in 2023 is -1.3%. For conservative approach, population growth of 0% is adopted.	
	16		

Appendix 6-2 Population Estimation for Catchment Areas

Description			Reference
H4	Jade Court		
	No. of Households	7	https://www.midland.com.hk/en/estate/hong-kong-jardine-s-lookout-tai-hang-jade-court-E000008398
	Average Household Size (2021) in Wan Chai	2.6	https://www.census2021.gov.hk/en/district_profiles.html
	Total Pop.	19	
	Average Population Growth Per Year	0.00%	According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of Wan Chai in 2023 is -1.3%. For conservative approach, population growth of 0% is adopted.
	Est. Pop. (persons) (2030)	19	
Description			Reference
H5	No.5 Yik Kwan Avenue		
	No. of Households	6	https://hk.cerlanet.com/estate/en/5%20Yik%20Kwan%20Avenue%20CSS#RCSR/
	Average Household Size (2021) in Wan Chai	2.6	https://www.census2021.gov.hk/en/district_profiles.html
	Total Pop.	16	
	Average Population Growth Per Year	0.00%	According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of Wan Chai in 2023 is -1.3%. For conservative approach, population growth of 0% is adopted.
	Est. Pop. (persons) (2030)	16	
Description			Reference
H6	No.3-4 Yik Kwan Avenue		
	No. of Households	16	https://hk.cerlanet.com/estate/en/3-4%20Yik%20Kwan%20Avenue%20SRUFCSR/
	Average Household Size (2021) in Wan Chai	2.6	https://www.census2021.gov.hk/en/district_profiles.html
	Total Pop.	42	
	Average Population Growth Per Year	0.00%	According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of Wan Chai in 2023 is -1.3%. For conservative approach, population growth of 0% is adopted.
	Est. Pop. (persons) (2030)	42	
Description			Reference
H7	No.1 Yik Kwan Avenue		
	No. of Households	8	https://www.okay.com/en/building/chi-foo-building/2113
	Average Household Size (2021) in Wan Chai	2.6	https://www.census2021.gov.hk/en/district_profiles.html
	Total Pop.	21	
	Average Population Growth Per Year	0.00%	According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of Wan Chai in 2023 is -1.3%. For conservative approach, population growth of 0% is adopted.
	Est. Pop. (persons) (2030)	21	
Description			Reference
H8	Kan Oke House		
	No. of Households	23	https://hk.cerlanet.com/estate/en/Kan-Oke-House/1-SKSKPPDRPB
	Average Household Size (2021) in Wan Chai	2.6	https://www.census2021.gov.hk/en/district_profiles.html
	Total Pop.	60	
	Average Population Growth Per Year	0.00%	According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of Wan Chai in 2023 is -1.3%. For conservative approach, population growth of 0% is adopted.
	Est. Pop. (persons) (2030)	60	
Description			Reference
H9	Fuk Kwan House		
	No. of Households	14	https://www.midland.com.hk/en/estate/hong-kong-jardine-s-lookout-tai-hang-fuk-kwan-house-E03072
	Average Household Size (2021) in Wan Chai	2.6	https://www.census2021.gov.hk/en/district_profiles.html
	Total Pop.	37	
	Average Population Growth Per Year	0.00%	According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of Wan Chai in 2023 is -1.3%. For conservative approach, population growth of 0% is adopted.
	Est. Pop. (persons) (2030)	37	
Description			Reference
H10	No.9-10 Li Kwan Avenue		
	No. of Households	18	Home Affairs Department Database of Private Buildings in Hong Kong
	Average Household Size (2021) in Wan Chai	2.6	https://www.census2021.gov.hk/en/district_profiles.html
	Total Pop.	47	
	Average Population Growth Per Year	0.00%	According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of Wan Chai in 2023 is -1.3%. For conservative approach, population growth of 0% is adopted.
	Est. Pop. (persons) (2030)	47	
Description			Reference
H11	Regent Court		
	No. of Households	18	https://hk.cerlanet.com/estate/en/Regent-Court/1-OSCUFRUPRV/
	Average Household Size (2021) in Wan Chai	2.6	https://www.census2021.gov.hk/en/district_profiles.html
	Total Pop.	47	
	Average Population Growth Per Year	0.00%	According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of Wan Chai in 2023 is -1.3%. For conservative approach, population growth of 0% is adopted.
	Est. Pop. (persons) (2030)	47	
Description			Reference
H12	Lee Hang Court		
	No. of Households	16	https://www.oneday.com.hk/en_US/buildings/lee-hang-court/
	Average Household Size (2021) in Wan Chai	2.6	https://www.census2021.gov.hk/en/district_profiles.html
	Total Pop.	42	
	Average Population Growth Per Year	0.00%	According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of Wan Chai in 2023 is -1.3%. For conservative approach, population growth of 0% is adopted.
	Est. Pop. (persons) (2030)	42	
Description			Reference
H13	No.3-4 Li Kwan Avenue		
	No. of Households	6	https://www.okay.com/en/building/3-4-li-kwan-avenue-buy/6829
	Average Household Size (2021) in Wan Chai	2.6	https://www.census2021.gov.hk/en/district_profiles.html
	Total Pop.	16	
	Average Population Growth Per Year	0.00%	According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of Wan Chai in 2023 is -1.3%. For conservative approach, population growth of 0% is adopted.
	Est. Pop. (persons) (2030)	16	
Description			Reference
H14	No.2 Li Kwan Avenue		
	No. of Households	2	https://hk.cerlanet.com/estate/en/2-Li-Kwan-Avenue/2-TZTMDHMRH/
	Average Household Size (2021) in Wan Chai	2.6	https://www.census2021.gov.hk/en/district_profiles.html
	Total Pop.	6	
	Average Population Growth Per Year	0.00%	According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of Wan Chai in 2023 is -1.3%. For conservative approach, population growth of 0% is adopted.
	Est. Pop. (persons) (2030)	6	
Description			Reference
H15	Dragon Court		
	No. of Households	8	https://www.midland.com.hk/en/estate/hong-kong-island-jardine-s-lookout-tai-hang-dragon-court-E02618
	Average Household Size (2021) in Wan Chai	2.6	https://www.census2021.gov.hk/en/district_profiles.html
	Total Pop.	21	
	Average Population Growth Per Year	0.00%	According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of Wan Chai in 2023 is -1.3%. For conservative approach, population growth of 0% is adopted.
	Est. Pop. (persons) (2030)	21	

Appendix 6-2 Population Estimation for Catchment Areas

Description			Reference
H16	C.C. Lodge		
	No. of Households	16	https://www.midland.com.hk/en/estate/Hong-Kong-Island-Jardine-s-Lookout-Tai-Hang-C-C-Lodge-E12638
	Average Household Size (2021) in Wan Chai	2.6	https://www.census2021.gov.hk/en/district_profiles.html
	Total Pop.	42	
	Average Population Growth Per Year	0.00%	According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of Wan Chai in 2023 is -1.3%. For conservative approach, population growth of 0% is adopted.
	Est. Pop. (persons) (2030)	42	
Description			Reference
H17	Oi Kwan Court		
	No. of Households	16	https://www.midland.com.hk/en/estate/Hong-Kong-Oi-Kwan-Court-E06665
	Average Household Size (2021) in Wan Chai	2.6	https://www.census2021.gov.hk/en/district_profiles.html
	Total Pop.	42	
	Average Population Growth Per Year	0.00%	According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of Wan Chai in 2023 is -1.3%. For conservative approach, population growth of 0% is adopted.
	Est. Pop. (persons) (2030)	42	
Description			Reference
H18	Rosedale		
	No. of Households	12	https://www.okay.com/en/building/rosedale/buy/2109
	Average Household Size (2021) in Wan Chai	2.6	https://www.census2021.gov.hk/en/district_profiles.html
	Total Pop.	32	
	Average Population Growth Per Year	0.00%	According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of Wan Chai in 2023 is -1.3%. For conservative approach, population growth of 0% is adopted.
	Est. Pop. (persons) (2030)	32	
Description			Reference
H19	Harvest Moon Villa		
	No. of Households	8	https://www.midland.com.hk/en/estate/Hong-Kong-Jardine's-Lookout-Tai-Hang-Harvest-Moon-Villa-E03727
	Average Household Size (2021) in Wan Chai	2.6	https://www.census2021.gov.hk/en/district_profiles.html
	Total Pop.	21	
	Average Population Growth Per Year	0.00%	According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of Wan Chai in 2023 is -1.3%. For conservative approach, population growth of 0% is adopted.
	Est. Pop. (persons) (2030)	21	
Description			Reference
H20	Louvre Court		
	No. of Households	16	https://www.midland.com.hk/en/estate/Hong-Kong-Jardine-s-Lookout-Tai-Hang-Louvre-Court-E05789
	Average Household Size (2021) in Wan Chai	2.6	https://www.census2021.gov.hk/en/district_profiles.html
	Total Pop.	42	
	Average Population Growth Per Year	0.00%	According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of Wan Chai in 2023 is -1.3%. For conservative approach, population growth of 0% is adopted.
	Est. Pop. (persons) (2030)	42	
Description			Reference
H21	Jardine Summit		
	No. of Households	48	https://www.midland.com.hk/en/estate/Hong-Kong-Island-Jardine-s-Lookout-Tai-Hang-Jardine-Summit-E00002229
	Average Household Size (2021) in Wan Chai	2.6	https://www.census2021.gov.hk/en/district_profiles.html
	Total Pop.	125	
	Average Population Growth Per Year	0.00%	According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of Wan Chai in 2023 is -1.3%. For conservative approach, population growth of 0% is adopted.
	Est. Pop. (persons) (2030)	125	
Swimming Pool			
	Swimming Pool Area, m ²	64	
	Height of Swimming Pool, m	1.5	
	Estimated volume of the Swimming pool, m ³	95	
	Turnover Rate, hour	6	General Specification for Swimming Pool Water Treatment Installation in Government Buildings of The Hong Kong Special Administrative Region
	Surface Loading Rate of Filter, m ³ /m ² /hr	50	Swimming Pools: Design and Construction, Fourth Edition By Philip H. Perkins (50 m ³ /m ² /hr adopted)
	Required Filter Area, m ²	0.32	
	Backwash Duration (mins)	7.00	With reference to Section B8.5.5 of General Specification for Swimming Pool Water Treatment Installation in Government Buildings of the HKSAR published by the ArchSD, "the water velocity chosen shall be effective in cleaning the filter in duration of 7 minutes for sand filter".
	Backwash Flow Rate, m ³ /m ² /hr	30	Technical Paper - Domestic Swimming Pool Filtration by European Union of Swimmingpool and Spa Associations
	Maximum backwash volume, m ³	1.1	
	Maximum backwash volume, L/s	2.65	
	Maximum backwash volume, m ³ /s	0.003	
Description			Reference
H22	True Light Middle School of Hong Kong		
	Number of Students	2000	https://www.true-light-school.com
	Number of Staffs	63	http://www2021.census.gov.hk/en/district_profiles.html
	Total Pop.	2063	
	Swimming Pool		
	Swimming Pool Area, m ²	205	
	Height of Swimming Pool, m	1.5	
	Estimated volume of the Swimming pool, m ³	308	
	Turnover Rate, hour	6	General Specification for Swimming Pool Water Treatment Installation in Government Buildings of The Hong Kong Special Administrative Region
	Surface Loading Rate of Filter, m ³ /m ² /hr	50	Swimming Pools: Design and Construction, Fourth Edition By Philip H. Perkins (50 m ³ /m ² /hr adopted)
	Required Filter Area, m ²	1.03	
	Backwash Duration (mins)	7.00	With reference to Section B8.5.5 of General Specification for Swimming Pool Water Treatment Installation in Government Buildings of the HKSAR published by the ArchSD, "the water velocity chosen shall be effective in cleaning the filter in duration of 7 minutes for sand filter".
	Backwash Flow Rate, m ³ /m ² /hr	30	Technical Paper - Domestic Swimming Pool Filtration by European Union of Swimmingpool and Spa Associations
	Maximum backwash volume, m ³	3.6	
	Maximum backwash volume, L/s	8.55	
	Maximum backwash volume, m ³ /s	0.009	
Water Feature			
	Swimming Pool Area, m ²	13	
	Height of Swimming Pool, m	1.5	
	Estimated volume of the Swimming pool, m ³	20	
	Turnover Rate, hour	6	General Specification for Swimming Pool Water Treatment Installation in Government Buildings of The Hong Kong Special Administrative Region
	Surface Loading Rate of Filter, m ³ /m ² /hr	50	Swimming Pools: Design and Construction, Fourth Edition By Philip H. Perkins (50 m ³ /m ² /hr adopted)
	Required Filter Area, m ²	0.07	
	Backwash Duration (mins)	7.00	With reference to Section B8.5.5 of General Specification for Swimming Pool Water Treatment Installation in Government Buildings of the HKSAR published by the ArchSD, "the water velocity chosen shall be effective in cleaning the filter in duration of 7 minutes for sand filter".
	Backwash Flow Rate, m ³ /m ² /hr	30	Technical Paper - Domestic Swimming Pool Filtration by European Union of Swimmingpool and Spa Associations
	Maximum backwash volume, m ³	0.2	
	Maximum backwash volume, L/s	0.54	
	Maximum backwash volume, m ³ /s	0.001	
Catchment I			
Description			Reference
I1	Jolly Villa		
	No. of Households	48	https://hk.certranet.com/estate/en/Jolly-Villa-1-172DB19C8N
	Average Household Size (2021) in Wan Chai	2.6	https://www.census2021.gov.hk/en/district_profiles.html
	Total Pop.	125	
	Average Population Growth Per Year	0.00%	According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of Wan Chai in 2023 is -1.3%. For conservative approach, population growth of 0% is adopted.
	Est. Pop. (persons) (2030)	125	

Appendix 6-2 Population Estimation for Catchment Areas

Description		Reference	
12	Y.I.		
No. of Households	70	https://www.midland.com.hk/en/estate/Hong-Kong-Island-Jardine-s-Lookout-Tai-Hang-Y-I-E12544	
Average Household Size (2021) in Wan Chai	2.6	https://www.census2021.gov.hk/en/district_profiles.html	
Total Pop.	182		
Average Population Growth Per Year	0.00%	According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of Wan Chai in 2023 is -1.3%. For conservative approach, population growth of 0% is adopted.	
Est. Pop. (persons) (2030)	182		
Description		Reference	
13	Cherry Court		
No. of Households	24	https://hk.ceritane.com/estate/en/CHERRY%20COURT/1-TZHXHXSHN	
Average Household Size (2021) in Wan Chai	2.6	https://www.census2021.gov.hk/en/district_profiles.html	
Total Pop.	63		
Average Population Growth Per Year	0.00%	According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of Wan Chai in 2023 is -1.3%. For conservative approach, population growth of 0% is adopted.	
Est. Pop. (persons) (2030)	63		
Description		Reference	
14	16-18 Tai Hang Road		
No. of Households	23	https://hk.ceritane.com/estate/en/16-18%20TAI%20HANG%20ROAD/1-OSSRFDRXRV	
Average Household Size (2021) in Wan Chai	2.6	https://www.census2021.gov.hk/en/district_profiles.html	
Total Pop.	60		
Average Population Growth Per Year	0.00%	According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of Wan Chai in 2023 is -1.3%. For conservative approach, population growth of 0% is adopted.	
Est. Pop. (persons) (2030)	60		
Description		Reference	
15	Harmony Court		
No. of Households	24	https://www.midland.com.hk/en/estate/Hong-Kong-Jardine-s-Lookout-Tai-Hang-Harmony-Court-E03710	
Average Household Size (2021) in Wan Chai	2.6	https://www.census2021.gov.hk/en/district_profiles.html	
Total Pop.	63		
Average Population Growth Per Year	0.00%	According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of Wan Chai in 2023 is -1.3%. For conservative approach, population growth of 0% is adopted.	
Est. Pop. (persons) (2030)	63		
Description		Reference	
16	Grand Deco Tower		
No. of Households	54	https://www.midland.com.hk/en/estate/Hong-Kong-Island-Jardine-s-Lookout-Tai-Hang-Grand-Deco-Tower-E12048	
Average Household Size (2021) in Wan Chai	2.6	https://www.census2021.gov.hk/en/district_profiles.html	
Total Pop.	141		
Average Population Growth Per Year	0.00%	According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of Wan Chai in 2023 is -1.3%. For conservative approach, population growth of 0% is adopted.	
Est. Pop. (persons) (2030)	141		
Swimming Pool (Deep End)			
Swimming Pool Area, m ²	39		
Height of Swimming Pool, m	1.5		
Estimated volume of the Swimming pool, m ³	59		
Turnover Rate, hour	6	General Specification for Swimming Pool Water Treatment Installation in Government Buildings of The Hong Kong Special Administrative Region	
Surface Loading Rate of Filter, m ³ /m ² /hr	50	Swimming Pools: Design and Construction, Fourth Edition By Philip H. Perkins (50 m ³ /m ² /hr adopted)	
Required Filter Area, m ²	0.20		
Backwash Duration (mins)	7.00	With reference to Section B8.5.5 of General Specification for Swimming Pool Water Treatment Installation in Government Buildings of the HKSAR published by the ArchSD, "the water velocity chosen shall be effective in cleaning the filter in duration of 7 minutes for sand filter".	
Backwash Flow Rate, m ³ /m ² /hr	30	Technical Paper - Domestic Swimming Pool Filtration by European Union of Swimmingpool and Spa Associations	
Maximum backwash volume, m ³	0.7		
Maximum backwash volume, L/s	1.64		
Maximum backwash volume, m ³ /s	0.002		
Description		Reference	
17	The Hong Kong Mantra School for Lay Buddhist		
Total Area (m ²)	138		
Number of Floors	6		
Total Floor Area (m ²)	828		
Worker Density (per 100m ²)	3.3	The development is mainly use as a religious space. With reference to CIFSUS, the worker density for Community, Social & Personal Services is adopted (https://www.pland.gov.hk/pland_enip_study/comp_s/cifsus/cifsusReport.pdf)	
Total Pop.	28		
Description		Reference	
18	The Hong Kong Mantra School for Lay Women Buddhist		
Total Area (m ²)	188		
Number of Floors	8		
Total Floor Area (m ²)	1504		
Worker Density (per 100m ²)	3.3	The development is mainly use as a religious space. With reference to CIFSUS, the worker density for Community, Social & Personal Services is adopted (https://www.pland.gov.hk/pland_enip_study/comp_s/cifsus/cifsusReport.pdf)	
Total Pop.	50		
Catchment J			
Description		Reference	
J1	Fontana Garden		
No. of Households	289	https://www.midland.com.hk/en/estate/Hong-Kong-Island-Jardine-s-Lookout-Tai-Hang-Fontana-Gardens-E00414	
Average Household Size (2021) in Wan Chai	2.6	https://www.census2021.gov.hk/en/district_profiles.html	
Total Pop.	752		
Average Population Growth Per Year	0.00%	According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of Wan Chai in 2023 is -1.3%. For conservative approach, population growth of 0% is adopted.	
Est. Pop. (persons) (2030)	752		
Swimming Pool			
Swimming Pool Area, m ²	122		
Height of Swimming Pool, m	1.5		
Estimated volume of the Swimming pool, m ³	183		
Turnover Rate, hour	6	General Specification for Swimming Pool Water Treatment Installation in Government Buildings of The Hong Kong Special Administrative Region	
Surface Loading Rate of Filter, m ³ /m ² /hr	50	Swimming Pools: Design and Construction, Fourth Edition By Philip H. Perkins (50 m ³ /m ² /hr adopted)	
Required Filter Area, m ²	0.61		
Backwash Duration (mins)	7.00	With reference to Section B8.5.5 of General Specification for Swimming Pool Water Treatment Installation in Government Buildings of the HKSAR published by the ArchSD, "the water velocity chosen shall be effective in cleaning the filter in duration of 7 minutes for sand filter".	
Backwash Flow Rate, m ³ /m ² /hr	30	Technical Paper - Domestic Swimming Pool Filtration by European Union of Swimmingpool and Spa Associations	
Maximum backwash volume, m ³	2.1		
Maximum backwash volume, L/s	5.09		
Maximum backwash volume, m ³ /s	0.005		

Project No. 1947

Sewerage Impact Assessment for Section 16 Planning Application for Proposed Amendments to an Approved Scheme (under Application No. A/H6/91 with Minor Relaxation of Plot Ratio Restriction Approved) for Permitted Flat Use at 4, 4A, 4B and 4C Tai Hang Road, Hong Kong

Appendix 6-3

Estimation of Sewerage Flow from Catchment Areas

Appendix 6-3 Estimation of Sewerage Flow from Catchment Area

Table 1- Estimation of Sewage Flow from Developments in Each Catchment

Catchment	No.	Population Description	Type of Occupancy	Estimated Population	UFF Type		Total Average Sewage Discharge (m ³ /day)
					Category	m ³ /day	
A	A1	Buddhist Li Ka Shing Care and Attention Home for the Elderly	Care Workers	190	Community, Social & Personal Services	0.28	53.2
			Care Home Residents	242	Institutional & Special Class	0.19	46.0
	A2	Jardini	Visitors	242	Visitors ⁽²⁾	0.08	19.4
			Residential	297	T1, Domestic (private permanent housing R2)	0.27	80.2
	A3	Perkins Road Dairy Farm Shopping Centre	Retail	31	Wholesale & Retail	0.28	8.7
	A4	Tai Hang Road Petrol Filling Station	Retail	4	Wholesale & Retail	0.28	1.1
	A5	Villa De Perkins (7, 9, 11, 13, 15, 17, 19, 21 and 23 Perkins Road)	Residential	29	T1, Domestic (private permanent housing R3)	0.37	10.7
	A6	No.25 Perkins Road	Residential	3	T1, Domestic (private permanent housing R3)	0.37	1.1
	A7	Cavendish Heights	Residential	1144	T1, Domestic (private permanent housing R2)	0.27	308.9
	A8	New Development at No.41, 43 and 45 Perkins Road	Residential	24	T1, Domestic (private permanent housing R3)	0.37	8.9
	A9	Pinewood Garden	Residential	50	T1, Domestic (private permanent housing R3)	0.37	18.5
	A10	Dukes Place	Residential	42	T1, Domestic (private permanent housing R2)	0.27	11.3
	A11	No.3 Moorsom Road	Residential	3	T1, Domestic (private permanent housing R3)	0.37	1.1
	A12	No.5 Moorsom Road	Residential	3	T1, Domestic (private permanent housing R3)	0.37	1.1
	A13	No.7 Moorsom Road	Residential	3	T1, Domestic (private permanent housing R3)	0.37	1.1
	A14	No.9 Moorsom Road	Residential	3	T1, Domestic (private permanent housing R3)	0.37	1.1
	A15	No.11 Moorsom Road	Residential	3	T1, Domestic (private permanent housing R3)	0.37	1.1
	A16	No.15 Moorsom Road	Residential	3	T1, Domestic (private permanent housing R3)	0.37	1.1
	A17	No.17 Moorsom Road	Residential	3	T1, Domestic (private permanent housing R3)	0.37	1.1
	A18	No.19 Moorsom Road	Residential	3	T1, Domestic (private permanent housing R3)	0.37	1.1
	A19	Jardine's Lookout Garden Houses (No.21-49 Moorsom Road)	Residential	39	T1, Domestic (private permanent housing R3)	0.37	14.4
	A20	No.1 Moorsom Drive	Residential	3	T1, Domestic (private permanent housing R3)	0.37	1.1
	A21	No.2 Moorsom Drive	Residential	3	T1, Domestic (private permanent housing R3)	0.37	1.1
	A22	No.3 Moorsom Drive	Residential	3	T1, Domestic (private permanent housing R3)	0.37	1.1
	A23	No.4 Moorsom Drive	Residential	3	T1, Domestic (private permanent housing R3)	0.37	1.1
	A24	No.5 Moorsom Drive	Residential	3	T1, Domestic (private permanent housing R3)	0.37	1.1
	A25	No.6 Moorsom Drive	Residential	3	T1, Domestic (private permanent housing R3)	0.37	1.1
	A26	No.7 Moorsom Drive	Residential	3	T1, Domestic (private permanent housing R3)	0.37	1.1
	A27	No.8 Moorsom Drive	Residential	3	T1, Domestic (private permanent housing R3)	0.37	1.1
	A28	No.9 Moorsom Drive	Residential	3	T1, Domestic (private permanent housing R3)	0.37	1.1
	A29	Butler Towers	Residential	307	T1, Domestic (private permanent housing R2)	0.27	82.9
	A30	Wing On Towers	Residential	177	T1, Domestic (private permanent housing R2)	0.27	47.8
	A31	No.2 Boyce Road	Residential	3	T1, Domestic (private permanent housing R3)	0.37	1.1
	A32	No.4 Boyce Road	Residential	3	T1, Domestic (private permanent housing R3)	0.37	1.1
	A33	No.6 Boyce Road	Residential	3	T1, Domestic (private permanent housing R3)	0.37	1.1
	A34	No.8 Boyce Road	Residential	3	T1, Domestic (private permanent housing R3)	0.37	1.1
	A35	No.10 Boyce Road	Residential	3	T1, Domestic (private permanent housing R3)	0.37	1.1
	A36	Linden Height	Residential	94	T1, Domestic (private permanent housing R2)	0.27	25.4
	A37	No.12 Boyce Road	Residential	16	T1, Domestic (private permanent housing R2)	0.27	4.3
	A38	No.6 Moorsom Road	Residential	3	T1, Domestic (private permanent housing R3)	0.37	1.1
	A39	No.8 Moorsom Road	Residential	3	T1, Domestic (private permanent housing R3)	0.37	1.1
	A40	No.10 Moorsom Road	Residential	3	T1, Domestic (private permanent housing R3)	0.37	1.1
	A41	No.12 Moorsom Road	Residential	3	T1, Domestic (private permanent housing R3)	0.37	1.1
	A42	No.14 Moorsom Road	Residential	3	T1, Domestic (private permanent housing R3)	0.37	1.1
	A43	Moorsom Lodge	Residential	16	T1, Domestic (private permanent housing R3)	0.37	5.9
	A44	No.53 Perkins Road	Residential	3	T1, Domestic (private permanent housing R3)	0.37	1.1
	A45	No.55 Perkins Road	Residential	3	T1, Domestic (private permanent housing R3)	0.37	1.1
	A46	Minton Court	Residential	19	T1, Domestic (private permanent housing R3)	0.37	7.0
	A47	No.59 Perkins Road	Residential	3	T1, Domestic (private permanent housing R3)	0.37	1.1
	A48	Falcon Lodge	Residential	13	T1, Domestic (private permanent housing R3)	0.37	4.8
	A49	No.69 Perkins Road	Residential	16	T1, Domestic (private permanent housing R3)	0.37	5.9
	A50	No.69 Perkins Road	Residential	8	T1, Domestic (private permanent housing R3)	0.37	3.0
	A51	No.73 Perkins Road	Residential	3	T1, Domestic (private permanent housing R3)	0.37	1.1
	A52	No.75 Perkins Road	Residential	6	T1, Domestic (private permanent housing R3)	0.37	2.2
	A53	No.77 Perkins Road	Residential	3	T1, Domestic (private permanent housing R3)	0.37	1.1
	A54	No.79 Perkins Road	Residential	3	T1, Domestic (private permanent housing R3)	0.37	1.1
	A55	No.81 Perkins Road	Residential	3	T1, Domestic (private permanent housing R3)	0.37	1.1
	A56	No.83 Perkins Road	Residential	3	T1, Domestic (private permanent housing R3)	0.37	1.1
	A57	No.2 Perkins Road	Residential	3	T1, Domestic (private permanent housing R3)	0.37	1.1
	A58	No.4 Perkins Road	Residential	3	T1, Domestic (private permanent housing R3)	0.37	1.1
	A59	No.6 Perkins Road	Residential	3	T1, Domestic (private permanent housing R3)	0.37	1.1
	A60	No.8 Perkins Road	Residential	3	T1, Domestic (private permanent housing R3)	0.37	1.1
	A61	No.10 Perkins Road	Residential	3	T1, Domestic (private permanent housing R3)	0.37	1.1
	A62	No.12 Perkins Road	Residential	3	T1, Domestic (private permanent housing R3)	0.37	1.1
	A63	No.14 Perkins Road	Residential	3	T1, Domestic (private permanent housing R3)	0.37	1.1
	A64	Redwoods	Residential	3	T1, Domestic (private permanent housing R3)	0.37	1.1
	A65	No.18 Perkins Road	Residential	3	T1, Domestic (private permanent housing R3)	0.37	1.1
	A66	No.20 Perkins Road	Residential	3	T1, Domestic (private permanent housing R3)	0.37	1.1
	A67	No.22 Perkins Road	Residential	3	T1, Domestic (private permanent housing R3)	0.37	1.1
	A68	No.24 Perkins Road	Residential	3	T1, Domestic (private permanent housing R3)	0.37	1.1
	A69	No.2 Henderson Road	Residential	3	T1, Domestic (private permanent housing R3)	0.37	1.1
	A70	No.3 Henderson Road	Residential	3	T1, Domestic (private permanent housing R3)	0.37	1.1
	A71	No.4 Henderson Road	Residential	3	T1, Domestic (private permanent housing R3)	0.37	1.1
	A72	No.5 Henderson Road	Residential	3	T1, Domestic (private permanent housing R3)	0.37	1.1
	A73	No.6 Henderson Road	Residential	3	T1, Domestic (private permanent housing R3)	0.37	1.1
	A74	No.7 Henderson Road	Residential	3	T1, Domestic (private permanent housing R3)	0.37	1.1
	A75	No.8 Henderson Road	Residential	3	T1, Domestic (private permanent housing R3)	0.37	1.1
	A76	No.9 Henderson Road	Residential	3	T1, Domestic (private permanent housing R3)	0.37	1.1
	A77	No.10 Henderson Road	Residential	3	T1, Domestic (private permanent housing R3)	0.37	1.1
	A78	No.11 Henderson Road	Residential	3	T1, Domestic (private permanent housing R3)	0.37	1.1
	A79	No.12 Henderson Road	Residential	3	T1, Domestic (private permanent housing R3)	0.37	1.1
	A80	No.12A Henderson Road	Residential	3	T1, Domestic (private permanent housing R3)	0.37	1.1
	A81	No.18 Henderson Road	Residential	3	T1, Domestic (private permanent housing R3)	0.37	1.1
	A82	No.1 Cooper Road	Residential	3	T1, Domestic (private permanent housing R3)	0.37	1.1
	A83	No.1 Purves Road	Residential	3	T1, Domestic (private permanent housing R3)	0.37	1.1
	A84	No.2 Purves Road	Residential	3	T1, Domestic (private permanent housing R3)	0.37	1.1
	A85	No.3 Purves Road	Residential	3	T1, Domestic (private permanent housing R3)	0.37	1.1
	A86	No.4 Purves Road	Residential	3	T1, Domestic (private permanent housing R3)	0.37	1.1
	A87	No.5 Purves Road	Residential	3	T1, Domestic (private permanent housing R3)	0.37	1.1
	A88	No.6 Purves Road	Residential	3	T1, Domestic (private permanent housing R3)	0.37	1.1
	A89	No.7 Purves Road	Residential	3	T1, Domestic (private permanent housing R3)	0.37	1.1
	A90	New Development at No.8 Purves Road	Residential	8	T1, Domestic (private permanent housing R3)	0.37	3.0
	A91	No.4A Cooper Road	Residential	3	T1, Domestic (private permanent housing R3)	0.37	1.1
	A92	No.4 Cooper Road	Residential	6	T1, Domestic (private permanent housing R3)	0.37	2.2
	A93	No.6 Cooper Road	Residential	3	T1, Domestic (private permanent housing R3)	0.37	1.1
	A94	No.8 Cooper Road	Residential	3	T1, Domestic (private permanent housing R3)	0.37	1.1
	A95	No.10 Cooper Road	Residential	3	T1, Domestic (private permanent housing R3)	0.37	1.1
	A96	No.12 Cooper Road	Residential	3	T1, Domestic (private permanent housing R3)	0.37	1.1
	A97	No.1 Goldsmith Road	Residential	3	T1, Domestic (private permanent housing R3)	0.37	1.1
	A98	No.2-3 Goldsmith Road	Residential	3	T1, Domestic (private permanent housing R3)	0.37	1.1
	A99	No.4 Goldsmith Road	Residential	3	T1, Domestic (private permanent housing R3)	0.37	1.1
	A100	No.5 Goldsmith Road	Residential	3	T1, Domestic (private permanent housing R3)	0.37	1.1
	A101	New Development at No.6 Goldsmith Road	Residential	3	T1, Domestic (private permanent housing R3)	0.37	1.1
	A102	Valley View	Residential	6	T1, Domestic (private permanent housing R3)	0.37	2.2
	A103	No.17 Cooper Road	Residential	3	T1, Domestic (private permanent housing R3)	0.37	1.1
	A104	No.19 Cooper Road	Residential	3	T1, Domestic (private permanent housing R3)	0.37	1.1
	A105	No.21 Cooper Road	Residential	3	T1, Domestic (private permanent housing R3)	0.37	1.1
	A106	No.23 Cooper Road	Residential	3	T1, Domestic (private permanent housing R3)	0.37	1.1
	A107	No.25 Cooper Road	Residential	3	T1, Domestic (private permanent housing R3)	0.37	1.1
	A108	No.1 Creasy Road	Residential	6	T1, Domestic (private permanent housing R3)	0.37	2.2
	A109	No.9 Creasy Road	Residential	3	T1, Domestic (private permanent housing R3)	0.37	1.1
	A110	No.11 Creasy Road	Residential	3	T1, Domestic (private permanent housing R3)	0.37	1.1
	A111	No.11A Creasy Road	Residential	3	T1, Domestic (private permanent housing R3)	0.37	1.1
	A112	No.15 Creasy Road	Residential	6	T1, Domestic (private permanent housing R3)	0.37	2.2
	A113	Jardine's Lookout Residents' Association- Creasy Road Building	Staff	37	Restaurants & Hotels	1.58	58.5
	A114	Jardine's Lookout Residents' Association- Purves Road Buildings	Staff	8	Community, Social & Personal Services	0.28	2.2
	A115	111 Mount Butler Road	Residential	656	T1, Domestic (private permanent housing R3)	0.37	242.7
A116	Tai Hang Path Public Toilet				0.37	2.1 (B)	

B	B1	Swiss Towers	Residential	414	T1, Domestic (private permanent housing R2)	0.27	111.8	
	B2	Park Garden	Residential	229	T1, Domestic (private permanent housing R2)	0.27	61.8	
	B3	Bellevue Heights	Residential	141	T1, Domestic (private permanent housing R2)	0.27	38.1	
	B4	Yick King Building	Residential	115	T1, Domestic (private permanent housing R2)	0.27	31.1	
	B5	Tai Hang Terrace	Residential	624	T1, Domestic (private permanent housing R2)	0.27	168.5	
	B6	Flora Garden	Residential	624	T1, Domestic (private permanent housing R2)	0.27	168.5	
	B7	Elm Tree Towers	Residential	297	T1, Domestic (private permanent housing R2)	0.27	80.2	
	B8	Chun Fai Centre	Staff (Retail)	30	Wholesale & Retail	0.28	8.4	
			Staff (School)	37	Community, Social & Personal Services	0.28	10.4	
			Students	448	Students	0.04	17.9	
B9	Aurizon	Residential	214	T1, Domestic (private permanent housing R2)	0.27	57.8		
B10	Aurora	Residential	110	T1, Domestic (private permanent housing R2)	0.27	29.7		
C	C1	No.83-87 Tai Hang Road	Residential	32	T1, Domestic (private permanent housing R3)	0.37	11.8	
	C2	New Development at No.89-93 Tai Hang Road	Residential			37.2	(i)	
	C3	Gold King Mansion	Residential	208	T1, Domestic (private permanent housing R2)	0.27	56.2	
	C4	Gold Ning Mansion	Residential	208	T1, Domestic (private permanent housing R2)	0.27	56.2	
	C5	Alpha Court	Residential	32	T1, Domestic (private permanent housing R3)	0.37	11.8	
	C6	Renown Court	Residential	78	T1, Domestic (private permanent housing R3)	0.37	28.9	
	D1	Grandview Mansion	Residential	86	T1, Domestic (private permanent housing R3)	0.37	31.8	
	D2	No.2 Wang Fung Terrace	Residential	32	T1, Domestic (private permanent housing R3)	0.37	11.8	
	D3	No.3-3E Wang Fung Terrace	Residential	60	T1, Domestic (private permanent housing R3)	0.37	22.2	
	D4	No.4A-4D Wang Fung Terrace	Residential	42	T1, Domestic (private permanent housing R3)	0.37	15.5	
D	D5	No.4 Wang Fung Terrace	Residential	8	T1, Domestic (private permanent housing R3)	0.37	3.0	
	D6	No.5 Wang Fung Terrace	Residential	42	T1, Domestic (private permanent housing R3)	0.37	15.5	
	D7	Scenic Lodge	Residential	32	T1, Domestic (private permanent housing R3)	0.37	11.8	
	D8	Jolly Garden	Residential	32	T1, Domestic (private permanent housing R3)	0.37	11.8	
	D9	Green Village	Residential	42	T1, Domestic (private permanent housing R3)	0.37	15.5	
	D10	No.9-9A Wang Fung Terrace	Residential	21	T1, Domestic (private permanent housing R3)	0.37	7.8	
	D11	No.10 Wang Fung Terrace	Residential	16	T1, Domestic (private permanent housing R3)	0.37	5.9	
	D12	Verde Green	Residential	16	T1, Domestic (private permanent housing R3)	0.37	5.9	
	D13	Hecny Court	Residential	19	T1, Domestic (private permanent housing R3)	0.37	7.0	
	D14	Mayflower Mansion	Residential	84	T1, Domestic (private permanent housing R3)	0.37	31.1	
E	D15	No.12 Wang Fung Terrace	Residential	21	T1, Domestic (private permanent housing R3)	0.37	7.8	
	E1	Avalon	Residential	120	T1, Domestic (private permanent housing R2)	0.27	32.4	
	E2	Yukon Height	Residential	104	T1, Domestic (private permanent housing R2)	0.27	28.1	
	E3	Morengo Court	Residential	125	T1, Domestic (private permanent housing R2)	0.27	33.8	
	E4	Wah Fung Mansion	Residential	52	T1, Domestic (private permanent housing R2)	0.27	14.0	
	E5	Carnation Court	Residential	115	T1, Domestic (private permanent housing R2)	0.27	31.1	
	E6	No.52 Tai Hang Road	Residential	8	T1, Domestic (private permanent housing R2)	0.27	2.2	
	E7	Royal Court	Residential	65	T1, Domestic (private permanent housing R2)	0.27	17.6	
	E8	Sunrise Court	Residential	63	T1, Domestic (private permanent housing R2)	0.27	17.0	
	E9	Fuk Kwan Mansion	Residential	32	T1, Domestic (private permanent housing R3)	0.37	11.8	
F	E10	The Elegance	Residential	45	T1, Domestic (private permanent housing R2)	0.27	12.2	
	E11	Trafalgar Court	Residential	156	T1, Domestic (private permanent housing R2)	0.27	42.1	
	F1	Haw Par Mansion	Staff	72	Community, Social & Personal Services	0.28	20.2	
	F2	The Legend	Visitors	410	Visitors	0.08	32.8	
	F3	Gardenview Heights	Residential	994	T1, Domestic (private permanent housing R2)	0.27	268.4	
	F4	Dragon Garden	Residential	177	T1, Domestic (private permanent housing R2)	0.27	47.8	
	F5	The Signature	Residential	208	T1, Domestic (private permanent housing R2)	0.27	56.2	
	F6	Ronsdale Garden	Residential	172	T1, Domestic (private permanent housing R2)	0.27	46.4	
	F7	Ronsdale Garden	Residential	1030	T1, Domestic (private permanent housing R2)	0.27	278.1	
	F7	The Church of Christ in China Kung Lee College	Students	500	Students	0.04	20.0	
G			Staff	28	Community, Social & Personal Services	0.28	7.8	
	G1	Tsuen Wing Lau, Lai Tak Tsuen	Residential	6211	T1, Domestic (private permanent housing R1)	0.19	1180.1	
			Staff (Retail)	44	Wholesale & Retail	0.28	12.3	
			Staff (Restaurants)	55	Restaurants & Hotels	1.58	86.0	
			Students	132	Students	0.04	5.3	
	G2	Serenade	Staff (School)	6	Community, Social & Personal Services	0.28	1.7	
	H1	15-16 Li Kwan Avenue	Residential	702	T1, Domestic (private permanent housing R2)	0.27	189.5	
	H	H2	Yik Kwan Villa	Residential	21	T1, Domestic (private permanent housing R3)	0.37	7.8
		H3	No.7 Yik Kwan Avenue	Residential	26	T1, Domestic (private permanent housing R3)	0.37	9.6
		H4	Jade Court	Residential	16	T1, Domestic (private permanent housing R3)	0.37	5.9
H5		Jade Court	Residential	19	T1, Domestic (private permanent housing R3)	0.37	7.0	
H6		No.5 Yik Kwan Avenue	Residential	16	T1, Domestic (private permanent housing R3)	0.37	5.9	
H7		No.3-4 Yik Kwan Avenue	Residential	42	T1, Domestic (private permanent housing R3)	0.37	15.5	
H8		No.1 Yik Kwan Avenue	Residential	21	T1, Domestic (private permanent housing R3)	0.37	7.8	
H9		Kan Oke House	Residential	60	T1, Domestic (private permanent housing R3)	0.37	22.2	
H10		Fuk Kwan House	Residential	37	T1, Domestic (private permanent housing R3)	0.37	13.7	
H11		No.9-10 Li Kwan Avenue	Residential	47	T1, Domestic (private permanent housing R3)	0.37	17.4	
I	H12	Regent Court	Residential	47	T1, Domestic (private permanent housing R3)	0.37	17.4	
	H13	Lee Hang Court	Residential	42	T1, Domestic (private permanent housing R3)	0.37	15.5	
	H14	No.3-4 Li Kwan Avenue	Residential	16	T1, Domestic (private permanent housing R3)	0.37	5.9	
	H15	No.2 Li Kwan Avenue	Residential	6	T1, Domestic (private permanent housing R3)	0.37	2.2	
	H16	Dragon Court	Residential	21	T1, Domestic (private permanent housing R3)	0.37	7.8	
	H17	C.C. Lodge	Residential	42	T1, Domestic (private permanent housing R3)	0.37	15.5	
	H18	Oi Kwan Court	Residential	42	T1, Domestic (private permanent housing R3)	0.37	15.5	
	H19	Rosedale	Residential	32	T1, Domestic (private permanent housing R3)	0.37	11.8	
	H20	Harvest Moon Villa	Residential	21	T1, Domestic (private permanent housing R3)	0.37	7.8	
	H21	Louvre Court	Residential	42	T1, Domestic (private permanent housing R3)	0.37	15.5	
J	H22	Jardine Summit	Residential	125	T1, Domestic (private permanent housing R3)	0.37	46.3	
	H22	True Light Middle School of Hong Kong	Students	2000	Students	0.04	80.0	
	H23	True Light Middle School of Hong Kong	Staff	63	Community, Social & Personal Services	0.28	17.6	
	H23	Tai Hang Road Public Toilet				16.2	(4)	
	I1	Jolly Villa	Residential	125	T1, Domestic (private permanent housing R2)	0.27	33.8	
	I2	Y.I.	Residential	182	T1, Domestic (private permanent housing R2)	0.27	49.1	
	I3	Cherry Court	Residential	63	T1, Domestic (private permanent housing R2)	0.27	17.0	
	I4	16-18 Tai Hang Road	Residential	60	T1, Domestic (private permanent housing R2)	0.27	16.2	
	I5	Harmony Court	Residential	63	T1, Domestic (private permanent housing R2)	0.27	17.0	
	I6	Grand Deco Tower	Residential	141	T1, Domestic (private permanent housing R2)	0.27	38.1	
J	J8	The Hong Kong Mantra School for Lay Buddhist	Staff	28	Community, Social & Personal Services	0.28	7.8	
	J8	The Hong Kong Mantra School for Lay Women Buddhist	Staff	50	Community, Social & Personal Services	0.28	14.0	
J8	Fontana Garden	Residential	752	T1, Domestic (private permanent housing R2)	0.27	203.0		
Total				24288	Total Domestic Discharge	5655		

Remark

[1]: As advised by DSD's comment received on 31 July 2026.

[2]: The unit flow factor for visitors is made reference to North East New Territories New Development Areas - Environmental Impact Assessment (AEIAR-175/2013).

[3]: Detail calculation presented in Table 3 of Appendix 6-3.

[4]: Detail calculation presented in Table 4 of Appendix 6-3.

Table 2- Estimation of Sewage Flow Generated from Backwash Flow from Swimming Pools of the Developments in Each Catchments

Catchment	No.	Population Description	Total Swimming Pool Volume (m ³)	Total Maximum Backwash Volume (m ³ /s)
A	A5	Villa De Perkins (7, 9, 11, 13, 15, 17, 19, 21 and 23 Perkins Road)	192	0.0053
	A6	No.25 Perkins Road	83	0.0023
	A7	Cavendish Heights	431	0.0120
	A10	Dukes Place	156	0.0043
	A20	No.1 Moorsom Drive	126	0.0035
	A22	No.3 Moorsom Drive	47	0.0013
	A40	No.10 Moorsom Road	56	0.0015
	A44	No.53 Perkins Road	127	0.0035
	A53	No.77 Perkins Road	57	0.0016
	A59	No.6 Perkins Road	194	0.0054
	A61	No.10 Perkins Road	162	0.0045
	A62	No.12 Perkins Road	270	0.0075
	A64	Redwoods	405	0.0113
	A77	No.10 Henderson Road	86	0.0024
	A89	No.7 Purves Road	33	0.0009
	A91	No.4A Cooper Road	53	0.0015
	A93	No.6 Cooper Road	107	0.0030
	A94	No.8 Cooper Road	104	0.0029
	A95	No.10 Cooper Road	156	0.0043
	A97	No.1 Goldsmith Road	116	0.0032
	A98	No.2-3 Goldsmith Road	237	0.0066
	A100	No.5 Goldsmith Road	83	0.0023
	A102	Valley View	99	0.0028
	A103	No.17 Cooper Road	94	0.0026
	A104	No.19 Cooper Road	128	0.0036
	A107	No.25 Cooper Road	41	0.0011
	A111	No.11A Creasy Road	121	0.0034
	A114	Jardine's Lookout Residents' Association- Purves Road Buildings	261	0.0073
B	B6	Flora Garden	231	0.0064
	B7	Elm Tree Gardens	209	0.0058
C	C2	New Development at No.89-93 Tai Hang Road		0.0042
D	D14	Mayflower Mansion	152	0.0042
E	E1	Avalon	107	0.0030
	E5	Carnation Court	158	0.0044
	E11	Trafalgar Court	170	0.0047
F	F2	The Legend	743	0.0206
	F3	Gardenview Heights	158	0.0044
	F5	The Signature	284	0.0079
	F6	Ronsdale Garden	347	0.0096
G	G2	Serenade	144	0.0040
H	H20	Jardine Summit	95	0.0026
	H21	True Light Middle School of Hong Kong	327	0.0091
I	I6	Grand Deco Tower	59	0.0016
J	J1	Fontana Garden	183	0.0051
			7384.1	0.2093

[1]

Remark [1]: As advised by DSD's comment received on 31 July 2026.

Table 3 - Tai Hang Path Public Toilet - Catchment A (No. A116)

Description	Note	Quantity		Remark
Area of Open Space with the referenced public toilet in Ma Wan Tsuen		4648	m ²	https://www1.ozp.tpb.gov.hk/qos/default.aspx?
Area of Open Space of Sam Ka Tsuen Recreational Ground		1310	m ²	https://www1.ozp.tpb.gov.hk/qos/default.aspx?
Total Daily Users of a referenced public toilet in Ma Wan Tsuen in Weekend		903	person	Table 6.6 Total Daily Users of Public Toilet in Head Count Surveys of the Approved EIA Report of Lei Yue Mun Waterfront Enhancement Project (https://www.epd.gov.hk/eia/register/report/eiareport/eia_2582018/HTML/EIA/S6_Sewage.htm#_Toc519183665)
Estimated Total Daily Users of the public toilet in Sam Ka Tsuen Recreational Ground		255	person	Total Daily Users of a referenced public toilet in Ma Wan Tsuen in Weekend × Area of Open Space of Broadcast Drive Garden ÷ Area of Open Space with the referenced public toilet in Ma Wan Tsuen
Median volume of urine for a single person after urination	(A)	0.23	L	According to Table 12 of "The Characterization of Feces and Urine: A Review of the Literature to Inform Advanced Treatment Technology" (C. Rose et al., 2015), the median value of urine wet weight is 1.4 L/cap/day. By dividing daily urination frequency (i.e. 6 urinations/24 hrs), median volume of urine is obtained.
Median volume of feces for a single person after defecation	(B)	0.12	L	According to Table 12 of "The Characterization of Feces and Urine: A Review of the Literature to Inform Advanced Treatment Technology" (C. Rose et al., 2015), the median value of fecal wet weight is 128 g/cap/day. By dividing daily defecation frequency (i.e. 1.1 motions/24 hrs) and assuming stool density is same as water density, median volume of feces is obtained.
Average volume of hand washing water for a single person after excrement in public toilets	(C)	1.38	L	According to Section 8.6 (Assumptions and baselines for water consumption) of BEAM Plus New Buildings Version 1.2, the baseline hand washing time is 10 seconds and the average tap flow rate is 8.3 L/min.
Flushing volume of a single water closet in public toilets	(D)	6.50	L	According to According to Section 6.2 (WU 7 Effluent Discharge to Foul Sewers) of BEAM Plus New Buildings Version 2.0, the baseline flushing volume of a single flush toilet is 6.5 L per flush.
Sewage generated from each urination in public toilets	(E)	8.12	L	(A) + (C) + (D)
Sewage generated from each defecation in public toilets	(F)	8.00	L	(B) + (C) + (D)
Hourly urination frequency handling in public toilets	(G)	216	times	With reference to Table 12 (Summary table of feces and urine characteristics providing on-site sanitation design criteria) of "The Characterization of Feces and Urine: A Review of the Literature to Inform Advanced Treatment Technology" (C. Rose et al., 2015), urination frequency of a single person is 6 times a day; while defecation frequency is 1.1 times a day. Urination and defecation ratio of each visitor in the public toilet is thus assumed 6 : 1.1 according to the mentioned frequency.
Hourly defecation frequency handling in public toilets	(H)	39	times	With reference to Table 12 (Summary table of feces and urine characteristics providing on-site sanitation design criteria) of "The Characterization of Feces and Urine: A Review of the Literature to Inform Advanced Treatment Technology" (C. Rose et al., 2015), urination frequency of a single person is 6 times a day; while defecation frequency is 1.1 times a day. Urination and defecation ratio of each visitor in the public toilet is thus assumed 6 : 1.1 according to the mentioned frequency.
Daily sewage generation from public toilets everyday		<u>2.07</u>	m ³ /day	(E) * (G) + (F) * (H)

Table 4 - Tai Hang Road Public Toilet - Catchment H (No. H23)

Description	Note	Quantity		Remark
Estimated Total Daily Users of the Tai Hang Road Public Toilet		1999	person	The utilisation rate of the toilet is based on the report published for "Public Accounts Committee - Consideration of Chapter 1 of the Director of Audit's Report No. 73: Planning, provision and management of public toilets by the Food and Environmental Hygiene Department" by FEHD. Tai Hang Road Public Toilet is considered as a toilet with high utilisation rate (1000-1999 persons/day)
Median volume of urine for a single person after urination	(A)	0.23	L	According to Table 12 of "The Characterization of Feces and Urine: A Review of the Literature to Inform Advanced Treatment Technology" (C. Rose et al., 2015), the median value of urine wet weight is 1.4 L/cap/day. By dividing daily urination frequency (i.e. 6 urinations/24 hrs), median volume of urine is obtained.
Median volume of feces for a single person after defecation	(B)	0.12	L	According to Table 12 of "The Characterization of Feces and Urine: A Review of the Literature to Inform Advanced Treatment Technology" (C. Rose et al., 2015), the median value of fecal wet weight is 128 g/cap/day. By dividing daily defecation frequency (i.e. 1.1 motions/24 hrs) and assuming stool density is same as water density, median volume of feces is obtained.
Average volume of hand washing water for a single person after excrement in public toilets	(C)	1.38	L	According to Section 8.6 (Assumptions and baselines for water consumption) of BEAM Plus New Buildings Version 1.2, the baseline hand washing time is 10 seconds and the average tap flow rate is 8.3 L/min.
Flushing volume of a single water closet in public toilets	(D)	6.50	L	According to According to Section 6.2 (WU 7 Effluent Discharge to Foul Sewers) of BEAM Plus New Buildings Version 2.0, the baseline flushing volume of a single flush toilet is 6.5 L per flush.
Sewage generated from each urination in public toilets	(E)	8.12	L	(A) + (C) + (D)
Sewage generated from each defecation in public toilets	(F)	8.00	L	(B) + (C) + (D)
Hourly urination frequency handling in public toilets	(G)	1690	times	With reference to Table 12 (Summary table of feces and urine characteristics providing on-site sanitation design criteria) of "The Characterization of Feces and Urine: A Review of the Literature to Inform Advanced Treatment Technology" (C. Rose et al., 2015), urination frequency of a single person is 6 times a day; while defecation frequency is 1.1 times a day. Urination and defecation ratio of each visitor in the public toilet is thus assumed 6 : 1.1 according to the mentioned frequency.
Hourly defecation frequency handling in public toilets	(H)	309	times	With reference to Table 12 (Summary table of feces and urine characteristics providing on-site sanitation design criteria) of "The Characterization of Feces and Urine: A Review of the Literature to Inform Advanced Treatment Technology" (C. Rose et al., 2015), urination frequency of a single person is 6 times a day; while defecation frequency is 1.1 times a day. Urination and defecation ratio of each visitor in the public toilet is thus assumed 6 : 1.1 according to the mentioned frequency.
Daily sewage generation from public toilets everyday		16.19	m ³ /day	(E) * (G) + (F) * (H)

Appendix 7-1

Calculation of Occupancy Rate of Sewerage System

Appendix 7-1 Calculation of Occupancy Rate of Sewerage System Under Unmitigated Scenario

Sewer No.			Internal Diameter (m) [a]	Cross-section Area (m ²)	Length (m) [a]	Inlet mPD (m) [a]	Outlet mPD (m) [a]	Hydraulic pipeline roughness (m) [b]	Hydraulic Gradient	Mean Velocity (m/s) [c]	Max Capacity of Sewer (m ³ /s)	Total Average Dry Weather Flow	Catchment Inflow Factor	Revised Total Average Dry Weather Flow	Contributing Population	Peaking Factor	Peak Discharge through Manhole (m ³ /s)	Swimming Pool Backwash (m ³ /s)	Total Peak Discharge through Manhole (Including Swimming Pool Backwash) (m ³ /s)	Occupancy from Proposed Development Contribution	Percentage of capacity	Remark	
ID	From	ID	To	D	A	L			s	V		m ³ /day	[f]	m ³ /day	[d]	[e]							
1	FMH7013366	2	FMH7013365	0.150	0.0177	2.6	21.64	20.52	0.0006	0.43077	6.7	0.118	113	1.0	113	418	8.0	0.010	0.0000	0.010	8.9%	8.9%	Proposed Development
2	FMH7013365	3	FMH7013351	0.450	0.1590	28.0	20.52	19.60	0.0006	0.03286	3.7	0.587	5565 [h]	1.0	5565	20610	4.0	0.258	0.2042	0.462	0.9%	78.7%	Proposed Development + A + B + C + D+ E+ F+ G + H + I
3	FMH7013351	4	FMH7013350	0.450	0.1590	37.0	19.60	17.85 [a]	0.0006	0.05268	4.7	0.744	5565 [h]	1.0	5565	20610	4.0	0.258	0.2042	0.462	0.7%	62.1%	Proposed Development + A + B + C + D+ E+ F+ G + H + I
4	FMH7013350	5	FMH7047900	0.450	0.1590	13.7	17.85 [a]	16.93 [a]	0.0006	0.05268	4.7	0.744	5565 [h]	1.0	5565	20610	4.0	0.258	0.2042	0.462	0.7%	62.1%	Proposed Development + A + B + C + D+ E+ F+ G + H + I
5	FMH7047900	6	FMH7063779	0.450	0.1590	6.6	16.93 [a]	16.58 [a]	0.0006	0.05268	4.7	0.744	5565 [h]	1.0	5565	20610	4.0	0.258	0.2042	0.462	0.7%	62.1%	Proposed Development + A + B + C + D+ E+ F+ G + H + I
6	FMH7063779	7	FMH7063780	0.450	0.1590	8.9	16.58 [a]	16.11 [a]	0.0006	0.05268	4.7	0.744	5565 [h]	1.0	5565	20610	4.0	0.258	0.2042	0.462	0.7%	62.1%	Proposed Development + A + B + C + D+ E+ F+ G + H + I
7	FMH7063780	8	FMH7013348	0.450	0.1590	1.7	16.11 [a]	16.02 [a]	0.0006	0.05268	4.7	0.744	5768 [h]	1.0	5768	21362	4.0	0.267	0.2093	0.476	0.7%	64.0%	Proposed Development + A + B + C + D+ E+ F+ G + H + I + J
8	FMH7013348	9	FMH7013335	0.525	0.2165	22.3	16.02 [a]	14.85 [a]	0.0006	0.05268	5.2	1.116	5768 [h]	1.0	5768	21362	4.0	0.267	0.2093	0.476	0.5%	42.7%	Proposed Development + A + B + C + D+ E+ F+ G + H + I + J

Note:
[a] Information from Drainage Layout Plan
[b] According to information available in Common Spatial Data Infrastructure Portal (<https://portal.csd.gov.hk/geportal/#mapPanel>), the sewerage pipe material is vitrified clay. With reference from Table 5 - Recommended Roughness Values in Sewerage Manual, roughness value, ks=0.6mm for slied of clayware @ 1.2m/s in "Poor" condition is adopted for existing sewer.
[c] The velocity is calculated using the Colebrook-White Formula:

$$f' = -2 \left(2gDS \right)^{0.5} \log \left(\frac{k}{3.7D} + \frac{2.5\nu}{D \left(2gDS \right)^{0.5}} \right)$$

where
k = Colebrook-White roughness coefficient, in meter
D = circular cross-section pipe, inside diameter (m)
S = slope, in meters per meter
ν = kinematic viscosity of water, in meter per second (0.000001306 m/s)
g = gravitational acceleration (m/s²) (9.807m/s²)
[d] The Contributing Population is defined as:
Contributing Population = $\frac{\text{Calculated total average flow (m}^3\text{/day)}}{0.27 \text{ (m}^3\text{/person/day)}}$

[e] Reference from Table T-5 (a) of Guidelines for Estimating Sewage Flows for Sewerage Infrastructure Planning
[f] Reference from Table T-4 of Guidelines for Estimating Sewage Flows for Sewerage Infrastructure Planning, Catchment inflow factor of North Point is adopted.
[g] Assumptions are made based on interpolation between the inlet level of FMH7013351(0.3) and outlet level of FMH7057529
[h] Including sewage generation from public toilets. Detail calculation of sewage generated from public toilets are presented in Appendix 6-3.