
Attachment 4 –

Revised Sewerage Impact Assessment

Issue No. : Issue 4
Issue Date : July 2026
Project No. : 1947



SEWERAGE IMPACT ASSESSMENT

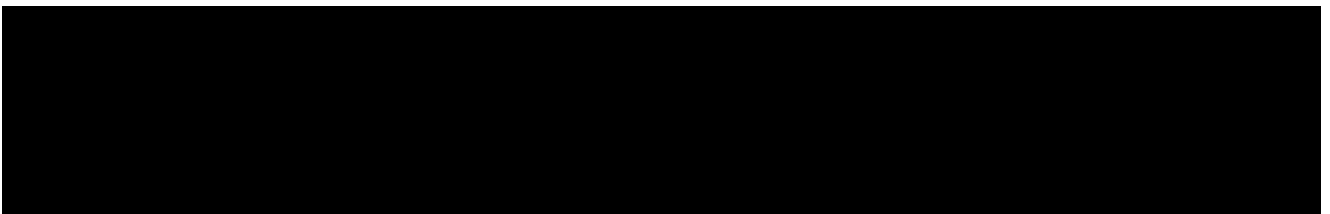
FOR

**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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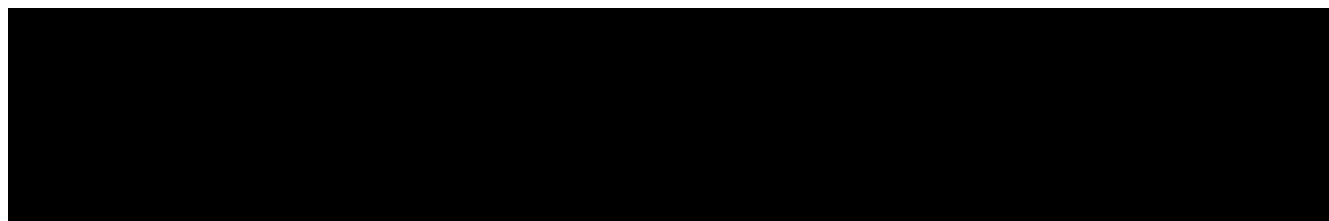


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1. Introduction

- 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 (m³/day) ÷ 0.27 (m³/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 + A + B + C + D + E + F + G + H + I	2	FMH7013365	3	FMH7013351	18785	4.0	5072	0.502
Proposed Development + A + B + C + D + E + F + G + H + I	3	FMH7013351	4	FMH7013350	18785	4.0	5072	0.502
Proposed Development + A + B + C + D + E + F + G + H + I	4	FMH7013350	5	FMH7047900	18785	4.0	5072	0.502
Proposed Development + A + B + C + D + E + F + G + H + I	5	FMH7047900	6	FMH7063779	18785	4.0	5072	0.502
Proposed Development + A + B + C + D + E + F + G + H + I	6	FMH7063779	7	FMH7063780	18785	4.0	5072	0.502
Proposed Development + A + B + C + D + E + F + G + H + I + <u>J</u>	7	FMH7063780	8	FMH7013348	19537	4.0	5275	0.519
Proposed Development + A + B + C + D + E + F + G + H + I + <u>J</u>	8	FMH7013348	9	FMH7013335	19537	4.0	5275	0.519

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) + 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 (m ³ /s)	Occupancy Rate (%) ^[1]
Proposed Development	1	FMH7013366	2	FMH7013365	0.010	0.118	8.9
Proposed Development + A + B + C + D+ E+ F+ G + H + I	2	FMH7013365	3	FMH7013351	0.502	0.577	85.5
Proposed Development + A + B + C + D+ E+ F+ G + H + I	3	FMH7013351	4	FMH7013350	0.502	0.744	67.5
Proposed Development + A + B + C + D+ E+ F+ G + H + I	4	FMH7013350	5	FMH7047900	0.502	0.744	67.5
Proposed Development + A + B + C + D+ E+ F+ G + H + I	5	FMH7047900	6	FMH7063779	0.502	0.744	67.5
Proposed Development + A + B + C + D+ E+ F+ G + H + I	6	FMH7063779	7	FMH7063780	0.502	0.744	67.5
Proposed Development + A + B + C + D+ E+ F+ G + H + I + J	7	FMH7063780	8	FMH7013348	0.519	0.744	69.7
Proposed Development + A + B + C + D+ E+ F+ G + H + I + J	8	FMH7013348	9	FMH7013335	0.519	1.116	46.5

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 85.5%. 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

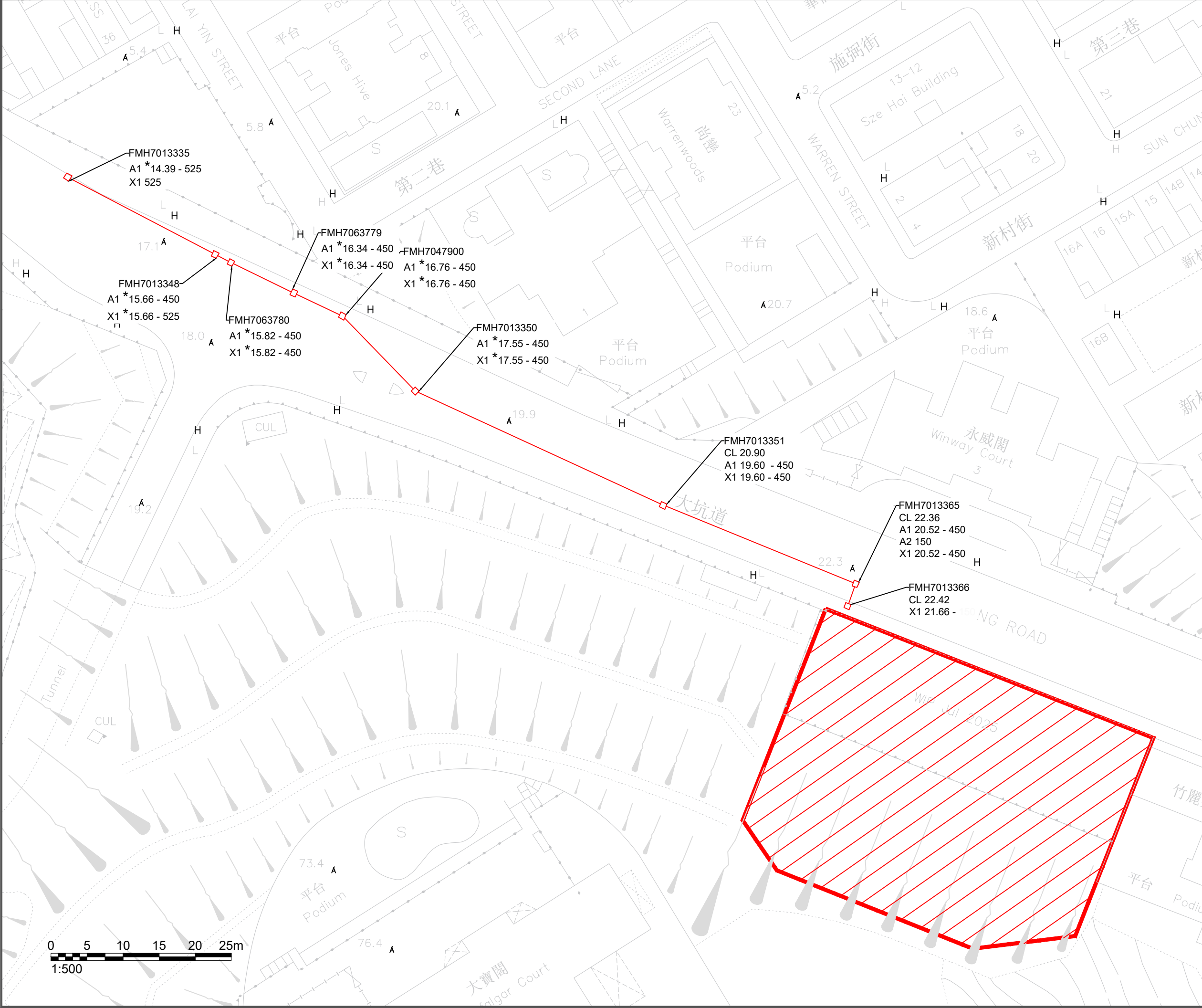
8.1.1. The project proponent will be responsible for construction of the proposed sewers and manholes, for future connection to public sewage system, while future maintenance of the sewers outside the Application Site boundary will be carried out by the DSD.

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

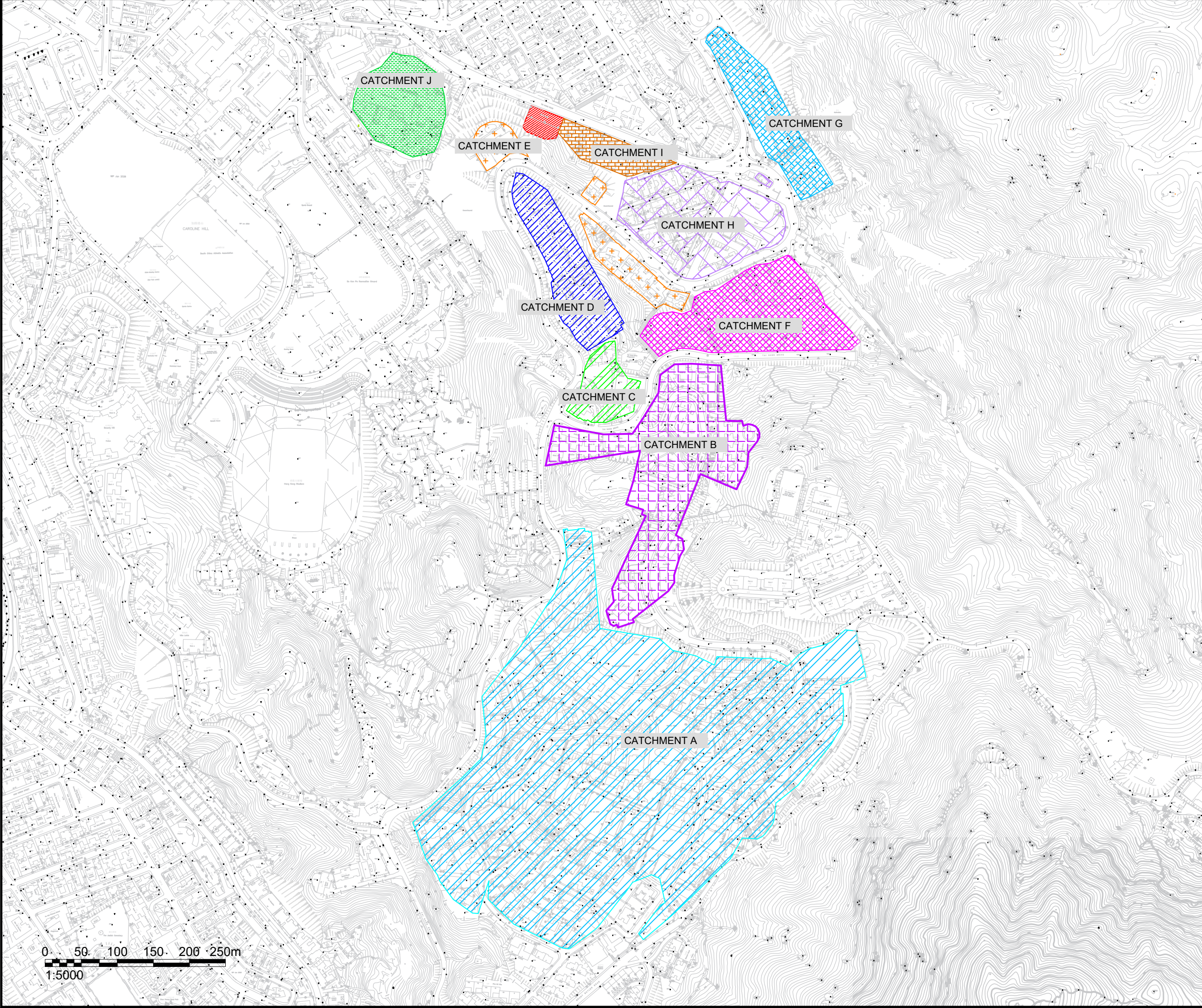
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AEC

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 Location & Existing Sewerage System	
Drawing No : Figure 3-1	Revision : 1
Scale : As Shown	Date : July 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

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Drawing Title : Application Site & Catchment Areas	
Drawing No : Figure 6-1	Revision : 1
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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

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
	Number of Floors	11
	Total Floor Area (m2)	5731
	Worker Density (per 100m2)	3.3 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)
	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-hhckla.org/intro/)
Total Pop.		432
Description		Reference
A2	Jardini	
	Residential	
	No. of Households	114 jardini Tai Hang Mid-Levels Estate Info Centraline Property
	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
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
	Number of Floors	1
	Total Floor Area (m2)	92
	Worker Density (per 100m2)	3.5 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)
	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-E000005982
	Average Household Size (2021) in Wan Chai	2.6 https://www.census2021.gov.hk/en/district_profiles.html
	Total Pop.	29
	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)	29
	Swimming Pool	
	Swimming Pool Area, m2	128
	Height of Swimming Pool, m	1.5
	Estimated volume of the Swimming pool, m ³	192
	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	0.64
	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	2.2
	Maximum backwash volume, L/s	7.47
	Maximum backwash volume, m3/s	0.007
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-E000011818
	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 m3/m2/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	3.21
	Maximum backwash volume, m3/s	0.003
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
	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)	1144
	Swimming Pool (Large)	
	Swimming Pool Area, m2	251
	Height of Swimming Pool, m	1.5
	Estimated volume of the Swimming pool, m ³	377
	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	1.28
	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	4.4
	Maximum backwash volume, L/s	14.64
	Maximum backwash volume, m3/s	0.015

Appendix 6-2 Population Estimation for Catchment Areas

Swimming Pool (Small)			
Swimming Pool Area, m2	36		
Height of Swimming Pool, m	1.5		
Estimated volume of the Swimming pool, m ³	54		
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	2.10		
Maximum backwash volume, m3/s	0.002		

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-E07061	
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-E000018636	
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, 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	6.07		
Maximum backwash volume, m3/s	0.006		

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-E000008460	
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		

Appendix 6-2 Population Estimation for Catchment Areas

Description			Reference
A16 No.15 Moorsom Road			
No. of Households	1		https://hk.censtat.net/estate/en/15%20Moorsom%20Road/2-TZ1TZ-HMYH
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.censtat.net/estate/en/17%20MOORSOM%20ROAD/1-TZMTZ-HMXHL
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.censtat.net/estate/en/19%20MOORSOM%20ROAD/1-TZMTZ-HMYHL
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
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-ED4416
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 (210m ² per flat)	15	GFA of flat is 159-236m ² . The area of unit is >110m ² . 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-E000008359
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 84 Height of Swimming Pool, m 1.5 Estimated volume of the Swimming pool, m ³ 126 Turnover Rate, hour 6 Surface Loading Rate of Filter, m ³ /m ² /hr 50 Required Filter Area, m ² 0.42 Backwash Duration (mins) 7.00 Backwash Flow Rate, m ³ /m ² /hr 30 Maximum backwash volume, m ³ 1.5 Maximum backwash volume, L/s 4.90 Maximum backwash volume, m ³ /s 0.005			
General Specification for Swimming Pool Water Treatment Installation in Government Buildings of The Hong Kong Special Administrative Region Swimming Pools: Design and Construction, Fourth Edition By Philip H. Perkins (50 m ³ /m ² /hr adopted) 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". Technical Paper - Domestic Swimming Pool Filtration by European Union of Swimmingpool and Spa Associations			
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-E000008505
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=1C1CHZO_en-GBHKG13HKG13&asf=ALeK01yOU3vLKSITaIyOmgjd3lx9e%3A1628751833293&e=2ocU
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 31 Height of Swimming Pool, m 1.5 Estimated volume of the Swimming pool, m ³ 47 Turnover Rate, hour 6 Surface Loading Rate of Filter, m ³ /m ² /hr 50 Required Filter Area, m ² 0.16 Backwash Duration (mins) 7.00 Backwash Flow Rate, m ³ /m ² /hr 30 Maximum backwash volume, m ³ 0.5 Maximum backwash volume, L/s 1.81 Maximum backwash volume, m ³ /s 0.002			
General Specification for Swimming Pool Water Treatment Installation in Government Buildings of The Hong Kong Special Administrative Region Swimming Pools: Design and Construction, Fourth Edition By Philip H. Perkins (50 m ³ /m ² /hr adopted) 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". Technical Paper - Domestic Swimming Pool Filtration by European Union of Swimmingpool and Spa Associations			
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-E0000011806
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		

Appendix 6-2 Population Estimation for Catchment Areas

Description		Reference	
A25 No.6 Moorsom Drive	No. of Households	1	https://www.midland.com.hk/en/estate/Hong-Kong-Jardine-S-1-lookout-Tai-Hang-6-Moorsom-Drive-E000012542
	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-1-lookout-Tai-Hang-7-Moorsom-Drive-E000011897
	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	
A27 No.8 Moorsom Drive	No. of Households	1	https://www.midland.com.hk/en/estate/Hong-Kong-Jardine-S-1-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-2-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-1-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-1-lookout-Tai-Hang-Wing-On-Towers-E0926
	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-1-lookout-Tai-Hang-2-Boyce-Road-E000007261
	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-1-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-1-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-1-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.enxwithhomes.hk.com/properties/jardines-lookout/linden-height/100617
	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.centar.net.com/estate/en/12%20BOYCE%20ROAD/1-SKRAPPPXFW
	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	

Appendix 6-2 Population Estimation for Catchment Areas

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.ckay.com/en/building/8-moorsom-road/9492	
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
A40 No.10 Moorsom Road			
No. of Households	1	https://hk.centanet.com/estate/en/10-Moorsom-Road/2-72172-HH/VH4	
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	2.16		
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-Lookout-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-Lookout-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-Lookout-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-Lookout-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	4.95		
Maximum backwash volume, m ³ /s	0.005		
Description			Reference
A45 No.55 Perkins Road			
No. of Households	1	https://www.midland.com.hk/en/estate/Hong-Kong-Island-Jardine-s-Lookout-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-Lookout-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		

Appendix 6-2 Population Estimation for Catchment Areas

Description			Reference
A47 No.59 Perkins Road			
No. of Households	1	https://www.midland.com.hk/en/estate/Hong-Kong-Island-Jardine-S-4-lookout-Tai-Hang-59-Perkins-Road-E00006959	
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-Jardine-S-4-lookout-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		
Description			Reference
A49 No.69 Perkins Road			
No. of Households	6	https://www.okay.com/en/building/69-perkins-road/rent/3452	
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/3452	
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-4-lookout-Tai-Hang-73-Perkins-Road-E000016271	
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 (210m ² per flat)	1	GFA of flat is 513m ² . The area of unit is >110m ² . 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-4-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-4-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, m ²	38		
Height of Swimming Pool, m	1.5		
Estimated volume of the Swimming pool, m ³	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, 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	0.7		
Maximum backwash volume, L/s	2.22		
Maximum backwash volume, m ³ /s	0.002		
Description			Reference
A54 No.79 Perkins Road			
No. of Households	1	https://hk.ceritanet.com/estate/en/79%20PERKINS%20ROAD%201-SKYABPGHPW	
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.ceritanet.com/estate/en/81%20PERKINS%20ROAD%201-SKYYBPGAPW	
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.ceritanet.com/estate/en/83-Perkins-Road%201-SKYAGPGAPW	
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-4-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		

Appendix 6-2 Population Estimation for Catchment Areas

Description			Reference
A58 No.4 Perkins Road			
No. of Households	1	https://www.midland.com.hk/en/estate/Hong-Kong-Island-Jardine-S-4-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		
Description			Reference
A59 No.6 Perkins Road			
No. of Households	1	https://www.midland.com.hk/en/estate/Hong-Kong-Island-Jardine-s-4-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	7.53		
Maximum backwash volume, m3/s	0.008		
Description			Reference
A60 No.8 Perkins Road			
No. of Households	1	https://www.midland.com.hk/en/estate/Hong-Kong-Island-Jardine-s-4-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		
Description			Reference
A61 No.10 Perkins Road			
No. of Households	1	https://hk.centanet.com/estate/en/NO%2010%20PERKINS%20ROAD%20SKPPWPXPKV	
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	6.30		
Maximum backwash volume, m3/s	0.006		
Description			Reference
A62 No.12 Perkins Road			
No. of Households	1	https://www.midland.com.hk/en/estate/Hong-Kong-Jardine-S-4-lookout-Tai-Hang-12-Perkins-Road-E000013140	
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	10.50		
Maximum backwash volume, m3/s	0.011		
Description			Reference
A63 No.14 Perkins Road			
No. of Households	1	https://www.midland.com.hk/en/estate/Hong-Kong-Jardine-S-4-lookout-Tai-Hang-14-Perkins-Road-E000011823	
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
A64 Redwoods			
No. of Households	1	https://hk.centanet.com/estate/en/Redwoods/1-SKEGPPDHPW	
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	15.75		
Maximum backwash volume, m3/s	0.016		

Appendix 6-2 Population Estimation for Catchment Areas

Description			Reference
A65 No.18 Perkins Road			
No. of Households	1	https://www.midland.com.hk/en/estate/Hong-Kong-Island-96C9B8FA31E77984588E556815681-18-Perkins-Road-E000013441	
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
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-E000007125	
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.centanet.com/estate/en/NO-2022%20PERKINS%20ROAD/1-56PPWPFJW	
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-E000014430	
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.centanet.com/estate/en/8%20HENDERSON%20ROAD/1-9KXDPFJW	
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		

Appendix 6-2 Population Estimation for Catchment Areas

Description		Reference	
A77 No.10 Henderson Road			
No. of Households	1	https://www.midland.com.hk/en/estate/Hong-Kong-Jardine-5-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, m2	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	3.33		
Maximum backwash volume, m ³ /s	0.003		
Description		Reference	
A78 No.11 Henderson Road			
No. of Households	1	https://www.midland.com.hk/en/estate/Hong-Kong-Island-Jardine-5-lookout-Tai-Hang-11-Henderson-Road-E000007121	
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-5-lookout-Tai-Hang-12-Henderson-Road-E000002041	
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-5-lookout-Tai-Hang-12A-Henderson-Road-E000007165	
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.centanet.com/estate/en/18%20HENDERSON%20ROAD/1-OSCOBURRIC	
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.centanet.com/estate/en/1-Cooper-Road/1-OSOURRARC	
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-E000008131	
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-5-lookout-Tai-Hang-2-Purves-Road-E000011825	
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-5-lookout-Tai-Hang-3-Purves-Road-E000011826	
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-5-lookout-Tai-Hang-4-Purves-Road-E000011827	
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-5-lookout-Tai-Hang-5-Purves-Road-E000011828	
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-5-lookout-Tai-Hang-6-Purves-Road-E000011829	
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
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-E000011830
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	22	
Height of Swimming Pool, m	1.5	
Estimated volume of the Swimming pool, m³	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, m³/m²/hr	50	Swimming Pools: Design and Construction, Fourth Edition By Philip H. Perkins (50 m³/m²/hr adopted)
Required Filter Area, m²	0.11	
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, 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	1.28	
Maximum backwash volume, m³/s	0.001	
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, m³	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, m³/m²/hr	50	Swimming Pools: Design and Construction, Fourth Edition By Philip H. Perkins (50 m³/m²/hr adopted)
Required Filter Area, m²	0.18	
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, m³/m²/hr	30	Technical Paper - Domestic Swimming Pool Filtration by European Union of Swimmingpool and Spa Associations
Maximum backwash volume, m³	0.6	
Maximum backwash volume, L/s	2.04	
Maximum backwash volume, m³/s	0.002	
Description		Reference
A92 No.4 Cooper Road		
No. of Households	2	https://hk.cerantet.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, m³	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, m³/m²/hr	50	Swimming Pools: Design and Construction, Fourth Edition By Philip H. Perkins (50 m³/m²/hr adopted)
Required Filter Area, m²	0.36	
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, m³/m²/hr	30	Technical Paper - Domestic Swimming Pool Filtration by European Union of Swimmingpool and Spa Associations
Maximum backwash volume, m³	1.2	
Maximum backwash volume, L/s	4.16	
Maximum backwash volume, m³/s	0.004	
Description		Reference
A94 No.8 Cooper Road		
No. of Households	1	https://www.midland.com.hk/en/estate/Hong-Kong-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, m³	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, m³/m²/hr	50	Swimming Pools: Design and Construction, Fourth Edition By Philip H. Perkins (50 m³/m²/hr adopted)
Required Filter Area, m²	0.35	
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, m³/m²/hr	30	Technical Paper - Domestic Swimming Pool Filtration by European Union of Swimmingpool and Spa Associations
Maximum backwash volume, m³	1.2	
Maximum backwash volume, L/s	4.03	
Maximum backwash volume, m³/s	0.004	

Appendix 6-2 Population Estimation for Catchment Areas

Description		Reference	
A85 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, 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	1.8		
Maximum backwash volume, L/s	6.07		
Maximum backwash volume, m3/s	0.006		
Description		Reference	
A86 No.12 Cooper Road			
No. of Households	1	https://www.midland.com.hk/en/estate/Hong-Kong-Island-Jardine's-Lookout-Tai-Hang-12-Cooper-Road-E000010743	
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.1 Goldsmith Road			
No. of Households	1	https://www.midland.com.hk/en/estate/Hong-Kong-Island-Jardine's-Lookout-Tai-Hang-1-Goldsmith-Road-E000011804	
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, m3	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, m3/m2/hr	50	Swimming Pools: Design and Construction, Fourth Edition By Philip H. Perkins (50 m3/m2/hr adopted)	
Required Filter Area, m2	0.39		
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, m3/m2/hr	30	Technical Paper - Domestic Swimming Pool Filtration by European Union of Swimmingpool and Spa Associations	
Maximum backwash volume, m3	1.3		
Maximum backwash volume, L/s	4.49		
Maximum backwash volume, m3/s	0.004		
Description		Reference	
A88 No.2-3 Goldsmith Road			
No. of Households	1	https://www.midland.com.hk/en/estate/Hong-Kong-Island-Jardine's-Lookout-Tai-Hang-2-Goldsmith-Road-E000011181	
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, m3	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, m3/m2/hr	50	Swimming Pools: Design and Construction, Fourth Edition By Philip H. Perkins (50 m3/m2/hr adopted)	
Required Filter Area, m2	0.79		
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, m3/m2/hr	30	Technical Paper - Domestic Swimming Pool Filtration by European Union of Swimmingpool and Spa Associations	
Maximum backwash volume, m3	2.8		
Maximum backwash volume, L/s	9.22		
Maximum backwash volume, m3/s	0.009		
Description		Reference	
A89 No.4 Goldsmith Road			
No. of Households	1	https://www.midland.com.hk/en/estate/Hong-Kong-Island-Jardine's-Lookout-Tai-Hang-4-Goldsmith-Road-E000011182	
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.centanet.com/estate/en/Goldsmith-Road/2-1796.ZH7HsU	
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, m3	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, m3/m2/hr	50	Swimming Pools: Design and Construction, Fourth Edition By Philip H. Perkins (50 m3/m2/hr adopted)	
Required Filter Area, m2	0.28		
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, m3/m2/hr	30	Technical Paper - Domestic Swimming Pool Filtration by European Union of Swimmingpool and Spa Associations	
Maximum backwash volume, m3	1.0		
Maximum backwash volume, L/s	3.22		
Maximum backwash volume, m3/s	0.003		

Description		Reference
A101 No.6 Goldsmith Road		
No. of Households	1	https://hk.censtatet.com/estate/en/Goldsmith-Road/7-17N6-ZH7N6
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 Jardine's Estate Info Centaline 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 m3/m2/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	3.85	
Maximum backwash volume, m3/s	0.004	
Description		Reference
A103 No.17 Cooper Road		
No. of Households	1	https://hk.censtatet.com/estate/en/17%20COOPER%20ROAD/1-OSRDQRRXRC
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 m3/m2/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	3.64	
Maximum backwash volume, m3/s	0.004	
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_hadbiex/content/searchbuilding/building_search.jsf#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 m3/m2/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	4.97	
Maximum backwash volume, m3/s	0.005	
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_hadbiex/content/searchbuilding/building_search.jsf#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_hadbiex/content/searchbuilding/building_search.jsf#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

Appendix 6-2 Population Estimation for Catchment Areas

Description		Reference
A108 No.1 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_hadbiex/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
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_hadbiex/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.centanet.com/estate/en/11-Creasy-Road/1-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	
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_hadbiex/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	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	4.71	
Maximum backwash volume, m3/s	0.005	
Description		Reference
A112 No.15 Creasy Road		
No. of Households	2	https://www.midland.com.hk/en/estate/Hono-Kono-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	0.67	
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	10.15	
Maximum backwash volume, m3/s	0.010	
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	

Appendix 6-2 Population Estimation for Catchment Areas

Description		Reference	
B2 Park Garden			
No. of Households	88	https://www.midland.com.hk/en/estate/Hong-Kong-Island-Jardine's-Logout-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-Logout-Tai-Hang-Bellevue-Heights-E01911	
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 Yick King Building			
No. of Households	44	https://www.midland.com.hk/en/estate/Hong-Kong-Island-Jardine's-Logout-Tai-Hang-Yick-King-Building-E10067	
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		
Description		Reference	
B5 Tai Hang Terrace			
No. of Households	240	https://www.midland.com.hk/en/estate/Hong-Kong-Island-Jardine's-Logout-Tai-Hang-Tai-Hang-Terrace-E08284	
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, m ³	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, 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	0.77		
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, 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	2.7		
Maximum backwash volume, L/s	8.98		
Maximum backwash volume, m3/s	0.009		
Description		Reference	
B7 Elm Tree Towers			
No. of Households	114	https://www.midland.com.hk/en/estate/Hong-Kong-Island-Jardine's-Logout-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, m ³	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, 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	0.60		
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, 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	6.94		
Maximum backwash volume, m3/s	0.007		
Swimming Pool (Small)			
Swimming Pool Area, m2	20		
Height of Swimming Pool, m	1.5		
Estimated volume of the Swimming pool, m ³	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, 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	0.10		
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, 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	1.17		
Maximum backwash volume, m3/s	0.001		
Description		Reference	
B8 Chun Fai Centre			
Kindergarten (2/F of Chun Fai Centre)			
Number of Students	448	https://www.schooland.hk/hg/bhns	
Number of Staffs	37		
Total Pop.	485		
Supermarket (1/F of Chun Fai 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)	

Appendix 6-2 Population Estimation for Catchment Areas

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		
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 Area (m2)	1006		
Allowable Plot Ratio	2	With reference to the Approved Causeway Bay Outline Zoning Plan (SH6/17), for Residential (Group C), maximum plot ratio of 2.0 and maximum building height of 6 storeys including carports.	
Gross Floor Area (GFA) (m2)	2012		
Number of Households	10	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.	26		
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)	26		
Description			Reference
C3 Gold King Mansion			
No. of Households	80	https://www.midland.com.hk/en/estate/Hong-Kong-Island-Jardine-s-Lookout-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-Lookout-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-OSRVQRDARY	
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-Lookout-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-Island-Jardine-S-Lookout-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-Lookout-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-Lookout-Tai-Hang-4A-4D-Wang-Fung-Terrace-E000005854	
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-OSJQORFRRV	
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		

Appendix 6-2 Population Estimation for Catchment Areas

Description		Reference	
D6	No.5 Wang Fung Terrace		
	No. of Households	16	https://www.okay.com/en/building/5-wang-fung-terrace/2535
	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.centanet.com/estate/en/Scenic-Lodge/1-SKPPW/SPEPK
	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	
D8	Jolly Garden		
	No. of Households	12	https://www.midland.com.hk/en/estate/Hong-Kong-Jardine's-Lookout-Tai-Hang-Jolly-Garden-E04448
	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/bou/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.centanet.com/estate/en/VERDE%20GREEN/1-SKPPW/APEPB
	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-Island-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-E11106
	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	
Description		Reference	
D15	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	5.89	
	Maximum backwash volume, m ³ /s	0.006	
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	

Appendix 6-2 Population Estimation for Catchment Areas

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	4.15	
	Maximum backwash volume, m ³ /s	0.004	
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-Heights-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, m ²	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	6.14	
	Maximum backwash volume, m ³ /s	0.006	
Description		Reference	
E6	No.52 Tai Hang Road		
	No. of Households	3	https://www.okay.com/en/building/52-tai-hang-road/6966
	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%20Court2-OSCDURJARV
	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/5332
	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	
E10	The Elegance		
	No. of Households	17	https://www.midland.com.hk/en/estate/Hong-Kong-Island-Jardine-s-Layout-Tai-Hang-The-Elegance-ED2619
	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-Layout-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, m ²	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	6.59	
	Maximum backwash volume, m ³ /s	0.007	
Description		Reference	
F1	Haw Par Mansion		
	Total Area (m ²)	539	https://www.heritage.gov.hk/en/hpm/background.htm
	Number of Floors	4	
	Total Floor Area (m ²)	2156	
	Worker Density (per 100m ²)	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.pland.gov.hk/ipland_enip_study/comp_s/cifsus/cfsusReport.pdf).
	Total Pop.	72	
Description		Reference	
F2	The Legend		
	No. of Households	382	https://hmis1.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, m ²	495	
	Height of Swimming Pool, m	1.5	
	Estimated volume of the Swimming pool, m ³	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, 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	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, 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	8.7	
	Maximum backwash volume, L/s	28.88	
	Maximum backwash volume, m ³ /s	0.029	
Description		Reference	
F3	Gardenview Heights		
	No. of Households	68	https://www.midland.com.hk/en/estate/Hong-Kong-Island-Jardine-s-Layout-Tai-Hang-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, m ²	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	6.13	
	Maximum backwash volume, m ³ /s	0.006	
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	

Appendix 6-2 Population Estimation for Catchment Areas

Description		Reference	
F5	The Signature		
	No. of Households	66	https://www.midland.com.hk/en/estate/Hong-Kong-Island-Jardine-s-Lookout-Tai-Hang-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, m ²	163	
	Height of Swimming Pool, m	1.5	
	Estimated volume of the Swimming pool, m ³	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, 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	0.82	
	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, 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	2.9	
	Maximum backwash volume, L/s	9.51	
	Maximum backwash volume, m ³ /s	0.010	
Swimming Pool (Small)			
	Swimming Pool Area, m ²	26	
	Height of Swimming Pool, m	1.5	
	Estimated volume of the Swimming pool, m ³	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, 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	0.13	
	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, 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	1.52	
	Maximum backwash volume, m ³ /s	0.002	
Description		Reference	
F6	Ronsdale Garden		
	No. of Households	396	https://hk.certranet.com/estate/en/Ronsdale-Garden/2-T2MMHNR0W
	Average Household Size (2021) in Wan Chai	2.6	https://www.census2021.gov.hk/en/district_profiles.html
	Total Pop.	1030	
	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)		1030	
Swimming Pool			
	Swimming Pool Area, m ²	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	13.48	
	Maximum backwash volume, m ³ /s	0.013	
Description		Reference	
F7	The Church of Christ in China Kung Lee College		
	Number of Students	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%8F%E9%99%A2
	Number of Staffs	28	https://www.schooland.hk/aa/cockle
	Total Pop.	528	
Description		Reference	
G1	Tsuen Wing Lau, Lai Tak Tsuen Residential Blocks		
	Total Pop.	6211	According to 2021 population census, Population in Lai Tak Tsuen of the Wan Chai District are 6211 persons
	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)	6211	
Retail Units (G/F of Tsuen Wing Lau)			
	Total Area (m ²)	1239	
	Number of Floors	1	
	Total Floor Area (m ²)	1239	
	Worker Density (per 100m ²)	3.5	With reference to CIFSUS, the worker density for Retail Trade is adopted (https://www.pland.gov.hk/pland_enip_study/comp_s/cifus/cifusReport.pdf)
	Total Pop.	44	
Restaurants (G/F of Tsuen Wing Lau)			
	Total Area (m ²)	1070	
	Number of Floors	1	
	Total Floor Area (m ²)	1070	
	Worker Density (per 100m ²)	5.1	With reference to CIFSUS, the worker density for Restaurant is adopted (https://www.pland.gov.hk/pland_enip_study/comp_s/cifus/cifusReport.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/ka/mass
	Total Pop.	138	
Description		Reference	
G2	Serenade		
	No. of Households	270	https://www.midland.com.hk/en/estate/Hong-Kong-Island-Jardine-s-Lookout-Tai-Hang-Serenade-E000007895
	Average Household Size (2021) in Wan Chai	2.6	https://www.census2021.gov.hk/en/district_profiles.html
	Total Pop.	702	
	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)		702	
Swimming Pool			
	Swimming Pool Area, m ²	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	5.62	
	Maximum backwash volume, m ³ /s	0.006	

Appendix 6-2 Population Estimation for Catchment Areas

Catchment H

Description		Reference	
H1	15-16 Li Kwan Avenue		
	No. of Households	8	https://www.okay.com/en/building/15-16-li-kwan-avenue/5928
	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	
H2	Yik Kwan Villa		
	No. of Households	10	https://www.midland.com.hk/en/estate/hong-kong-island-jardine-s-lookout-tai-hang-yik-kwan-villa-F10105
	Average Household Size (2021) in Wan Chai	2.6	https://www.census2021.gov.hk/en/district_profiles.html
	Total Pop.	26	
	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)	26	
Description		Reference	
H3	No.7 Yik Kwan Avenue		
	No. of Households	6	https://hk.centanet.com/estate/en/5%20Yik%20Kwan%20Avenue%20QSSJFRC5RV
	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	
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.centanet.com/estate/en/5%20Yik%20Kwan%20Avenue%20QSSJFRC5RV
	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.centanet.com/estate/en/3-4%20Yik%20Kwan%20Avenue%20QSSJFRC5RV
	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.centanet.com/estate/en/Kan-Oke-House/1-SK5KPPDRPB
	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.centanet.com/estate/en/Regent-Court/1-OSCUFURRRV
	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	

Appendix 6-2 Population Estimation for Catchment Areas

Description				Reference
H13	No.3-4 Li Kwan Avenue			
	No. of Households	6	https://www.ckay.com/en/building/3-4-li-kwan-avenue/buy/8829	
	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.2-1 Li Kwan Avenue			
	No. of Households	2	https://hk.centanet.com/estate/en/2-1-li-kwan-avenue/2-TZTMH-MRHH	
	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-Logout-Tai-Hang-Dragon-Court-E02518	
	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
H16	C.C. Lodge			
	No. of Households	16	https://www.midland.com.hk/en/estate/Hong-Kong-Island-Jardine-s-Logout-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-E06669	
	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.ckay.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-Logout-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-Logout-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-Logout-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		3.71		
Maximum backwash volume, m ³ /s		0.004		

Catchment I

Description				Reference
I1	Jolly Villa			
	No. of Households	48	https://hk.centanet.com/estate/en/Jolly-Villa/1-TZTDH-XQHN	
	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.L.			
No. of Households	70		https://www.midland.com.hk/en/estate/Hong-Kong-Island-Jardine-s-Lookout-Tai-Hang-Y-J-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.censtatet.com/estate/en/CHERRY%20COURT/1-17ZH0HX3SH
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.censtatet.com/estate/en/16-18%20TAI%20HANG%20ROAD/1-CSSRFRDXRV
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	2.30		
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_en/p_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_en/p_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	7.13		
Maximum backwash volume, m ³ /s	0.007		

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
	A2	Jardini	Care Home Residents	242	Institutional & Special Class	0.19	46.0
	A3	Perkins Road Dairy Farm Shopping Centre	Residential	297	T1, Domestic (private permanent housing R2)	0.27	80.2
	A4	Tai Hang Road Petrol Filling Station	Retail	31	Wholesale & Retail	0.28	8.7
	A5	Villa De Perkins (7, 9, 11, 13, 15, 17, 19, 21 and 23 Perkins Road)	Retail	4	Wholesale & Retail	0.28	1.1
	A6	No.25 Perkins Road	Residential	29	T1, Domestic (private permanent housing R3)	0.37	10.7
	A7	Cavendish Heights	Residential	3	T1, Domestic (private permanent housing R3)	0.37	1.1
	A8	New Development at No.41, 43 and 45 Perkins Road	Residential	1144	T1, Domestic (private permanent housing R2)	0.27	308.9
	A9	Pinewood Garden	Residential	24	T1, Domestic (private permanent housing R3)	0.37	8.9
	A10	Dukes Place	Residential	50	T1, Domestic (private permanent housing R3)	0.37	18.5
	A11	No.3 Moorsom Road	Residential	42	T1, Domestic (private permanent housing R2)	0.27	11.3
	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 Heights	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	19	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 Cooper Road	Residential	3	T1, Domestic (private permanent housing R3)	0.37	1.1
	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

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	237	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
C	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
	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	26	T1, Domestic (private permanent housing R3)	0.37	9.6
	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
D	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
	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
E	D13	Hecky 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
	D15	No.12 Wang Fung Terrace	Residential	21	T1, Domestic (private permanent housing R3)	0.37	7.8
	E1	Avon	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
F	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
	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	Residential	994	T1, Domestic (private permanent housing R2)	0.27	268.4
	F3	Gardenview Heights	Residential	177	T1, Domestic (private permanent housing R2)	0.27	47.8
	F4	Dragon Garden	Residential	208	T1, Domestic (private permanent housing R2)	0.27	56.2
	F5	The Signature	Residential	172	T1, Domestic (private permanent housing R2)	0.27	46.4
	F6	Ronsdale Garden	Residential	1030	T1, Domestic (private permanent housing R2)	0.27	278.1
G	G1	Tsuen Wing Lau, Lai Tak Tsuen	Students	500	Students	0.04	20.0
			Staff	28	Community, Social & Personal Services	0.28	7.8
			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	86.9
	G2	Serenade	Students	132	Students	0.04	5.3
			Staff (School)	6	Community, Social & Personal Services	0.28	1.7
			Residential	702	T1, Domestic (private permanent housing R2)	0.27	189.5
			Residential	21	T1, Domestic (private permanent housing R3)	0.37	7.8
			Residential	26	T1, Domestic (private permanent housing R3)	0.37	9.6
H	H1	15-16 Li Kwan Avenue	Residential	21	T1, Domestic (private permanent housing R3)	0.37	7.8
	H2	Yik Kwan Villa	Residential	26	T1, Domestic (private permanent housing R3)	0.37	9.6
	H3	No.7 Yik Kwan Avenue	Residential	16	T1, Domestic (private permanent housing R3)	0.37	5.9
	H3	Jade Court	Residential	19	T1, Domestic (private permanent housing R3)	0.37	7.0
	H4	No.5 Yik Kwan Avenue	Residential	16	T1, Domestic (private permanent housing R3)	0.37	5.9
	H5	No.3-4 Yik Kwan Avenue	Residential	42	T1, Domestic (private permanent housing R3)	0.37	15.5
	H6	No.1 Yik Kwan Avenue	Residential	21	T1, Domestic (private permanent housing R3)	0.37	7.8
	H7	Kan Oke House	Residential	60	T1, Domestic (private permanent housing R3)	0.37	22.2
	H8	Fuk Kwan House	Residential	37	T1, Domestic (private permanent housing R3)	0.37	13.7
	H9	No.9-10 Li Kwan Avenue	Residential	47	T1, Domestic (private permanent housing R3)	0.37	17.4
I	H10	Regent Court	Residential	47	T1, Domestic (private permanent housing R3)	0.37	17.4
	H11	Lee Hang Court	Residential	42	T1, Domestic (private permanent housing R3)	0.37	15.5
	H12	No.3-4 Li Kwan Avenue	Residential	16	T1, Domestic (private permanent housing R3)	0.37	5.9
	H13	No.2 Li Kwan Avenue	Residential	6	T1, Domestic (private permanent housing R3)	0.37	2.2
	H14	Dragon Court	Residential	21	T1, Domestic (private permanent housing R3)	0.37	7.8
	H15	C.C. Lodge	Residential	42	T1, Domestic (private permanent housing R3)	0.37	15.5
	H16	Qi Kwan Court	Residential	42	T1, Domestic (private permanent housing R3)	0.37	15.5
	H17	Rosedale	Residential	32	T1, Domestic (private permanent housing R3)	0.37	11.8
	H18	Harvest Moon Villa	Residential	21	T1, Domestic (private permanent housing R3)	0.37	7.8
	H19	Louvre Court	Residential	42	T1, Domestic (private permanent housing R3)	0.37	15.5
J	H20	Jardine Summit	Residential	125	T1, Domestic (private permanent housing R3)	0.37	46.3
	I1	Jolly Villa	Residential	125	T1, Domestic (private permanent housing R2)	0.27	33.8
	I2	Y.I.	Residential	132	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
	I7	The Hong Kong Mantra School for Lay Buddhist	Staff	28	Community, Social & Personal Services	0.28	7.8
	I8	The Hong Kong Mantra School for Lay Women Buddhist	Staff	50	Community, Social & Personal Services	0.28	14.0
	J	Fontana Garden	Residential	752	T1, Domestic (private permanent housing R2)	0.27	203.0

Total 20188

Total Domestic Discharge 5215

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 (m3)	Total Maximum Backwash Volume (m3/s)
A	A5	Villa De Perkins (7, 9, 11, 13, 15, 17, 19, 21 and 23 Perkins Road)	192	0.0075
	A6	No.25 Perkins Road	83	0.0032
	A7	Cavendish Heights	431	0.0167
	A10	Dukes Place	156	0.0061
	A20	No.1 Moorsom Drive	126	0.0049
	A22	No.3 Moorsom Drive	47	0.0018
	A40	No.10 Moorsom Road	56	0.0022
	A44	No.53 Perkins Road	127	0.0049
	A53	No.77 Perkins Road	57	0.0022
	A59	No.6 Perkins Road	194	0.0075
	A61	No.10 Perkins Road	162	0.0063
	A62	No.12 Perkins Road	270	0.0105
	A64	Redwoods	405	0.0158
	A77	No.10 Henderson Road	86	0.0033
	A89	No.7 Purves Road	33	0.0013
	A91	No.4A Cooper Road	53	0.0020
	A92	No.6 Cooper Road	107	0.0042
	A93	No.8 Cooper Road	104	0.0040
	A94	No.10 Cooper Road	156	0.0061
	A96	No.1 Goldsmith Road	116	0.0045
	A97	No.2-3 Goldsmith Road	237	0.0092
	A100	No.5 Goldsmith Road	83	0.0032
	A101	Valley View	99	0.0039
	A102	No.17 Cooper Road	94	0.0036
B	B6	Flora Garden	231	0.0090
	B7	Elm Tree Gardens	209	0.0081
D	D14	Mayflower Mansion	152	0.0059
E	E1	Avalon	107	0.0042
	E5	Carnation Court	158	0.0061
	E11	Trafalgar Court	170	0.0066
F	F2	The Legend	743	0.0289
	F3	Gardenview Heights	158	0.0061
	F5	The Signature	284	0.0110
	F6	Ronsdale Garden	347	0.0135
G	G2	Serenade	144	0.0056
H	H20	Jardine Summit	95	0.0037
I	I6	Grand Deco Tower	59	0.0023
J	J1	Fontana Garden	183	0.0071

7057.0**0.2744**

Tai Hang Path Public Toilet - Catchment A

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)

Tai Hang Road Public Toilet - Catchment H

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 (With 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	5072	1.0	5072	18785	4.0	0.235	0.2673	0.502	0.9%	85.5%	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	5072	1.0	5072	18785	4.0	0.235	0.2673	0.502	0.7%	67.5%	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	5072	1.0	5072	18785	4.0	0.235	0.2673	0.502	0.7%	67.5%	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	5072	1.0	5072	18785	4.0	0.235	0.2673	0.502	0.7%	67.5%	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	5072	1.0	5072	18785	4.0	0.235	0.2673	0.502	0.7%	67.5%	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	5275	1.0	5275	19537	4.0	0.244	0.2744	0.519	0.7%	69.7%	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	5275	1.0	5275	19537	4.0	0.244	0.2744	0.519	0.5%	46.5%	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 sliamed 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
V = mean velocity (m/s)
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 Sewerage Flows for Sewerage Infrastructure Planning
[f] Reference from Table T-4 of Guidelines for Estimating Sewerage Flows for Sewerage Infrastructure Planning, Catchment inflow factor of North Point is adopted.
[d] Assumptions are made based on interpolation between the inlet level of FMH7013351(D 5) and outlet level of FMH7057529.