

# Annex A Replacement Pages of Revised Water Supply Impact Assessment

Issue No. : 5  
Issue Date : June 2024  
Project No. : 2127



## **WATER SUPPLY IMPACT ASSESSMENT**

**FOR**

### **APPLICATION FOR AMENDMENT OF PLAN UNDER SECTION 12A FOR THE TOWN PLANNING ORDINANCE (CAP. 131) FOR MIXED USE DEVELOPMENT AT LOTS 796 AND 1008RP IN D.D. 77 AND ADJOINING GOVERNMENT LAND IN PING CHE, TA KWU LING, NEW TERRITORIES**

Prepared by

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**COMMERCIAL-IN-CONFIDENCE**

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in year 2032.

### 2.3. Existing Water Supply Condition

- 2.3.1. The Application Site is within the supply zone of Ping Che Fresh Water Service Reservoir (PCFWSR) located around 1km away from the Application Site. According to information obtained from WSD, the capacity of PCFWSR is 20,000 m<sup>3</sup>.
- 2.3.2. Based on the fresh water record plan provided by WSD, here is an existing 900mm raw water pump main and existing 300mm freshwater distribution main running at the northeast of the Application Site along Ping Che Road. From there, a 150mm freshwater distribution main branches off from the 300mm **distribution** main at the northeast of the Application Site, then an 80mm water supply main branch off again from the 150mm main and running at the east of the Application Site, along the village road. Additionally, a 40mm freshwater distribution main then branch off from the 80mm main at the southeast side of the Application Site and run along the southern side of the Application Site. The existing water supply condition is shown in **Figure 2.1**.

## 5. RESULTS AND DISCUSSION

- 5.1.1. Based on WSD, the total capacity of PCFWSR is 20,000 m<sup>3</sup>/day. The water demand from the proposed development will utilize approximately 14.3% of the design capacity of PCFWSR and occupied approximate 51.7% capacity of existing 300mm freshwater distribution main.
- 5.1.2. Currently there is no salt water supply system at the nearby area of the Application Site. Therefore, the fresh water supply will also cater for flushing demand of the proposed development. The fresh water and flush water supplied will be connected to Application Site in 2 different main.
- 5.1.3. Based on the water demand of proposed development discussed in **Section 4** and **Appendix B**, a DN300 fresh water supply and a lead-in valve is proposed to be tee-off from existing DN300 fresh water main along Ping Che Road, and the proposed DN100 flush water supply main is proposed to be tee-off from the proposed DN300 fresh water supply main. The fresh water demand will be occupied approximately 42.9% of the proposed DN300 freshwater distribution main, and the flush water demand will be occupied approximately 78.7% of the proposed DN100 flush water distribution main. The detailed calculation is shown in **Appendix C**. It is recommended to construct the inlet at the northeast side of the Application Site which is tee-off from Ping Che Road located at northeast of the application site.
- 5.1.4. The proposed fresh water supply system within the site will be further developed in detailed design stage.
- 5.1.5. The indicative location of the proposed water supply main to be tee-off from public water supply system refer to **Figure 5.1**. Detailed water mains calculation can be referred to **Appendix C**.
- 5.1.6. Based on the fresh water main record plan provided by WSD, there are existing water mains found within the Application Site. The option of diversion of water main is proposed to protect the water main. The existing water mains falls within Application Site will be diverted and running along the southern site boundary outside the Application Site to lie in Government land and connected to the existing water main at the southeast and southwest of the site. The preliminary proposed routing for diversion of water main can be referred to

**Figure 5.2.**

5.1.7. The diverted water main will be fulfilled the requirement by WSD, such as:

- The proposed diverted water main will be lied **outside the Application Site and lie** in Government Land;
- A strip of land with minimum of 1.5m in width will be provided for the diverted water main;
- Free access for staff of the WSD to carry out construction, inspection, operation, maintenance and repair works;
- The cost of diversion of existing water mains upon request will be borne by the Applicant; and
- The detail of diversion will be further provided during the detailed design stage, and the relevant proposal will submit to WSD for consideration and agreement before the work commence.

**5.2. Proposed Fire-fighting System**

5.2.1. The provision of fire-fighting requirement is discussed in **Section 3.4.**

5.2.2. The provision of fire hydrants and fire mains is in accordance with the relevant stipulations in “Technical Circular No. 4/2010: Fire Mains and Hydrants on New Trunk Roads and Elevated Highway Structures” published by Highway Department (HyD). The average spacing of fire hydrants to at-grade trunk road shall be at a distance of 100m. The detailed arrangement will be submitted to Fire Services Department (FSD) for approval during detailed design stage.

**5.3. Liability**

5.3.1. The Applicant will be responsible for the construction works of all water supply facilities, including all internal watermains and water supply lead-in valves. The regular inspection and maintenance work of the facilities within the Application Site should be conducted by the property management.

5.3.2. During operational phase, regular inspection and maintenance works of the facilities outside the Application Site boundary will be carried out by the WSD.

Project No. 2127

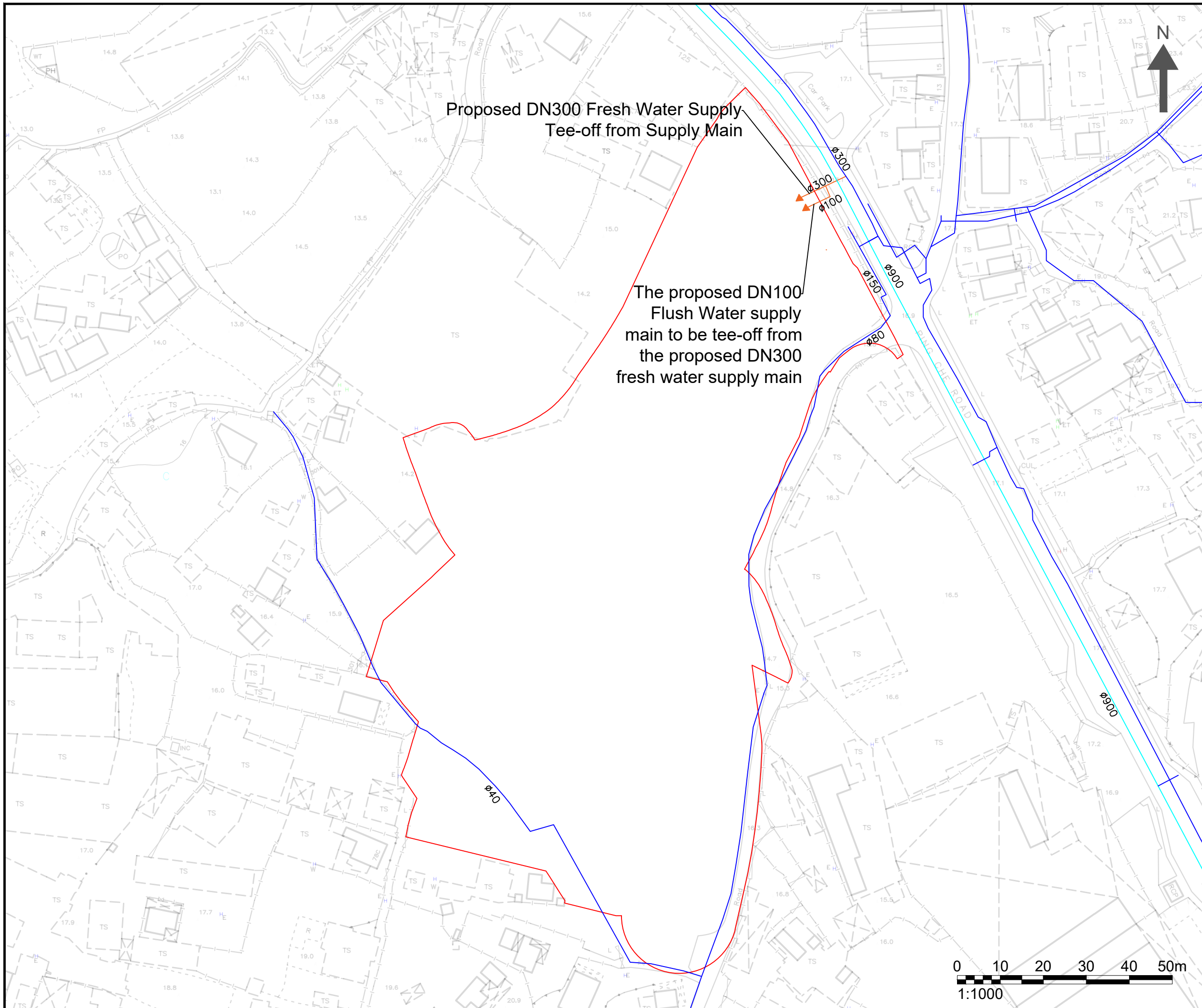
WATER SUPPLY IMPACT ASSESSMENT for APPLICATION FOR AMENDMENT OF PLAN UNDER SECTION 12A FOR THE TOWN PLANNING ORDINANCE (CAP. 131) FOR MIXED USE DEVELOPMENT AT LOTS 796 AND 1008RP IN D.D. 77 AND ADJOINING GOVERNMENT LAND IN PING CHE, TA KWU LING, NEW TERRITORIES

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## ***Figure 5.1***

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Overview of Existing & Proposed Water Supply Main



**NOTES :**

- APPLICATION SITE
- EXISTING FRESH WATER SUPPLY
- EXISTING RAW WATER SUPPLY
- PROPOSED TEE-OFF FROM EXISTING SUPPLY MAIN

Consultant



**Allied Environmental Consultants Limited**

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Drawing By : CS

Project :  
 APPLICATION FOR AMENDMENT OF PLAN UNDER SECTION 12A FOR THE TOWN PLANNING ORDINANCE (CAP. 131) FOR MIXED USE DEVELOPMENT AT LOT 796 AND 1008RP IN D.D. 77 AND ADJOINING GOVERNMENT LAND IN PING CHE, TA KWU LING, NEW TERRITORIES

Drawing Title :  
 OVERVIEW OF EXISTING & PROPOSED WATER SUPPLY MAIN

Drawing No : FIGURE 5.1	Revision : 3
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Scale : AS SHOWN	Date : MAY 2024
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