

## **Appendix 2**

### **Sewerage Impact Assessment**

## 1. Background

For the increase of 55 flats **on top of the permitted** residential building (i.e. 4 storeys on the top floors) in zone “R(B)”, there is no significant adverse impacts on sewerage for the additional the 154 residents and 8 employee (total estimated population of 162 persons) anticipated. The following analysis is taking reference to HKPSG (3.5employee/100m<sup>2</sup>) and Table T-1 and T-2, Guidelines for Estimating Sewerage Flows v1.0, GESF.

## 2. Sewerage Impact Analysis

### 2.1 Baseline

The residential development is following the prevailing statutory plan zoning “R(B)” of permitted plot ratio of 3.5. The minor relaxation of additional PR0.7 (20% increase) is proposed. However, the baseline of the permitted development generate sewerage flow for 295 flats at 0.27m<sup>3</sup>/h/d as per Table T-1 for private residential R2 area would be 223m<sup>3</sup>/h/d. The sewerage system will be designed to handle the flow with sufficient capacity.

### 2.2 Potential Sewerage Estimate from 55 Flats and small commercial operation

There will be an additional 55 flats with 154 residents and a small commercial building of 8 employee (general commercial territorial average of 0.2 per employee as per the GESF). This will generate total additional flow of 42 + 1.6 (respectively) = 44m<sup>3</sup>/h/d. It would be a small increase in total flow for the original design pipe and can be incorporated at this early stage.

## 3. Conclusions

For the increase of 55 flats **on top of the permitted** residential building in zone “R(B)”, no adverse impact is anticipated from the additional sewerage for a population of 162 persons. The total flow generated will be 44m<sup>3</sup>/day and running in the original planned sewerage system. It is convinced that housing supply would not be sacrificed because of infrastructural support as per Government policies.