

No. Comments for the 217 Kupe Street Fast Track application

- 1 The Residential demands are not calculated as per the CoP, Scenario A should be revised as the COP and Scenario B is not accepted to calculate Peak hourly demands for the development
- 2 Some of the Non-residential demands are not as per the CoP as given below:
 Gym / Pool Medium Water Users 6.0 l/m²/day
 Gymnasium Medium Water Users 6.0 l/m²/day
 Hydrotherapy Area Medium Water Users 6.0 l/m²/day : Is this Spa?
 Please also consider irrigation demands, pools (and their volumes), spa facilities, and other unspecified demands
 As the COP does not provide guidance for calculating water demand for pool and spa facilities, it is recommended to use the following table as the basis for estimating water demand for these amenities. This is an example only and highlighted figures are just an assumption. Please populate your own figures for your calculations/ assessments.

No	Demand Type	Pool	Spa
1	Evaporation (Occupied) L/hr	14.78	9.06
	Evaporation (Unoccupied) L/hr	8.43	2.08
	Session Time	15 min	15 Min
	Average people	4	4
	Average Occupancy	2 Hrs	2 Hrs
	Un Occupancy Hrs	22 Hrs	22 Hrs
	No of Session per Day	8	8
	Number of users	32	32
	Daily Pool Evaporation	215.02	63.88
	Yearly Demand	78482.3	23316.2
2	Shower usage (l/min)	10	10
	Shower Time (Min)	1	1
	Shower Usage (50%) per day	16	16
	Daily Shower usage in Litres	160	160
	Yearly Usage for Shower in Litres	58400	58400
3	Backwash Requirement l/min	460	294
	Back wash time (min)	6	6
	Frequency	2 months	2 weeks
	Requirement per year in Litres	16560	45864
4	Pool volume	147732	3120
	Refilling Frequency	1 year	No
	Yearly Demand for Refilling In Litres	147732	0

	Total Water Requirement in a year	301174.3	127580.2
	Total Water Requirement in a year in kL	301.2	127.6

3 *Salon Dry Retail 1 person per 50m² at 65 l/per/day* - Please clarify if this salon includes toilet facilities or not?

4 The Day facility (treatment facilities, wards) are considered 320 l/bed/day as per COP, however 92 beds facility, which are already connected to the reticulation system from Kupe Street is calculated based on current demand. Please clarify any alterations to the existing facility?

5 Please clarify whether the 92 bed facility is 'Day Facility' or 'Night and Day facility'.

6 Could you please confirm whether Buildings 1 to 5 are all residential?

7 Please clarify where the non-residential facilities will be located.

8 Will the two existing meters on Aotea St be utilised to supply Buildings 1 to 5?

9 Fire flow requirements - please clarify the fire flow classification for the 92 bed facility.

In terms of fire flow requirements, the proposed apartment building exceeds four storeys and may include commercial areas; therefore, the fire flow classification may exceed the FW2 classification (please refer to SNZ PAS 4509:2008).

10 The applicant confirmed their EPA application includes a 60 m³ onsite storage tank and pump system designed to meet sprinkler requirements. As the final site drawings were not completed at that stage, the fire flow and sprinkler assessment will need to be reassessed by the applicant and reviewed by WSL at EPA stage.

11 Please clarify the extension of private watermain for FH's, when there are FH's available on all 4 streets.

12 For improved supply resilience across the development, it is recommended that the buildings be connected to different street watermains.

13 Please clarify whether the staging approach is also available for non-commercial demands - considering peak demand