



COMPLEX PROBLEMS
RESOLVED SIMPLY



EPES Consulting
Engineers

16 March 2022

Council Engineers
C/- EPES Consulting Engineers Pty Ltd
SUITE 6/203 THE ENTRANCE RD
ERINA NSW 2250

Dear Sir,

**Re: Merrits Mountain House
Thredbo**

Hydraulic Services Statement

Triaial Consulting has completed an assessment of the required water and sewer system flow requirements based on the current proposed layout of the building.

Potable water demand is resultant from AS3500.2, Table 3.2.1 'Flow Rates and Loading Units', Table 3.2.4, 'Probable Simultaneous Flow Rates (PSFRs)' and Table 47 & 48 of 'The Institute of Plumbing Australia' by Barrie Smith.

Water System Demands:

A total of 217 Loading units is intended from the fixture selections as set out on plans. The probable simultaneous demand flow of fixtures is 1.90 litres/second.

Two fire hose reels (max) at 0.33 litres/second each is to be included at full flow for the purpose of this assessment and in accordance with the relevant standards.

Therefore, the total potable water system demand to AS3500.2 is **2.56 litres/second**

Sewer system Demands:

Based on the above findings for probable simultaneous flow demands of potable water, we estimate the probable simultaneous flow for waste water is **1.92 litres/second**.

We trust the above is in accordance with your requirements and if you have any further queries, please do not hesitate to contact the undersigned at your convenience.
Yours faithfully,

TRIAxIAL CONSULTING

BRETT RYAN
DipHydServiceDesign, NSWDF No.BDC0478
Senior Hydraulic Designer