

	Project			Job Ref.	
	48 Alexandra Rd, Wrexham			22044	
	Section			Sheet no./rev.	
	Foul Calculations - Existing			1	
		Calc. by	Date	App'd by	Date
		LG	June '22	AV	June '22

The proposal involves the following :

- Conversion of existing apartment (previously used as a HMO) to a supported living accommodations.

The following design calculations apply to the **existing** foul discharge only.

Calculations are compiled in accordance with BS EN 12056 PT2 and assume that the property will contain the following:

11 × Bedroom house share

15 × Wash Hand Basin	= 15 × 0.5 = 7.5
7 × WC with 9L Cistern	= 7 × 2.5 = 17.5
1 × Bath	= 1 × 0.8 = 0.8
4 × Kitchen Sink	= 4 × 0.8 = 3.2
3 × Shower without plug	= 3 × 0.6 = 1.8
Total Flow	= 30.8 L/S

Du = 30.8 L/S

Frequency Factor = 0.5

Wastewater Flow Rate (Total) = $0.5\sqrt{30.8} = 2.77$ L/S

Capacity of Pipework

100mm @ 1:80 = 5.7 L/S

150mm @ 1:120 = 14.25 L/S

150mm @ 1:150 = 12.92 L/S