

167952 – Raglan Lodge Monmouth

Introduction

The purpose of these calcs is to determine the foul water flow volume. The calculation is based on the information contained in the hotel marketing details and information in email from Peter Brunt dated 14/08/26 and will be calculated in accordance with the Code of Practice– Flows and Loads 4

Calculation

Accommodation -43 en suite rooms (3 of which are double / twin) -Max 46 people

3 meeting rooms (Max -36 people)

No laundry

No living accommodation

No restaurant / food or beverages

Table of Loadings for Sewage Treatment Systems			
Per person / activity / day (unless otherwise specified)	FLOW	BOD	Ammonia as N
DOMESTIC DWELLINGS (Grams)	(Litres)	(Grams)	
HOTELS, PUBS & CLUBS			
Hotel Guests (Prestige hotels)	300	105	12
Hotel Guests (3 rd & 4 th hotels)	250	94	10
Guests (Bedroom only – no meals)	80	50	6
Residential Training/Conference Guest (inclusive all meals)	350	150	15
Non residential Conference Guest	60	25	2.5

Max No. of Guests (bedroom only) – no meals =46

Flow / day=(46 x 80)=3680 L

Max number of non- residential conference guests = 36

Flow/day =(36x 60)=2160 L

However, the expected occupancy levels are between 50 and 55%

Assuming 55% occupancy of the rooms and conference room, flow per day from guests=0.55x(3680+2160)=3212L

In addition, there will be a few staff on site to service rooms and clean the facilities

Assume 2 full time and 2 part time staff

*Full-time Day Staff	90	38	5
*Part-time Staff (4 hr shift)	45	25	3

Flow per day = (2x90)+(2x45)=270L

Total Flow = 3212+270 = 3482 Litres/day

Total volume /day from hotel=3.48m³