

KANE DESIGN

Civil Engineering Design Services
15 Winchester Way, Gresford
Wrexham LL12 8HH
Tel: 01978 855888

CESS TANK DESIGN

Project	BETTISFIELD WHITCHURCH	Scheme number	1549
		DATE	24 December 2021
		BY	AK
		checked	
		Sheet 1 of 1	

NOTES

- 1 DESCRIPTION:** Foul drainage from 4 proposed residential properties to drain to a cess tank
- 2 REFERENCES**
- | | | |
|--------------|----------|---|
| Reference 1: | B. Regs: | Building Regulations (2008 Part H: Item 1.61 |
| Reference 2: | PPG4: | Environment Agency PPG 4 (2006) |
| | | Treatment of Sewerage where no foul sewer is available" |
| Reference 3: | BWB: | British Waterways Flows and Loads - 4 |
- 3 PROPOSED FLOW**
- From B. Regs (2015) 1.61: "Cess pools should have a capacity below the invert of at least 18000 litres for two people, increasing by 6800 litres for each additional user.
- Peak flows:**
- | | |
|------------|---|
| From PPG4: | Domestic flows allow 200 litres/person / day |
| From BWB: | Residential flows allow 150 litres/person / day |
- Per dwelling: All houses are 5 bedroom
BWB item 5:
Allow 6 persons for a 4 bedroom house, allow 8 persons for 6 bedroom house"
- therefore, in this case, allow 7 persons
- 7 persons: = 7 x 200 = 1400 litres / day
For 3 persons B. Regs require 18000+ 5 x 6800 = 35800 Litres
Therefore emptying (assuming peak discharge) = 25.57 Days
say, 3.6 weeks
- 4 SIZING**
- Size for 35800 Litres
Use "PremierTech Alpha Ltd" Cesspool tank CP36 GRP tank
= 7.784 X 3500 X 2500 mm diameter 36,000 litres capacity
- B. Reg: 1.59/ 160: To be located 7m from any habitable building and not more than 30m from the access road