

CALCULATION SHEET

BERRYS

Project Number:		SA44797	Site:	Old Farmhouse, Coed Derwen
Calcs by:		A Bannister	Status (Prelim/Final)	Final
Checked by:		R.Harman	Date:	31/08/2022

Design Element: Private Foul drainage spec & Drainage Field Calcs

Ref	Calculations	Remarks/Output
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Foul STP population calculations

Flows and Loads 4	Each property 4 beds, so 12P in SHARED SYSTEM	Population 12P
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Treatment Plant Enquiry Sheet - Shared System

Waste source	No of rooms	Occupancy	No	Flow l/day		BOD Grams/day		NH3 (Amonina)	
				Per head	Total	Per head	Total	Per head	Total
Barn	4	6	1	150	900	60	360	8	48
Cottage	4	6	1	150	900	60	360	8	48
Total		12			1800		720		96

BS6297:2007 Infiltration Tests - PERCOLATIONTESTS.CO.UK REPORT JULY 2022

Test hole C:
Test 1 (300mm fill depth) 27 mins (1620 / 150) Vp = 10.8
Test 2 (300mm fill depth) 43 mins (2580 / 150) Vp = 17.2
Test 3 (300mm fill depth) 54 mins (3240 / 150) Vp = 21.6
Test hole D:
Test 1 (300mm fill depth) 34 mins (2040 / 150) Vp = 13.6
Test 2 (300mm fill depth) 58 mins (3480 / 150) Vp = 23.2
Test 3 (300mm fill depth) 78 mins (4680 / 150) Vp = 31.2
AVERAGE Vp = 19.6

Drainage field floor area m² = Vp x 0.25 x P 19.6 x 0.25 x 12 58.8m² /0.9 65.3m x 0.9m trench