

Ground Management Ltd		Page 1
Robin Hill Farm Clay Lane Fishbourne Chichester PO18 8AB	G6445 Tile Barn Farm Barnham	
Date 13/8/21 File G6445 Run 8d Blanket.SRC	Designed By AT Checked By	
Micro Drainage	Source Control W.11.2	

Summary of Results for 100 year Return Period (+40%)

Half Drain Time : 496 minutes

Storm Duration (mins)	Maximum Filtration (l/s)	Maximum Outflow (l/s)	Maximum Water Level (m OD)	Maximum Depth (m)	Maximum Volume (m ³)	Status
15 Summer	0.1	0.1	9.8813	0.0813	1.2	FLOOD RISK
30 Summer	0.1	0.1	9.9068	0.1068	1.6	FLOOD RISK
60 Summer	0.1	0.1	9.9323	0.1323	2.0	FLOOD RISK
120 Summer	0.1	0.1	9.9548	0.1547	2.3	FLOOD RISK
180 Summer	0.1	0.1	9.9643	0.1642	2.5	FLOOD RISK
240 Summer	0.1	0.1	9.9683	0.1682	2.5	FLOOD RISK
360 Summer	0.1	0.1	9.9703	0.1702	2.6	FLOOD RISK
480 Summer	0.1	0.1	9.9688	0.1687	2.6	FLOOD RISK
600 Summer	0.1	0.1	9.9673	0.1672	2.5	FLOOD RISK
720 Summer	0.1	0.1	9.9648	0.1647	2.5	FLOOD RISK
960 Summer	0.1	0.1	9.9593	0.1592	2.4	FLOOD RISK
1440 Summer	0.1	0.1	9.9463	0.1463	2.2	FLOOD RISK
2160 Summer	0.1	0.1	9.9263	0.1263	1.9	FLOOD RISK
2880 Summer	0.1	0.1	9.9083	0.1083	1.6	FLOOD RISK
4320 Summer	0.1	0.1	9.8788	0.0788	1.2	FLOOD RISK
5760 Summer	0.1	0.1	9.8593	0.0593	0.9	FLOOD RISK
7200 Summer	0.0	0.0	9.8488	0.0487	0.7	FLOOD RISK
8640 Summer	0.0	0.0	9.8433	0.0432	0.7	FLOOD RISK
10080 Summer	0.0	0.0	9.8388	0.0387	0.6	FLOOD RISK
15 Winter	0.1	0.1	9.8913	0.0913	1.4	FLOOD RISK
30 Winter	0.1	0.1	9.9203	0.1203	1.8	FLOOD RISK
60 Winter	0.1	0.1	9.9488	0.1487	2.3	FLOOD RISK
120 Winter	0.1	0.1	9.9748	0.1747	2.6	FLOOD RISK
180 Winter	0.1	0.1	9.9863	0.1862	2.8	FLOOD RISK

Storm Duration (mins)	Rain (mm/hr)	Time-Peak (mins)
15 Summer	135.07	23
30 Summer	89.67	37
60 Summer	56.71	66
120 Summer	34.61	126
180 Summer	25.55	186
240 Summer	20.45	246
360 Summer	14.96	364
480 Summer	11.97	414
600 Summer	10.05	476
720 Summer	8.72	538
960 Summer	6.96	668
1440 Summer	5.05	942
2160 Summer	3.66	1344
2880 Summer	2.91	1732
4320 Summer	2.10	2428
5760 Summer	1.67	3112
7200 Summer	1.39	3752
8640 Summer	1.20	4496
10080 Summer	1.06	5240
15 Winter	135.07	22
30 Winter	89.67	37
60 Winter	56.71	66
120 Winter	34.61	124
180 Winter	25.55	182

Ground Management Ltd		Page 2
Robin Hill Farm Clay Lane Fishbourne Chichester PO18 8AB	G6445 Tile Barn Farm Barnham	
Date 13/8/21 File G6445 Run 8d Blanket.SRC	Designed By AT Checked By	
Micro Drainage	Source Control W.11.2	

Summary of Results for 100 year Return Period (+40%)

Storm Duration (mins)	Maximum Filtration (l/s)	Maximum Outflow (l/s)	Maximum Water Level (m OD)	Maximum Depth (m)	Maximum Volume (m ³)	Status
240 Winter	0.1	0.1	9.9918	0.1917	2.9	FLOOD RISK
360 Winter	0.1	0.1	9.9962	0.1962	3.0	FLOOD RISK
480 Winter	0.1	0.1	9.9953	0.1952	3.0	FLOOD RISK
600 Winter	0.1	0.1	9.9918	0.1917	2.9	FLOOD RISK
720 Winter	0.1	0.1	9.9883	0.1882	2.8	FLOOD RISK
960 Winter	0.1	0.1	9.9803	0.1802	2.7	FLOOD RISK
1440 Winter	0.1	0.1	9.9613	0.1613	2.4	FLOOD RISK
2160 Winter	0.1	0.1	9.9308	0.1308	2.0	FLOOD RISK
2880 Winter	0.1	0.1	9.9033	0.1033	1.6	FLOOD RISK
4320 Winter	0.1	0.1	9.8623	0.0623	0.9	FLOOD RISK
5760 Winter	0.0	0.0	9.8463	0.0462	0.7	FLOOD RISK
7200 Winter	0.0	0.0	9.8393	0.0392	0.6	FLOOD RISK
8640 Winter	0.0	0.0	9.8343	0.0342	0.5	FLOOD RISK
10080 Winter	0.0	0.0	9.8303	0.0302	0.5	FLOOD RISK

Storm Duration (mins)	Rain (mm/hr)	Time-Peak (mins)
240 Winter	20.45	240
360 Winter	14.96	352
480 Winter	11.97	460
600 Winter	10.05	554
720 Winter	8.72	576
960 Winter	6.96	726
1440 Winter	5.05	1028
2160 Winter	3.66	1452
2880 Winter	2.91	1824
4320 Winter	2.10	2508
5760 Winter	1.67	3104
7200 Winter	1.39	3816
8640 Winter	1.20	4496
10080 Winter	1.06	5248

Ground Management Ltd		Page 3
Robin Hill Farm Clay Lane Fishbourne Chichester PO18 8AB	G6445 Tile Barn Farm Barnham	
Date 13/8/21 File G6445 Run 8d Blanket.SRC	Designed By AT Checked By	
Micro Drainage	Source Control W.11.2	

Rainfall Details

Region	ENG+WAL	Shortest Storm (mins)	15
Return Period (years)	100	Longest Storm (mins)	10080
M5-60 (mm)	20.000	Summer Storms	Yes
Ratio-R	0.375	Winter Storms	Yes
Cv (Summer)	0.750	Climate Change %	+40
Cv (Winter)	0.840		

Time / Area Diagram

Total Area (ha) = 0.005

Time from:	(mins) to:	Area (ha)	Time from:	(mins) to:	Area (ha)
0	4	0.000	4	8	0.005

Ground Management Ltd		Page 4
Robin Hill Farm Clay Lane Fishbourne Chichester PO18 8AB	G6445 Tile Barn Farm Barnham	
Date 13/8/21 File G6445 Run 8d Blanket.SRC	Designed By AT Checked By	
Micro Drainage	Source Control W.11.2	

Infiltration Blanket Details

Infil Coef - Base (m/hr)	0.007200	Length (m)	12.0
Safety Factor	2.0	Invert Level (m)	9.800
Porosity	0.30	Cover Level (m)	10.000
Diameter/Width (m)	4.2		