Summary of Results for 10 year Return Period (+40%)

Half Drain Time : 1418 minutes.

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
15 min Summer	6.073	0.053	0.4	22.8	Flood Risk
30 min Summer	6.089	0.069	0.4	29.8	Flood Risk
60 min Summer	6.107	0.087	0.4	37.3	Flood Risk
120 min Summer	6.126	0.106	0.4	45.6	Flood Risk
180 min Summer	6.137	0.117	0.4	50.4	Flood Risk
240 min Summer	6.145	0.125	0.4	53.5	Flood Risk
360 min Summer	6.153	0.133	0.4	57.0	Flood Risk
480 min Summer	6.157	0.137	0.4	58.8	Flood Risk
600 min Summer	6.159	0.139	0.4	59.7	Flood Risk
720 min Summer	6.160	0.140	0.4	60.0	Flood Risk
960 min Summer	6.160	0.140	0.4	59.9	Flood Risk
1440 min Summer	6.157	0.137	0.4	58.6	Flood Risk
2160 min Summer	6.153	0.133	0.4	57.0	Flood Risk
2880 min Summer	6.150	0.130	0.4	55.7	Flood Risk
4320 min Summer	6.145	0.125	0.4	53.5	Flood Risk
5760 min Summer	6.141	0.121	0.4	51.8	Flood Risk
7200 min Summer	6.137	0.117	0.4	50.4	Flood Risk
8640 min Summer	6.135	0.115	0.4	49.3	Flood Risk
10080 min Summer	6.133	0.113	0.4	48.5	Flood Risk
15 min Winter	6.079	0.059	0.4	25.5	Flood Risk

Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)
15 min Summer	87.620	0.0	19
30 min Summer	57.683	0.0	34
60 min Summer	36.448	0.0	64
120 min Summer	22.639	0.0	124
180 min Summer	16.928	0.0	182
240 min Summer	13.676	0.0	242
360 min Summer	10.003	0.0	362
480 min Summer	7.960	0.0	482
600 min Summer	6.652	0.0	602
720 min Summer	5.738	0.0	720
960 min Summer	4.539	0.0	960
1440 min Summer	3.269	0.0	1196
2160 min Summer	2.374	0.0	1560
2880 min Summer	1.907	0.0	1964
4320 min Summer	1.430	0.0	2808
5760 min Summer	1.183	0.0	3632
7200 min Summer	1.034	0.0	4464
8640 min Summer	0.933	0.0	5272
10080 min Summer	0.861	0.0	6048
15 min Winter	87.620	0.0	19

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Summary of Results for 10 year Return Period (+40%)

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
30 min Winter	6.098	0.078	0.4	33.4	Flood Risk
60 min Winter	6.118	0.098	0.4	41.9	Flood Risk
120 min Winter	6.139	0.119	0.4	51.2	Flood Risk
180 min Winter	6.152	0.132	0.4	56.7	Flood Risk
240 min Winter	6.160	0.140	0.4	60.2	Flood Risk
360 min Winter	6.170	0.150	0.4	64.4	Flood Risk
480 min Winter	6.175	0.155	0.4	66.6	Flood Risk
600 min Winter	6.178	0.158	0.4	67.8	Flood Risk
720 min Winter	6.180	0.160	0.4	68.4	Flood Risk
960 min Winter	6.180	0.160	0.4	68.7	Flood Risk
1440 min Winter	6.177	0.157	0.4	67.4	Flood Risk
2160 min Winter	6.171	0.151	0.4	64.9	Flood Risk
2880 min Winter	6.166	0.146	0.4	62.7	Flood Risk
4320 min Winter	6.157	0.137	0.4	58.8	Flood Risk
5760 min Winter	6.149	0.129	0.4	55.2	Flood Risk
7200 min Winter	6.141	0.121	0.4	52.0	Flood Risk
8640 min Winter	6.135	0.115	0.4	49.2	Flood Risk
10080 min Winter	6.129	0.109	0.4	46.8	Flood Risk

Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)
30 min Winter	57.683	0.0	33
60 min Winter	36.448	0.0	64
120 min Winter	22.639	0.0	122
180 min Winter	16.928	0.0	180
240 min Winter	13.676	0.0	240
360 min Winter	10.003	0.0	356
480 min Winter	7.960	0.0	472
600 min Winter	6.652	0.0	590
720 min Winter	5.738	0.0	702
960 min Winter	4.539	0.0	926
1440 min Winter	3.269	0.0	1356
2160 min Winter	2.374	0.0	1688
2880 min Winter	1.907	0.0	2136
4320 min Winter	1.430	0.0	3068
5760 min Winter	1.183	0.0	3928
7200 min Winter	1.034	0.0	4760
8640 min Winter	0.933	0.0	5624
10080 min Winter	0.861	0.0	6456

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Rainfall Details

Rainfall Model	FEH
Return Period (years)	10
FEH Rainfall Version	2013
Site Location	GB 497682 103581 SU 97682 03581
Data Type	Point
Summer Storms	Yes
Winter Storms	Yes
Cv (Summer)	0.750
Cv (Winter)	0.840
Shortest Storm (mins)	15
Longest Storm (mins)	10080
Climate Change %	+40

Time Area Diagram

Total Area (ha) 0.140

Time (mins) From:	To:	Area (ha)
0	4	0.140

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Model Details

Storage is Online Cover Level (m) 6.320

Infiltration Blanket Structure

Infiltration Coefficient Base (m/hr)	0.00648	Diameter/Width (m)	21.5
Safety Factor	2.0	Length (m)	21.0
Porosity	0.95	Cap Volume Depth (m)	0.000
Invert Level (m)	6.020		

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