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

Half Drain Time : 1200 minutes.

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
15 min Summer	49.474	0.134	1.2	55.4	O K
30 min Summer	49.519	0.179	1.2	74.0	O K
60 min Summer	49.567	0.227	1.2	93.8	O K
120 min Summer	49.615	0.275	1.2	113.7	O K
180 min Summer	49.641	0.301	1.2	124.3	O K
240 min Summer	49.657	0.317	1.2	130.8	O K
360 min Summer	49.676	0.336	1.2	138.6	O K
480 min Summer	49.686	0.346	1.2	143.0	O K
600 min Summer	49.691	0.351	1.2	145.1	O K
720 min Summer	49.693	0.353	1.2	146.0	O K
960 min Summer	49.691	0.351	1.2	145.0	O K
1440 min Summer	49.681	0.341	1.2	140.8	O K
2160 min Summer	49.663	0.323	1.2	133.4	O K
2880 min Summer	49.644	0.304	1.2	125.6	O K
4320 min Summer	49.607	0.267	1.2	110.2	O K
5760 min Summer	49.571	0.231	1.2	95.6	O K
7200 min Summer	49.539	0.199	1.2	82.2	O K
8640 min Summer	49.510	0.170	1.2	70.2	O K
10080 min Summer	49.484	0.144	1.2	59.6	O K
15 min Winter	49.491	0.151	1.2	62.2	O K

Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)
15 min Summer	124.633	0.0	19
30 min Summer	83.789	0.0	34
60 min Summer	53.779	0.0	64
120 min Summer	33.337	0.0	124
180 min Summer	24.832	0.0	182
240 min Summer	20.006	0.0	242
360 min Summer	14.706	0.0	362
480 min Summer	11.818	0.0	482
600 min Summer	9.966	0.0	602
720 min Summer	8.665	0.0	720
960 min Summer	6.943	0.0	932
1440 min Summer	5.071	0.0	1142
2160 min Summer	3.696	0.0	1532
2880 min Summer	2.949	0.0	1932
4320 min Summer	2.142	0.0	2764
5760 min Summer	1.705	0.0	3520
7200 min Summer	1.427	0.0	4320
8640 min Summer	1.235	0.0	5024
10080 min Summer	1.093	0.0	5752
15 min Winter	124.633	0.0	19

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

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
30 min Winter	49.541	0.201	1.2	83.1	O K
60 min Winter	49.595	0.255	1.2	105.4	O K
120 min Winter	49.650	0.310	1.2	128.1	O K
180 min Winter	49.680	0.340	1.2	140.4	O K
240 min Winter	49.699	0.359	1.2	148.1	O K
360 min Winter	49.722	0.382	1.2	157.7	Flood Risk
480 min Winter	49.736	0.396	1.2	163.4	Flood Risk
600 min Winter	49.744	0.404	1.2	166.7	Flood Risk
720 min Winter	49.748	0.408	1.2	168.5	Flood Risk
960 min Winter	49.749	0.409	1.2	169.1	Flood Risk
1440 min Winter	49.737	0.397	1.2	164.1	Flood Risk
2160 min Winter	49.713	0.373	1.2	154.0	Flood Risk
2880 min Winter	49.686	0.346	1.2	142.8	O K
4320 min Winter	49.629	0.289	1.2	119.5	O K
5760 min Winter	49.575	0.235	1.2	97.1	O K
7200 min Winter	49.526	0.186	1.2	76.7	O K
8640 min Winter	49.483	0.143	1.2	59.0	O K
10080 min Winter	49.447	0.107	1.2	44.0	O K

Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)
30 min Winter	83.789	0.0	33
60 min Winter	53.779	0.0	62
120 min Winter	33.337	0.0	122
180 min Winter	24.832	0.0	180
240 min Winter	20.006	0.0	240
360 min Winter	14.706	0.0	356
480 min Winter	11.818	0.0	472
600 min Winter	9.966	0.0	586
720 min Winter	8.665	0.0	700
960 min Winter	6.943	0.0	924
1440 min Winter	5.071	0.0	1338
2160 min Winter	3.696	0.0	1648
2880 min Winter	2.949	0.0	2108
4320 min Winter	2.142	0.0	2984
5760 min Winter	1.705	0.0	3808
7200 min Winter	1.427	0.0	4608
8640 min Winter	1.235	0.0	5280
10080 min Winter	1.093	0.0	5952

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Rainfall Details

Rainfall Model	FSR	Winter Storms	Yes
Return Period (years)	100	Cv (Summer)	0.750
Region	England and Wales	Cv (Winter)	0.840
M5-60 (mm)	19.000	Shortest Storm (mins)	15
Ratio R	0.350	Longest Storm (mins)	10080
Summer Storms	Yes	Climate Change %	+40

Time Area Diagram

Total Area (ha) 0.241

Time (mins) From:	To:	Area (ha)
0	4	0.241

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Model Details

Storage is Online Cover Level (m) 50.000

Infiltration Blanket Structure

Infiltration Coefficient Base (m/hr)	0.01800	Diameter/Width (m)	11.8
Safety Factor	5.0	Length (m)	100.0
Porosity	0.35	Cap Volume Depth (m)	0.450
Invert Level (m)	49.340		

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