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

Half Drain Time : 1016 minutes.

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
15 min Summer	0.450	0.450	1.8	92.9	O K
30 min Summer	0.584	0.584	1.8	120.8	O K
60 min Summer	0.718	0.718	1.9	148.4	O K
120 min Summer	0.842	0.842	2.0	174.1	O K
180 min Summer	0.903	0.903	2.0	186.7	O K
240 min Summer	0.937	0.937	2.0	193.6	O K
360 min Summer	0.971	0.971	2.0	200.6	O K
480 min Summer	0.982	0.982	2.0	203.0	O K
600 min Summer	0.980	0.980	2.0	202.6	O K
720 min Summer	0.970	0.970	2.0	200.5	O K
960 min Summer	0.943	0.943	2.0	194.7	O K
1440 min Summer	0.889	0.889	2.0	183.6	O K
2160 min Summer	0.818	0.818	1.9	169.0	O K
2880 min Summer	0.754	0.754	1.9	155.8	O K
4320 min Summer	0.638	0.638	1.9	131.9	O K
5760 min Summer	0.535	0.535	1.8	110.6	O K
7200 min Summer	0.443	0.443	1.8	91.6	O K
8640 min Summer	0.362	0.362	1.7	74.8	O K
10080 min Summer	0.292	0.292	1.7	60.4	O K
15 min Winter	0.504	0.504	1.8	104.2	O K

Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)
15 min Summer	138.754	0.0	19
30 min Summer	90.906	0.0	34
60 min Summer	56.713	0.0	64
120 min Summer	34.176	0.0	124
180 min Summer	25.072	0.0	182
240 min Summer	20.006	0.0	242
360 min Summer	14.514	0.0	362
480 min Summer	11.557	0.0	482
600 min Summer	9.678	0.0	600
720 min Summer	8.369	0.0	720
960 min Summer	6.648	0.0	826
1440 min Summer	4.799	0.0	1070
2160 min Summer	3.459	0.0	1472
2880 min Summer	2.739	0.0	1876
4320 min Summer	1.968	0.0	2684
5760 min Summer	1.556	0.0	3464
7200 min Summer	1.295	0.0	4248
8640 min Summer	1.115	0.0	5008
10080 min Summer	0.982	0.0	5656
15 min Winter	138.754	0.0	19

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	0.656	0.656	1.9	135.6	O K
60 min Winter	0.808	0.808	1.9	166.9	O K
120 min Winter	0.951	0.951	2.0	196.4	O K
180 min Winter	1.023	1.023	2.0	211.3	O K
240 min Winter	1.064	1.064	2.0	219.8	O K
360 min Winter	1.109	1.109	2.1	229.1	O K
480 min Winter	1.129	1.129	2.1	233.3	O K
600 min Winter	1.135	1.135	2.1	234.4	O K
720 min Winter	1.131	1.131	2.1	233.6	O K
960 min Winter	1.106	1.106	2.1	228.5	O K
1440 min Winter	1.037	1.037	2.0	214.3	O K
2160 min Winter	0.943	0.943	2.0	194.8	O K
2880 min Winter	0.851	0.851	2.0	175.9	O K
4320 min Winter	0.679	0.679	1.9	140.4	O K
5760 min Winter	0.527	0.527	1.8	108.8	O K
7200 min Winter	0.394	0.394	1.8	81.5	O K
8640 min Winter	0.282	0.282	1.7	58.3	O K
10080 min Winter	0.189	0.189	1.7	39.0	O K

Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)
30 min Winter	90.906	0.0	33
60 min Winter	56.713	0.0	62
120 min Winter	34.176	0.0	122
180 min Winter	25.072	0.0	180
240 min Winter	20.006	0.0	238
360 min Winter	14.514	0.0	354
480 min Winter	11.557	0.0	470
600 min Winter	9.678	0.0	584
720 min Winter	8.369	0.0	694
960 min Winter	6.648	0.0	906
1440 min Winter	4.799	0.0	1140
2160 min Winter	3.459	0.0	1600
2880 min Winter	2.739	0.0	2048
4320 min Winter	1.968	0.0	2900
5760 min Winter	1.556	0.0	3744
7200 min Winter	1.295	0.0	4472
8640 min Winter	1.115	0.0	5192
10080 min Winter	0.982	0.0	5856

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)	20.000	Shortest Storm (mins)	15
Ratio R	0.405	Longest Storm (mins)	10080
Summer Storms	Yes	Climate Change %	+40

Time Area Diagram

Total Area (ha) 0.363

Time (mins) From:	To:	Area (ha)
0	4	0.363

Model Details

Storage is Online Cover Level (m) 10.000

Cellular Storage Structure

Invert Level (m) 0.000 Safety Factor 1.0
Infiltration Coefficient Base (m/hr) 0.02630 Porosity 0.95
Infiltration Coefficient Side (m/hr) 0.02630

Depth (m)	Area (m²)	Inf. Area (m²)	Depth (m)	Area (m²)	Inf. Area (m²)
0.000	217.5	217.5	1.300	0.0	288.3
1.200	217.5	288.3			