Summary of Results for 30 year Return Period (+45%)

Half Drain Time : 18 minutes.

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
15 min Summer	62.959	0.459	7.3	11.8	O K
30 min Summer	63.012	0.512	7.5	13.1	Flood Risk
60 min Summer	63.006	0.506	7.5	13.0	Flood Risk
120 min Summer	62.933	0.433	7.2	11.1	O K
180 min Summer	62.854	0.354	6.8	9.1	O K
240 min Summer	62.782	0.282	6.5	7.2	O K
360 min Summer	62.671	0.171	6.0	4.4	O K
480 min Summer	62.599	0.099	5.6	2.5	O K
600 min Summer	62.558	0.058	5.4	1.5	O K
720 min Summer	62.547	0.047	5.0	1.2	O K
960 min Summer	62.538	0.038	4.1	1.0	O K
1440 min Summer	62.528	0.028	3.0	0.7	O K
2160 min Summer	62.520	0.020	2.2	0.5	O K
2880 min Summer	62.516	0.016	1.8	0.4	O K
4320 min Summer	62.512	0.012	1.3	0.3	O K
5760 min Summer	62.510	0.010	1.1	0.3	O K
7200 min Summer	62.508	0.008	0.9	0.2	O K
8640 min Summer	62.507	0.007	0.8	0.2	O K
10080 min Summer	62.506	0.006	0.7	0.2	O K
15 min Winter	62.961	0.461	7.3	11.8	O K

Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)
15 min Summer	100.578	0.0	15
30 min Summer	66.714	0.0	24
60 min Summer	42.394	0.0	42
120 min Summer	26.162	0.0	76
180 min Summer	19.510	0.0	108
240 min Summer	15.767	0.0	138
360 min Summer	11.643	0.0	198
480 min Summer	9.386	0.0	256
600 min Summer	7.936	0.0	308
720 min Summer	6.916	0.0	366
960 min Summer	5.564	0.0	488
1440 min Summer	4.089	0.0	728
2160 min Summer	3.001	0.0	1100
2880 min Summer	2.407	0.0	1468
4320 min Summer	1.763	0.0	2132
5760 min Summer	1.412	0.0	2848
7200 min Summer	1.188	0.0	3560
8640 min Summer	1.032	0.0	4264
10080 min Summer	0.916	0.0	5128
15 min Winter	100.578	0.0	15

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Summary of Results for 30 year Return Period (+45%)

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
30 min Winter	63.008	0.508	7.5	13.0	Flood Risk
60 min Winter	62.980	0.480	7.4	12.3	O K
120 min Winter	62.859	0.359	6.8	9.2	O K
180 min Winter	62.747	0.247	6.3	6.3	O K
240 min Winter	62.656	0.156	5.9	4.0	O K
360 min Winter	62.551	0.051	5.4	1.3	O K
480 min Winter	62.541	0.041	4.4	1.0	O K
600 min Winter	62.535	0.035	3.8	0.9	O K
720 min Winter	62.530	0.030	3.3	0.8	O K
960 min Winter	62.524	0.024	2.6	0.6	O K
1440 min Winter	62.518	0.018	2.0	0.5	O K
2160 min Winter	62.513	0.013	1.4	0.3	O K
2880 min Winter	62.511	0.011	1.2	0.3	O K
4320 min Winter	62.508	0.008	0.8	0.2	O K
5760 min Winter	62.506	0.006	0.7	0.2	O K
7200 min Winter	62.505	0.005	0.6	0.1	O K
8640 min Winter	62.505	0.005	0.5	0.1	O K
10080 min Winter	62.504	0.004	0.5	0.1	O K

Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)
30 min Winter	66.714	0.0	25
60 min Winter	42.394	0.0	44
120 min Winter	26.162	0.0	80
180 min Winter	19.510	0.0	112
240 min Winter	15.767	0.0	142
360 min Winter	11.643	0.0	188
480 min Winter	9.386	0.0	246
600 min Winter	7.936	0.0	304
720 min Winter	6.916	0.0	366
960 min Winter	5.564	0.0	488
1440 min Winter	4.089	0.0	732
2160 min Winter	3.001	0.0	1076
2880 min Winter	2.407	0.0	1496
4320 min Winter	1.763	0.0	2168
5760 min Winter	1.412	0.0	2872
7200 min Winter	1.188	0.0	3640
8640 min Winter	1.032	0.0	4152
10080 min Winter	0.916	0.0	5256

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Rainfall Details

Rainfall Model	FSR	Winter Storms	Yes
Return Period (years)	30	Cv (Summer)	1.000
Region	England and Wales	Cv (Winter)	1.000
M5-60 (mm)	19.000	Shortest Storm (mins)	15
Ratio R	0.358	Longest Storm (mins)	10080
Summer Storms	Yes	Climate Change %	+45

Time Area Diagram

Total Area (ha) 0.067

Time (mins) From:	To:	Area (ha)
0	4	0.067

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Model Details

Storage is Online Cover Level (m) 63.300

Cellular Storage Structure

Invert Level (m) 62.500 Safety Factor 2.0
Infiltration Coefficient Base (m/hr) 1.37800 Porosity 0.95
Infiltration Coefficient Side (m/hr) 1.37800

Depth (m)	Area (m²)	Inf. Area (m²)	Depth (m)	Area (m²)	Inf. Area (m²)
0.000	27.0	27.0	0.900	0.0	46.2
0.800	27.0	46.2			

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