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

Half Drain Time : 35 minutes.

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
15 min Summer	2.971	0.231	0.5	1.3	O K
30 min Summer	3.016	0.276	0.5	1.6	O K
60 min Summer	3.036	0.296	0.5	1.7	O K
120 min Summer	3.024	0.284	0.5	1.6	O K
180 min Summer	2.997	0.257	0.5	1.5	O K
240 min Summer	2.969	0.229	0.5	1.3	O K
360 min Summer	2.919	0.179	0.4	1.0	O K
480 min Summer	2.879	0.139	0.4	0.8	O K
600 min Summer	2.847	0.107	0.4	0.6	O K
720 min Summer	2.823	0.083	0.4	0.5	O K
960 min Summer	2.793	0.053	0.4	0.3	O K
1440 min Summer	2.779	0.039	0.3	0.2	O K
2160 min Summer	2.769	0.029	0.2	0.2	O K
2880 min Summer	2.763	0.023	0.2	0.1	O K
4320 min Summer	2.757	0.017	0.1	0.1	O K
5760 min Summer	2.753	0.013	0.1	0.1	O K
7200 min Summer	2.751	0.011	0.1	0.1	O K
8640 min Summer	2.750	0.010	0.1	0.1	O K
10080 min Summer	2.749	0.009	0.1	0.0	O K
15 min Winter	3.003	0.263	0.5	1.5	O K

Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)
15 min Summer	124.633	0.0	16
30 min Summer	83.789	0.0	28
60 min Summer	53.779	0.0	44
120 min Summer	33.337	0.0	80
180 min Summer	24.832	0.0	114
240 min Summer	20.006	0.0	146
360 min Summer	14.706	0.0	210
480 min Summer	11.818	0.0	270
600 min Summer	9.966	0.0	330
720 min Summer	8.665	0.0	386
960 min Summer	6.943	0.0	494
1440 min Summer	5.071	0.0	734
2160 min Summer	3.696	0.0	1100
2880 min Summer	2.949	0.0	1468
4320 min Summer	2.142	0.0	2144
5760 min Summer	1.705	0.0	2936
7200 min Summer	1.427	0.0	3648
8640 min Summer	1.235	0.0	4280
10080 min Summer	1.093	0.0	5056
15 min Winter	124.633	0.0	16

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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	3.057	0.317	0.5	1.8	O K
60 min Winter	3.078	0.338	0.5	1.9	O K
120 min Winter	3.054	0.314	0.5	1.8	O K
180 min Winter	3.011	0.271	0.5	1.5	O K
240 min Winter	2.969	0.229	0.5	1.3	O K
360 min Winter	2.897	0.157	0.4	0.9	O K
480 min Winter	2.843	0.103	0.4	0.6	O K
600 min Winter	2.805	0.065	0.4	0.4	O K
720 min Winter	2.788	0.048	0.4	0.3	O K
960 min Winter	2.779	0.039	0.3	0.2	O K
1440 min Winter	2.769	0.029	0.2	0.2	O K
2160 min Winter	2.761	0.021	0.2	0.1	O K
2880 min Winter	2.757	0.017	0.1	0.1	O K
4320 min Winter	2.752	0.012	0.1	0.1	O K
5760 min Winter	2.750	0.010	0.1	0.1	O K
7200 min Winter	2.748	0.008	0.1	0.0	O K
8640 min Winter	2.747	0.007	0.1	0.0	O K
10080 min Winter	2.746	0.006	0.0	0.0	O K

Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)
30 min Winter	83.789	0.0	29
60 min Winter	53.779	0.0	48
120 min Winter	33.337	0.0	86
180 min Winter	24.832	0.0	122
240 min Winter	20.006	0.0	156
360 min Winter	14.706	0.0	220
480 min Winter	11.818	0.0	280
600 min Winter	9.966	0.0	332
720 min Winter	8.665	0.0	374
960 min Winter	6.943	0.0	494
1440 min Winter	5.071	0.0	732
2160 min Winter	3.696	0.0	1104
2880 min Winter	2.949	0.0	1452
4320 min Winter	2.142	0.0	2128
5760 min Winter	1.705	0.0	2912
7200 min Winter	1.427	0.0	3664
8640 min Winter	1.235	0.0	4344
10080 min Winter	1.093	0.0	5008

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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) 0.007

Time (mins) From:	To:	Area (ha)
0	4	0.007

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Model Details

Storage is Online Cover Level (m) 3.640

Cellular Storage Structure

Invert Level (m)	2.740
Infiltration Coefficient Base (m/hr)	0.30384
Infiltration Coefficient Side (m/hr)	0.30384
Safety Factor	1.5
Porosity	0.95

Depth (m)	Area (m²)	Inf. Area (m²)	Depth (m)	Area (m²)	Inf. Area (m²)
0.000	6.0	6.0	0.500	0.0	10.0
0.400	6.0	10.0			

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