Summary of Results for 10 year Return Period

Half Drain Time : 4826 minutes.

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
15 min Summer	97.839	0.229	0.0	4.8	O K
30 min Summer	97.906	0.296	0.0	6.2	O K
60 min Summer	97.975	0.365	0.0	7.6	O K
120 min Summer	98.049	0.439	0.0	9.2	O K
180 min Summer	98.093	0.483	0.0	10.1	O K
240 min Summer	98.126	0.516	0.0	10.8	O K
360 min Summer	98.172	0.562	0.0	11.7	O K
480 min Summer	98.205	0.595	0.0	12.4	O K
600 min Summer	98.231	0.621	0.0	13.0	O K
720 min Summer	98.251	0.641	0.0	13.4	O K
960 min Summer	98.282	0.672	0.0	14.0	O K
1440 min Summer	98.320	0.710	0.0	14.8	O K
2160 min Summer	98.347	0.737	0.0	15.4	O K
2880 min Summer	98.356	0.746	0.0	15.6	O K
4320 min Summer	98.351	0.741	0.0	15.5	O K
5760 min Summer	98.342	0.732	0.0	15.3	O K
7200 min Summer	98.329	0.719	0.0	15.0	O K
8640 min Summer	98.316	0.706	0.0	14.8	O K
10080 min Summer	98.302	0.692	0.0	14.5	O K
15 min Winter	97.867	0.257	0.0	5.4	O K
30 min Winter	97.941	0.331	0.0	6.9	O K
60 min Winter	98.019	0.409	0.0	8.6	O K

Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)
15 min Summer	59.630	0.0	19
30 min Summer	38.521	0.0	34
60 min Summer	23.882	0.0	64
120 min Summer	14.437	0.0	124
180 min Summer	10.670	0.0	184
240 min Summer	8.586	0.0	244
360 min Summer	6.308	0.0	364
480 min Summer	5.065	0.0	484
600 min Summer	4.271	0.0	604
720 min Summer	3.714	0.0	722
960 min Summer	2.978	0.0	962
1440 min Summer	2.180	0.0	1442
2160 min Summer	1.595	0.0	2160
2880 min Summer	1.277	0.0	2880
4320 min Summer	0.933	0.0	3716
5760 min Summer	0.747	0.0	4448
7200 min Summer	0.628	0.0	5256
8640 min Summer	0.545	0.0	6048
10080 min Summer	0.484	0.0	6864
15 min Winter	59.630	0.0	19
30 min Winter	38.521	0.0	34
60 min Winter	23.882	0.0	64

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Summary of Results for 10 year Return Period

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
120 min Winter	98.102	0.492	0.0	10.3	O K
180 min Winter	98.152	0.542	0.0	11.3	O K
240 min Winter	98.189	0.579	0.0	12.1	O K
360 min Winter	98.241	0.631	0.0	13.2	O K
480 min Winter	98.279	0.669	0.0	14.0	O K
600 min Winter	98.309	0.699	0.0	14.6	O K
720 min Winter	98.332	0.722	0.0	15.1	O K
960 min Winter	98.369	0.759	0.0	15.9	O K
1440 min Winter	98.415	0.805	0.0	16.8	O K
2160 min Winter	98.450	0.840	0.0	17.6	O K
2880 min Winter	98.465	0.855	0.0	17.9	O K
4320 min Winter	98.466	0.856	0.0	17.9	O K
5760 min Winter	98.451	0.841	0.0	17.6	O K
7200 min Winter	98.437	0.827	0.0	17.3	O K
8640 min Winter	98.419	0.809	0.0	16.9	O K
10080 min Winter	98.400	0.790	0.0	16.5	O K

Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)
120 min Winter	14.437	0.0	122
180 min Winter	10.670	0.0	182
240 min Winter	8.586	0.0	242
360 min Winter	6.308	0.0	360
480 min Winter	5.065	0.0	478
600 min Winter	4.271	0.0	596
720 min Winter	3.714	0.0	714
960 min Winter	2.978	0.0	950
1440 min Winter	2.180	0.0	1414
2160 min Winter	1.595	0.0	2100
2880 min Winter	1.277	0.0	2772
4320 min Winter	0.933	0.0	4064
5760 min Winter	0.747	0.0	4664
7200 min Winter	0.628	0.0	5544
8640 min Winter	0.545	0.0	6480
10080 min Winter	0.484	0.0	7368

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Rainfall Details

Rainfall Model	FSR	Winter Storms	Yes
Return Period (years)	10	Cv (Summer)	0.750
Region	England and Wales	Cv (Winter)	0.840
M5-60 (mm)	19.900	Shortest Storm (mins)	15
Ratio R	0.400	Longest Storm (mins)	10080
Summer Storms	Yes	Climate Change %	+0

Time Area Diagram

Total Area (ha) 0.043

Time (mins) From:	To:	Area (ha)
0	4	0.043

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Model Details

Storage is Online Cover Level (m) 99.620

Cellular Storage Structure

Invert Level (m) 97.610 Safety Factor 2.0
Infiltration Coefficient Base (m/hr) 0.00576 Porosity 0.95
Infiltration Coefficient Side (m/hr) 0.00576

Depth (m)	Area (m²)	Inf. Area (m²)	Depth (m)	Area (m²)	Inf. Area (m²)
0.000	22.0	22.0	1.700	0.0	63.6
1.600	22.0	63.6			

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