Summary of Results for 30 year Return Period

Half Drain Time : 582 minutes.

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
15 min Summer	8.505	0.505	0.3	12.0	O K
30 min Summer	8.650	0.650	0.3	15.4	O K
60 min Summer	8.793	0.793	0.4	18.8	O K
120 min Summer	8.924	0.924	0.4	21.9	O K
180 min Summer	8.985	0.985	0.4	23.4	O K
240 min Summer	9.017	1.017	0.4	24.1	O K
360 min Summer	9.037	1.037	0.4	24.6	O K
480 min Summer	9.032	1.032	0.4	24.5	O K
600 min Summer	9.023	1.023	0.4	24.3	O K
720 min Summer	9.011	1.011	0.4	24.0	O K
960 min Summer	8.984	0.984	0.4	23.4	O K
1440 min Summer	8.925	0.925	0.4	22.0	O K
2160 min Summer	8.844	0.844	0.4	20.1	O K
2880 min Summer	8.770	0.770	0.4	18.3	O K
4320 min Summer	8.639	0.639	0.3	15.2	O K
5760 min Summer	8.528	0.528	0.3	12.5	O K
7200 min Summer	8.434	0.434	0.3	10.3	O K
8640 min Summer	8.354	0.354	0.3	8.4	O K
10080 min Summer	8.287	0.287	0.3	6.8	O K
15 min Winter	8.505	0.505	0.3	12.0	O K

Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)
15 min Summer	72.014	0.0	19
30 min Summer	46.909	0.0	34
60 min Summer	29.238	0.0	64
120 min Summer	17.704	0.0	122
180 min Summer	13.070	0.0	182
240 min Summer	10.495	0.0	242
360 min Summer	7.666	0.0	360
480 min Summer	6.135	0.0	448
600 min Summer	5.158	0.0	504
720 min Summer	4.475	0.0	566
960 min Summer	3.575	0.0	694
1440 min Summer	2.602	0.0	968
2160 min Summer	1.892	0.0	1384
2880 min Summer	1.508	0.0	1788
4320 min Summer	1.094	0.0	2592
5760 min Summer	0.871	0.0	3344
7200 min Summer	0.729	0.0	4104
8640 min Summer	0.631	0.0	4840
10080 min Summer	0.558	0.0	5544
15 min Winter	72.014	0.0	19

Summary of Results for 30 year Return Period

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
30 min Winter	8.651	0.651	0.3	15.5	O K
60 min Winter	8.794	0.794	0.4	18.9	O K
120 min Winter	8.926	0.926	0.4	22.0	O K
180 min Winter	8.989	0.989	0.4	23.5	O K
240 min Winter	9.022	1.022	0.4	24.3	O K
360 min Winter	9.046	1.046	0.4	24.8	O K
480 min Winter	9.045	1.045	0.4	24.8	O K
600 min Winter	9.031	1.031	0.4	24.5	O K
720 min Winter	9.015	1.015	0.4	24.1	O K
960 min Winter	8.983	0.983	0.4	23.3	O K
1440 min Winter	8.905	0.905	0.4	21.5	O K
2160 min Winter	8.792	0.792	0.4	18.8	O K
2880 min Winter	8.688	0.688	0.3	16.3	O K
4320 min Winter	8.510	0.510	0.3	12.1	O K
5760 min Winter	8.368	0.368	0.3	8.7	O K
7200 min Winter	8.254	0.254	0.3	6.0	O K
8640 min Winter	8.164	0.164	0.3	3.9	O K
10080 min Winter	8.096	0.096	0.2	2.3	O K

Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)
30 min Winter	46.909	0.0	33
60 min Winter	29.238	0.0	62
120 min Winter	17.704	0.0	120
180 min Winter	13.070	0.0	178
240 min Winter	10.495	0.0	236
360 min Winter	7.666	0.0	348
480 min Winter	6.135	0.0	456
600 min Winter	5.158	0.0	554
720 min Winter	4.475	0.0	578
960 min Winter	3.575	0.0	730
1440 min Winter	2.602	0.0	1038
2160 min Winter	1.892	0.0	1488
2880 min Winter	1.508	0.0	1904
4320 min Winter	1.094	0.0	2724
5760 min Winter	0.871	0.0	3512
7200 min Winter	0.729	0.0	4248
8640 min Winter	0.631	0.0	4928
10080 min Winter	0.558	0.0	5544

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	0.400	Longest Storm (mins)	10080
Summer Storms	Yes	Climate Change %	+0

Time Area Diagram

Total Area (ha) 0.068

Time (mins) From:	To:	Area (ha)
0	4	0.068

Model Details

Storage is Online Cover Level (m) 10.000

Cellular Storage Structure

Invert Level (m) 8.000 Safety Factor 2.0
Infiltration Coefficient Base (m/hr) 0.06480 Porosity 0.95
Infiltration Coefficient Side (m/hr) 0.06480

Depth (m)	Area (m²)	Inf. Area (m²)	Depth (m)	Area (m²)	Inf. Area (m²)
0.000	25.0	25.0	1.300	0.0	49.0
1.200	25.0	49.0			