Summary of Results for 30 year Return Period

Half Drain Time : 89 minutes.

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
15 min Summer	60.203	0.503	0.2	1.2	O K
30 min Summer	60.327	0.627	0.2	1.5	O K
60 min Summer	60.411	0.711	0.2	1.7	O K
120 min Summer	60.444	0.744	0.2	1.8	O K
180 min Summer	60.438	0.738	0.2	1.8	O K
240 min Summer	60.418	0.718	0.2	1.7	O K
360 min Summer	60.369	0.669	0.2	1.6	O K
480 min Summer	60.322	0.622	0.2	1.5	O K
600 min Summer	60.279	0.579	0.2	1.4	O K
720 min Summer	60.240	0.540	0.2	1.3	O K
960 min Summer	60.172	0.472	0.2	1.1	O K
1440 min Summer	60.065	0.365	0.1	0.9	O K
2160 min Summer	59.954	0.254	0.1	0.6	O K
2880 min Summer	59.878	0.178	0.1	0.4	O K
4320 min Summer	59.785	0.085	0.1	0.2	O K
5760 min Summer	59.748	0.048	0.1	0.1	O K
7200 min Summer	59.741	0.041	0.1	0.1	O K
8640 min Summer	59.735	0.035	0.1	0.1	O K
10080 min Summer	59.731	0.031	0.1	0.1	O K
15 min Winter	60.266	0.566	0.2	1.3	O K

Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)
15 min Summer	69.884	0.0	18
30 min Summer	46.187	0.0	32
60 min Summer	29.238	0.0	58
120 min Summer	17.975	0.0	90
180 min Summer	13.378	0.0	124
240 min Summer	10.798	0.0	158
360 min Summer	7.956	0.0	228
480 min Summer	6.404	0.0	294
600 min Summer	5.409	0.0	362
720 min Summer	4.710	0.0	426
960 min Summer	3.783	0.0	552
1440 min Summer	2.775	0.0	806
2160 min Summer	2.033	0.0	1168
2880 min Summer	1.629	0.0	1528
4320 min Summer	1.191	0.0	2244
5760 min Summer	0.952	0.0	2920
7200 min Summer	0.801	0.0	3672
8640 min Summer	0.695	0.0	4320
10080 min Summer	0.616	0.0	5136
15 min Winter	69.884	0.0	18

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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	60.411	0.711	0.2	1.7	O K
60 min Winter	60.514	0.814	0.2	1.9	O K
120 min Winter	60.633	0.933	0.2	2.0	O K
180 min Winter	60.572	0.872	0.2	2.0	O K
240 min Winter	60.499	0.799	0.2	1.9	O K
360 min Winter	60.423	0.723	0.2	1.7	O K
480 min Winter	60.354	0.654	0.2	1.6	O K
600 min Winter	60.292	0.592	0.2	1.4	O K
720 min Winter	60.237	0.537	0.2	1.3	O K
960 min Winter	60.144	0.444	0.2	1.1	O K
1440 min Winter	60.009	0.309	0.1	0.7	O K
2160 min Winter	59.878	0.178	0.1	0.4	O K
2880 min Winter	59.796	0.096	0.1	0.2	O K
4320 min Winter	59.744	0.044	0.1	0.1	O K
5760 min Winter	59.735	0.035	0.1	0.1	O K
7200 min Winter	59.729	0.029	0.0	0.1	O K
8640 min Winter	59.726	0.026	0.0	0.1	O K
10080 min Winter	59.723	0.023	0.0	0.1	O K

Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)
30 min Winter	46.187	0.0	31
60 min Winter	29.238	0.0	58
120 min Winter	17.975	0.0	94
180 min Winter	13.378	0.0	134
240 min Winter	10.798	0.0	170
360 min Winter	7.956	0.0	244
480 min Winter	6.404	0.0	314
600 min Winter	5.409	0.0	382
720 min Winter	4.710	0.0	450
960 min Winter	3.783	0.0	580
1440 min Winter	2.775	0.0	836
2160 min Winter	2.033	0.0	1208
2880 min Winter	1.629	0.0	1556
4320 min Winter	1.191	0.0	2204
5760 min Winter	0.952	0.0	2936
7200 min Winter	0.801	0.0	3664
8640 min Winter	0.695	0.0	4352
10080 min Winter	0.616	0.0	5128

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Rainfall Details

Rainfall Model	FSR	Winter Storms	Yes
Return Period (years)	30	Cv (Summer)	0.750
Region	England and Wales	Cv (Winter)	0.840
M5-60 (mm)	19.000	Shortest Storm (mins)	15
Ratio R	0.366	Longest Storm (mins)	10080
Summer Storms	Yes	Climate Change %	+0

Time Area Diagram

Total Area (ha) 0.010

Time (mins) From:	To:	Area (ha)
0	4	0.010

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Model Details

Storage is Online Cover Level (m) 61.500

Cellular Storage Structure

Invert Level (m) 59.700 Safety Factor 2.0
Infiltration Coefficient Base (m/hr) 0.20412 Porosity 0.95
Infiltration Coefficient Side (m/hr) 0.20412

Depth (m)	Area (m²)	Inf. Area (m²)	Depth (m)	Area (m²)	Inf. Area (m²)
0.000	2.5	2.5	0.900	0.0	8.1
0.800	2.5	8.1			

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