Summary of Results for 30 year Return Period

Half Drain Time : 146 minutes.

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
15 min Summer	58.487	0.487	0.5	4.6	O K
30 min Summer	58.617	0.617	0.5	5.9	O K
60 min Summer	58.720	0.720	0.6	6.8	O K
120 min Summer	58.766	0.766	0.6	7.3	O K
180 min Summer	58.768	0.768	0.6	7.3	O K
240 min Summer	58.756	0.756	0.6	7.2	O K
360 min Summer	58.719	0.719	0.6	6.8	O K
480 min Summer	58.681	0.681	0.6	6.5	O K
600 min Summer	58.644	0.644	0.5	6.1	O K
720 min Summer	58.609	0.609	0.5	5.8	O K
960 min Summer	58.543	0.543	0.5	5.2	O K
1440 min Summer	58.431	0.431	0.5	4.1	O K
2160 min Summer	58.303	0.303	0.4	2.9	O K
2880 min Summer	58.210	0.210	0.4	2.0	O K
4320 min Summer	58.094	0.094	0.3	0.9	O K
5760 min Summer	58.049	0.049	0.3	0.5	O K
7200 min Summer	58.041	0.041	0.3	0.4	O K
8640 min Summer	58.036	0.036	0.2	0.3	O K
10080 min Summer	58.032	0.032	0.2	0.3	O K
15 min Winter	58.548	0.548	0.5	5.2	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	62
120 min Summer	17.975	0.0	104
180 min Summer	13.378	0.0	134
240 min Summer	10.798	0.0	168
360 min Summer	7.956	0.0	238
480 min Summer	6.404	0.0	308
600 min Summer	5.409	0.0	376
720 min Summer	4.710	0.0	442
960 min Summer	3.783	0.0	576
1440 min Summer	2.775	0.0	834
2160 min Summer	2.033	0.0	1192
2880 min Summer	1.629	0.0	1556
4320 min Summer	1.191	0.0	2248
5760 min Summer	0.952	0.0	2912
7200 min Summer	0.801	0.0	3648
8640 min Summer	0.695	0.0	4368
10080 min Summer	0.616	0.0	5072
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	58.698	0.698	0.6	6.6	O K
60 min Winter	58.831	0.831	0.6	7.8	O K
120 min Winter	59.412	1.412	0.6	8.4	O K
180 min Winter	59.390	1.390	0.6	8.4	O K
240 min Winter	59.221	1.221	0.6	8.2	O K
360 min Winter	58.810	0.810	0.6	7.7	O K
480 min Winter	58.751	0.751	0.6	7.1	O K
600 min Winter	58.695	0.695	0.6	6.6	O K
720 min Winter	58.641	0.641	0.5	6.1	O K
960 min Winter	58.545	0.545	0.5	5.2	O K
1440 min Winter	58.390	0.390	0.4	3.7	O K
2160 min Winter	58.224	0.224	0.4	2.1	O K
2880 min Winter	58.114	0.114	0.3	1.1	O K
4320 min Winter	58.044	0.044	0.3	0.4	O K
5760 min Winter	58.035	0.035	0.2	0.3	O K
7200 min Winter	58.030	0.030	0.2	0.3	O K
8640 min Winter	58.026	0.026	0.2	0.2	O K
10080 min Winter	58.023	0.023	0.1	0.2	O K

Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)
30 min Winter	46.187	0.0	32
60 min Winter	29.238	0.0	60
120 min Winter	17.975	0.0	114
180 min Winter	13.378	0.0	144
240 min Winter	10.798	0.0	182
360 min Winter	7.956	0.0	258
480 min Winter	6.404	0.0	332
600 min Winter	5.409	0.0	404
720 min Winter	4.710	0.0	474
960 min Winter	3.783	0.0	610
1440 min Winter	2.775	0.0	868
2160 min Winter	2.033	0.0	1252
2880 min Winter	1.629	0.0	1588
4320 min Winter	1.191	0.0	2200
5760 min Winter	0.952	0.0	2936
7200 min Winter	0.801	0.0	3576
8640 min Winter	0.695	0.0	4392
10080 min Winter	0.616	0.0	5136

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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) 0.038

Time (mins) From:	To:	Area (ha)
0	4	0.038

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Model Details

Storage is Online Cover Level (m) 59.800

Cellular Storage Structure

Invert Level (m) 58.000 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	10.0	10.0	0.900	0.0	21.2
0.800	10.0	21.2			

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