Summary of Results for 30 year Return Period

Half Drain Time : 143 minutes.

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
15 min Summer	56.834	0.534	0.3	3.0	O K
30 min Summer	56.976	0.676	0.4	3.9	O K
60 min Summer	57.087	0.787	0.4	4.5	O K
120 min Summer	57.224	0.924	0.4	4.8	O K
180 min Summer	57.242	0.942	0.4	4.8	O K
240 min Summer	57.143	0.843	0.4	4.7	O K
360 min Summer	57.086	0.786	0.4	4.5	O K
480 min Summer	57.044	0.744	0.4	4.2	O K
600 min Summer	57.004	0.704	0.4	4.0	O K
720 min Summer	56.966	0.666	0.4	3.8	O K
960 min Summer	56.896	0.596	0.3	3.4	O K
1440 min Summer	56.778	0.478	0.3	2.7	O K
2160 min Summer	56.646	0.346	0.3	2.0	O K
2880 min Summer	56.549	0.249	0.2	1.4	O K
4320 min Summer	56.423	0.123	0.2	0.7	O K
5760 min Summer	56.359	0.059	0.2	0.3	O K
7200 min Summer	56.344	0.044	0.2	0.3	O K
8640 min Summer	56.339	0.039	0.1	0.2	O K
10080 min Summer	56.334	0.034	0.1	0.2	O K
15 min Winter	56.901	0.601	0.3	3.4	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	60
120 min Summer	17.975	0.0	102
180 min Summer	13.378	0.0	134
240 min Summer	10.798	0.0	168
360 min Summer	7.956	0.0	236
480 min Summer	6.404	0.0	306
600 min Summer	5.409	0.0	374
720 min Summer	4.710	0.0	440
960 min Summer	3.783	0.0	570
1440 min Summer	2.775	0.0	824
2160 min Summer	2.033	0.0	1192
2880 min Summer	1.629	0.0	1560
4320 min Summer	1.191	0.0	2252
5760 min Summer	0.952	0.0	2944
7200 min Summer	0.801	0.0	3672
8640 min Summer	0.695	0.0	4400
10080 min Summer	0.616	0.0	5112
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	57.064	0.764	0.4	4.4	O K
60 min Winter	57.584	1.284	0.4	5.1	O K
120 min Winter	57.993	1.693	0.4	5.5	Flood Risk
180 min Winter	57.980	1.680	0.4	5.5	Flood Risk
240 min Winter	57.869	1.569	0.4	5.4	Flood Risk
360 min Winter	57.492	1.192	0.4	5.0	O K
480 min Winter	57.119	0.819	0.4	4.6	O K
600 min Winter	57.054	0.754	0.4	4.3	O K
720 min Winter	56.997	0.697	0.4	4.0	O K
960 min Winter	56.897	0.597	0.3	3.4	O K
1440 min Winter	56.736	0.436	0.3	2.5	O K
2160 min Winter	56.567	0.267	0.2	1.5	O K
2880 min Winter	56.453	0.153	0.2	0.9	O K
4320 min Winter	56.348	0.048	0.2	0.3	O K
5760 min Winter	56.338	0.038	0.1	0.2	O K
7200 min Winter	56.332	0.032	0.1	0.2	O K
8640 min Winter	56.328	0.028	0.1	0.2	O K
10080 min Winter	56.325	0.025	0.1	0.1	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	328
600 min Winter	5.409	0.0	400
720 min Winter	4.710	0.0	470
960 min Winter	3.783	0.0	606
1440 min Winter	2.775	0.0	866
2160 min Winter	2.033	0.0	1236
2880 min Winter	1.629	0.0	1588
4320 min Winter	1.191	0.0	2180
5760 min Winter	0.952	0.0	2920
7200 min Winter	0.801	0.0	3656
8640 min Winter	0.695	0.0	4408
10080 min Winter	0.616	0.0	5088

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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) 0.025

Time (mins) From:	To:	Area (ha)
0	4	0.025

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Model Details

Storage is Online Cover Level (m) 58.100

Cellular Storage Structure

Invert Level (m) 56.300 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	6.0	6.0	0.900	0.0	14.0
0.800	6.0	14.0			

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