Summary of Results for 30 year Return Period

Half Drain Time : 137 minutes.

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
15 min Summer	57.368	0.468	0.4	4.0	O K
30 min Summer	57.493	0.593	0.5	5.1	O K
60 min Summer	57.591	0.691	0.5	5.9	O K
120 min Summer	57.632	0.732	0.5	6.3	O K
180 min Summer	57.633	0.733	0.5	6.3	O K
240 min Summer	57.620	0.720	0.5	6.2	O K
360 min Summer	57.583	0.683	0.5	5.8	O K
480 min Summer	57.546	0.646	0.5	5.5	O K
600 min Summer	57.510	0.610	0.5	5.2	O K
720 min Summer	57.475	0.575	0.5	4.9	O K
960 min Summer	57.410	0.510	0.4	4.4	O K
1440 min Summer	57.301	0.401	0.4	3.4	O K
2160 min Summer	57.177	0.277	0.4	2.4	O K
2880 min Summer	57.089	0.189	0.3	1.6	O K
4320 min Summer	56.981	0.081	0.3	0.7	O K
5760 min Summer	56.947	0.047	0.3	0.4	O K
7200 min Summer	56.940	0.040	0.2	0.3	O K
8640 min Summer	56.934	0.034	0.2	0.3	O K
10080 min Summer	56.931	0.031	0.2	0.3	O K
15 min Winter	57.428	0.528	0.4	4.5	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	442
960 min Summer	3.783	0.0	572
1440 min Summer	2.775	0.0	824
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	2936
7200 min Summer	0.801	0.0	3664
8640 min Summer	0.695	0.0	4328
10080 min Summer	0.616	0.0	5128
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	57.572	0.672	0.5	5.7	O K
60 min Winter	57.689	0.789	0.5	6.7	O K
120 min Winter	57.897	0.997	0.5	7.2	O K
180 min Winter	57.874	0.974	0.5	7.2	O K
240 min Winter	57.732	0.832	0.5	7.0	O K
360 min Winter	57.667	0.767	0.5	6.6	O K
480 min Winter	57.609	0.709	0.5	6.1	O K
600 min Winter	57.554	0.654	0.5	5.6	O K
720 min Winter	57.502	0.602	0.5	5.1	O K
960 min Winter	57.408	0.508	0.4	4.3	O K
1440 min Winter	57.257	0.357	0.4	3.1	O K
2160 min Winter	57.099	0.199	0.3	1.7	O K
2880 min Winter	56.995	0.095	0.3	0.8	O K
4320 min Winter	56.942	0.042	0.2	0.4	O K
5760 min Winter	56.934	0.034	0.2	0.3	O K
7200 min Winter	56.929	0.029	0.2	0.2	O K
8640 min Winter	56.925	0.025	0.1	0.2	O K
10080 min Winter	56.922	0.022	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	142
240 min Winter	10.798	0.0	180
360 min Winter	7.956	0.0	256
480 min Winter	6.404	0.0	330
600 min Winter	5.409	0.0	402
720 min Winter	4.710	0.0	472
960 min Winter	3.783	0.0	608
1440 min Winter	2.775	0.0	866
2160 min Winter	2.033	0.0	1236
2880 min Winter	1.629	0.0	1584
4320 min Winter	1.191	0.0	2204
5760 min Winter	0.952	0.0	2928
7200 min Winter	0.801	0.0	3680
8640 min Winter	0.695	0.0	4360
10080 min Winter	0.616	0.0	5064

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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) 0.033

Time (mins) From:	To:	Area (ha)
0	4	0.033

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Model Details

Storage is Online Cover Level (m) 59.000

Cellular Storage Structure

Invert Level (m) 56.900 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	9.0	9.0	0.900	0.0	19.4
0.800	9.0	19.4			

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