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	58.947	0.447	0.5	5.1	O K
30 min Summer	59.066	0.566	0.6	6.5	O K
60 min Summer	59.159	0.659	0.6	7.5	O K
120 min Summer	59.199	0.699	0.7	8.0	O K
180 min Summer	59.199	0.699	0.7	8.0	O K
240 min Summer	59.187	0.687	0.7	7.8	O K
360 min Summer	59.151	0.651	0.6	7.4	O K
480 min Summer	59.115	0.615	0.6	7.0	O K
600 min Summer	59.080	0.580	0.6	6.6	O K
720 min Summer	59.046	0.546	0.6	6.2	O K
960 min Summer	58.983	0.483	0.6	5.5	O K
1440 min Summer	58.876	0.376	0.5	4.3	O K
2160 min Summer	58.756	0.256	0.5	2.9	O K
2880 min Summer	58.670	0.170	0.4	1.9	O K
4320 min Summer	58.569	0.069	0.4	0.8	O K
5760 min Summer	58.545	0.045	0.3	0.5	O K
7200 min Summer	58.538	0.038	0.3	0.4	O K
8640 min Summer	58.533	0.033	0.2	0.4	O K
10080 min Summer	58.529	0.029	0.2	0.3	O K
15 min Winter	59.004	0.504	0.6	5.7	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	102
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	306
600 min Summer	5.409	0.0	374
720 min Summer	4.710	0.0	442
960 min Summer	3.783	0.0	576
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	2244
5760 min Summer	0.952	0.0	2936
7200 min Summer	0.801	0.0	3672
8640 min Summer	0.695	0.0	4400
10080 min Summer	0.616	0.0	5120
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	59.141	0.641	0.6	7.3	O K
60 min Winter	59.253	0.753	0.7	8.6	O K
120 min Winter	59.306	0.806	0.7	9.2	O K
180 min Winter	59.303	0.803	0.7	9.2	O K
240 min Winter	59.285	0.785	0.7	9.0	O K
360 min Winter	59.232	0.732	0.7	8.3	O K
480 min Winter	59.177	0.677	0.6	7.7	O K
600 min Winter	59.123	0.623	0.6	7.1	O K
720 min Winter	59.072	0.572	0.6	6.5	O K
960 min Winter	58.980	0.480	0.6	5.5	O K
1440 min Winter	58.833	0.333	0.5	3.8	O K
2160 min Winter	58.677	0.177	0.4	2.0	O K
2880 min Winter	58.578	0.078	0.4	0.9	O K
4320 min Winter	58.541	0.041	0.3	0.5	O K
5760 min Winter	58.533	0.033	0.2	0.4	O K
7200 min Winter	58.528	0.028	0.2	0.3	O K
8640 min Winter	58.524	0.024	0.2	0.3	O K
10080 min Winter	58.521	0.021	0.2	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	404
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	1232
2880 min Winter	1.629	0.0	1556
4320 min Winter	1.191	0.0	2200
5760 min Winter	0.952	0.0	2888
7200 min Winter	0.801	0.0	3664
8640 min Winter	0.695	0.0	4400
10080 min Winter	0.616	0.0	5192

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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) 0.042

Time (mins) From:	To:	Area (ha)
0	4	0.042

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Model Details

Storage is Online Cover Level (m) 60.250

Cellular Storage Structure

Invert Level (m) 58.500 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	12.0	12.0	0.900	0.0	24.8
0.800	12.0	24.8			

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