Summary of Results for 30 year Return Period

Half Drain Time : 111 minutes.

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
15 min Summer	53.555	0.505	0.2	1.9	O K
30 min Summer	53.686	0.636	0.3	2.4	O K
60 min Summer	53.782	0.732	0.3	2.8	O K
120 min Summer	53.821	0.771	0.3	2.9	O K
180 min Summer	53.819	0.769	0.3	2.9	O K
240 min Summer	53.803	0.753	0.3	2.9	O K
360 min Summer	53.758	0.708	0.3	2.7	O K
480 min Summer	53.715	0.665	0.3	2.5	O K
600 min Summer	53.674	0.624	0.3	2.4	O K
720 min Summer	53.635	0.585	0.3	2.2	O K
960 min Summer	53.565	0.515	0.2	2.0	O K
1440 min Summer	53.452	0.402	0.2	1.5	O K
2160 min Summer	53.330	0.280	0.2	1.1	O K
2880 min Summer	53.244	0.194	0.2	0.7	O K
4320 min Summer	53.139	0.089	0.1	0.3	O K
5760 min Summer	53.098	0.048	0.1	0.2	O K
7200 min Summer	53.091	0.041	0.1	0.2	O K
8640 min Summer	53.085	0.035	0.1	0.1	O K
10080 min Summer	53.081	0.031	0.1	0.1	O K
15 min Winter	53.619	0.569	0.3	2.2	O K

Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)
15 min Summer	69.625	0.0	18
30 min Summer	46.099	0.0	32
60 min Summer	29.238	0.0	60
120 min Summer	18.009	0.0	94
180 min Summer	13.416	0.0	128
240 min Summer	10.836	0.0	162
360 min Summer	7.992	0.0	232
480 min Summer	6.438	0.0	300
600 min Summer	5.441	0.0	368
720 min Summer	4.740	0.0	434
960 min Summer	3.810	0.0	560
1440 min Summer	2.797	0.0	810
2160 min Summer	2.051	0.0	1188
2880 min Summer	1.644	0.0	1532
4320 min Summer	1.203	0.0	2248
5760 min Summer	0.963	0.0	2928
7200 min Summer	0.810	0.0	3632
8640 min Summer	0.703	0.0	4336
10080 min Summer	0.624	0.0	5032
15 min Winter	69.625	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	53.770	0.720	0.3	2.7	O K
60 min Winter	53.963	0.913	0.3	3.2	O K
120 min Winter	54.143	1.093	0.3	3.4	O K
180 min Winter	54.124	1.074	0.3	3.3	O K
240 min Winter	54.019	0.969	0.3	3.2	O K
360 min Winter	53.830	0.780	0.3	3.0	O K
480 min Winter	53.764	0.714	0.3	2.7	O K
600 min Winter	53.703	0.653	0.3	2.5	O K
720 min Winter	53.647	0.597	0.3	2.3	O K
960 min Winter	53.549	0.499	0.2	1.9	O K
1440 min Winter	53.400	0.350	0.2	1.3	O K
2160 min Winter	53.249	0.199	0.2	0.8	O K
2880 min Winter	53.153	0.103	0.1	0.4	O K
4320 min Winter	53.093	0.043	0.1	0.2	O K
5760 min Winter	53.085	0.035	0.1	0.1	O K
7200 min Winter	53.079	0.029	0.1	0.1	O K
8640 min Winter	53.076	0.026	0.1	0.1	O K
10080 min Winter	53.073	0.023	0.1	0.1	O K

Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)
30 min Winter	46.099	0.0	32
60 min Winter	29.238	0.0	60
120 min Winter	18.009	0.0	100
180 min Winter	13.416	0.0	138
240 min Winter	10.836	0.0	176
360 min Winter	7.992	0.0	250
480 min Winter	6.438	0.0	322
600 min Winter	5.441	0.0	392
720 min Winter	4.740	0.0	460
960 min Winter	3.810	0.0	596
1440 min Winter	2.797	0.0	852
2160 min Winter	2.051	0.0	1216
2880 min Winter	1.644	0.0	1560
4320 min Winter	1.203	0.0	2204
5760 min Winter	0.963	0.0	2936
7200 min Winter	0.810	0.0	3552
8640 min Winter	0.703	0.0	4376
10080 min Winter	0.624	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	0.362	Longest Storm (mins)	10080
Summer Storms	Yes	Climate Change %	+0

Time Area Diagram

Total Area (ha) 0.016

Time (mins) From:	To:	Area (ha)
0	4	0.016

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Model Details

Storage is Online Cover Level (m) 55.000

Cellular Storage Structure

Invert Level (m) 53.050 Safety Factor 2.0
Infiltration Coefficient Base (m/hr) 0.21400 Porosity 0.95
Infiltration Coefficient Side (m/hr) 0.21400

Depth (m)	Area (m²)	Inf. Area (m²)	Depth (m)	Area (m²)	Inf. Area (m²)
0.000	4.0	4.0	0.900	0.0	10.4
0.800	4.0	10.4			

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