Summary of Results for 30 year Return Period

Half Drain Time : 166 minutes.

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
15 min Summer	56.401	1.301	2.7	27.5	O K
30 min Summer	56.787	1.687	3.1	35.0	O K
60 min Summer	57.256	2.156	3.1	41.3	O K
120 min Summer	57.513	2.413	3.1	44.8	O K
180 min Summer	57.548	2.448	3.1	45.3	O K
240 min Summer	57.516	2.416	3.1	44.9	O K
360 min Summer	57.377	2.277	3.1	43.0	O K
480 min Summer	57.213	2.113	3.1	40.8	O K
600 min Summer	57.052	1.952	3.1	38.6	O K
720 min Summer	56.901	1.801	3.1	36.5	O K
960 min Summer	56.659	1.559	3.0	33.0	O K
1440 min Summer	56.403	1.303	2.7	27.6	O K
2160 min Summer	56.114	1.014	2.3	21.5	O K
2880 min Summer	55.900	0.800	2.1	16.9	O K
4320 min Summer	55.605	0.505	1.7	10.7	O K
5760 min Summer	55.410	0.310	1.5	6.6	O K
7200 min Summer	55.279	0.179	1.3	3.8	O K
8640 min Summer	55.191	0.091	1.2	1.9	O K
10080 min Summer	55.149	0.049	1.1	1.0	O K
15 min Winter	56.565	1.465	2.9	31.0	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	112
180 min Summer	13.378	0.0	142
240 min Summer	10.798	0.0	174
360 min Summer	7.956	0.0	242
480 min Summer	6.404	0.0	310
600 min Summer	5.409	0.0	378
720 min Summer	4.710	0.0	444
960 min Summer	3.783	0.0	576
1440 min Summer	2.775	0.0	834
2160 min Summer	2.033	0.0	1208
2880 min Summer	1.629	0.0	1584
4320 min Summer	1.191	0.0	2292
5760 min Summer	0.952	0.0	3008
7200 min Summer	0.801	0.0	3744
8640 min Summer	0.695	0.0	4408
10080 min Summer	0.616	0.0	5096
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	57.130	2.030	3.1	39.6	O K
60 min Winter	57.694	2.594	3.1	47.3	O K
120 min Winter	58.050	2.950	3.1	52.1	Flood Risk
180 min Winter	58.072	2.972	3.1	52.4	Flood Risk
240 min Winter	58.027	2.927	3.1	51.8	Flood Risk
360 min Winter	57.833	2.733	3.1	49.2	Flood Risk
480 min Winter	57.586	2.486	3.1	45.8	O K
600 min Winter	57.327	2.227	3.1	42.3	O K
720 min Winter	57.085	1.985	3.1	39.0	O K
960 min Winter	56.687	1.587	3.0	33.6	O K
1440 min Winter	56.338	1.238	2.6	26.2	O K
2160 min Winter	55.970	0.870	2.2	18.4	O K
2880 min Winter	55.716	0.616	1.9	13.0	O K
4320 min Winter	55.390	0.290	1.5	6.1	O K
5760 min Winter	55.197	0.097	1.2	2.1	O K
7200 min Winter	55.146	0.046	1.1	1.0	O K
8640 min Winter	55.140	0.040	0.9	0.8	O K
10080 min Winter	55.135	0.035	0.8	0.7	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	116
180 min Winter	13.378	0.0	166
240 min Winter	10.798	0.0	188
360 min Winter	7.956	0.0	264
480 min Winter	6.404	0.0	338
600 min Winter	5.409	0.0	410
720 min Winter	4.710	0.0	478
960 min Winter	3.783	0.0	606
1440 min Winter	2.775	0.0	868
2160 min Winter	2.033	0.0	1252
2880 min Winter	1.629	0.0	1616
4320 min Winter	1.191	0.0	2336
5760 min Winter	0.952	0.0	3048
7200 min Winter	0.801	0.0	3608
8640 min Winter	0.695	0.0	4312
10080 min Winter	0.616	0.0	5112

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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) 0.225

Time (mins) From:	To:	Area (ha)
0	4	0.225

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Model Details

Storage is Online Cover Level (m) 58.100

Lined Soakaway Structure

Infiltration Coefficient Base (m/hr)	0.20412	Ring Diameter (m)	2.40
Infiltration Coefficient Side (m/hr)	0.20412	Pit Multiplier	1.5
Safety Factor	2.0	Number Required	3
Porosity	0.30	Cap Volume Depth (m)	0.000
Invert Level (m)	55.100	Cap Infiltration Depth (m)	1.591

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