Summary of Results for 100 year Return Period (+30%)

Half Drain Time : 62 minutes.

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
15 min Summer	11.246	0.246	0.3	1.5	O K
30 min Summer	11.307	0.307	0.3	1.9	O K
60 min Summer	11.342	0.342	0.4	2.1	O K
120 min Summer	11.351	0.351	0.4	2.2	O K
180 min Summer	11.338	0.338	0.4	2.1	O K
240 min Summer	11.320	0.320	0.4	2.0	O K
360 min Summer	11.283	0.283	0.3	1.7	O K
480 min Summer	11.249	0.249	0.3	1.5	O K
600 min Summer	11.219	0.219	0.3	1.4	O K
720 min Summer	11.193	0.193	0.3	1.2	O K
960 min Summer	11.149	0.149	0.3	0.9	O K
1440 min Summer	11.088	0.088	0.2	0.5	O K
2160 min Summer	11.049	0.049	0.2	0.3	O K
2880 min Summer	11.039	0.039	0.2	0.2	O K
4320 min Summer	11.029	0.029	0.1	0.2	O K
5760 min Summer	11.023	0.023	0.1	0.1	O K
7200 min Summer	11.019	0.019	0.1	0.1	O K
8640 min Summer	11.017	0.017	0.1	0.1	O K
10080 min Summer	11.015	0.015	0.1	0.1	O K
15 min Winter	11.278	0.278	0.3	1.7	O K

Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)
15 min Summer	115.731	0.0	17
30 min Summer	77.804	0.0	31
60 min Summer	49.937	0.0	52
120 min Summer	30.956	0.0	84
180 min Summer	23.058	0.0	120
240 min Summer	18.577	0.0	154
360 min Summer	13.656	0.0	220
480 min Summer	10.974	0.0	286
600 min Summer	9.254	0.0	350
720 min Summer	8.046	0.0	412
960 min Summer	6.447	0.0	532
1440 min Summer	4.709	0.0	766
2160 min Summer	3.432	0.0	1100
2880 min Summer	2.739	0.0	1468
4320 min Summer	1.989	0.0	2200
5760 min Summer	1.583	0.0	2928
7200 min Summer	1.325	0.0	3584
8640 min Summer	1.147	0.0	4400
10080 min Summer	1.015	0.0	4984
15 min Winter	115.731	0.0	17

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Summary of Results for 100 year Return Period (+30%)

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
30 min Winter	11.349	0.349	0.4	2.2	O K
60 min Winter	11.392	0.392	0.4	2.4	O K
120 min Winter	11.398	0.398	0.4	2.5	O K
180 min Winter	11.377	0.377	0.4	2.3	O K
240 min Winter	11.349	0.349	0.4	2.2	O K
360 min Winter	11.293	0.293	0.3	1.8	O K
480 min Winter	11.244	0.244	0.3	1.5	O K
600 min Winter	11.202	0.202	0.3	1.2	O K
720 min Winter	11.166	0.166	0.3	1.0	O K
960 min Winter	11.109	0.109	0.3	0.7	O K
1440 min Winter	11.049	0.049	0.2	0.3	O K
2160 min Winter	11.036	0.036	0.2	0.2	O K
2880 min Winter	11.029	0.029	0.1	0.2	O K
4320 min Winter	11.021	0.021	0.1	0.1	O K
5760 min Winter	11.017	0.017	0.1	0.1	O K
7200 min Winter	11.014	0.014	0.1	0.1	O K
8640 min Winter	11.012	0.012	0.1	0.1	O K
10080 min Winter	11.011	0.011	0.0	0.1	O K

Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)
30 min Winter	77.804	0.0	31
60 min Winter	49.937	0.0	56
120 min Winter	30.956	0.0	92
180 min Winter	23.058	0.0	130
240 min Winter	18.577	0.0	166
360 min Winter	13.656	0.0	236
480 min Winter	10.974	0.0	304
600 min Winter	9.254	0.0	368
720 min Winter	8.046	0.0	432
960 min Winter	6.447	0.0	550
1440 min Winter	4.709	0.0	740
2160 min Winter	3.432	0.0	1104
2880 min Winter	2.739	0.0	1436
4320 min Winter	1.989	0.0	2204
5760 min Winter	1.583	0.0	2896
7200 min Winter	1.325	0.0	3656
8640 min Winter	1.147	0.0	4384
10080 min Winter	1.015	0.0	4960

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Rainfall Details

Rainfall Model	FSR	Winter Storms	Yes
Return Period (years)	100	Cv (Summer)	0.750
Region	England and Wales	Cv (Winter)	0.840
M5-60 (mm)	19.000	Shortest Storm (mins)	15
Ratio R	0.350	Longest Storm (mins)	10080
Summer Storms	Yes	Climate Change %	+30

Time Area Diagram

Total Area (ha) 0.008

Time (mins) From:	To:	Area (ha)
0	4	0.008

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Model Details

Storage is Online Cover Level (m) 12.000

Cellular Storage Structure

Invert Level (m)	11.000
Infiltration Coefficient Base (m/hr)	0.16757
Infiltration Coefficient Side (m/hr)	0.16757
Safety Factor	1.5
Porosity	0.95

Depth (m)	Area (m²)	Inf. Area (m²)	Depth (m)	Area (m²)	Inf. Area (m²)
0.000	6.5	6.5	0.500	0.0	12.5
0.400	6.5	12.5			

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