Summary of Results for 10 year Return Period (+30%)

Half Drain Time : 415 minutes.

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
15 min Summer	-2.004	0.496	0.2	4.1	O K
30 min Summer	-1.856	0.644	0.2	5.4	O K
60 min Summer	-1.706	0.794	0.2	6.6	O K
120 min Summer	-1.570	0.930	0.2	7.7	O K
180 min Summer	-1.508	0.992	0.2	8.3	O K
240 min Summer	-1.479	1.021	0.2	8.5	O K
360 min Summer	-1.459	1.041	0.2	8.7	O K
480 min Summer	-1.452	1.048	0.2	8.7	O K
600 min Summer	-1.453	1.047	0.2	8.7	O K
720 min Summer	-1.459	1.041	0.2	8.7	O K
960 min Summer	-1.480	1.020	0.2	8.5	O K
1440 min Summer	-1.535	0.965	0.2	8.0	O K
2160 min Summer	-1.617	0.883	0.2	7.4	O K
2880 min Summer	-1.692	0.808	0.2	6.7	O K
4320 min Summer	-1.823	0.677	0.2	5.6	O K
5760 min Summer	-1.931	0.569	0.2	4.7	O K
7200 min Summer	-2.020	0.480	0.2	4.0	O K
8640 min Summer	-2.094	0.406	0.1	3.4	O K
10080 min Summer	-2.157	0.343	0.1	2.9	O K
15 min Winter	-1.944	0.556	0.2	4.6	O K

Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)
15 min Summer	70.770	0.0	19
30 min Summer	46.698	0.0	33
60 min Summer	29.629	0.0	62
120 min Summer	18.344	0.0	122
180 min Summer	13.747	0.0	182
240 min Summer	11.169	0.0	240
360 min Summer	8.317	0.0	308
480 min Summer	6.743	0.0	372
600 min Summer	5.728	0.0	434
720 min Summer	5.011	0.0	504
960 min Summer	4.057	0.0	644
1440 min Summer	3.009	0.0	922
2160 min Summer	2.231	0.0	1324
2880 min Summer	1.803	0.0	1728
4320 min Summer	1.335	0.0	2508
5760 min Summer	1.078	0.0	3280
7200 min Summer	0.913	0.0	4032
8640 min Summer	0.798	0.0	4752
10080 min Summer	0.711	0.0	5448
15 min Winter	70.770	0.0	18

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Summary of Results for 10 year Return Period (+30%)

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
30 min Winter	-1.776	0.724	0.2	6.0	O K
60 min Winter	-1.605	0.895	0.2	7.4	O K
120 min Winter	-1.447	1.053	0.2	8.8	O K
180 min Winter	-1.371	1.129	0.2	9.4	O K
240 min Winter	-1.332	1.168	0.2	9.7	O K
360 min Winter	-1.305	1.195	0.2	9.9	O K
480 min Winter	-1.301	1.199	0.2	10.0	O K
600 min Winter	-1.303	1.197	0.2	10.0	O K
720 min Winter	-1.313	1.187	0.2	9.9	O K
960 min Winter	-1.347	1.153	0.2	9.6	O K
1440 min Winter	-1.434	1.066	0.2	8.9	O K
2160 min Winter	-1.561	0.939	0.2	7.8	O K
2880 min Winter	-1.673	0.827	0.2	6.9	O K
4320 min Winter	-1.858	0.642	0.2	5.3	O K
5760 min Winter	-2.002	0.498	0.2	4.1	O K
7200 min Winter	-2.115	0.385	0.1	3.2	O K
8640 min Winter	-2.205	0.295	0.1	2.5	O K
10080 min Winter	-2.279	0.221	0.1	1.8	O K

Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)
30 min Winter	46.698	0.0	33
60 min Winter	29.629	0.0	62
120 min Winter	18.344	0.0	120
180 min Winter	13.747	0.0	176
240 min Winter	11.169	0.0	232
360 min Winter	8.317	0.0	338
480 min Winter	6.743	0.0	384
600 min Winter	5.728	0.0	460
720 min Winter	5.011	0.0	538
960 min Winter	4.057	0.0	692
1440 min Winter	3.009	0.0	994
2160 min Winter	2.231	0.0	1424
2880 min Winter	1.803	0.0	1844
4320 min Winter	1.335	0.0	2636
5760 min Winter	1.078	0.0	3400
7200 min Winter	0.913	0.0	4176
8640 min Winter	0.798	0.0	4920
10080 min Winter	0.711	0.0	5640

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Rainfall Details

Rainfall Model	FSR	Winter Storms	Yes
Return Period (years)	10	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) 0.032

Time (mins) From:	To:	Area (ha)
0	4	0.032

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Model Details

Storage is Online Cover Level (m) 0.000

Trench Soakaway Structure

Infiltration Coefficient Base (m/hr)	0.03499	Trench Width (m)	1.5
Infiltration Coefficient Side (m/hr)	0.03499	Trench Length (m)	18.5
Safety Factor	3.0	Slope (1:X)	0.0
Porosity	0.30	Cap Volume Depth (m)	2.200
Invert Level (m)	-2.500	Cap Infiltration Depth (m)	2.200

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