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

Half Drain Time : 612 minutes.

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
15 min Summer	-1.884	0.616	0.1	5.3	O K
30 min Summer	-1.688	0.812	0.2	6.9	O K
60 min Summer	-1.484	1.016	0.2	8.7	O K
120 min Summer	-1.287	1.213	0.2	10.4	O K
180 min Summer	-1.188	1.312	0.2	11.2	O K
240 min Summer	-1.133	1.367	0.2	11.7	O K
360 min Summer	-1.082	1.418	0.2	12.1	O K
480 min Summer	-1.067	1.433	0.2	12.3	O K
600 min Summer	-1.059	1.441	0.2	12.3	O K
720 min Summer	-1.057	1.443	0.2	12.3	O K
960 min Summer	-1.065	1.435	0.2	12.3	O K
1440 min Summer	-1.108	1.392	0.2	11.9	O K
2160 min Summer	-1.193	1.307	0.2	11.2	O K
2880 min Summer	-1.275	1.225	0.2	10.5	O K
4320 min Summer	-1.419	1.081	0.2	9.2	O K
5760 min Summer	-1.543	0.957	0.2	8.2	O K
7200 min Summer	-1.648	0.852	0.2	7.3	O K
8640 min Summer	-1.738	0.762	0.1	6.5	O K
10080 min Summer	-1.816	0.684	0.1	5.8	O K
15 min Winter	-1.809	0.691	0.1	5.9	O K

Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)
15 min Summer	89.487	0.0	19
30 min Summer	59.577	0.0	34
60 min Summer	38.009	0.0	64
120 min Summer	23.546	0.0	122
180 min Summer	17.594	0.0	182
240 min Summer	14.237	0.0	242
360 min Summer	10.537	0.0	360
480 min Summer	8.507	0.0	430
600 min Summer	7.201	0.0	488
720 min Summer	6.281	0.0	554
960 min Summer	5.060	0.0	684
1440 min Summer	3.726	0.0	964
2160 min Summer	2.740	0.0	1380
2880 min Summer	2.201	0.0	1788
4320 min Summer	1.614	0.0	2592
5760 min Summer	1.295	0.0	3352
7200 min Summer	1.091	0.0	4112
8640 min Summer	0.948	0.0	4848
10080 min Summer	0.843	0.0	5648
15 min Winter	89.487	0.0	19

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

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
30 min Winter	-1.588	0.912	0.2	7.8	O K
60 min Winter	-1.358	1.142	0.2	9.8	O K
120 min Winter	-1.132	1.368	0.2	11.7	O K
180 min Winter	-1.016	1.484	0.2	12.7	O K
240 min Winter	-0.950	1.550	0.2	13.3	O K
360 min Winter	-0.882	1.618	0.2	13.8	O K
480 min Winter	-0.857	1.643	0.2	14.0	O K
600 min Winter	-0.856	1.644	0.2	14.1	O K
720 min Winter	-0.855	1.645	0.2	14.1	O K
960 min Winter	-0.868	1.632	0.2	14.0	O K
1440 min Winter	-0.932	1.568	0.2	13.4	O K
2160 min Winter	-1.059	1.441	0.2	12.3	O K
2880 min Winter	-1.185	1.315	0.2	11.2	O K
4320 min Winter	-1.394	1.106	0.2	9.5	O K
5760 min Winter	-1.564	0.936	0.2	8.0	O K
7200 min Winter	-1.704	0.796	0.1	6.8	O K
8640 min Winter	-1.820	0.680	0.1	5.8	O K
10080 min Winter	-1.918	0.582	0.1	5.0	O K

Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)
30 min Winter	59.577	0.0	33
60 min Winter	38.009	0.0	62
120 min Winter	23.546	0.0	120
180 min Winter	17.594	0.0	178
240 min Winter	14.237	0.0	236
360 min Winter	10.537	0.0	348
480 min Winter	8.507	0.0	456
600 min Winter	7.201	0.0	548
720 min Winter	6.281	0.0	572
960 min Winter	5.060	0.0	724
1440 min Winter	3.726	0.0	1036
2160 min Winter	2.740	0.0	1472
2880 min Winter	2.201	0.0	1904
4320 min Winter	1.614	0.0	2728
5760 min Winter	1.295	0.0	3528
7200 min Winter	1.091	0.0	4328
8640 min Winter	0.948	0.0	5104
10080 min Winter	0.843	0.0	5848

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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	0.350	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)	19.0
Safety Factor	4.0	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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