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

Half Drain Time : 34 minutes.

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
15 min Summer	-1.013	0.487	0.6	1.8	O K
30 min Summer	-0.928	0.572	0.7	2.1	O K
60 min Summer	-0.892	0.608	0.7	2.2	O K
120 min Summer	-0.918	0.582	0.7	2.1	O K
180 min Summer	-0.964	0.536	0.6	1.9	O K
240 min Summer	-1.013	0.487	0.6	1.8	O K
360 min Summer	-1.101	0.399	0.6	1.4	O K
480 min Summer	-1.174	0.326	0.5	1.2	O K
600 min Summer	-1.234	0.266	0.5	1.0	O K
720 min Summer	-1.285	0.215	0.5	0.8	O K
960 min Summer	-1.361	0.139	0.4	0.5	O K
1440 min Summer	-1.443	0.057	0.4	0.2	O K
2160 min Summer	-1.461	0.039	0.3	0.1	O K
2880 min Summer	-1.469	0.031	0.2	0.1	O K
4320 min Summer	-1.477	0.023	0.2	0.1	O K
5760 min Summer	-1.481	0.019	0.1	0.1	O K
7200 min Summer	-1.484	0.016	0.1	0.1	O K
8640 min Summer	-1.486	0.014	0.1	0.0	O K
10080 min Summer	-1.488	0.012	0.1	0.0	O K
15 min Winter	-0.945	0.555	0.7	2.0	O K

Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)
15 min Summer	89.487	0.0	16
30 min Summer	59.577	0.0	27
60 min Summer	38.009	0.0	44
120 min Summer	23.546	0.0	78
180 min Summer	17.594	0.0	112
240 min Summer	14.237	0.0	146
360 min Summer	10.537	0.0	210
480 min Summer	8.507	0.0	274
600 min Summer	7.201	0.0	334
720 min Summer	6.281	0.0	394
960 min Summer	5.060	0.0	512
1440 min Summer	3.726	0.0	736
2160 min Summer	2.740	0.0	1080
2880 min Summer	2.201	0.0	1452
4320 min Summer	1.614	0.0	2184
5760 min Summer	1.295	0.0	2928
7200 min Summer	1.091	0.0	3568
8640 min Summer	0.948	0.0	4288
10080 min Summer	0.843	0.0	5056
15 min Winter	89.487	0.0	16

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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	-0.842	0.658	0.7	2.4	O K
60 min Winter	-0.806	0.694	0.7	2.5	O K
120 min Winter	-0.855	0.645	0.7	2.3	O K
180 min Winter	-0.931	0.569	0.7	2.0	O K
240 min Winter	-1.005	0.495	0.6	1.8	O K
360 min Winter	-1.130	0.370	0.6	1.3	O K
480 min Winter	-1.228	0.272	0.5	1.0	O K
600 min Winter	-1.305	0.195	0.5	0.7	O K
720 min Winter	-1.366	0.134	0.4	0.5	O K
960 min Winter	-1.445	0.055	0.4	0.2	O K
1440 min Winter	-1.462	0.038	0.3	0.1	O K
2160 min Winter	-1.472	0.028	0.2	0.1	O K
2880 min Winter	-1.477	0.023	0.2	0.1	O K
4320 min Winter	-1.483	0.017	0.1	0.1	O K
5760 min Winter	-1.487	0.013	0.1	0.0	O K
7200 min Winter	-1.489	0.011	0.1	0.0	O K
8640 min Winter	-1.490	0.010	0.1	0.0	O K
10080 min Winter	-1.491	0.009	0.1	0.0	O K

Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)
30 min Winter	59.577	0.0	29
60 min Winter	38.009	0.0	48
120 min Winter	23.546	0.0	86
180 min Winter	17.594	0.0	120
240 min Winter	14.237	0.0	156
360 min Winter	10.537	0.0	222
480 min Winter	8.507	0.0	286
600 min Winter	7.201	0.0	346
720 min Winter	6.281	0.0	404
960 min Winter	5.060	0.0	502
1440 min Winter	3.726	0.0	724
2160 min Winter	2.740	0.0	1092
2880 min Winter	2.201	0.0	1428
4320 min Winter	1.614	0.0	2176
5760 min Winter	1.295	0.0	2832
7200 min Winter	1.091	0.0	3624
8640 min Winter	0.948	0.0	4384
10080 min Winter	0.843	0.0	4992

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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) 0.013

Time (mins) From:	To:	Area (ha)
0	4	0.013

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Model Details

Storage is Online Cover Level (m) 0.000

Trench Soakaway Structure

Infiltration Coefficient Base (m/hr)	0.41760	Trench Width (m)	1.5
Infiltration Coefficient Side (m/hr)	0.41760	Trench Length (m)	8.0
Safety Factor	4.0	Slope (1:X)	0.0
Porosity	0.30	Cap Volume Depth (m)	1.200
Invert Level (m)	-1.500	Cap Infiltration Depth (m)	1.200

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