Summary of Results for 10 year Return Period

Half Drain Time : 2926 minutes.

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
15 min Summer	97.743	0.133	0.0	1.9	O K
30 min Summer	97.781	0.171	0.0	2.4	O K
60 min Summer	97.821	0.211	0.0	3.0	O K
120 min Summer	97.862	0.252	0.0	3.6	O K
180 min Summer	97.887	0.277	0.0	3.9	O K
240 min Summer	97.905	0.295	0.0	4.2	O K
360 min Summer	97.929	0.319	0.0	4.5	O K
480 min Summer	97.946	0.336	0.0	4.8	O K
600 min Summer	97.959	0.349	0.0	5.0	O K
720 min Summer	97.968	0.358	0.0	5.1	O K
960 min Summer	97.982	0.372	0.0	5.3	O K
1440 min Summer	97.995	0.385	0.0	5.5	O K
2160 min Summer	97.997	0.387	0.0	5.5	O K
2880 min Summer	97.995	0.385	0.0	5.5	O K
4320 min Summer	97.986	0.376	0.0	5.4	O K
5760 min Summer	97.975	0.365	0.0	5.2	O K
7200 min Summer	97.962	0.352	0.0	5.0	O K
8640 min Summer	97.950	0.340	0.0	4.8	O K
10080 min Summer	97.938	0.328	0.0	4.7	O K
15 min Winter	97.759	0.149	0.0	2.1	O K
30 min Winter	97.802	0.192	0.0	2.7	O K
60 min Winter	97.846	0.236	0.0	3.4	O K

Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)
15 min Summer	59.630	0.0	19
30 min Summer	38.521	0.0	34
60 min Summer	23.882	0.0	64
120 min Summer	14.437	0.0	124
180 min Summer	10.670	0.0	184
240 min Summer	8.586	0.0	244
360 min Summer	6.308	0.0	362
480 min Summer	5.065	0.0	482
600 min Summer	4.271	0.0	602
720 min Summer	3.714	0.0	722
960 min Summer	2.978	0.0	962
1440 min Summer	2.180	0.0	1440
2160 min Summer	1.595	0.0	2096
2880 min Summer	1.277	0.0	2396
4320 min Summer	0.933	0.0	3156
5760 min Summer	0.747	0.0	3976
7200 min Summer	0.628	0.0	4824
8640 min Summer	0.545	0.0	5624
10080 min Summer	0.484	0.0	6456
15 min Winter	59.630	0.0	19
30 min Winter	38.521	0.0	34
60 min Winter	23.882	0.0	64

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Summary of Results for 10 year Return Period

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
120 min Winter	97.893	0.283	0.0	4.0	O K
180 min Winter	97.921	0.311	0.0	4.4	O K
240 min Winter	97.941	0.331	0.0	4.7	O K
360 min Winter	97.969	0.359	0.0	5.1	O K
480 min Winter	97.989	0.379	0.0	5.4	O K
600 min Winter	98.004	0.394	0.0	5.6	O K
720 min Winter	98.015	0.405	0.0	5.8	O K
960 min Winter	98.031	0.421	0.0	6.0	O K
1440 min Winter	98.049	0.439	0.0	6.3	O K
2160 min Winter	98.056	0.446	0.0	6.4	O K
2880 min Winter	98.053	0.443	0.0	6.3	O K
4320 min Winter	98.041	0.431	0.0	6.1	O K
5760 min Winter	98.026	0.416	0.0	5.9	O K
7200 min Winter	98.008	0.398	0.0	5.7	O K
8640 min Winter	97.989	0.379	0.0	5.4	O K
10080 min Winter	97.971	0.361	0.0	5.1	O K

Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)
120 min Winter	14.437	0.0	122
180 min Winter	10.670	0.0	182
240 min Winter	8.586	0.0	240
360 min Winter	6.308	0.0	358
480 min Winter	5.065	0.0	476
600 min Winter	4.271	0.0	594
720 min Winter	3.714	0.0	710
960 min Winter	2.978	0.0	942
1440 min Winter	2.180	0.0	1400
2160 min Winter	1.595	0.0	2072
2880 min Winter	1.277	0.0	2684
4320 min Winter	0.933	0.0	3332
5760 min Winter	0.747	0.0	4272
7200 min Winter	0.628	0.0	5192
8640 min Winter	0.545	0.0	6128
10080 min Winter	0.484	0.0	6960

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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)	19.900	Shortest Storm (mins)	15
Ratio R	0.400	Longest Storm (mins)	10080
Summer Storms	Yes	Climate Change %	+0

Time Area Diagram

Total Area (ha) 0.017

Time (mins) From:	To:	Area (ha)
0	4	0.017

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Model Details

Storage is Online Cover Level (m) 99.620

Cellular Storage Structure

Invert Level (m) 97.610 Safety Factor 2.0
Infiltration Coefficient Base (m/hr) 0.00576 Porosity 0.95
Infiltration Coefficient Side (m/hr) 0.00576

Depth (m)	Area (m²)	Inf. Area (m²)	Depth (m)	Area (m²)	Inf. Area (m²)
0.000	15.0	15.0	1.300	0.0	42.6
1.200	15.0	42.6			

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