Summary of Results for 100 year Return Period (+40%)

Half Drain Time : 2 minutes.

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Control (l/s)	Max Outflow (l/s)	Max Volume (m³)	Status
15 min Summer	1.526	0.076	0.0	1.7	1.7	0.3	O K
30 min Summer	1.538	0.088	0.0	1.8	1.8	0.3	O K
60 min Summer	1.525	0.075	0.0	1.7	1.7	0.3	O K
120 min Summer	1.492	0.042	0.0	1.4	1.4	0.2	O K
180 min Summer	1.472	0.022	0.0	1.1	1.1	0.1	O K
240 min Summer	1.464	0.014	0.0	1.0	1.0	0.1	O K
360 min Summer	1.453	0.003	0.0	0.7	0.7	0.0	O K
480 min Summer	1.450	0.000	0.0	0.6	0.6	0.0	O K
600 min Summer	1.450	0.000	0.0	0.5	0.5	0.0	O K
720 min Summer	1.450	0.000	0.0	0.5	0.5	0.0	O K
960 min Summer	1.450	0.000	0.0	0.4	0.4	0.0	O K
1440 min Summer	1.450	0.000	0.0	0.3	0.3	0.0	O K
2160 min Summer	1.450	0.000	0.0	0.2	0.2	0.0	O K
2880 min Summer	1.450	0.000	0.0	0.2	0.2	0.0	O K
4320 min Summer	1.450	0.000	0.0	0.1	0.1	0.0	O K
5760 min Summer	1.450	0.000	0.0	0.1	0.1	0.0	O K
7200 min Summer	1.450	0.000	0.0	0.1	0.1	0.0	O K
8640 min Summer	1.450	0.000	0.0	0.1	0.1	0.0	O K
10080 min Summer	1.450	0.000	0.0	0.1	0.1	0.0	O K
15 min Winter	1.544	0.094	0.0	1.8	1.8	0.4	O K
30 min Winter	1.551	0.101	0.0	1.9	1.9	0.4	O K
60 min Winter	1.521	0.071	0.0	1.6	1.6	0.3	O K
120 min Winter	1.476	0.026	0.0	1.2	1.2	0.1	O K
180 min Winter	1.462	0.012	0.0	0.9	0.9	0.0	O K
240 min Winter	1.454	0.004	0.0	0.7	0.7	0.0	O K
360 min Winter	1.450	0.000	0.0	0.6	0.6	0.0	O K
480 min Winter	1.450	0.000	0.0	0.4	0.4	0.0	O K
600 min Winter	1.450	0.000	0.0	0.4	0.4	0.0	O K
720 min Winter	1.450	0.000	0.0	0.3	0.3	0.0	O K

Storm Event	Rain (mm/hr)	Time-Peak (mins)
15 min Summer	135.470	18
30 min Summer	90.950	25
60 min Summer	58.167	40
120 min Summer	35.817	70
180 min Summer	26.521	98
240 min Summer	21.327	128
360 min Summer	15.691	188
480 min Summer	12.600	0
600 min Summer	10.618	0
720 min Summer	9.228	0
960 min Summer	7.387	0
1440 min Summer	5.389	0
2160 min Summer	3.922	0
2880 min Summer	3.127	0
4320 min Summer	2.267	0
5760 min Summer	1.803	0
7200 min Summer	1.512	0
8640 min Summer	1.309	0
10080 min Summer	1.159	0
15 min Winter	135.470	18
30 min Winter	90.950	25
60 min Winter	58.167	40
120 min Winter	35.817	70
180 min Winter	26.521	100
240 min Winter	21.327	128
360 min Winter	15.691	0
480 min Winter	12.600	0
600 min Winter	10.618	0
720 min Winter	9.228	0

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Summary of Results for 100 year Return Period (+40%)

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Control (l/s)	Max Σ Outflow (l/s)	Max Volume (m³)	Status
960 min Winter	1.450	0.000	0.0	0.3	0.3	0.0	O K
1440 min Winter	1.450	0.000	0.0	0.2	0.2	0.0	O K
2160 min Winter	1.450	0.000	0.0	0.1	0.1	0.0	O K
2880 min Winter	1.450	0.000	0.0	0.1	0.1	0.0	O K
4320 min Winter	1.450	0.000	0.0	0.1	0.1	0.0	O K
5760 min Winter	1.450	0.000	0.0	0.1	0.1	0.0	O K
7200 min Winter	1.450	0.000	0.0	0.1	0.1	0.0	O K
8640 min Winter	1.450	0.000	0.0	0.0	0.0	0.0	O K
10080 min Winter	1.450	0.000	0.0	0.0	0.0	0.0	O K

Storm Event	Rain (mm/hr)	Time-Peak (mins)
960 min Winter	7.387	0
1440 min Winter	5.389	0
2160 min Winter	3.922	0
2880 min Winter	3.127	0
4320 min Winter	2.267	0
5760 min Winter	1.803	0
7200 min Winter	1.512	0
8640 min Winter	1.309	0
10080 min Winter	1.159	0

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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)	20.500	Shortest Storm (mins)	15
Ratio R	0.350	Longest Storm (mins)	10080
Summer Storms	Yes	Climate Change %	+40

Time / Area Diagram

Total Area (ha) 0.006

Time (mins)	Area (ha)	Time (mins)	Area (ha)	Time (mins)	Area (ha)
0-4	0.002	4-8	0.002	8-12	0.002

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Model Details

Storage is Online Cover Level (m) 2.100

Cellular Storage Structure

Invert Level (m) 1.450 Safety Factor 2.0
Infiltration Coefficient Base (m/hr) 0.00000 Porosity 0.95
Infiltration Coefficient Side (m/hr) 0.00000

Depth (m)	Area (m²)	Inf. Area (m²)	Depth (m)	Area (m²)	Inf. Area (m²)
0.000	4.0	4.0	0.400	0.0	6.4
0.300	4.0	6.4			

Orifice Outflow Control

Diameter (m) 0.050 Discharge Coefficient 0.600 Invert Level (m) 1.400

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