Summary of Results for 100 year Return Period

Half Drain Time : 463 minutes.

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
15 min Summer	1.406	0.146	0.1	2.8	O K
30 min Summer	1.448	0.188	0.1	3.6	O K
60 min Summer	1.486	0.226	0.1	4.3	O K
120 min Summer	1.518	0.258	0.1	4.9	O K
180 min Summer	1.530	0.270	0.1	5.1	O K
240 min Summer	1.534	0.274	0.1	5.2	O K
360 min Summer	1.531	0.271	0.1	5.1	O K
480 min Summer	1.525	0.265	0.1	5.0	O K
600 min Summer	1.519	0.259	0.1	4.9	O K
720 min Summer	1.513	0.253	0.1	4.8	O K
960 min Summer	1.500	0.240	0.1	4.6	O K
1440 min Summer	1.476	0.216	0.1	4.1	O K
2160 min Summer	1.442	0.182	0.1	3.5	O K
2880 min Summer	1.413	0.153	0.1	2.9	O K
4320 min Summer	1.367	0.107	0.1	2.0	O K
5760 min Summer	1.336	0.076	0.1	1.4	O K
7200 min Summer	1.316	0.056	0.1	1.1	O K
8640 min Summer	1.307	0.047	0.1	0.9	O K
10080 min Summer	1.302	0.042	0.1	0.8	O K
15 min Winter	1.424	0.164	0.1	3.1	O K

Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)
15 min Summer	96.216	0.0	26
30 min Summer	62.285	0.0	40
60 min Summer	38.413	0.0	68
120 min Summer	22.935	0.0	126
180 min Summer	16.766	0.0	184
240 min Summer	13.361	0.0	242
360 min Summer	9.636	0.0	340
480 min Summer	7.632	0.0	394
600 min Summer	6.371	0.0	456
720 min Summer	5.495	0.0	520
960 min Summer	4.348	0.0	656
1440 min Summer	3.122	0.0	928
2160 min Summer	2.239	0.0	1328
2880 min Summer	1.767	0.0	1708
4320 min Summer	1.264	0.0	2432
5760 min Summer	0.996	0.0	3120
7200 min Summer	0.828	0.0	3752
8640 min Summer	0.711	0.0	4416
10080 min Summer	0.625	0.0	5152
15 min Winter	96.216	0.0	26

©1982-2018 Innovyze

Summary of Results for 100 year Return Period

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
30 min Winter	1.471	0.211	0.1	4.0	O K
60 min Winter	1.515	0.255	0.1	4.8	O K
120 min Winter	1.552	0.292	0.1	5.5	O K
180 min Winter	1.567	0.307	0.1	5.8	O K
240 min Winter	1.573	0.313	0.1	6.0	O K
360 min Winter	1.572	0.312	0.1	5.9	O K
480 min Winter	1.565	0.305	0.1	5.8	O K
600 min Winter	1.557	0.297	0.1	5.6	O K
720 min Winter	1.549	0.289	0.1	5.5	O K
960 min Winter	1.532	0.272	0.1	5.2	O K
1440 min Winter	1.496	0.236	0.1	4.5	O K
2160 min Winter	1.447	0.187	0.1	3.6	O K
2880 min Winter	1.405	0.145	0.1	2.8	O K
4320 min Winter	1.343	0.083	0.1	1.6	O K
5760 min Winter	1.310	0.050	0.1	0.9	O K
7200 min Winter	1.302	0.042	0.1	0.8	O K
8640 min Winter	1.296	0.036	0.1	0.7	O K
10080 min Winter	1.292	0.032	0.1	0.6	O K

Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)
30 min Winter	62.285	0.0	40
60 min Winter	38.413	0.0	68
120 min Winter	22.935	0.0	124
180 min Winter	16.766	0.0	182
240 min Winter	13.361	0.0	238
360 min Winter	9.636	0.0	348
480 min Winter	7.632	0.0	450
600 min Winter	6.371	0.0	482
720 min Winter	5.495	0.0	558
960 min Winter	4.348	0.0	710
1440 min Winter	3.122	0.0	1008
2160 min Winter	2.239	0.0	1428
2880 min Winter	1.767	0.0	1820
4320 min Winter	1.264	0.0	2512
5760 min Winter	0.996	0.0	3048
7200 min Winter	0.828	0.0	3752
8640 min Winter	0.711	0.0	4488
10080 min Winter	0.625	0.0	5240

©1982-2018 Innovyze

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)	19.000	Shortest Storm (mins)	15
Ratio R	0.437	Longest Storm (mins)	10080
Summer Storms	Yes	Climate Change %	+0

Time Area Diagram

Total Area (ha) 0.016

Time From:	(mins) To:	Area (ha)	Time From:	(mins) To:	Area (ha)	Time From:	(mins) To:	Area (ha)
0	4	0.005	4	8	0.005	8	12	0.005

©1982-2018 Innovyze

Model Details

Storage is Online Cover Level (m) 2.260

Cellular Storage Structure

Invert Level (m) 1.260 Safety Factor 2.0
Infiltration Coefficient Base (m/hr) 0.03100 Porosity 0.95
Infiltration Coefficient Side (m/hr) 0.03100

Depth (m)	Area (m²)	Inf. Area (m²)	Depth (m)	Area (m²)	Inf. Area (m²)
0.000	20.0	20.0	0.500	0.0	29.6
0.400	20.0	29.6			

©1982-2018 Innovyze