

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

Half Drain Time : 1305 minutes.

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
15 min Summer	50.882	0.282	0.1	9.6	O K
30 min Summer	50.977	0.377	0.1	12.9	O K
60 min Summer	51.076	0.476	0.2	16.3	O K
120 min Summer	51.174	0.574	0.2	19.6	O K
180 min Summer	51.230	0.630	0.2	21.5	O K
240 min Summer	51.267	0.667	0.2	22.8	O K
360 min Summer	51.310	0.710	0.2	24.3	O K
480 min Summer	51.329	0.729	0.2	24.9	O K
600 min Summer	51.336	0.736	0.2	25.2	O K
720 min Summer	51.336	0.736	0.2	25.2	O K
960 min Summer	51.322	0.722	0.2	24.7	O K
1440 min Summer	51.280	0.680	0.2	23.3	O K
2160 min Summer	51.225	0.625	0.2	21.4	O K
2880 min Summer	51.180	0.580	0.2	19.8	O K
4320 min Summer	51.109	0.509	0.2	17.4	O K
5760 min Summer	51.054	0.454	0.2	15.5	O K
15 min Winter	50.882	0.282	0.1	9.6	O K
30 min Winter	50.977	0.377	0.1	12.9	O K
60 min Winter	51.076	0.476	0.2	16.3	O K
120 min Winter	51.174	0.574	0.2	19.6	O K
180 min Winter	51.231	0.631	0.2	21.6	O K
240 min Winter	51.268	0.668	0.2	22.8	O K
360 min Winter	51.312	0.712	0.2	24.3	O K
480 min Winter	51.332	0.732	0.2	25.0	O K
600 min Winter	51.340	0.740	0.2	25.3	O K
720 min Winter	51.341	0.741	0.2	25.3	O K

Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)
15 min Summer	136.808	0.0	19
30 min Summer	92.092	0.0	34
60 min Summer	58.758	0.0	64
120 min Summer	36.078	0.0	124
180 min Summer	26.880	0.0	184
240 min Summer	21.711	0.0	242
360 min Summer	15.927	0.0	362
480 min Summer	12.682	0.0	482
600 min Summer	10.587	0.0	602
720 min Summer	9.113	0.0	720
960 min Summer	7.164	0.0	960
1440 min Summer	5.062	0.0	1184
2160 min Summer	3.563	0.0	1556
2880 min Summer	2.783	0.0	1960
4320 min Summer	1.976	0.0	2768
5760 min Summer	1.562	0.0	3576
15 min Winter	136.808	0.0	19
30 min Winter	92.092	0.0	33
60 min Winter	58.758	0.0	64
120 min Winter	36.078	0.0	122
180 min Winter	26.880	0.0	180
240 min Winter	21.711	0.0	240
360 min Winter	15.927	0.0	356
480 min Winter	12.682	0.0	472
600 min Winter	10.587	0.0	586
720 min Winter	9.113	0.0	700

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

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
960 min Winter	51.330	0.730	0.2	25.0	O K
1440 min Winter	51.283	0.683	0.2	23.4	O K
2160 min Winter	51.222	0.622	0.2	21.3	O K
2880 min Winter	51.166	0.566	0.2	19.4	O K
4320 min Winter	51.072	0.472	0.2	16.1	O K
5760 min Winter	50.995	0.395	0.2	13.5	O K

Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)
960 min Winter	7.164	0.0	922
1440 min Winter	5.062	0.0	1312
2160 min Winter	3.563	0.0	1640
2880 min Winter	2.783	0.0	2100
4320 min Winter	1.976	0.0	2980
5760 min Winter	1.562	0.0	3808

Rainfall Details

Rainfall Model	FEH	Winter Storms	Yes
Return Period (years)	100	Cv (Summer)	0.950
FEH Rainfall Version	2013	Cv (Winter)	0.950
Site Location	GB 478300 180800 SU 78300 80800	Shortest Storm (mins)	15
Data Type	Catchment	Longest Storm (mins)	5760
Summer Storms	Yes	Climate Change %	+40

Time Area Diagram

Total Area (ha) 0.030

Time (mins)	Area
From: To: (ha)	
0	4 0.030

Time Area Diagram

Total Area (ha) 0.000

Time (mins)	Area
From: To: (ha)	
0	4 0.000

Model Details

Storage is Online Cover Level (m) 52.250

Cellular Storage Structure

Invert Level (m) 50.600 Safety Factor 2.0
Infiltration Coefficient Base (m/hr) 0.02387 Porosity 0.95
Infiltration Coefficient Side (m/hr) 0.02387

Depth (m)	Area (m²)	Inf. Area (m²)	Depth (m)	Area (m²)	Inf. Area (m²)	Depth (m)	Area (m²)	Inf. Area (m²)
0.000	36.0	36.0	0.800	36.0	55.2	0.801	0.0	55.2