

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

Half Drain Time : 296 minutes.

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
15 min Summer	51.165	0.165	0.1	1.9	O K
30 min Summer	51.218	0.218	0.1	2.5	O K
60 min Summer	51.268	0.268	0.1	3.1	O K
120 min Summer	51.308	0.308	0.1	3.5	O K
180 min Summer	51.323	0.323	0.1	3.7	O K
240 min Summer	51.327	0.327	0.1	3.7	O K
360 min Summer	51.325	0.325	0.1	3.7	O K
480 min Summer	51.316	0.316	0.1	3.6	O K
600 min Summer	51.306	0.306	0.1	3.5	O K
720 min Summer	51.295	0.295	0.1	3.4	O K
960 min Summer	51.271	0.271	0.1	3.1	O K
1440 min Summer	51.228	0.228	0.1	2.6	O K
2160 min Summer	51.174	0.174	0.1	2.0	O K
2880 min Summer	51.133	0.133	0.1	1.5	O K
4320 min Summer	51.079	0.079	0.1	0.9	O K
5760 min Summer	51.052	0.052	0.1	0.6	O K
15 min Winter	51.165	0.165	0.1	1.9	O K
30 min Winter	51.218	0.218	0.1	2.5	O K
60 min Winter	51.269	0.269	0.1	3.1	O K
120 min Winter	51.309	0.309	0.1	3.5	O K
180 min Winter	51.325	0.325	0.1	3.7	O K
240 min Winter	51.330	0.330	0.1	3.8	O K
360 min Winter	51.324	0.324	0.1	3.7	O K
480 min Winter	51.314	0.314	0.1	3.6	O K
600 min Winter	51.301	0.301	0.1	3.4	O K
720 min Winter	51.286	0.286	0.1	3.3	O K

Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)
15 min Summer	136.808	0.0	18
30 min Summer	92.092	0.0	33
60 min Summer	58.758	0.0	62
120 min Summer	36.078	0.0	122
180 min Summer	26.880	0.0	180
240 min Summer	21.711	0.0	236
360 min Summer	15.927	0.0	292
480 min Summer	12.682	0.0	354
600 min Summer	10.587	0.0	422
720 min Summer	9.113	0.0	490
960 min Summer	7.164	0.0	626
1440 min Summer	5.062	0.0	894
2160 min Summer	3.563	0.0	1276
2880 min Summer	2.783	0.0	1644
4320 min Summer	1.976	0.0	2336
5760 min Summer	1.562	0.0	2992
15 min Winter	136.808	0.0	18
30 min Winter	92.092	0.0	33
60 min Winter	58.758	0.0	62
120 min Winter	36.078	0.0	118
180 min Winter	26.880	0.0	176
240 min Winter	21.711	0.0	230
360 min Winter	15.927	0.0	300
480 min Winter	12.682	0.0	370
600 min Winter	10.587	0.0	446
720 min Winter	9.113	0.0	522

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	51.255	0.255	0.1	2.9	O K
1440 min Winter	51.197	0.197	0.1	2.2	O K
2160 min Winter	51.127	0.127	0.1	1.5	O K
2880 min Winter	51.079	0.079	0.1	0.9	O K
4320 min Winter	51.044	0.044	0.1	0.5	O K
5760 min Winter	51.035	0.035	0.1	0.4	O K

Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)
960 min Winter	7.164	0.0	672
1440 min Winter	5.062	0.0	952
2160 min Winter	3.563	0.0	1324
2880 min Winter	2.783	0.0	1668
4320 min Winter	1.976	0.0	2248
5760 min Winter	1.562	0.0	2952

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) 0.006

Time (mins)	Area
From:	To: (ha)
0	4 0.006

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) 52.000

Cellular Storage Structure

Invert Level (m) 51.000 Safety Factor 2.0
Infiltration Coefficient Base (m/hr) 0.04969 Porosity 0.95
Infiltration Coefficient Side (m/hr) 0.04968

Depth (m)	Area (m²)	Inf. Area (m²)	Depth (m)	Area (m²)	Inf. Area (m²)	Depth (m)	Area (m²)	Inf. Area (m²)
0.000	12.0	12.0	0.400	12.0	17.5	0.401	0.0	17.5