Summary of Results for 30 year Return Period

Half Drain Time : 95 minutes.

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
15 min Summer	57.816	0.566	0.2	1.1	O K
30 min Summer	57.957	0.707	0.2	1.3	O K
60 min Summer	58.051	0.801	0.2	1.5	O K
120 min Summer	58.168	0.918	0.2	1.6	O K
180 min Summer	58.159	0.909	0.2	1.6	O K
240 min Summer	58.068	0.818	0.2	1.5	O K
360 min Summer	58.010	0.760	0.2	1.4	O K
480 min Summer	57.958	0.708	0.2	1.3	O K
600 min Summer	57.911	0.661	0.2	1.3	O K
720 min Summer	57.868	0.618	0.2	1.2	O K
960 min Summer	57.793	0.543	0.1	1.0	O K
1440 min Summer	57.677	0.427	0.1	0.8	O K
2160 min Summer	57.557	0.307	0.1	0.6	O K
2880 min Summer	57.474	0.224	0.1	0.4	O K
4320 min Summer	57.369	0.119	0.1	0.2	O K
5760 min Summer	57.312	0.062	0.1	0.1	O K
7200 min Summer	57.295	0.045	0.1	0.1	O K
8640 min Summer	57.289	0.039	0.1	0.1	O K
10080 min Summer	57.285	0.035	0.0	0.1	O K
15 min Winter	57.888	0.638	0.2	1.2	O K

Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)
15 min Summer	69.884	0.0	18
30 min Summer	46.187	0.0	32
60 min Summer	29.238	0.0	58
120 min Summer	17.975	0.0	90
180 min Summer	13.378	0.0	124
240 min Summer	10.798	0.0	158
360 min Summer	7.956	0.0	226
480 min Summer	6.404	0.0	294
600 min Summer	5.409	0.0	360
720 min Summer	4.710	0.0	426
960 min Summer	3.783	0.0	552
1440 min Summer	2.775	0.0	806
2160 min Summer	2.033	0.0	1168
2880 min Summer	1.629	0.0	1528
4320 min Summer	1.191	0.0	2248
5760 min Summer	0.952	0.0	2944
7200 min Summer	0.801	0.0	3648
8640 min Summer	0.695	0.0	4320
10080 min Summer	0.616	0.0	5080
15 min Winter	69.884	0.0	18

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Summary of Results for 30 year Return Period

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
30 min Winter	58.051	0.801	0.2	1.5	O K
60 min Winter	58.319	1.069	0.2	1.8	O K
120 min Winter	58.403	1.153	0.2	1.8	O K
180 min Winter	58.377	1.127	0.2	1.8	O K
240 min Winter	58.304	1.054	0.2	1.7	O K
360 min Winter	58.079	0.829	0.2	1.6	O K
480 min Winter	57.993	0.743	0.2	1.4	O K
600 min Winter	57.925	0.675	0.2	1.3	O K
720 min Winter	57.865	0.615	0.2	1.2	O K
960 min Winter	57.765	0.515	0.1	1.0	O K
1440 min Winter	57.618	0.368	0.1	0.7	O K
2160 min Winter	57.477	0.227	0.1	0.4	O K
2880 min Winter	57.388	0.138	0.1	0.3	O K
4320 min Winter	57.299	0.049	0.1	0.1	O K
5760 min Winter	57.289	0.039	0.1	0.1	O K
7200 min Winter	57.283	0.033	0.0	0.1	O K
8640 min Winter	57.278	0.028	0.0	0.1	O K
10080 min Winter	57.275	0.025	0.0	0.0	O K

Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)
30 min Winter	46.187	0.0	31
60 min Winter	29.238	0.0	58
120 min Winter	17.975	0.0	96
180 min Winter	13.378	0.0	134
240 min Winter	10.798	0.0	172
360 min Winter	7.956	0.0	244
480 min Winter	6.404	0.0	314
600 min Winter	5.409	0.0	380
720 min Winter	4.710	0.0	448
960 min Winter	3.783	0.0	578
1440 min Winter	2.775	0.0	836
2160 min Winter	2.033	0.0	1208
2880 min Winter	1.629	0.0	1560
4320 min Winter	1.191	0.0	2192
5760 min Winter	0.952	0.0	2936
7200 min Winter	0.801	0.0	3624
8640 min Winter	0.695	0.0	4408
10080 min Winter	0.616	0.0	5096

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Rainfall Details

Rainfall Model	FSR	Winter Storms	Yes
Return Period (years)	30	Cv (Summer)	0.750
Region	England and Wales	Cv (Winter)	0.840
M5-60 (mm)	19.000	Shortest Storm (mins)	15
Ratio R	0.366	Longest Storm (mins)	10080
Summer Storms	Yes	Climate Change %	+0

Time Area Diagram

Total Area (ha) 0.009

Time (mins) From:	To:	Area (ha)
0	4	0.009

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Model Details

Storage is Online Cover Level (m) 59.300

Cellular Storage Structure

Invert Level (m) 57.250 Safety Factor 2.0
Infiltration Coefficient Base (m/hr) 0.20412 Porosity 0.95
Infiltration Coefficient Side (m/hr) 0.20412

Depth (m)	Area (m²)	Inf. Area (m²)	Depth (m)	Area (m²)	Inf. Area (m²)
0.000	2.0	2.0	0.900	0.0	6.8
0.800	2.0	6.8			

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