

Ground Floor, 24 High Street Whittlesford Cambs, CB22 4LT	Leeway Avenue, Gt Shelford Plot 1 Soakaway AT - 01
Date 12/04/2023 12:45 File 3093 - Plot 1 Soakaway...	Designed by JF Checked by



Innovyze Source Control 2020.1.3

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

Half Drain Time : 455 minutes.

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m ³)	Status
15 min Summer	18.950	0.280	0.0	1.1	O K
30 min Summer	19.027	0.357	0.0	1.4	O K
60 min Summer	19.097	0.427	0.0	1.6	O K
120 min Summer	19.154	0.484	0.0	1.8	O K
180 min Summer	19.176	0.506	0.0	1.9	O K
240 min Summer	19.183	0.513	0.0	1.9	O K
360 min Summer	19.183	0.513	0.0	1.9	O K
480 min Summer	19.182	0.512	0.0	1.9	O K
600 min Summer	19.179	0.509	0.0	1.9	O K
720 min Summer	19.175	0.505	0.0	1.9	O K
960 min Summer	19.165	0.495	0.0	1.9	O K
1440 min Summer	19.140	0.470	0.0	1.8	O K
2160 min Summer	19.102	0.432	0.0	1.6	O K
2880 min Summer	19.068	0.398	0.0	1.5	O K
4320 min Summer	19.014	0.344	0.0	1.3	O K
5760 min Summer	18.974	0.304	0.0	1.2	O K
7200 min Summer	18.943	0.273	0.0	1.0	O K
8640 min Summer	18.918	0.248	0.0	0.9	O K
10080 min Summer	18.898	0.228	0.0	0.9	O K
15 min Winter	18.984	0.314	0.0	1.2	O K

Storm Event	Rain (mm/hr)	Flooded Volume (m ³)	Time-Peak (mins)
15 min Summer	143.954	0.0	19
30 min Summer	92.629	0.0	33
60 min Summer	56.713	0.0	62
120 min Summer	33.583	0.0	122
180 min Summer	24.424	0.0	182
240 min Summer	19.389	0.0	240
360 min Summer	13.924	0.0	304
480 min Summer	11.018	0.0	362
600 min Summer	9.182	0.0	428
720 min Summer	7.908	0.0	494
960 min Summer	6.245	0.0	634
1440 min Summer	4.471	0.0	908
2160 min Summer	3.197	0.0	1300
2880 min Summer	2.518	0.0	1700
4320 min Summer	1.796	0.0	2464
5760 min Summer	1.413	0.0	3224
7200 min Summer	1.172	0.0	3960
8640 min Summer	1.006	0.0	4672
10080 min Summer	0.884	0.0	5440
15 min Winter	143.954	0.0	19

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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 Volume (m ³)	Status
30 min Winter	19.070	0.400	0.0	1.5	O K
60 min Winter	19.149	0.479	0.0	1.8	O K
120 min Winter	19.214	0.544	0.1	2.1	O K
180 min Winter	19.239	0.569	0.1	2.2	O K
240 min Winter	19.248	0.578	0.1	2.2	O K
360 min Winter	19.247	0.577	0.1	2.2	O K
480 min Winter	19.243	0.573	0.1	2.2	O K
600 min Winter	19.238	0.568	0.1	2.2	O K
720 min Winter	19.230	0.560	0.1	2.1	O K
960 min Winter	19.212	0.542	0.1	2.1	O K
1440 min Winter	19.172	0.502	0.0	1.9	O K
2160 min Winter	19.117	0.447	0.0	1.7	O K
2880 min Winter	19.071	0.401	0.0	1.5	O K
4320 min Winter	19.002	0.332	0.0	1.3	O K
5760 min Winter	18.953	0.283	0.0	1.1	O K
7200 min Winter	18.917	0.247	0.0	0.9	O K
8640 min Winter	18.890	0.220	0.0	0.8	O K
10080 min Winter	18.868	0.198	0.0	0.8	O K

Storm Event	Rain (mm/hr)	Flooded Volume (m ³)	Time-Peak (mins)
30 min Winter	92.629	0.0	33
60 min Winter	56.713	0.0	62
120 min Winter	33.583	0.0	120
180 min Winter	24.424	0.0	176
240 min Winter	19.389	0.0	232
360 min Winter	13.924	0.0	334
480 min Winter	11.018	0.0	376
600 min Winter	9.182	0.0	452
720 min Winter	7.908	0.0	528
960 min Winter	6.245	0.0	680
1440 min Winter	4.471	0.0	968
2160 min Winter	3.197	0.0	1384
2880 min Winter	2.518	0.0	1788
4320 min Winter	1.796	0.0	2592
5760 min Winter	1.413	0.0	3344
7200 min Winter	1.172	0.0	4104
8640 min Winter	1.006	0.0	4840
10080 min Winter	0.884	0.0	5552

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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)	20.000	Shortest Storm (mins)	15
Ratio R	0.450	Longest Storm (mins)	10080
Summer Storms	Yes	Climate Change %	+40

Time Area Diagram

Total Area (ha) 0.004

Time (mins)	Area
From: To:	(ha)
0	4 0.004

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Model Details

Storage is Online Cover Level (m) 20.100

Cellular Storage Structure

Invert Level (m) 18.670 Safety Factor 2.0
 Infiltration Coefficient Base (m/hr) 0.00000 Porosity 0.95
 Infiltration Coefficient Side (m/hr) 0.08511

Depth (m)	Area (m ²)	Inf. Area (m ²)	Depth (m)	Area (m ²)	Inf. Area (m ²)
0.000	4.0	4.0	0.801	0.0	10.4
0.800	4.0	10.4			