


Ground Floor, 24 High Street Whittlesford Cambs, CB22 4LT	MALTING LANE BRAUGHING, HERTS Road Soakaway 1	
Date 31/03/2023 11:45 File ROAD SOAKAWAY 1.SRCX	Designed by JTC Checked by	


Innovyze	Source Control 2020.1.3
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Summary of Results for 100 year Return Period (+40%)

Half Drain Time : 372 minutes.

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m ³)	Status
15 min Summer	76.351	0.351	0.3	7.0	O K
30 min Summer	76.450	0.450	0.3	9.0	O K
60 min Summer	76.540	0.540	0.4	10.8	O K
120 min Summer	76.645	0.645	0.4	12.9	O K
180 min Summer	76.684	0.684	0.4	13.6	O K
240 min Summer	76.694	0.694	0.4	13.9	O K
360 min Summer	76.682	0.682	0.4	13.6	O K
480 min Summer	76.656	0.656	0.4	13.1	O K
600 min Summer	76.628	0.628	0.4	12.5	O K
720 min Summer	76.600	0.600	0.4	12.0	O K
960 min Summer	76.548	0.548	0.4	10.9	O K
1440 min Summer	76.460	0.460	0.3	9.2	O K
2160 min Summer	76.356	0.356	0.3	7.1	O K
2880 min Summer	76.276	0.276	0.3	5.5	O K
4320 min Summer	76.166	0.166	0.3	3.3	O K
5760 min Summer	76.098	0.098	0.3	2.0	O K
7200 min Summer	76.062	0.062	0.3	1.2	O K
8640 min Summer	76.048	0.048	0.2	1.0	O K
10080 min Summer	76.044	0.044	0.2	0.9	O K
15 min Winter	76.395	0.395	0.3	7.9	O K

Storm Event	Rain (mm/hr)	Flooded Volume (m ³)	Time-Peak (mins)
15 min Summer	138.314	0.0	19
30 min Summer	90.204	0.0	33
60 min Summer	56.033	0.0	62
120 min Summer	35.566	0.0	122
180 min Summer	26.692	0.0	180
240 min Summer	21.550	0.0	240
360 min Summer	15.689	0.0	302
480 min Summer	12.373	0.0	362
600 min Summer	10.243	0.0	428
720 min Summer	8.756	0.0	496
960 min Summer	6.811	0.0	634
1440 min Summer	4.761	0.0	906
2160 min Summer	3.328	0.0	1296
2880 min Summer	2.590	0.0	1672
4320 min Summer	1.839	0.0	2380
5760 min Summer	1.457	0.0	3064
7200 min Summer	1.229	0.0	3744
8640 min Summer	1.077	0.0	4408
10080 min Summer	0.968	0.0	5136
15 min Winter	138.314	0.0	18

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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	76.507	0.507	0.3	10.1	O K
60 min Winter	76.610	0.610	0.4	12.2	O K
120 min Winter	76.733	0.733	0.4	14.6	O K
180 min Winter	76.783	0.783	0.4	15.6	O K
240 min Winter	76.800	0.800	0.4	16.0	O K
360 min Winter	76.789	0.789	0.4	15.7	O K
480 min Winter	76.757	0.757	0.4	15.1	O K
600 min Winter	76.724	0.724	0.4	14.4	O K
720 min Winter	76.688	0.688	0.4	13.7	O K
960 min Winter	76.618	0.618	0.4	12.3	O K
1440 min Winter	76.496	0.496	0.3	9.9	O K
2160 min Winter	76.351	0.351	0.3	7.0	O K
2880 min Winter	76.241	0.241	0.3	4.8	O K
4320 min Winter	76.099	0.099	0.3	2.0	O K
5760 min Winter	76.048	0.048	0.2	0.9	O K
7200 min Winter	76.040	0.040	0.2	0.8	O K
8640 min Winter	76.035	0.035	0.2	0.7	O K
10080 min Winter	76.032	0.032	0.2	0.6	O K

Storm Event	Rain (mm/hr)	Flooded Volume (m ³)	Time-Peak (mins)
30 min Winter	90.204	0.0	33
60 min Winter	56.033	0.0	62
120 min Winter	35.566	0.0	120
180 min Winter	26.692	0.0	176
240 min Winter	21.550	0.0	232
360 min Winter	15.689	0.0	338
480 min Winter	12.373	0.0	382
600 min Winter	10.243	0.0	458
720 min Winter	8.756	0.0	534
960 min Winter	6.811	0.0	684
1440 min Winter	4.761	0.0	978
2160 min Winter	3.328	0.0	1384
2880 min Winter	2.590	0.0	1760
4320 min Winter	1.839	0.0	2424
5760 min Winter	1.457	0.0	2944
7200 min Winter	1.229	0.0	3672
8640 min Winter	1.077	0.0	4408
10080 min Winter	0.968	0.0	5136

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Rainfall Details

Rainfall Model	FEH
Return Period (years)	100
FEH Rainfall Version	2013
Site Location	GB 539372 225189 TL 39372 25189
Data Type	Point
Summer Storms	Yes
Winter Storms	Yes
Cv (Summer)	0.750
Cv (Winter)	0.840
Shortest Storm (mins)	15
Longest Storm (mins)	10080
Climate Change %	+40

Time Area Diagram

Total Area (ha) 0.028

Time (mins)	Area
From:	To: (ha)
0	4 0.028

Ground Floor, 24 High Street
Whittlesford
Cambs, CB22 4LT

MALTING LANE
BRAUGHING, HERTS
Road Soakaway 1



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Model Details

Storage is Online Cover Level (m) 77.500

Cellular Storage Structure

Invert Level (m) 76.000 Safety Factor 2.0
Infiltration Coefficient Base (m/hr) 0.08270 Porosity 0.95
Infiltration Coefficient Side (m/hr) 0.08270

Depth (m)	Area (m ²)	Inf. Area (m ²)	Depth (m)	Area (m ²)	Inf. Area (m ²)
0.000	21.0	21.0	1.300	21.0	44.8
0.100	21.0	22.8	1.400	21.0	46.7
0.200	21.0	24.7	1.500	21.0	48.5
0.300	21.0	26.5	1.600	21.0	50.3
0.400	21.0	28.3	1.700	21.0	52.2
0.500	21.0	30.2	1.800	21.0	54.0
0.600	21.0	32.0	1.900	21.0	55.8
0.700	21.0	33.8	2.000	21.0	57.7
0.800	21.0	35.7	2.100	21.0	59.5
0.900	21.0	37.5	2.200	21.0	61.3
1.000	21.0	39.3	2.300	21.0	63.2
1.100	21.0	41.2	2.400	21.0	65.0
1.200	21.0	43.0	2.500	21.0	66.8