


Ground Floor, 24 High Street Whittlesford Cambs, CB22 4LT	MALTING LANE BRAUGHING, HERTS Road Soakaway 4	
Date 31/03/2023 11:50 File ROAD SOAKAWAY 4.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 : 329 minutes.

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m ³)	Status
15 min Summer	76.338	0.338	0.2	4.5	O K
30 min Summer	76.432	0.432	0.2	5.8	O K
60 min Summer	76.517	0.517	0.2	6.9	O K
120 min Summer	76.614	0.614	0.3	8.2	O K
180 min Summer	76.648	0.648	0.3	8.6	O K
240 min Summer	76.654	0.654	0.3	8.7	O K
360 min Summer	76.641	0.641	0.3	8.5	O K
480 min Summer	76.616	0.616	0.3	8.2	O K
600 min Summer	76.588	0.588	0.3	7.8	O K
720 min Summer	76.561	0.561	0.3	7.5	O K
960 min Summer	76.510	0.510	0.2	6.8	O K
1440 min Summer	76.424	0.424	0.2	5.6	O K
2160 min Summer	76.323	0.323	0.2	4.3	O K
2880 min Summer	76.247	0.247	0.2	3.3	O K
4320 min Summer	76.145	0.145	0.2	1.9	O K
5760 min Summer	76.085	0.085	0.2	1.1	O K
7200 min Summer	76.055	0.055	0.2	0.7	O K
8640 min Summer	76.046	0.046	0.2	0.6	O K
10080 min Summer	76.042	0.042	0.1	0.6	O K
15 min Winter	76.380	0.380	0.2	5.1	O K

Storm Event	Rain (mm/hr)	Flooded Volume (m ³)	Time-Peak (mins)
15 min Summer	138.314	0.0	18
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	234
360 min Summer	15.689	0.0	288
480 min Summer	12.373	0.0	352
600 min Summer	10.243	0.0	418
720 min Summer	8.756	0.0	486
960 min Summer	6.811	0.0	624
1440 min Summer	4.761	0.0	894
2160 min Summer	3.328	0.0	1280
2880 min Summer	2.590	0.0	1648
4320 min Summer	1.839	0.0	2376
5760 min Summer	1.457	0.0	3056
7200 min Summer	1.229	0.0	3680
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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Cambs, CB22 4LT

MALTING LANE
BRAUGHING, HERTS
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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	76.487	0.487	0.2	6.5	O K
60 min Winter	76.584	0.584	0.3	7.8	O K
120 min Winter	76.699	0.699	0.3	9.3	O K
180 min Winter	76.742	0.742	0.3	9.9	O K
240 min Winter	76.755	0.755	0.3	10.0	O K
360 min Winter	76.739	0.739	0.3	9.8	O K
480 min Winter	76.709	0.709	0.3	9.4	O K
600 min Winter	76.675	0.675	0.3	9.0	O K
720 min Winter	76.639	0.639	0.3	8.5	O K
960 min Winter	76.570	0.570	0.3	7.6	O K
1440 min Winter	76.450	0.450	0.2	6.0	O K
2160 min Winter	76.311	0.311	0.2	4.1	O K
2880 min Winter	76.209	0.209	0.2	2.8	O K
4320 min Winter	76.080	0.080	0.2	1.1	O K
5760 min Winter	76.045	0.045	0.2	0.6	O K
7200 min Winter	76.038	0.038	0.1	0.5	O K
8640 min Winter	76.034	0.034	0.1	0.4	O K
10080 min Winter	76.030	0.030	0.1	0.4	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	328
480 min Winter	12.373	0.0	372
600 min Winter	10.243	0.0	450
720 min Winter	8.756	0.0	526
960 min Winter	6.811	0.0	674
1440 min Winter	4.761	0.0	964
2160 min Winter	3.328	0.0	1364
2880 min Winter	2.590	0.0	1732
4320 min Winter	1.839	0.0	2380
5760 min Winter	1.457	0.0	2944
7200 min Winter	1.229	0.0	3680
8640 min Winter	1.077	0.0	4400
10080 min Winter	0.968	0.0	5144

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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) 0.018

Time (mins)	Area
From:	To: (ha)
0	4 0.018

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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	14.0	14.0	1.300	14.0	33.5
0.100	14.0	15.5	1.400	14.0	35.0
0.200	14.0	17.0	1.500	14.0	36.4
0.300	14.0	18.5	1.600	14.0	37.9
0.400	14.0	20.0	1.700	14.0	39.4
0.500	14.0	21.5	1.800	14.0	40.9
0.600	14.0	23.0	1.900	14.0	42.4
0.700	14.0	24.5	2.000	14.0	43.9
0.800	14.0	26.0	2.100	14.0	45.4
0.900	14.0	27.5	2.200	14.0	46.9
1.000	14.0	29.0	2.300	14.0	48.4
1.100	14.0	30.5	2.400	14.0	49.9
1.200	14.0	32.0	2.500	14.0	51.4