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Willow Cottage Herne Lane Rustington BN16 3EE		Apple Barn Cottage Climping G1 revised				
Date 27.4.19 File Geocell G1-2.SRCX		Designed by Checked by				
Micro Drainage		Source Control 2016.1				
<u>Summary of Results for 100 year Return Period (+40%)</u> Half Drain Time : 305 minutes.						
Storm Event		Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
15 min Summer		5.494	0.158	0.1	1.1	O K
30 min Summer		5.544	0.208	0.1	1.5	O K
60 min Summer		5.593	0.257	0.1	1.8	O K
120 min Summer		5.634	0.298	0.1	2.1	O K
180 min Summer		5.647	0.311	0.1	2.2	O K
240 min Summer		5.649	0.313	0.1	2.2	O K
360 min Summer		5.647	0.311	0.1	2.2	O K
480 min Summer		5.643	0.307	0.1	2.2	O K
600 min Summer		5.636	0.300	0.1	2.1	O K
720 min Summer		5.629	0.293	0.1	2.1	O K
960 min Summer		5.613	0.277	0.1	2.0	O K
1440 min Summer		5.581	0.245	0.1	1.7	O K
2160 min Summer		5.537	0.201	0.1	1.4	O K
2880 min Summer		5.500	0.164	0.1	1.2	O K
4320 min Summer		5.444	0.108	0.1	0.8	O K
5760 min Summer		5.408	0.072	0.1	0.5	O K
7200 min Summer		5.388	0.052	0.1	0.4	O K
8640 min Summer		5.381	0.045	0.0	0.3	O K
10080 min Summer		5.376	0.040	0.0	0.3	O K
15 min Winter		5.513	0.177	0.1	1.3	O K
Storm Event		Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)		
15 min Summer		124.633	0.0	18		
30 min Summer		83.789	0.0	33		
60 min Summer		53.779	0.0	62		
120 min Summer		33.337	0.0	122		
180 min Summer		24.832	0.0	180		
240 min Summer		20.006	0.0	226		
360 min Summer		14.706	0.0	284		
480 min Summer		11.818	0.0	348		
600 min Summer		9.966	0.0	416		
720 min Summer		8.665	0.0	486		
960 min Summer		6.943	0.0	624		
1440 min Summer		5.071	0.0	894		
2160 min Summer		3.696	0.0	1296		
2880 min Summer		2.949	0.0	1672		
4320 min Summer		2.142	0.0	2376		
5760 min Summer		1.705	0.0	3056		
7200 min Summer		1.427	0.0	3680		
8640 min Summer		1.235	0.0	4408		
10080 min Summer		1.093	0.0	5144		
15 min Winter		124.633	0.0	18		
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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)	19.000	Shortest Storm (mins)	15
Ratio R	0.350	Longest Storm (mins)	10080
Summer Storms	Yes	Climate Change %	+40

Time Area Diagram

Total Area (ha) 0.005

Time (mins)	Area (ha)
From:	To:
0	4 0.005

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Model Details

Storage is Online Cover Level (m) 6.236

Cellular Storage Structure

Invert Level (m)	5.336
Infiltration Coefficient Base (m/hr)	0.07272
Infiltration Coefficient Side (m/hr)	0.07272
Safety Factor	3.0
Porosity	0.95

Depth (m)	Area (m ²)	Inf. Area (m ²)	Depth (m)	Area (m ²)	Inf. Area (m ²)
0.000	7.5	7.5	0.500	0.0	11.9
0.400	7.5	11.9			

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