

Robert Clark Associates			Page 1		
Willow Cottage Herne Lane Rustington BN16 3EE		3 New Thatched Cottages Climping Street Climping			
Date 21 April 2026 File Garage geocell-100.SRCX		Designed by RTFC Checked by			
Micro Drainage		Source Control 2016.1			
Summary of Results for 100 year Return Period (+45%)					
Half Drain Time : 461 minutes.					
Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
15 min Summer	4.480	0.190	0.0	1.6	O K
30 min Summer	4.520	0.230	0.0	2.0	O K
60 min Summer	4.565	0.275	0.1	2.4	O K
120 min Summer	4.613	0.323	0.1	2.8	O K
180 min Summer	4.639	0.349	0.1	3.0	O K
240 min Summer	4.653	0.363	0.1	3.1	O K
360 min Summer	4.670	0.380	0.1	3.2	O K
480 min Summer	4.681	0.391	0.1	3.3	O K
600 min Summer	4.689	0.399	0.1	3.4	O K
720 min Summer	4.694	0.404	0.1	3.5	O K
960 min Summer	4.679	0.389	0.1	3.3	O K
1440 min Summer	4.652	0.362	0.1	3.1	O K
2160 min Summer	4.616	0.326	0.1	2.8	O K
2880 min Summer	4.587	0.297	0.1	2.5	O K
4320 min Summer	4.559	0.269	0.1	2.3	O K
5760 min Summer	4.535	0.245	0.1	2.1	O K
7200 min Summer	4.516	0.226	0.0	1.9	O K
8640 min Summer	4.500	0.210	0.0	1.8	O K
10080 min Summer	4.487	0.197	0.0	1.7	O K
15 min Winter	4.480	0.190	0.0	1.6	O K
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)		
15 min Summer	164.378	0.0	19		
30 min Summer	100.725	0.0	33		
60 min Summer	61.720	0.0	62		
120 min Summer	37.820	0.0	122		
180 min Summer	28.398	0.0	182		
240 min Summer	23.174	0.0	240		
360 min Summer	17.401	0.0	304		
480 min Summer	14.200	0.0	362		
600 min Summer	12.129	0.0	428		
720 min Summer	10.663	0.0	496		
960 min Summer	8.286	0.0	634		
1440 min Summer	5.807	0.0	908		
2160 min Summer	4.070	0.0	1300		
2880 min Summer	3.163	0.0	1700		
4320 min Summer	2.365	0.0	2464		
5760 min Summer	1.923	0.0	3224		
7200 min Summer	1.639	0.0	3960		
8640 min Summer	1.438	0.0	4672		
10080 min Summer	1.287	0.0	5440		
15 min Winter	164.378	0.0	19		
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Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
30 min Winter	4.520	0.230	0.0	2.0	O K
60 min Winter	4.566	0.276	0.1	2.4	O K
120 min Winter	4.614	0.324	0.1	2.8	O K
180 min Winter	4.640	0.350	0.1	3.0	O K
240 min Winter	4.656	0.366	0.1	3.1	O K
360 min Winter	4.671	0.381	0.1	3.3	O K
480 min Winter	4.681	0.391	0.1	3.3	O K
600 min Winter	4.687	0.397	0.1	3.4	O K
720 min Winter	4.690	0.400	0.1	3.4	O K
960 min Winter	4.670	0.380	0.1	3.3	O K
1440 min Winter	4.635	0.345	0.1	2.9	O K
2160 min Winter	4.591	0.301	0.1	2.6	O K
2880 min Winter	4.557	0.267	0.1	2.3	O K
4320 min Winter	4.521	0.231	0.0	2.0	O K
5760 min Winter	4.494	0.204	0.0	1.7	O K
7200 min Winter	4.473	0.183	0.0	1.6	O K
8640 min Winter	4.456	0.166	0.0	1.4	O K
10080 min Winter	4.443	0.153	0.0	1.3	O K
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)		
30 min Winter	100.725	0.0	33		
60 min Winter	61.720	0.0	62		
120 min Winter	37.820	0.0	120		
180 min Winter	28.398	0.0	176		
240 min Winter	23.174	0.0	232		
360 min Winter	17.401	0.0	334		
480 min Winter	14.200	0.0	376		
600 min Winter	12.129	0.0	452		
720 min Winter	10.663	0.0	528		
960 min Winter	8.286	0.0	680		
1440 min Winter	5.807	0.0	968		
2160 min Winter	4.070	0.0	1384		
2880 min Winter	3.163	0.0	1788		
4320 min Winter	2.365	0.0	2592		
5760 min Winter	1.923	0.0	3344		
7200 min Winter	1.639	0.0	4104		
8640 min Winter	1.438	0.0	4840		
10080 min Winter	1.287	0.0	5552		
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Rainfall Details

Rainfall Model	FEH
Return Period (years)	100
Site Location	500253 101363 TQ 00253 01363
C (1km)	-0.026
D1 (1km)	0.413
D2 (1km)	0.243
D3 (1km)	0.402
E (1km)	0.310
F (1km)	2.325
Summer Storms	Yes
Winter Storms	Yes
Cv (Summer)	1.000
Cv (Winter)	1.000
Shortest Storm (mins)	15
Longest Storm (mins)	10080
Climate Change %	+45

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) 5.090 Cellular Storage Structure Invert Level (m) 4.290 Safety Factor 1.5 Infiltration Coefficient Base (m/hr) 0.00000 Porosity 0.95 Infiltration Coefficient Side (m/hr) 0.09572 <table><thead><tr><th>Depth (m)</th><th>Area (m²)</th><th>Inf. Area (m²)</th><th>Depth (m)</th><th>Area (m²)</th><th>Inf. Area (m²)</th></tr></thead><tbody><tr><td>0.000</td><td>9.0</td><td>9.0</td><td>0.500</td><td>0.0</td><td>13.8</td></tr><tr><td>0.400</td><td>9.0</td><td>13.8</td><td></td><td></td><td></td></tr></tbody></table>			Depth (m)	Area (m²)	Inf. Area (m²)	Depth (m)	Area (m²)	Inf. Area (m²)	0.000	9.0	9.0	0.500	0.0	13.8	0.400	9.0	13.8			
Depth (m)	Area (m²)	Inf. Area (m²)	Depth (m)	Area (m²)	Inf. Area (m²)															
0.000	9.0	9.0	0.500	0.0	13.8															
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