

Robert Clark Associates				Page 1																																																																																																																																																																																																																			
Willow Cottage Herne Lane Rustington BN16 3EE		Abergail Clyde Road Felpham																																																																																																																																																																																																																					
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<u>Summary of Results for 10 year Return Period</u> Half Drain Time : 334 minutes. <table><thead><tr><th>Storm Event</th><th>Max Level (m)</th><th>Max Depth (m)</th><th>Max Infiltration (l/s)</th><th>Max Volume (m³)</th><th>Status</th></tr></thead><tbody><tr><td>15 min Summer</td><td>3.120</td><td>0.120</td><td>0.1</td><td>1.0</td><td>O K</td></tr><tr><td>30 min Summer</td><td>3.161</td><td>0.161</td><td>0.1</td><td>1.4</td><td>O K</td></tr><tr><td>60 min Summer</td><td>3.201</td><td>0.201</td><td>0.1</td><td>1.7</td><td>O K</td></tr><tr><td>120 min Summer</td><td>3.238</td><td>0.238</td><td>0.1</td><td>2.1</td><td>O K</td></tr><tr><td>180 min Summer</td><td>3.254</td><td>0.254</td><td>0.1</td><td>2.2</td><td>O K</td></tr><tr><td>240 min Summer</td><td>3.261</td><td>0.261</td><td>0.1</td><td>2.3</td><td>O K</td></tr><tr><td>360 min Summer</td><td>3.264</td><td>0.264</td><td>0.1</td><td>2.3</td><td>O K</td></tr><tr><td>480 min 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Summer</td><td>4.406</td><td>0.0</td><td>430</td></tr><tr><td>720 min Summer</td><td>3.855</td><td>0.0</td><td>498</td></tr><tr><td>960 min Summer</td><td>3.120</td><td>0.0</td><td>636</td></tr><tr><td>1440 min Summer</td><td>2.315</td><td>0.0</td><td>910</td></tr><tr><td>2160 min Summer</td><td>1.716</td><td>0.0</td><td>1300</td></tr><tr><td>2880 min Summer</td><td>1.387</td><td>0.0</td><td>1672</td></tr><tr><td>4320 min Summer</td><td>1.027</td><td>0.0</td><td>2376</td></tr><tr><td>5760 min Summer</td><td>0.829</td><td>0.0</td><td>3048</td></tr><tr><td>7200 min Summer</td><td>0.702</td><td>0.0</td><td>3672</td></tr><tr><td>8640 min Summer</td><td>0.614</td><td>0.0</td><td>4408</td></tr><tr><td>10080 min Summer</td><td>0.547</td><td>0.0</td><td>5144</td></tr><tr><td>15 min Winter</td><td>54.438</td><td>0.0</td><td>18</td></tr></tbody></table>						Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status	15 min Summer	3.120	0.120	0.1	1.0	O K	30 min 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Micro Drainage		Source Control 2016.1			
Summary of Results for 10 year Return Period					
Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
30 min Winter	3.183	0.183	0.1	1.6	O K
60 min Winter	3.229	0.229	0.1	2.0	O K
120 min Winter	3.272	0.272	0.1	2.4	O K
180 min Winter	3.292	0.292	0.1	2.5	O K
240 min Winter	3.302	0.302	0.1	2.6	O K
360 min Winter	3.308	0.308	0.1	2.7	O K
480 min Winter	3.305	0.305	0.1	2.6	O K
600 min Winter	3.301	0.301	0.1	2.6	O K
720 min Winter	3.294	0.294	0.1	2.5	O K
960 min Winter	3.278	0.278	0.1	2.4	O K
1440 min Winter	3.238	0.238	0.1	2.1	O K
2160 min Winter	3.177	0.177	0.1	1.5	O K
2880 min Winter	3.125	0.125	0.1	1.1	O K
4320 min Winter	3.056	0.056	0.1	0.5	O K
5760 min Winter	3.043	0.043	0.1	0.4	O K
7200 min Winter	3.036	0.036	0.0	0.3	O K
8640 min Winter	3.032	0.032	0.0	0.3	O K
10080 min Winter	3.028	0.028	0.0	0.2	O K
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)		
30 min Winter	35.921	0.0	33		
60 min Winter	22.792	0.0	62		
120 min Winter	14.111	0.0	120		
180 min Winter	10.575	0.0	176		
240 min Winter	8.591	0.0	232		
360 min Winter	6.398	0.0	340		
480 min Winter	5.187	0.0	392		
600 min Winter	4.406	0.0	464		
720 min Winter	3.855	0.0	542		
960 min Winter	3.120	0.0	694		
1440 min Winter	2.315	0.0	984		
2160 min Winter	1.716	0.0	1388		
2880 min Winter	1.387	0.0	1756		
4320 min Winter	1.027	0.0	2336		
5760 min Winter	0.829	0.0	2992		
7200 min Winter	0.702	0.0	3680		
8640 min Winter	0.614	0.0	4408		
10080 min Winter	0.547	0.0	5144		
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Micro Drainage Source Control 2016.1		

Rainfall Details

Rainfall Model	FSR	Winter Storms	Yes
Return Period (years)	10	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 %	+0

Time Area Diagram

Total Area (ha) 0.012

Time (mins)	Area
From: To:	(ha)
0 4	0.012

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Model Details

Storage is Online Cover Level (m) 3.950

Porous Car Park Structure

Infiltration Coefficient Base (m/hr) 0.01664	Width (m) 6.0
Membrane Percolation (mm/hr) 1000	Length (m) 4.8
Max Percolation (l/s) 8.0	Slope (1:X) 0.0
Safety Factor 2.0	Depression Storage (mm) 5
Porosity 0.30	Evaporation (mm/day) 3
Invert Level (m) 3.000	Membrane Depth (m) 0

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