

Robert Clark Associates				Page 1																																																																																																																																																																																																																			
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<u>Summary of Results for 100 year Return Period (+40%)</u> Half Drain Time : 45 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>10.067</td><td>0.247</td><td>0.3</td><td>1.2</td><td>○ K</td></tr><tr><td>30 min Summer</td><td>10.122</td><td>0.302</td><td>0.4</td><td>1.4</td><td>○ K</td></tr><tr><td>60 min Summer</td><td>10.151</td><td>0.331</td><td>0.4</td><td>1.6</td><td>○ K</td></tr><tr><td>120 min Summer</td><td>10.149</td><td>0.329</td><td>0.4</td><td>1.6</td><td>○ K</td></tr><tr><td>180 min Summer</td><td>10.128</td><td>0.308</td><td>0.4</td><td>1.5</td><td>○ K</td></tr><tr><td>240 min Summer</td><td>10.102</td><td>0.282</td><td>0.4</td><td>1.3</td><td>○ K</td></tr><tr><td>360 min Summer</td><td>10.056</td><td>0.236</td><td>0.3</td><td>1.1</td><td>○ K</td></tr><tr><td>480 min 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Summer</td><td>9.833</td><td>0.013</td><td>0.1</td><td>0.1</td><td>○ K</td></tr><tr><td>10080 min Summer</td><td>9.831</td><td>0.011</td><td>0.1</td><td>0.1</td><td>○ K</td></tr><tr><td>15 min Winter</td><td>10.100</td><td>0.280</td><td>0.3</td><td>1.3</td><td>○ K</td></tr></tbody></table> <table><thead><tr><th>Storm Event</th><th>Rain (mm/hr)</th><th>Flooded Volume (m³)</th><th>Time-Peak (mins)</th></tr></thead><tbody><tr><td>15 min Summer</td><td>124.801</td><td>0.0</td><td>17</td></tr><tr><td>30 min Summer</td><td>84.304</td><td>0.0</td><td>30</td></tr><tr><td>60 min Summer</td><td>54.368</td><td>0.0</td><td>46</td></tr><tr><td>120 min Summer</td><td>33.837</td><td>0.0</td><td>82</td></tr><tr><td>180 min Summer</td><td>25.243</td><td>0.0</td><td>116</td></tr><tr><td>240 min Summer</td><td>20.348</td><td>0.0</td><td>150</td></tr><tr><td>360 min Summer</td><td>15.008</td><td>0.0</td><td>214</td></tr><tr><td>480 min Summer</td><td>12.080</td><td>0.0</td><td>278</td></tr><tr><td>600 min 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Summer	10.122	0.302	0.4	1.4	○ K	60 min Summer	10.151	0.331	0.4	1.6	○ K	120 min Summer	10.149	0.329	0.4	1.6	○ K	180 min Summer	10.128	0.308	0.4	1.5	○ K	240 min Summer	10.102	0.282	0.4	1.3	○ K	360 min Summer	10.056	0.236	0.3	1.1	○ K	480 min Summer	10.016	0.196	0.3	0.9	○ K	600 min Summer	9.982	0.162	0.3	0.8	○ K	720 min Summer	9.954	0.134	0.3	0.6	○ K	960 min Summer	9.910	0.090	0.3	0.4	○ K	1440 min Summer	9.869	0.049	0.2	0.2	○ K	2160 min Summer	9.857	0.037	0.2	0.2	○ K	2880 min Summer	9.849	0.029	0.1	0.1	○ K	4320 min Summer	9.842	0.022	0.1	0.1	○ K	5760 min Summer	9.837	0.017	0.1	0.1	○ K	7200 min Summer	9.834	0.014	0.1	0.1	○ K	8640 min Summer	9.833	0.013	0.1	0.1	○ K	10080 min Summer	9.831	0.011	0.1	0.1	○ K	15 min Winter	10.100	0.280	0.3	1.3	○ K	Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)	15 min Summer	124.801	0.0	17	30 min Summer	84.304	0.0	30	60 min Summer	54.368	0.0	46	120 min Summer	33.837	0.0	82	180 min Summer	25.243	0.0	116	240 min Summer	20.348	0.0	150	360 min 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960 min Winter	9.869	0.049	0.2	0.2	○ K																																																																																																																																																																																														
1440 min Winter	9.856	0.036	0.2	0.2	○ K																																																																																																																																																																																														
2160 min Winter	9.847	0.027	0.1	0.1	○ K																																																																																																																																																																																														
2880 min Winter	9.841	0.021	0.1	0.1	○ K																																																																																																																																																																																														
4320 min Winter	9.836	0.016	0.1	0.1	○ K																																																																																																																																																																																														
5760 min Winter	9.832	0.012	0.1	0.1	○ K																																																																																																																																																																																														
7200 min Winter	9.831	0.011	0.1	0.1	○ K																																																																																																																																																																																														
8640 min Winter	9.829	0.009	0.0	0.0	○ K																																																																																																																																																																																														
10080 min Winter	9.828	0.008	0.0	0.0	○ K																																																																																																																																																																																														
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)																																																																																																																																																																																																
30 min Winter	84.304	0.0	30																																																																																																																																																																																																
60 min Winter	54.368	0.0	50																																																																																																																																																																																																
120 min Winter	33.837	0.0	88																																																																																																																																																																																																
180 min Winter	25.243	0.0	124																																																																																																																																																																																																
240 min Winter	20.348	0.0	160																																																																																																																																																																																																
360 min Winter	15.008	0.0	228																																																																																																																																																																																																
480 min Winter	12.080	0.0	292																																																																																																																																																																																																
600 min Winter	10.198	0.0	352																																																																																																																																																																																																
720 min Winter	8.876	0.0	408																																																																																																																																																																																																
960 min Winter	7.123	0.0	492																																																																																																																																																																																																
1440 min Winter	5.212	0.0	736																																																																																																																																																																																																
2160 min Winter	3.806	0.0	1096																																																																																																																																																																																																
2880 min Winter	3.040	0.0	1468																																																																																																																																																																																																
4320 min Winter	2.211	0.0	2200																																																																																																																																																																																																
5760 min Winter	1.762	0.0	2936																																																																																																																																																																																																
7200 min Winter	1.478	0.0	3640																																																																																																																																																																																																
8640 min Winter	1.281	0.0	4344																																																																																																																																																																																																
10080 min Winter	1.135	0.0	5136																																																																																																																																																																																																
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Robert Clark Associates		Page 3																														
Willow Cottage Herne Lane Rustington BN16 3EE	The Studio Tudor Drive Westergate																															
Date 19 April 2020 File G1-100.SRCX	Designed by RC Checked by																															
Micro Drainage		Source Control 2016.1																														
<u>Rainfall Details</u> <table> <tr> <td>Rainfall Model</td> <td>FSR</td> <td>Winter Storms</td> <td>Yes</td> </tr> <tr> <td>Return Period (years)</td> <td>100</td> <td>Cv (Summer)</td> <td>0.750</td> </tr> <tr> <td>Region</td> <td>England and Wales</td> <td>Cv (Winter)</td> <td>0.840</td> </tr> <tr> <td>M5-60 (mm)</td> <td>19.200</td> <td>Shortest Storm (mins)</td> <td>15</td> </tr> <tr> <td>Ratio R</td> <td>0.340</td> <td>Longest Storm (mins)</td> <td>10080</td> </tr> <tr> <td>Summer Storms</td> <td>Yes</td> <td>Climate Change %</td> <td>+40</td> </tr> </table> <u>Time Area Diagram</u> Total Area (ha) 0.006 <table> <tr> <td>Time (mins)</td> <td>Area</td> </tr> <tr> <td>From: To:</td> <td>(ha)</td> </tr> <tr> <td>0</td> <td>4 0.006</td> </tr> </table>			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)	19.200	Shortest Storm (mins)	15	Ratio R	0.340	Longest Storm (mins)	10080	Summer Storms	Yes	Climate Change %	+40	Time (mins)	Area	From: To:	(ha)	0	4 0.006
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<u>Model Details</u> Storage is Online Cover Level (m) 10.820 <u>Cellular Storage Structure</u> Invert Level (m) 9.820 Safety Factor 2.0 Infiltration Coefficient Base (m/hr) 0.33458 Porosity 0.95 Infiltration Coefficient Side (m/hr) 0.33458 <table border="1" style="width: 100%; border-collapse: collapse;"> <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>5.0</td> <td>5.0</td> <td>0.500</td> <td>0.0</td> <td>8.6</td> </tr> <tr> <td>0.400</td> <td>5.0</td> <td>8.6</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>			Depth (m)	Area (m ²)	Inf. Area (m ²)	Depth (m)	Area (m ²)	Inf. Area (m ²)	0.000	5.0	5.0	0.500	0.0	8.6	0.400	5.0	8.6			
Depth (m)	Area (m ²)	Inf. Area (m ²)	Depth (m)	Area (m ²)	Inf. Area (m ²)															
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