

Odyssey		Page 1																																																																																																																																																																																																																		
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<u>Summary of Results for 10 year Return Period</u> Half Drain Time : 782 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>0.049</td><td>0.049</td><td>0.1</td><td>1.8</td><td>O K</td></tr><tr><td>30 min Summer</td><td>0.064</td><td>0.064</td><td>0.1</td><td>2.4</td><td>O K</td></tr><tr><td>60 min Summer</td><td>0.079</td><td>0.079</td><td>0.1</td><td>3.0</td><td>O K</td></tr><tr><td>120 min Summer</td><td>0.096</td><td>0.096</td><td>0.1</td><td>3.6</td><td>O K</td></tr><tr><td>180 min Summer</td><td>0.105</td><td>0.105</td><td>0.1</td><td>4.0</td><td>Flood Risk</td></tr><tr><td>240 min Summer</td><td>0.110</td><td>0.110</td><td>0.1</td><td>4.2</td><td>Flood Risk</td></tr><tr><td>360 min Summer</td><td>0.115</td><td>0.115</td><td>0.1</td><td>4.4</td><td>Flood Risk</td></tr><tr><td>480 min 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K</td></tr><tr><td>8640 min Summer</td><td>0.066</td><td>0.066</td><td>0.1</td><td>2.5</td><td>O K</td></tr><tr><td>10080 min Summer</td><td>0.062</td><td>0.062</td><td>0.1</td><td>2.3</td><td>O K</td></tr><tr><td>15 min Winter</td><td>0.055</td><td>0.055</td><td>0.1</td><td>2.1</td><td>O 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>62.586</td><td>0.0</td><td>19</td></tr><tr><td>30 min Summer</td><td>41.202</td><td>0.0</td><td>34</td></tr><tr><td>60 min Summer</td><td>26.034</td><td>0.0</td><td>64</td></tr><tr><td>120 min Summer</td><td>16.170</td><td>0.0</td><td>122</td></tr><tr><td>180 min Summer</td><td>12.091</td><td>0.0</td><td>182</td></tr><tr><td>240 min Summer</td><td>9.769</td><td>0.0</td><td>242</td></tr><tr><td>360 min Summer</td><td>7.145</td><td>0.0</td><td>362</td></tr><tr><td>480 min 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Volume (m³)	Status	15 min Summer	0.049	0.049	0.1	1.8	O K	30 min Summer	0.064	0.064	0.1	2.4	O K	60 min Summer	0.079	0.079	0.1	3.0	O K	120 min Summer	0.096	0.096	0.1	3.6	O K	180 min Summer	0.105	0.105	0.1	4.0	Flood Risk	240 min Summer	0.110	0.110	0.1	4.2	Flood Risk	360 min Summer	0.115	0.115	0.1	4.4	Flood Risk	480 min Summer	0.117	0.117	0.1	4.4	Flood Risk	600 min Summer	0.116	0.116	0.1	4.4	Flood Risk	720 min Summer	0.115	0.115	0.1	4.4	Flood Risk	960 min Summer	0.113	0.113	0.1	4.3	Flood Risk	1440 min Summer	0.108	0.108	0.1	4.1	Flood Risk	2160 min Summer	0.101	0.101	0.1	3.8	Flood Risk	2880 min Summer	0.095	0.095	0.1	3.6	O K	4320 min Summer	0.085	0.085	0.1	3.2	O K	5760 min Summer	0.077	0.077	0.1	2.9	O K	7200 min Summer	0.071	0.071	0.1	2.7	O K	8640 min Summer	0.066	0.066	0.1	2.5	O K	10080 min Summer	0.062	0.062	0.1	2.3	O K	15 min Winter	0.055	0.055	0.1	2.1	O K	Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)	15 min Summer	62.586	0.0	19	30 min Summer	41.202	0.0	34	60 min 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File Plots 15-17.SRCX	Checked by				
Micro Drainage	Source Control 2020.1				
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	0.072	0.072	0.1	2.7	O K
60 min Winter	0.089	0.089	0.1	3.4	O K
120 min Winter	0.108	0.108	0.1	4.1	Flood Risk
180 min Winter	0.119	0.119	0.1	4.5	Flood Risk
240 min Winter	0.125	0.125	0.1	4.7	Flood Risk
360 min Winter	0.131	0.131	0.1	5.0	Flood Risk
480 min Winter	0.133	0.133	0.1	5.0	Flood Risk
600 min Winter	0.133	0.133	0.1	5.0	Flood Risk
720 min Winter	0.132	0.132	0.1	5.0	Flood Risk
960 min Winter	0.129	0.129	0.1	4.9	Flood Risk
1440 min Winter	0.122	0.122	0.1	4.6	Flood Risk
2160 min Winter	0.111	0.111	0.1	4.2	Flood Risk
2880 min Winter	0.101	0.101	0.1	3.8	Flood Risk
4320 min Winter	0.084	0.084	0.1	3.2	O K
5760 min Winter	0.071	0.071	0.1	2.7	O K
7200 min Winter	0.060	0.060	0.1	2.3	O K
8640 min Winter	0.053	0.053	0.1	2.0	O K
10080 min Winter	0.049	0.049	0.1	1.9	O K
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)		
30 min Winter	41.202	0.0	33		
60 min Winter	26.034	0.0	62		
120 min Winter	16.170	0.0	120		
180 min Winter	12.091	0.0	180		
240 min Winter	9.769	0.0	238		
360 min Winter	7.145	0.0	354		
480 min Winter	5.686	0.0	466		
600 min Winter	4.751	0.0	578		
720 min Winter	4.098	0.0	684		
960 min Winter	3.242	0.0	808		
1440 min Winter	2.335	0.0	1082		
2160 min Winter	1.695	0.0	1536		
2880 min Winter	1.362	0.0	1960		
4320 min Winter	1.021	0.0	2768		
5760 min Winter	0.845	0.0	3520		
7200 min Winter	0.738	0.0	4248		
8640 min Winter	0.667	0.0	4848		
10080 min Winter	0.615	0.0	5544		
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Tuscany House White Hart Lane Basingstoke RG21 4AF	Stakers Farm, Yapton 19-156 Plots 15-17	
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Micro Drainage Source Control 2020.1		

Rainfall Details

Rainfall Model	FEH
Return Period (years)	10
FEH Rainfall Version	2013
Site Location	GB 497682 103581 SU 97682 03581
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 %	+0

Time Area Diagram

Total Area (ha) 0.016

	Time (mins)	Area
From:	To:	(ha)
	0	4 0.016

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<u>Model Details</u> Storage is Online Cover Level (m) 0.400 <u>Infiltration Blanket Structure</u> <table style="margin-left: auto; margin-right: auto;"> <tr> <td>Infiltration Coefficient Base (m/hr)</td> <td>0.00648</td> <td>Diameter/Width (m)</td> <td>3.0</td> </tr> <tr> <td>Safety Factor</td> <td>2.0</td> <td>Length (m)</td> <td>20.0</td> </tr> <tr> <td>Porosity</td> <td>0.63</td> <td>Cap Volume Depth (m)</td> <td>0.000</td> </tr> <tr> <td>Invert Level (m)</td> <td>0.000</td> <td></td> <td></td> </tr> </table>			Infiltration Coefficient Base (m/hr)	0.00648	Diameter/Width (m)	3.0	Safety Factor	2.0	Length (m)	20.0	Porosity	0.63	Cap Volume Depth (m)	0.000	Invert Level (m)	0.000		
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