

Odyssey				Page 1																																																																																																																																																																																																																			
Tuscany House White Hart Lane Basingstoke RG21 4AF		Stakers Farm, Yapton 19-156 Blanket 6																																																																																																																																																																																																																					
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<u>Summary of Results for 10 year Return Period (+40%)</u> Half Drain Time : 1373 minutes. <table><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><tr><td>15 min Summer</td><td>0.049</td><td>0.049</td><td>0.0</td><td>0.5</td><td>O K</td></tr><tr><td>30 min Summer</td><td>0.064</td><td>0.064</td><td>0.0</td><td>0.6</td><td>O K</td></tr><tr><td>60 min Summer</td><td>0.080</td><td>0.080</td><td>0.0</td><td>0.8</td><td>O K</td></tr><tr><td>120 min Summer</td><td>0.098</td><td>0.098</td><td>0.0</td><td>1.0</td><td>O K</td></tr><tr><td>180 min Summer</td><td>0.108</td><td>0.108</td><td>0.0</td><td>1.1</td><td>Flood Risk</td></tr><tr><td>240 min Summer</td><td>0.115</td><td>0.115</td><td>0.0</td><td>1.1</td><td>Flood Risk</td></tr><tr><td>360 min Summer</td><td>0.122</td><td>0.122</td><td>0.0</td><td>1.2</td><td>Flood Risk</td></tr><tr><td>480 min Summer</td><td>0.126</td><td>0.126</td><td>0.0</td><td>1.3</td><td>Flood Risk</td></tr><tr><td>600 min Summer</td><td>0.128</td><td>0.128</td><td>0.0</td><td>1.3</td><td>Flood Risk</td></tr><tr><td>720 min Summer</td><td>0.129</td><td>0.129</td><td>0.0</td><td>1.3</td><td>Flood Risk</td></tr><tr><td>960 min Summer</td><td>0.128</td><td>0.128</td><td>0.0</td><td>1.3</td><td>Flood Risk</td></tr><tr><td>1440 min Summer</td><td>0.126</td><td>0.126</td><td>0.0</td><td>1.3</td><td>Flood Risk</td></tr><tr><td>2160 min Summer</td><td>0.122</td><td>0.122</td><td>0.0</td><td>1.2</td><td>Flood Risk</td></tr><tr><td>2880 min Summer</td><td>0.120</td><td>0.120</td><td>0.0</td><td>1.2</td><td>Flood Risk</td></tr><tr><td>4320 min Summer</td><td>0.115</td><td>0.115</td><td>0.0</td><td>1.1</td><td>Flood Risk</td></tr><tr><td>5760 min Summer</td><td>0.111</td><td>0.111</td><td>0.0</td><td>1.1</td><td>Flood Risk</td></tr><tr><td>7200 min 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Summer</td><td>10.003</td><td>0.0</td><td>362</td></tr><tr><td>480 min Summer</td><td>7.960</td><td>0.0</td><td>482</td></tr><tr><td>600 min Summer</td><td>6.652</td><td>0.0</td><td>602</td></tr><tr><td>720 min Summer</td><td>5.738</td><td>0.0</td><td>720</td></tr><tr><td>960 min Summer</td><td>4.539</td><td>0.0</td><td>960</td></tr><tr><td>1440 min Summer</td><td>3.269</td><td>0.0</td><td>1182</td></tr><tr><td>2160 min Summer</td><td>2.374</td><td>0.0</td><td>1556</td></tr><tr><td>2880 min Summer</td><td>1.907</td><td>0.0</td><td>1960</td></tr><tr><td>4320 min Summer</td><td>1.430</td><td>0.0</td><td>2772</td></tr><tr><td>5760 min Summer</td><td>1.183</td><td>0.0</td><td>3624</td></tr><tr><td>7200 min Summer</td><td>1.034</td><td>0.0</td><td>4400</td></tr><tr><td>8640 min Summer</td><td>0.933</td><td>0.0</td><td>5192</td></tr><tr><td>10080 min Summer</td><td>0.861</td><td>0.0</td><td>6048</td></tr><tr><td>15 min Winter</td><td>87.620</td><td>0.0</td><td>19</td></tr></table>						Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status	15 min Summer	0.049	0.049	0.0	0.5	O K	30 min Summer	0.064	0.064	0.0	0.6	O K	60 min Summer	0.080	0.080	0.0	0.8	O K	120 min Summer	0.098	0.098	0.0	1.0	O K	180 min Summer	0.108	0.108	0.0	1.1	Flood Risk	240 min Summer	0.115	0.115	0.0	1.1	Flood Risk	360 min Summer	0.122	0.122	0.0	1.2	Flood Risk	480 min Summer	0.126	0.126	0.0	1.3	Flood Risk	600 min Summer	0.128	0.128	0.0	1.3	Flood Risk	720 min Summer	0.129	0.129	0.0	1.3	Flood Risk	960 min Summer	0.128	0.128	0.0	1.3	Flood Risk	1440 min Summer	0.126	0.126	0.0	1.3	Flood Risk	2160 min Summer	0.122	0.122	0.0	1.2	Flood Risk	2880 min Summer	0.120	0.120	0.0	1.2	Flood Risk	4320 min Summer	0.115	0.115	0.0	1.1	Flood Risk	5760 min Summer	0.111	0.111	0.0	1.1	Flood Risk	7200 min Summer	0.108	0.108	0.0	1.1	Flood Risk	8640 min Summer	0.106	0.106	0.0	1.1	Flood Risk	10080 min Summer	0.104	0.104	0.0	1.0	Flood Risk	15 min Winter	0.055	0.055	0.0	0.5	O K	Storm Event	Rain 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Tuscany House White Hart Lane Basingstoke RG21 4AF	Stakers Farm, Yapton 19-156 Blanket 6				
Date 30/04/2021 14:07 File 19-156_Blanket 6.SRCX	Designed by AK Checked by				
Micro Drainage					
Source Control 2020.1.3					
<u>Summary of Results for 10 year Return Period (+40%)</u>					
Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
30 min Winter	0.072	0.072	0.0	0.7	O K
60 min Winter	0.090	0.090	0.0	0.9	O K
120 min Winter	0.110	0.110	0.0	1.1	Flood Risk
180 min Winter	0.122	0.122	0.0	1.2	Flood Risk
240 min Winter	0.129	0.129	0.0	1.3	Flood Risk
360 min Winter	0.138	0.138	0.0	1.4	Flood Risk
480 min Winter	0.143	0.143	0.0	1.4	Flood Risk
600 min Winter	0.145	0.145	0.0	1.5	Flood Risk
720 min Winter	0.147	0.147	0.0	1.5	Flood Risk
960 min Winter	0.147	0.147	0.0	1.5	Flood Risk
1440 min Winter	0.144	0.144	0.0	1.4	Flood Risk
2160 min Winter	0.139	0.139	0.0	1.4	Flood Risk
2880 min Winter	0.134	0.134	0.0	1.3	Flood Risk
4320 min Winter	0.126	0.126	0.0	1.3	Flood Risk
5760 min Winter	0.118	0.118	0.0	1.2	Flood Risk
7200 min Winter	0.111	0.111	0.0	1.1	Flood Risk
8640 min Winter	0.105	0.105	0.0	1.0	Flood Risk
10080 min Winter	0.100	0.100	0.0	1.0	O K
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)		
30 min Winter	57.683	0.0	33		
60 min Winter	36.448	0.0	62		
120 min Winter	22.639	0.0	122		
180 min Winter	16.928	0.0	180		
240 min Winter	13.676	0.0	240		
360 min Winter	10.003	0.0	356		
480 min Winter	7.960	0.0	472		
600 min Winter	6.652	0.0	588		
720 min Winter	5.738	0.0	702		
960 min Winter	4.539	0.0	926		
1440 min Winter	3.269	0.0	1354		
2160 min Winter	2.374	0.0	1668		
2880 min Winter	1.907	0.0	2132		
4320 min Winter	1.430	0.0	3028		
5760 min Winter	1.183	0.0	3920		
7200 min Winter	1.034	0.0	4760		
8640 min Winter	0.933	0.0	5616		
10080 min Winter	0.861	0.0	6448		
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<u>Rainfall Details</u> <table> <tr> <td>Rainfall Model</td> <td>FEH</td> </tr> <tr> <td>Return Period (years)</td> <td>10</td> </tr> <tr> <td>FEH Rainfall Version</td> <td>2013</td> </tr> <tr> <td>Site Location</td> <td>GB 497682 103581 SU 97682 03581</td> </tr> <tr> <td>Data Type</td> <td>Point</td> </tr> <tr> <td>Summer Storms</td> <td>Yes</td> </tr> <tr> <td>Winter Storms</td> <td>Yes</td> </tr> <tr> <td>Cv (Summer)</td> <td>0.750</td> </tr> <tr> <td>Cv (Winter)</td> <td>0.840</td> </tr> <tr> <td>Shortest Storm (mins)</td> <td>15</td> </tr> <tr> <td>Longest Storm (mins)</td> <td>10080</td> </tr> <tr> <td>Climate Change %</td> <td>+40</td> </tr> </table> <u>Time Area Diagram</u> Total Area (ha) 0.003 <table> <thead> <tr> <th>Time (mins)</th> <th>Area</th> </tr> <tr> <th>From:</th> <th>To: (ha)</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>4 0.003</td> </tr> </tbody> </table>			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 %	+40	Time (mins)	Area	From:	To: (ha)	0	4 0.003
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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>0.00612</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>3.5</td> </tr> <tr> <td>Porosity</td> <td>0.95</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)	0.00612	Diameter/Width (m)	3.0	Safety Factor	2.0	Length (m)	3.5	Porosity	0.95	Cap Volume Depth (m)	0.000	Invert Level (m)	0.000		
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