

Odyssey			Page 1																																																																																																																																																																																																																				
Tuscany House White Hart Lane Basingstoke RG21 4AF		Stakers Farm, Yapton As Built - Access Road Plots 33-34																																																																																																																																																																																																																					
Date 20/04/2022 12:10 File As-built_Acces Road Flo...		Designed by WindesPC5 Checked by																																																																																																																																																																																																																					
Innovyze		Source Control 2020.1.3																																																																																																																																																																																																																					
<u>Summary of Results for 100 year Return Period (+40%)</u> Half Drain Time : 591 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>6.697</td><td>0.153</td><td>0.2</td><td>4.4</td><td>O K</td></tr><tr><td>30 min Summer</td><td>6.726</td><td>0.182</td><td>0.2</td><td>6.2</td><td>O K</td></tr><tr><td>60 min Summer</td><td>6.756</td><td>0.212</td><td>0.2</td><td>8.1</td><td>O K</td></tr><tr><td>120 min Summer</td><td>6.778</td><td>0.234</td><td>0.2</td><td>9.5</td><td>Flood Risk</td></tr><tr><td>180 min Summer</td><td>6.789</td><td>0.245</td><td>0.2</td><td>10.2</td><td>Flood Risk</td></tr><tr><td>240 min Summer</td><td>6.795</td><td>0.251</td><td>0.2</td><td>10.5</td><td>Flood Risk</td></tr><tr><td>360 min Summer</td><td>6.797</td><td>0.253</td><td>0.2</td><td>10.7</td><td>Flood Risk</td></tr><tr><td>480 min Summer</td><td>6.796</td><td>0.252</td><td>0.2</td><td>10.6</td><td>Flood Risk</td></tr><tr><td>600 min Summer</td><td>6.793</td><td>0.249</td><td>0.2</td><td>10.4</td><td>Flood Risk</td></tr><tr><td>720 min Summer</td><td>6.791</td><td>0.247</td><td>0.2</td><td>10.3</td><td>Flood Risk</td></tr><tr><td>960 min Summer</td><td>6.785</td><td>0.241</td><td>0.2</td><td>9.9</td><td>Flood Risk</td></tr><tr><td>1440 min Summer</td><td>6.773</td><td>0.229</td><td>0.2</td><td>9.2</td><td>Flood Risk</td></tr><tr><td>2160 min Summer</td><td>6.756</td><td>0.212</td><td>0.2</td><td>8.1</td><td>O K</td></tr><tr><td>2880 min Summer</td><td>6.742</td><td>0.198</td><td>0.2</td><td>7.2</td><td>O K</td></tr><tr><td>4320 min Summer</td><td>6.720</td><td>0.176</td><td>0.2</td><td>5.8</td><td>O K</td></tr><tr><td>5760 min Summer</td><td>6.707</td><td>0.163</td><td>0.2</td><td>5.0</td><td>O K</td></tr><tr><td>7200 min Summer</td><td>6.698</td><td>0.154</td><td>0.2</td><td>4.5</td><td>O K</td></tr><tr><td>8640 min Summer</td><td>6.691</td><td>0.147</td><td>0.2</td><td>4.0</td><td>O K</td></tr><tr><td>10080 min Summer</td><td>6.686</td><td>0.142</td><td>0.1</td><td>3.7</td><td>O K</td></tr><tr><td>15 min Winter</td><td>6.708</td><td>0.164</td><td>0.2</td><td>5.1</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>141.164</td><td>0.0</td><td>19</td></tr><tr><td>30 min Summer</td><td>94.700</td><td>0.0</td><td>33</td></tr><tr><td>60 min Summer</td><td>60.903</td><td>0.0</td><td>64</td></tr><tr><td>120 min Summer</td><td>36.128</td><td>0.0</td><td>122</td></tr><tr><td>180 min Summer</td><td>26.473</td><td>0.0</td><td>182</td></tr><tr><td>240 min Summer</td><td>21.126</td><td>0.0</td><td>242</td></tr><tr><td>360 min Summer</td><td>15.214</td><td>0.0</td><td>360</td></tr><tr><td>480 min Summer</td><td>12.016</td><td>0.0</td><td>450</td></tr><tr><td>600 min Summer</td><td>9.993</td><td>0.0</td><td>500</td></tr><tr><td>720 min Summer</td><td>8.590</td><td>0.0</td><td>558</td></tr><tr><td>960 min Summer</td><td>6.756</td><td>0.0</td><td>684</td></tr><tr><td>1440 min Summer</td><td>4.823</td><td>0.0</td><td>952</td></tr><tr><td>2160 min Summer</td><td>3.462</td><td>0.0</td><td>1360</td></tr><tr><td>2880 min Summer</td><td>2.754</td><td>0.0</td><td>1732</td></tr><tr><td>4320 min Summer</td><td>2.025</td><td>0.0</td><td>2468</td></tr><tr><td>5760 min Summer</td><td>1.648</td><td>0.0</td><td>3224</td></tr><tr><td>7200 min Summer</td><td>1.419</td><td>0.0</td><td>3960</td></tr><tr><td>8640 min Summer</td><td>1.264</td><td>0.0</td><td>4672</td></tr><tr><td>10080 min Summer</td><td>1.153</td><td>0.0</td><td>5440</td></tr><tr><td>15 min Winter</td><td>141.164</td><td>0.0</td><td>19</td></tr></tbody></table>						Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status	15 min Summer	6.697	0.153	0.2	4.4	O K	30 min Summer	6.726	0.182	0.2	6.2	O K	60 min Summer	6.756	0.212	0.2	8.1	O K	120 min Summer	6.778	0.234	0.2	9.5	Flood Risk	180 min Summer	6.789	0.245	0.2	10.2	Flood Risk	240 min Summer	6.795	0.251	0.2	10.5	Flood Risk	360 min Summer	6.797	0.253	0.2	10.7	Flood Risk	480 min Summer	6.796	0.252	0.2	10.6	Flood Risk	600 min Summer	6.793	0.249	0.2	10.4	Flood Risk	720 min Summer	6.791	0.247	0.2	10.3	Flood Risk	960 min Summer	6.785	0.241	0.2	9.9	Flood Risk	1440 min Summer	6.773	0.229	0.2	9.2	Flood Risk	2160 min Summer	6.756	0.212	0.2	8.1	O K	2880 min Summer	6.742	0.198	0.2	7.2	O K	4320 min Summer	6.720	0.176	0.2	5.8	O K	5760 min Summer	6.707	0.163	0.2	5.0	O K	7200 min Summer	6.698	0.154	0.2	4.5	O K	8640 min Summer	6.691	0.147	0.2	4.0	O K	10080 min Summer	6.686	0.142	0.1	3.7	O K	15 min Winter	6.708	0.164	0.2	5.1	O K	Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)	15 min Summer	141.164	0.0	19	30 min Summer	94.700	0.0	33	60 min Summer	60.903	0.0	64	120 min Summer	36.128	0.0	122	180 min Summer	26.473	0.0	182	240 min Summer	21.126	0.0	242	360 min Summer	15.214	0.0	360	480 min Summer	12.016	0.0	450	600 min Summer	9.993	0.0	500	720 min Summer	8.590	0.0	558	960 min Summer	6.756	0.0	684	1440 min Summer	4.823	0.0	952	2160 min Summer	3.462	0.0	1360	2880 min Summer	2.754	0.0	1732	4320 min Summer	2.025	0.0	2468	5760 min Summer	1.648	0.0	3224	7200 min Summer	1.419	0.0	3960	8640 min Summer	1.264	0.0	4672	10080 min Summer	1.153	0.0	5440	15 min Winter	141.164	0.0	19
Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status																																																																																																																																																																																																																		
15 min Summer	6.697	0.153	0.2	4.4	O K																																																																																																																																																																																																																		
30 min Summer	6.726	0.182	0.2	6.2	O K																																																																																																																																																																																																																		
60 min Summer	6.756	0.212	0.2	8.1	O K																																																																																																																																																																																																																		
120 min Summer	6.778	0.234	0.2	9.5	Flood Risk																																																																																																																																																																																																																		
180 min Summer	6.789	0.245	0.2	10.2	Flood Risk																																																																																																																																																																																																																		
240 min Summer	6.795	0.251	0.2	10.5	Flood Risk																																																																																																																																																																																																																		
360 min Summer	6.797	0.253	0.2	10.7	Flood Risk																																																																																																																																																																																																																		
480 min Summer	6.796	0.252	0.2	10.6	Flood Risk																																																																																																																																																																																																																		
600 min Summer	6.793	0.249	0.2	10.4	Flood Risk																																																																																																																																																																																																																		
720 min Summer	6.791	0.247	0.2	10.3	Flood Risk																																																																																																																																																																																																																		
960 min Summer	6.785	0.241	0.2	9.9	Flood Risk																																																																																																																																																																																																																		
1440 min Summer	6.773	0.229	0.2	9.2	Flood Risk																																																																																																																																																																																																																		
2160 min Summer	6.756	0.212	0.2	8.1	O K																																																																																																																																																																																																																		
2880 min Summer	6.742	0.198	0.2	7.2	O K																																																																																																																																																																																																																		
4320 min Summer	6.720	0.176	0.2	5.8	O K																																																																																																																																																																																																																		
5760 min Summer	6.707	0.163	0.2	5.0	O K																																																																																																																																																																																																																		
7200 min Summer	6.698	0.154	0.2	4.5	O K																																																																																																																																																																																																																		
8640 min Summer	6.691	0.147	0.2	4.0	O K																																																																																																																																																																																																																		
10080 min Summer	6.686	0.142	0.1	3.7	O K																																																																																																																																																																																																																		
15 min Winter	6.708	0.164	0.2	5.1	O K																																																																																																																																																																																																																		
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)																																																																																																																																																																																																																				
15 min Summer	141.164	0.0	19																																																																																																																																																																																																																				
30 min Summer	94.700	0.0	33																																																																																																																																																																																																																				
60 min Summer	60.903	0.0	64																																																																																																																																																																																																																				
120 min Summer	36.128	0.0	122																																																																																																																																																																																																																				
180 min Summer	26.473	0.0	182																																																																																																																																																																																																																				
240 min Summer	21.126	0.0	242																																																																																																																																																																																																																				
360 min Summer	15.214	0.0	360																																																																																																																																																																																																																				
480 min Summer	12.016	0.0	450																																																																																																																																																																																																																				
600 min Summer	9.993	0.0	500																																																																																																																																																																																																																				
720 min Summer	8.590	0.0	558																																																																																																																																																																																																																				
960 min Summer	6.756	0.0	684																																																																																																																																																																																																																				
1440 min Summer	4.823	0.0	952																																																																																																																																																																																																																				
2160 min Summer	3.462	0.0	1360																																																																																																																																																																																																																				
2880 min Summer	2.754	0.0	1732																																																																																																																																																																																																																				
4320 min Summer	2.025	0.0	2468																																																																																																																																																																																																																				
5760 min Summer	1.648	0.0	3224																																																																																																																																																																																																																				
7200 min Summer	1.419	0.0	3960																																																																																																																																																																																																																				
8640 min Summer	1.264	0.0	4672																																																																																																																																																																																																																				
10080 min Summer	1.153	0.0	5440																																																																																																																																																																																																																				
15 min Winter	141.164	0.0	19																																																																																																																																																																																																																				
©1982-2020 Innovyze																																																																																																																																																																																																																							

Odyssey		Page 2			
Tuscany House	Stakers Farm, Yapton				
White Hart Lane	As Built - Access Road				
Basingstoke RG21 4AF	Plots 33-34				
Date 20/04/2022 12:10	Designed by WindesPC5				
File As-built_Acces Road Flo...	Checked by				
Innovyze	Source Control 2020.1.3				
<u>Summary of Results for 100 year Return Period (+40%)</u>					
Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
30 min Winter	6.740	0.196	0.2	7.1	O K
60 min Winter	6.774	0.230	0.2	9.3	Flood Risk
120 min Winter	6.799	0.255	0.2	10.8	Flood Risk
180 min Winter	6.812	0.268	0.2	11.6	Flood Risk
240 min Winter	6.819	0.275	0.2	12.1	Flood Risk
360 min Winter	6.824	0.280	0.2	12.4	Flood Risk
480 min Winter	6.823	0.279	0.2	12.3	Flood Risk
600 min Winter	6.820	0.276	0.2	12.1	Flood Risk
720 min Winter	6.815	0.271	0.2	11.8	Flood Risk
960 min Winter	6.808	0.264	0.2	11.3	Flood Risk
1440 min Winter	6.791	0.247	0.2	10.3	Flood Risk
2160 min Winter	6.765	0.221	0.2	8.7	O K
2880 min Winter	6.744	0.200	0.2	7.3	O K
4320 min Winter	6.713	0.169	0.2	5.4	O K
5760 min Winter	6.697	0.153	0.2	4.4	O K
7200 min Winter	6.686	0.142	0.1	3.7	O K
8640 min Winter	6.677	0.133	0.1	3.2	O K
10080 min Winter	6.671	0.127	0.1	2.8	O K
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)		
30 min Winter	94.700	0.0	33		
60 min Winter	60.903	0.0	62		
120 min Winter	36.128	0.0	120		
180 min Winter	26.473	0.0	178		
240 min Winter	21.126	0.0	236		
360 min Winter	15.214	0.0	350		
480 min Winter	12.016	0.0	462		
600 min Winter	9.993	0.0	566		
720 min Winter	8.590	0.0	650		
960 min Winter	6.756	0.0	740		
1440 min Winter	4.823	0.0	1038		
2160 min Winter	3.462	0.0	1468		
2880 min Winter	2.754	0.0	1872		
4320 min Winter	2.025	0.0	2592		
5760 min Winter	1.648	0.0	3344		
7200 min Winter	1.419	0.0	4040		
8640 min Winter	1.264	0.0	4760		
10080 min Winter	1.153	0.0	5456		
©1982-2020 Innovyze					

Odyssey		Page 3
Tuscany House White Hart Lane Basingstoke RG21 4AF	Stakers Farm, Yapton As Built - Access Road Plots 33-34	
Date 20/04/2022 12:10 File As-built_Acces Road Plo...	Designed by WindesPC5 Checked by	
Innovyze	Source Control 2020.1.3	

Rainfall Details

Rainfall Model	FEH
Return Period (years)	100
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 Area Diagram

Total Area (ha) 0.021

	Time (mins)	Area
From:	To:	(ha)
	0	4 0.021

©1982-2020 Innovyze

Odyssey		Page 4
Tuscany House White Hart Lane Basingstoke RG21 4AF	Stakers Farm, Yapton As Built - Access Road Plots 33-34	
Date 20/04/2022 12:10 File As-built_Acces Road Plo...	Designed by WindesPC5 Checked by	
Innovyze	Source Control 2020.1.3	

Model Details

Storage is Online Cover Level (m) 7.069

Complex Structure

Porous Car Park

Infiltration Coefficient Base (m/hr)	0.00612	Width (m)	5.0
Membrane Percolation (mm/hr)	1000	Length (m)	26.4
Max Percolation (l/s)	36.7	Slope (1:X)	211.0
Safety Factor	2.0	Depression Storage (mm)	5
Porosity	0.30	Evaporation (mm/day)	3
Invert Level (m)	6.544	Cap Volume Depth (m)	0.395

Porous Car Park

Infiltration Coefficient Base (m/hr)	0.00612	Width (m)	8.8
Membrane Percolation (mm/hr)	1000	Length (m)	8.8
Max Percolation (l/s)	21.5	Slope (1:X)	0.0
Safety Factor	2.0	Depression Storage (mm)	5
Porosity	0.30	Evaporation (mm/day)	3
Invert Level (m)	6.662	Cap Volume Depth (m)	0.395

©1982-2020 Innovyze