

Odyssey			Page 1																																																																																																																																																																																																																				
Tuscany House White Hart Lane Basingstoke RG21 4AF		Stakers Farm, Yapton As Built - Access Road Plots 15-19 (Ch.5-15)																																																																																																																																																																																																																					
Date 20/04/2022 11:52 File As-built_Acces Road Plo...		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 : 563 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>6.541</td><td>0.074</td><td>0.0</td><td>0.8</td><td>O K</td></tr><tr><td>30 min Summer</td><td>6.569</td><td>0.102</td><td>0.0</td><td>1.2</td><td>O K</td></tr><tr><td>60 min Summer</td><td>6.598</td><td>0.131</td><td>0.0</td><td>1.5</td><td>O K</td></tr><tr><td>120 min Summer</td><td>6.618</td><td>0.151</td><td>0.0</td><td>1.8</td><td>O K</td></tr><tr><td>180 min Summer</td><td>6.628</td><td>0.161</td><td>0.0</td><td>1.9</td><td>O K</td></tr><tr><td>240 min Summer</td><td>6.633</td><td>0.166</td><td>0.0</td><td>2.0</td><td>O K</td></tr><tr><td>360 min Summer</td><td>6.635</td><td>0.168</td><td>0.0</td><td>2.0</td><td>O K</td></tr><tr><td>480 min Summer</td><td>6.633</td><td>0.166</td><td>0.0</td><td>2.0</td><td>O K</td></tr><tr><td>600 min Summer</td><td>6.630</td><td>0.163</td><td>0.0</td><td>1.9</td><td>O K</td></tr><tr><td>720 min Summer</td><td>6.627</td><td>0.160</td><td>0.0</td><td>1.9</td><td>O K</td></tr><tr><td>960 min Summer</td><td>6.620</td><td>0.153</td><td>0.0</td><td>1.8</td><td>O K</td></tr><tr><td>1440 min Summer</td><td>6.607</td><td>0.140</td><td>0.0</td><td>1.6</td><td>O K</td></tr><tr><td>2160 min Summer</td><td>6.588</td><td>0.121</td><td>0.0</td><td>1.4</td><td>O K</td></tr><tr><td>2880 min Summer</td><td>6.572</td><td>0.105</td><td>0.0</td><td>1.2</td><td>O K</td></tr><tr><td>4320 min Summer</td><td>6.548</td><td>0.081</td><td>0.0</td><td>0.9</td><td>O K</td></tr><tr><td>5760 min Summer</td><td>6.532</td><td>0.065</td><td>0.0</td><td>0.7</td><td>O K</td></tr><tr><td>7200 min Summer</td><td>6.521</td><td>0.054</td><td>0.0</td><td>0.6</td><td>O K</td></tr><tr><td>8640 min Summer</td><td>6.516</td><td>0.049</td><td>0.0</td><td>0.5</td><td>O K</td></tr><tr><td>10080 min Summer</td><td>6.512</td><td>0.045</td><td>0.0</td><td>0.5</td><td>O K</td></tr><tr><td>15 min Winter</td><td>6.551</td><td>0.084</td><td>0.0</td><td>1.0</td><td>O K</td></tr></table> <table><tr><th>Storm Event</th><th>Rain (mm/hr)</th><th>Flooded Volume (m³)</th><th>Time-Peak (mins)</th></tr><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>438</td></tr><tr><td>600 min Summer</td><td>9.993</td><td>0.0</td><td>492</td></tr><tr><td>720 min Summer</td><td>8.590</td><td>0.0</td><td>550</td></tr><tr><td>960 min Summer</td><td>6.756</td><td>0.0</td><td>674</td></tr><tr><td>1440 min Summer</td><td>4.823</td><td>0.0</td><td>940</td></tr><tr><td>2160 min Summer</td><td>3.462</td><td>0.0</td><td>1344</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>2464</td></tr><tr><td>5760 min Summer</td><td>1.648</td><td>0.0</td><td>3168</td></tr><tr><td>7200 min Summer</td><td>1.419</td><td>0.0</td><td>3824</td></tr><tr><td>8640 min Summer</td><td>1.264</td><td>0.0</td><td>4496</td></tr><tr><td>10080 min Summer</td><td>1.153</td><td>0.0</td><td>5240</td></tr><tr><td>15 min Winter</td><td>141.164</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	6.541	0.074	0.0	0.8	O K	30 min Summer	6.569	0.102	0.0	1.2	O K	60 min Summer	6.598	0.131	0.0	1.5	O K	120 min Summer	6.618	0.151	0.0	1.8	O K	180 min Summer	6.628	0.161	0.0	1.9	O K	240 min Summer	6.633	0.166	0.0	2.0	O K	360 min Summer	6.635	0.168	0.0	2.0	O K	480 min Summer	6.633	0.166	0.0	2.0	O K	600 min Summer	6.630	0.163	0.0	1.9	O K	720 min Summer	6.627	0.160	0.0	1.9	O K	960 min Summer	6.620	0.153	0.0	1.8	O K	1440 min Summer	6.607	0.140	0.0	1.6	O K	2160 min Summer	6.588	0.121	0.0	1.4	O K	2880 min Summer	6.572	0.105	0.0	1.2	O K	4320 min Summer	6.548	0.081	0.0	0.9	O K	5760 min Summer	6.532	0.065	0.0	0.7	O K	7200 min Summer	6.521	0.054	0.0	0.6	O K	8640 min Summer	6.516	0.049	0.0	0.5	O K	10080 min Summer	6.512	0.045	0.0	0.5	O K	15 min Winter	6.551	0.084	0.0	1.0	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	438	600 min Summer	9.993	0.0	492	720 min Summer	8.590	0.0	550	960 min Summer	6.756	0.0	674	1440 min Summer	4.823	0.0	940	2160 min Summer	3.462	0.0	1344	2880 min Summer	2.754	0.0	1732	4320 min Summer	2.025	0.0	2464	5760 min Summer	1.648	0.0	3168	7200 min Summer	1.419	0.0	3824	8640 min Summer	1.264	0.0	4496	10080 min Summer	1.153	0.0	5240	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	6.541	0.074	0.0	0.8	O K																																																																																																																																																																																																																		
30 min Summer	6.569	0.102	0.0	1.2	O K																																																																																																																																																																																																																		
60 min Summer	6.598	0.131	0.0	1.5	O K																																																																																																																																																																																																																		
120 min Summer	6.618	0.151	0.0	1.8	O K																																																																																																																																																																																																																		
180 min Summer	6.628	0.161	0.0	1.9	O K																																																																																																																																																																																																																		
240 min Summer	6.633	0.166	0.0	2.0	O K																																																																																																																																																																																																																		
360 min Summer	6.635	0.168	0.0	2.0	O K																																																																																																																																																																																																																		
480 min Summer	6.633	0.166	0.0	2.0	O K																																																																																																																																																																																																																		
600 min Summer	6.630	0.163	0.0	1.9	O K																																																																																																																																																																																																																		
720 min Summer	6.627	0.160	0.0	1.9	O K																																																																																																																																																																																																																		
960 min Summer	6.620	0.153	0.0	1.8	O K																																																																																																																																																																																																																		
1440 min Summer	6.607	0.140	0.0	1.6	O K																																																																																																																																																																																																																		
2160 min Summer	6.588	0.121	0.0	1.4	O K																																																																																																																																																																																																																		
2880 min Summer	6.572	0.105	0.0	1.2	O K																																																																																																																																																																																																																		
4320 min Summer	6.548	0.081	0.0	0.9	O K																																																																																																																																																																																																																		
5760 min Summer	6.532	0.065	0.0	0.7	O K																																																																																																																																																																																																																		
7200 min Summer	6.521	0.054	0.0	0.6	O K																																																																																																																																																																																																																		
8640 min Summer	6.516	0.049	0.0	0.5	O K																																																																																																																																																																																																																		
10080 min Summer	6.512	0.045	0.0	0.5	O K																																																																																																																																																																																																																		
15 min Winter	6.551	0.084	0.0	1.0	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	438																																																																																																																																																																																																																				
600 min Summer	9.993	0.0	492																																																																																																																																																																																																																				
720 min Summer	8.590	0.0	550																																																																																																																																																																																																																				
960 min Summer	6.756	0.0	674																																																																																																																																																																																																																				
1440 min Summer	4.823	0.0	940																																																																																																																																																																																																																				
2160 min Summer	3.462	0.0	1344																																																																																																																																																																																																																				
2880 min Summer	2.754	0.0	1732																																																																																																																																																																																																																				
4320 min Summer	2.025	0.0	2464																																																																																																																																																																																																																				
5760 min Summer	1.648	0.0	3168																																																																																																																																																																																																																				
7200 min Summer	1.419	0.0	3824																																																																																																																																																																																																																				
8640 min Summer	1.264	0.0	4496																																																																																																																																																																																																																				
10080 min Summer	1.153	0.0	5240																																																																																																																																																																																																																				
15 min Winter	141.164	0.0	19																																																																																																																																																																																																																				
©1982-2020 Innovyze																																																																																																																																																																																																																							

Odyssey			Page 2		
Tuscany House White Hart Lane Basingstoke RG21 4AF		Stakers Farm, Yapton As Built - Access Road Plots 15-19 (Ch.5-15)			
Date 20/04/2022 11:52 File As-built_Acces Road Plo...		Designed by WindesPC5 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	6.582	0.115	0.0	1.3	O K
60 min Winter	6.615	0.148	0.0	1.7	O K
120 min Winter	6.639	0.172	0.0	2.0	O K
180 min Winter	6.651	0.184	0.0	2.2	O K
240 min Winter	6.657	0.190	0.0	2.3	O K
360 min Winter	6.660	0.193	0.0	2.3	O K
480 min Winter	6.659	0.192	0.0	2.3	O K
600 min Winter	6.655	0.188	0.0	2.2	O K
720 min Winter	6.650	0.183	0.0	2.2	O K
960 min Winter	6.641	0.174	0.0	2.1	O K
1440 min Winter	6.622	0.155	0.0	1.8	O K
2160 min Winter	6.594	0.127	0.0	1.5	O K
2880 min Winter	6.570	0.103	0.0	1.2	O K
4320 min Winter	6.534	0.067	0.0	0.7	O K
5760 min Winter	6.516	0.049	0.0	0.5	O K
7200 min Winter	6.510	0.043	0.0	0.4	O K
8640 min Winter	6.506	0.039	0.0	0.4	O K
10080 min Winter	6.502	0.035	0.0	0.3	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	460		
600 min Winter	9.993	0.0	562		
720 min Winter	8.590	0.0	592		
960 min Winter	6.756	0.0	732		
1440 min Winter	4.823	0.0	1036		
2160 min Winter	3.462	0.0	1452		
2880 min Winter	2.754	0.0	1844		
4320 min Winter	2.025	0.0	2548		
5760 min Winter	1.648	0.0	3112		
7200 min Winter	1.419	0.0	3824		
8640 min Winter	1.264	0.0	4576		
10080 min Winter	1.153	0.0	5344		
©1982-2020 Innovyze					

Odyssey		Page 3
Tuscany House White Hart Lane Basingstoke RG21 4AF	Stakers Farm, Yapton As Built - Access Road Plots 15-19 (Ch.5-15)	
Date 20/04/2022 11:52 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) 0.004

	Time (mins)	Area
From:	To:	(ha)
	0	4 0.004

©1982-2020 Innovyze

Odyssey		Page 4
Tuscany House White Hart Lane Basingstoke RG21 4AF	Stakers Farm, Yapton As Built - Access Road Plots 15-19 (Ch.5-15)	
Date 20/04/2022 11:52 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) 6.992

Porous Car Park Structure

Infiltration Coefficient Base (m/hr)	0.00612	Width (m)	4.1
Membrane Percolation (mm/hr)	1000	Length (m)	10.1
Max Percolation (l/s)	11.5	Slope (1:X)	673.0
Safety Factor	2.0	Depression Storage (mm)	5
Porosity	0.30	Evaporation (mm/day)	3
Invert Level (m)	6.467	Cap Volume Depth (m)	0.395

©1982-2020 Innovyze