

Odyssey					Page 1
Tuscany House White Hart Lane Baskingstoke RG21 4AF			Stakers Farm, Yapton 19-156 Roof Only		
Date 29/09/2020 21:10 File Infiltration			Designed by AK Checked by		
XP Solutions			Source Control 2020.1		
Summary of Results for 100 year Return Period (+40%)					
Half Drain Time : 3405 minutes.					
Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
15 min Summer	0.122	0.122	1.1	145.5	Flood Risk
30 min Summer	0.163	0.163	1.1	194.8	Flood Risk
60 min Summer	0.208	0.208	1.1	249.4	Flood Risk
120 min Summer	0.245	0.245	1.1	293.3	Flood Risk
180 min Summer	0.267	0.267	1.1	319.7	Flood Risk
240 min Summer	0.282	0.282	1.1	337.5	Flood Risk
360 min Summer	0.300	0.300	1.1	358.9	Flood Risk
480 min Summer	0.311	0.311	1.1	372.3	Flood Risk
600 min Summer	0.319	0.319	1.1	381.4	Flood Risk
720 min Summer	0.324	0.324	1.1	387.7	Flood Risk
960 min Summer	0.330	0.330	1.1	395.1	Flood Risk
1440 min Summer	0.334	0.334	1.1	400.1	Flood Risk
2160 min Summer	0.332	0.332	1.1	397.1	Flood Risk
2880 min Summer	0.326	0.326	1.1	389.8	Flood Risk
4320 min Summer	0.318	0.318	1.1	381.2	Flood Risk
5760 min Summer	0.315	0.315	1.1	376.7	Flood Risk
7200 min Summer	0.313	0.313	1.1	374.9	Flood Risk
8640 min Summer	0.313	0.313	1.1	374.7	Flood Risk
10080 min Summer	0.314	0.314	1.1	375.8	Flood Risk
15 min Winter	0.136	0.136	1.1	163.1	Flood Risk
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	34		
60 min Summer	60.903	0.0	64		
120 min Summer	36.128	0.0	124		
180 min Summer	26.473	0.0	184		
240 min Summer	21.126	0.0	244		
360 min Summer	15.214	0.0	364		
480 min Summer	12.016	0.0	482		
600 min Summer	9.993	0.0	602		
720 min Summer	8.590	0.0	722		
960 min Summer	6.756	0.0	962		
1440 min Summer	4.823	0.0	1442		
2160 min Summer	3.462	0.0	2160		
2880 min Summer	2.754	0.0	2680		
4320 min Summer	2.025	0.0	3372		
5760 min Summer	1.648	0.0	4152		
7200 min Summer	1.419	0.0	4976		
8640 min Summer	1.264	0.0	5872		
10080 min Summer	1.153	0.0	6664		
15 min Winter	141.164	0.0	19		
©1982-2020 Innovyze					

Odyssey				Page 2	
Tuscany House		Stakers Farm, Yapton			
White Hart Lane		19-156			
Baskingstoke RG21 4AF		Roof Only			
Date 29/09/2020 21:10		Designed by AK			
File Infiltration		Checked by			
XP Solutions		Source Control 2020.1			
<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	0.182	0.182	1.1	218.3	Flood Risk
60 min Winter	0.234	0.234	1.1	279.6	Flood Risk
120 min Winter	0.275	0.275	1.1	329.1	Flood Risk
180 min Winter	0.300	0.300	1.1	359.1	Flood Risk
240 min Winter	0.317	0.317	1.1	379.3	Flood Risk
360 min Winter	0.338	0.338	1.1	404.1	Flood Risk
480 min Winter	0.351	0.351	1.1	419.9	Flood Risk
600 min Winter	0.360	0.360	1.1	430.8	Flood Risk
720 min Winter	0.366	0.366	1.1	438.7	Flood Risk
960 min Winter	0.375	0.375	1.1	448.5	Flood Risk
1440 min Winter	0.382	0.382	1.1	457.3	Flood Risk
2160 min Winter	0.383	0.383	1.1	458.9	Flood Risk
2880 min Winter	0.380	0.380	1.1	455.0	Flood Risk
4320 min Winter	0.370	0.370	1.1	442.6	Flood Risk
5760 min Winter	0.364	0.364	1.1	435.5	Flood Risk
7200 min Winter	0.360	0.360	1.1	430.8	Flood Risk
8640 min Winter	0.357	0.357	1.1	427.1	Flood Risk
10080 min Winter	0.355	0.355	1.1	424.6	Flood Risk
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)		
30 min Winter	94.700	0.0	34		
60 min Winter	60.903	0.0	64		
120 min Winter	36.128	0.0	122		
180 min Winter	26.473	0.0	182		
240 min Winter	21.126	0.0	242		
360 min Winter	15.214	0.0	360		
480 min Winter	12.016	0.0	478		
600 min Winter	9.993	0.0	596		
720 min Winter	8.590	0.0	714		
960 min Winter	6.756	0.0	946		
1440 min Winter	4.823	0.0	1412		
2160 min Winter	3.462	0.0	2096		
2880 min Winter	2.754	0.0	2764		
4320 min Winter	2.025	0.0	3932		
5760 min Winter	1.648	0.0	4488		
7200 min Winter	1.419	0.0	5408		
8640 min Winter	1.264	0.0	6392		
10080 min Winter	1.153	0.0	7264		
©1982-2020 Innovyze					

Odyssey		Page 3
Tuscany House	Stakers Farm, Yapton	
White Hart Lane	19-156	
Baskingstoke RG21 4AF	Roof Only	
Date 29/09/2020 21:10	Designed by AK	
File Infiltration	Checked by	
XP Solutions		Source Control 2020.1

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) 0.553

	Time (mins)	Area
From:	To:	(ha)
	0	4 0.553

©1982-2020 Innovyze

Odyssey		Page 4
Tuscany House White Hart Lane Basingstoke RG21 4AF	Stakers Farm, Yapton 19-156 Roof Only	
Date 29/09/2020 21:10 File Infiltration	Designed by AK Checked by	
XP Solutions Source Control 2020.1		

Model Details

Storage is Online Cover Level (m) 0.400

Infiltration Blanket Structure

Infiltration Coefficient Base (m/hr)	0.00648	Diameter/Width (m)	36.0
Safety Factor	2.0	Length (m)	35.0
Porosity	0.95	Cap Volume Depth (m)	0.000
Invert Level (m)	0.000		

©1982-2020 Innovyze