

Odyssey					Page 1	
Tuscany House White Hart Lane Basingstoke RG21 4AF			Stakers Farm, Yapton 19-156 Road 2 and Plots 23-28			
Date 15/07/2020 11:29 File Road 2_including Plots			Designed by AK Checked by			
Micro Drainage			Source Control 2020.1			
Summary of Results for 100 year Return Period (+40%)						
Half Drain Time : 2630 minutes.						
Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status	
15 min Summer	0.244	0.244	0.3	29.9	Flood Risk	
30 min Summer	0.279	0.279	0.3	40.5	Flood Risk	
60 min Summer	0.318	0.318	0.3	52.3	Flood Risk	
120 min Summer	0.348	0.348	0.3	61.5	Flood Risk	
180 min Summer	0.366	0.366	0.3	67.0	Flood Risk	
240 min Summer	0.378	0.378	0.3	70.6	Flood Risk	
360 min Summer	0.392	0.392	0.3	74.8	Flood Risk	
480 min Summer	0.400	0.400	0.3	77.3	Flood Risk	
600 min Summer	0.405	0.405	0.3	78.8	Flood Risk	
720 min Summer	0.408	0.408	0.3	79.7	Flood Risk	
960 min Summer	0.410	0.410	0.3	80.3	Flood Risk	
1440 min Summer	0.408	0.408	0.3	79.6	Flood Risk	
2160 min Summer	0.397	0.397	0.3	76.4	Flood Risk	
2880 min Summer	0.388	0.388	0.3	73.6	Flood Risk	
4320 min Summer	0.377	0.377	0.3	70.2	Flood Risk	
5760 min Summer	0.370	0.370	0.3	68.0	Flood Risk	
7200 min Summer	0.365	0.365	0.3	66.6	Flood Risk	
8640 min Summer	0.362	0.362	0.3	65.6	Flood Risk	
10080 min Summer	0.359	0.359	0.3	64.9	Flood Risk	
15 min Winter	0.257	0.257	0.3	33.7	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	1440			
2160 min Summer	3.462	0.0	2012			
2880 min Summer	2.754	0.0	2336			
4320 min Summer	2.025	0.0	3112			
5760 min Summer	1.648	0.0	3920			
7200 min Summer	1.419	0.0	4760			
8640 min Summer	1.264	0.0	5616			
10080 min Summer	1.153	0.0	6456			
15 min Winter	141.164	0.0	19			
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Tuscany House	Stakers Farm, Yapton				
White Hart Lane	19-156				
Basingstoke RG21 4AF	Road 2 and Plots 23-28				
Date 15/07/2020 11:29	Designed by AK				
File Road 2_including Plots	Checked by				
Micro Drainage	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	0.296	0.296	0.3	45.6	Flood Risk
60 min Winter	0.339	0.339	0.3	58.8	Flood Risk
120 min Winter	0.374	0.374	0.3	69.3	Flood Risk
180 min Winter	0.395	0.395	0.3	75.6	Flood Risk
240 min Winter	0.408	0.408	0.3	79.8	Flood Risk
360 min Winter	0.424	0.424	0.3	84.7	Flood Risk
480 min Winter	0.434	0.434	0.3	87.7	Flood Risk
600 min Winter	0.440	0.440	0.3	89.6	Flood Risk
720 min Winter	0.445	0.445	0.3	90.8	Flood Risk
960 min Winter	0.449	0.449	0.3	92.1	Flood Risk
1440 min Winter	0.449	0.449	0.3	92.2	Flood Risk
2160 min Winter	0.442	0.442	0.3	90.0	Flood Risk
2880 min Winter	0.432	0.432	0.3	86.9	Flood Risk
4320 min Winter	0.416	0.416	0.3	82.1	Flood Risk
5760 min Winter	0.404	0.404	0.3	78.6	Flood Risk
7200 min Winter	0.395	0.395	0.3	75.8	Flood Risk
8640 min Winter	0.387	0.387	0.3	73.4	Flood Risk
10080 min Winter	0.380	0.380	0.3	71.3	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	240		
360 min Winter	15.214	0.0	358		
480 min Winter	12.016	0.0	476		
600 min Winter	9.993	0.0	594		
720 min Winter	8.590	0.0	712		
960 min Winter	6.756	0.0	944		
1440 min Winter	4.823	0.0	1400		
2160 min Winter	3.462	0.0	2072		
2880 min Winter	2.754	0.0	2684		
4320 min Winter	2.025	0.0	3332		
5760 min Winter	1.648	0.0	4272		
7200 min Winter	1.419	0.0	5192		
8640 min Winter	1.264	0.0	6136		
10080 min Winter	1.153	0.0	7056		
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Micro Drainage 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) 0.120

Time (mins)	Area
From:	To: (ha)
0	4 0.120

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Model Details

Storage is Online Cover Level (m) 0.450

Complex Structure

Porous Car Park

Infiltration Coefficient Base (m/hr)	0.00648	Width (m)	4.8
Membrane Percolation (mm/hr)	1000	Length (m)	67.9
Max Percolation (l/s)	90.5	Slope (1:X)	0.0
Safety Factor	2.0	Depression Storage (mm)	5
Porosity	0.30	Evaporation (mm/day)	3
Invert Level (m)	0.000	Cap Volume Depth (m)	0.215

Cellular Storage

Invert Level (m)	0.215	Safety Factor	2.0
Infiltration Coefficient Base (m/hr)	0.00000	Porosity	0.95
Infiltration Coefficient Side (m/hr)	0.00000		

Depth (m)	Area (m ²)	Inf. Area (m ²)	Depth (m)	Area (m ²)	Inf. Area (m ²)
0.000	320.0	0.0	0.235	320.0	0.0

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