

Odyssey				Page 1																																																																																																																																																																																																																			
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<u>Summary of Results for 10 year Return Period (+40%)</u> Half Drain Time : 1317 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>0.155</td><td>0.155</td><td>0.2</td><td>14.1</td><td>O K</td></tr><tr><td>30 min Summer</td><td>0.181</td><td>0.181</td><td>0.2</td><td>19.0</td><td>O K</td></tr><tr><td>60 min Summer</td><td>0.206</td><td>0.206</td><td>0.3</td><td>24.1</td><td>Flood Risk</td></tr><tr><td>120 min Summer</td><td>0.230</td><td>0.230</td><td>0.3</td><td>29.8</td><td>Flood Risk</td></tr><tr><td>180 min Summer</td><td>0.243</td><td>0.243</td><td>0.3</td><td>33.0</td><td>Flood Risk</td></tr><tr><td>240 min Summer</td><td>0.251</td><td>0.251</td><td>0.3</td><td>35.0</td><td>Flood Risk</td></tr><tr><td>360 min Summer</td><td>0.260</td><td>0.260</td><td>0.3</td><td>37.3</td><td>Flood Risk</td></tr><tr><td>480 min Summer</td><td>0.264</td><td>0.264</td><td>0.3</td><td>38.4</td><td>Flood Risk</td></tr><tr><td>600 min Summer</td><td>0.265</td><td>0.265</td><td>0.3</td><td>38.8</td><td>Flood Risk</td></tr><tr><td>720 min Summer</td><td>0.266</td><td>0.266</td><td>0.3</td><td>39.0</td><td>Flood Risk</td></tr><tr><td>960 min Summer</td><td>0.265</td><td>0.265</td><td>0.3</td><td>38.6</td><td>Flood Risk</td></tr><tr><td>1440 min Summer</td><td>0.262</td><td>0.262</td><td>0.3</td><td>37.9</td><td>Flood Risk</td></tr><tr><td>2160 min Summer</td><td>0.259</td><td>0.259</td><td>0.3</td><td>37.0</td><td>Flood Risk</td></tr><tr><td>2880 min Summer</td><td>0.255</td><td>0.255</td><td>0.3</td><td>36.2</td><td>Flood Risk</td></tr><tr><td>4320 min Summer</td><td>0.250</td><td>0.250</td><td>0.3</td><td>34.9</td><td>Flood Risk</td></tr><tr><td>5760 min Summer</td><td>0.246</td><td>0.246</td><td>0.3</td><td>33.9</td><td>Flood Risk</td></tr><tr><td>7200 min 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Tuscany House		Stakers Farm, Yapton			
White Hart Lane		19-156			
Baskingstoke RG21 4AF		Road 3 and Plots 29-32_Rev_C			
Date 10/12/2020 14:18		Designed by AK			
File Road 3_including Plots		Checked by			
XP Solutions		Source Control 2020.1			
<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	0.193	0.193	0.2	21.4	Flood Risk
60 min Winter	0.219	0.219	0.3	27.2	Flood Risk
120 min Winter	0.245	0.245	0.3	33.6	Flood Risk
180 min Winter	0.259	0.259	0.3	37.3	Flood Risk
240 min Winter	0.268	0.268	0.3	39.6	Flood Risk
360 min Winter	0.279	0.279	0.3	42.3	Flood Risk
480 min Winter	0.284	0.284	0.3	43.7	Flood Risk
600 min Winter	0.287	0.287	0.3	44.4	Flood Risk
720 min Winter	0.288	0.288	0.3	44.7	Flood Risk
960 min Winter	0.288	0.288	0.3	44.7	Flood Risk
1440 min Winter	0.283	0.283	0.3	43.4	Flood Risk
2160 min Winter	0.278	0.278	0.3	42.1	Flood Risk
2880 min Winter	0.272	0.272	0.3	40.7	Flood Risk
4320 min Winter	0.263	0.263	0.3	38.2	Flood Risk
5760 min Winter	0.255	0.255	0.3	36.2	Flood Risk
7200 min Winter	0.249	0.249	0.3	34.6	Flood Risk
8640 min Winter	0.244	0.244	0.3	33.3	Flood Risk
10080 min Winter	0.240	0.240	0.3	32.2	Flood Risk
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	64		
120 min Winter	22.639	0.0	122		
180 min Winter	16.928	0.0	180		
240 min Winter	13.676	0.0	238		
360 min Winter	10.003	0.0	356		
480 min Winter	7.960	0.0	472		
600 min Winter	6.652	0.0	586		
720 min Winter	5.738	0.0	700		
960 min Winter	4.539	0.0	916		
1440 min Winter	3.269	0.0	1196		
2160 min Winter	2.374	0.0	1624		
2880 min Winter	1.907	0.0	2076		
4320 min Winter	1.430	0.0	2980		
5760 min Winter	1.183	0.0	3856		
7200 min Winter	1.034	0.0	4688		
8640 min Winter	0.933	0.0	5528		
10080 min Winter	0.861	0.0	6352		
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Tuscany House	Stakers Farm, Yapton	
White Hart Lane	19-156	
Baskingstoke RG21 4AF	Road 3 and Plots 29-32_Rev_C	
Date 10/12/2020 14:18	Designed by AK	
File Road 3_including Plots	Checked by	
XP Solutions		Source Control 2020.1

Rainfall Details

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 Area Diagram

Total Area (ha) 0.096

Time (mins)	Area
From:	To: (ha)
0	4 0.096

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Odyssey		Page 4
Tuscany House White Hart Lane Baskingstoke RG21 4AF	Stakers Farm, Yapton 19-156 Road 3 and Plots 29-32_Rev_C	
Date 10/12/2020 14:18 File Road 3_including Plots	Designed by AK Checked by	
XP Solutions Source Control 2020.1		

Model Details

Storage is Online Cover Level (m) 0.490

Complex Structure

Porous Car Park

Infiltration Coefficient Base (m/hr) 0.00648	Width (m) 4.8	
Membrane Percolation (mm/hr) 1000	Length (m) 62.8	
Max Percolation (l/s) 83.7	Slope (1:X) 234.0	
Safety Factor 2.0	Depression Storage (mm) 0	
Porosity 0.95	Evaporation (mm/day) 0	
Invert Level (m) 0.000	Cap Volume Depth (m) 0.235	

Porous Car Park

Infiltration Coefficient Base (m/hr) 0.00648	Width (m) 2.0	
Membrane Percolation (mm/hr) 1000	Length (m) 26.4	
Max Percolation (l/s) 14.7	Slope (1:X) 234.0	
Safety Factor 2.0	Depression Storage (mm) 0	
Porosity 0.30	Evaporation (mm/day) 0	
Invert Level (m) 0.000	Cap Volume Depth (m) 0.100	

Porous Car Park

Infiltration Coefficient Base (m/hr) 0.00000	Width (m) 4.8	
Membrane Percolation (mm/hr) 1000	Length (m) 62.8	
Max Percolation (l/s) 83.7	Slope (1:X) 234.0	
Safety Factor 2.0	Depression Storage (mm) 5	
Porosity 0.30	Evaporation (mm/day) 3	
Invert Level (m) 0.235	Membrane Depth (m) 0	

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