

Odyssey		Page 1																																																																																																																																																																																																																		
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<u>Summary of Results for 100 year Return Period (+40%)</u> Half Drain Time : 1090 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>0.250</td><td>0.250</td><td>0.0</td><td>0.9</td><td>Flood Risk</td></tr><tr><td>30 min Summer</td><td>0.300</td><td>0.300</td><td>0.0</td><td>1.3</td><td>Flood Risk</td></tr><tr><td>60 min Summer</td><td>0.355</td><td>0.355</td><td>0.0</td><td>1.7</td><td>Flood Risk</td></tr><tr><td>120 min Summer</td><td>0.397</td><td>0.397</td><td>0.0</td><td>1.9</td><td>Flood Risk</td></tr><tr><td>180 min Summer</td><td>0.420</td><td>0.420</td><td>0.0</td><td>2.1</td><td>Flood Risk</td></tr><tr><td>240 min Summer</td><td>0.433</td><td>0.433</td><td>0.0</td><td>2.2</td><td>Flood Risk</td></tr><tr><td>360 min Summer</td><td>0.446</td><td>0.446</td><td>0.0</td><td>2.3</td><td>Flood Risk</td></tr><tr><td>480 min Summer</td><td>0.451</td><td>0.451</td><td>0.0</td><td>2.3</td><td>Flood Risk</td></tr><tr><td>600 min Summer</td><td>0.451</td><td>0.451</td><td>0.0</td><td>2.3</td><td>Flood Risk</td></tr><tr><td>720 min Summer</td><td>0.448</td><td>0.448</td><td>0.0</td><td>2.3</td><td>Flood Risk</td></tr><tr><td>960 min Summer</td><td>0.439</td><td>0.439</td><td>0.0</td><td>2.2</td><td>Flood Risk</td></tr><tr><td>1440 min Summer</td><td>0.423</td><td>0.423</td><td>0.0</td><td>2.1</td><td>Flood Risk</td></tr><tr><td>2160 min Summer</td><td>0.402</td><td>0.402</td><td>0.0</td><td>2.0</td><td>Flood Risk</td></tr><tr><td>2880 min Summer</td><td>0.383</td><td>0.383</td><td>0.0</td><td>1.8</td><td>Flood Risk</td></tr><tr><td>4320 min Summer</td><td>0.352</td><td>0.352</td><td>0.0</td><td>1.6</td><td>Flood Risk</td></tr><tr><td>5760 min Summer</td><td>0.327</td><td>0.327</td><td>0.0</td><td>1.5</td><td>Flood Risk</td></tr><tr><td>7200 min Summer</td><td>0.307</td><td>0.307</td><td>0.0</td><td>1.3</td><td>Flood Risk</td></tr><tr><td>8640 min Summer</td><td>0.291</td><td>0.291</td><td>0.0</td><td>1.2</td><td>Flood Risk</td></tr><tr><td>10080 min Summer</td><td>0.278</td><td>0.278</td><td>0.0</td><td>1.1</td><td>Flood Risk</td></tr><tr><td>15 min Winter</td><td>0.268</td><td>0.268</td><td>0.0</td><td>1.1</td><td>Flood Risk</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>34</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>124</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 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Tuscany House		Stakers Farm, Yapton			
White Hart Lane		19-156			
Baskingstoke RG21 4AF		Road 1_S278 End_every 4.6m			
Date 10/12/2020 12:13		Designed by AK			
File Road 1_S278 end.SRCX		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	0.325	0.325	0.0	1.4	Flood Risk
60 min Winter	0.387	0.387	0.0	1.9	Flood Risk
120 min Winter	0.434	0.434	0.0	2.2	Flood Risk
180 min Winter	0.460	0.460	0.0	2.4	Flood Risk
240 min Winter	0.477	0.477	0.0	2.5	Flood Risk
360 min Winter	0.493	0.493	0.0	2.6	Flood Risk
480 min Winter	0.500	0.500	0.0	2.7	Flood Risk
600 min Winter	0.502	0.502	0.0	2.7	Flood Risk
720 min Winter	0.501	0.501	0.0	2.7	Flood Risk
960 min Winter	0.493	0.493	0.0	2.6	Flood Risk
1440 min Winter	0.470	0.470	0.0	2.4	Flood Risk
2160 min Winter	0.441	0.441	0.0	2.3	Flood Risk
2880 min Winter	0.414	0.414	0.0	2.1	Flood Risk
4320 min Winter	0.365	0.365	0.0	1.7	Flood Risk
5760 min Winter	0.325	0.325	0.0	1.5	Flood Risk
7200 min Winter	0.293	0.293	0.0	1.2	Flood Risk
8640 min Winter	0.267	0.267	0.0	1.0	Flood Risk
10080 min Winter	0.247	0.247	0.0	0.9	Flood Risk
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	122		
180 min Winter	26.473	0.0	180		
240 min Winter	21.126	0.0	238		
360 min Winter	15.214	0.0	356		
480 min Winter	12.016	0.0	470		
600 min Winter	9.993	0.0	584		
720 min Winter	8.590	0.0	698		
960 min Winter	6.756	0.0	914		
1440 min Winter	4.823	0.0	1154		
2160 min Winter	3.462	0.0	1600		
2880 min Winter	2.754	0.0	2048		
4320 min Winter	2.025	0.0	2900		
5760 min Winter	1.648	0.0	3696		
7200 min Winter	1.419	0.0	4472		
8640 min Winter	1.264	0.0	5192		
10080 min Winter	1.153	0.0	5856		
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Odyssey		Page 3
Tuscany House White Hart Lane Baskingstoke RG21 4AF	Stakers Farm, Yapton 19-156 Road 1_S278 End_every 4.6m	
Date 10/12/2020 12:13 File Road 1_S278 end.SRCX	Designed by AK 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) 0.004

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

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Odyssey		Page 4																								
Tuscany House White Hart Lane Basingstoke RG21 4AF	Stakers Farm, Yapton 19-156 Road 1_S278 End_every 4.6m																									
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<u>Model Details</u> Storage is Online Cover Level (m) 0.510 <u>Complex Structure</u> <u>Porous Car Park</u> <table> <tr> <td>Infiltration Coefficient Base (m/hr)</td> <td>0.00648</td> <td>Width (m)</td> <td>5.0</td> </tr> <tr> <td>Membrane Percolation (mm/hr)</td> <td>1000</td> <td>Length (m)</td> <td>4.6</td> </tr> <tr> <td>Max Percolation (l/s)</td> <td>6.4</td> <td>Slope (1:X)</td> <td>20.0</td> </tr> <tr> <td>Safety Factor</td> <td>2.0</td> <td>Depression Storage (mm)</td> <td>5</td> </tr> <tr> <td>Porosity</td> <td>0.30</td> <td>Evaporation (mm/day)</td> <td>3</td> </tr> <tr> <td>Invert Level (m)</td> <td>0.000</td> <td>Membrane Depth (m)</td> <td>0</td> </tr> </table>			Infiltration Coefficient Base (m/hr)	0.00648	Width (m)	5.0	Membrane Percolation (mm/hr)	1000	Length (m)	4.6	Max Percolation (l/s)	6.4	Slope (1:X)	20.0	Safety Factor	2.0	Depression Storage (mm)	5	Porosity	0.30	Evaporation (mm/day)	3	Invert Level (m)	0.000	Membrane Depth (m)	0
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