

Odyssey					Page 1
Tuscany House			Stakers Farm, Yapton		
White Hart Lane			19-156		
Basingstoke RG21 4AF			Plots 5-8		
Date 15/07/2020 10:48			Designed by AK		
File Plots 5-8.SRCX			Checked by		
Micro Drainage			Source Control 2020.1		
Summary of Results for 100 year Return Period (+40%)					
Half Drain Time : 1845 minutes.					
Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
15 min Summer	0.109	0.109	0.1	5.5	Flood Risk
30 min Summer	0.146	0.146	0.1	7.4	Flood Risk
60 min Summer	0.186	0.186	0.1	9.4	Flood Risk
120 min Summer	0.218	0.218	0.1	11.0	Flood Risk
180 min Summer	0.236	0.236	0.1	11.9	Flood Risk
240 min Summer	0.248	0.248	0.1	12.5	Flood Risk
360 min Summer	0.261	0.261	0.1	13.2	Flood Risk
480 min Summer	0.268	0.268	0.1	13.5	Flood Risk
600 min Summer	0.272	0.272	0.1	13.7	Flood Risk
720 min Summer	0.273	0.273	0.1	13.8	Flood Risk
960 min Summer	0.273	0.273	0.1	13.8	Flood Risk
1440 min Summer	0.265	0.265	0.1	13.3	Flood Risk
2160 min Summer	0.253	0.253	0.1	12.7	Flood Risk
2880 min Summer	0.243	0.243	0.1	12.3	Flood Risk
4320 min Summer	0.229	0.229	0.1	11.5	Flood Risk
5760 min Summer	0.217	0.217	0.1	11.0	Flood Risk
7200 min Summer	0.208	0.208	0.1	10.5	Flood Risk
8640 min Summer	0.201	0.201	0.1	10.1	Flood Risk
10080 min Summer	0.194	0.194	0.1	9.8	Flood Risk
15 min Winter	0.122	0.122	0.1	6.2	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	362		
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	960		
1440 min Summer	4.823	0.0	1372		
2160 min Summer	3.462	0.0	1708		
2880 min Summer	2.754	0.0	2076		
4320 min Summer	2.025	0.0	2896		
5760 min Summer	1.648	0.0	3696		
7200 min Summer	1.419	0.0	4544		
8640 min Summer	1.264	0.0	5360		
10080 min Summer	1.153	0.0	6152		
15 min Winter	141.164	0.0	19		
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Tuscany House		Stakers Farm, Yapton			
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File Plots 5-8.SRCX		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	0.164	0.164	0.1	8.2	Flood Risk
60 min Winter	0.209	0.209	0.1	10.5	Flood Risk
120 min Winter	0.245	0.245	0.1	12.3	Flood Risk
180 min Winter	0.266	0.266	0.1	13.4	Flood Risk
240 min Winter	0.280	0.280	0.1	14.1	Flood Risk
360 min Winter	0.295	0.295	0.1	14.9	Flood Risk
480 min Winter	0.304	0.304	0.1	15.3	Flood Risk
600 min Winter	0.309	0.309	0.1	15.6	Flood Risk
720 min Winter	0.312	0.312	0.1	15.7	Flood Risk
960 min Winter	0.313	0.313	0.1	15.8	Flood Risk
1440 min Winter	0.308	0.308	0.1	15.5	Flood Risk
2160 min Winter	0.293	0.293	0.1	14.7	Flood Risk
2880 min Winter	0.280	0.280	0.1	14.1	Flood Risk
4320 min Winter	0.259	0.259	0.1	13.0	Flood Risk
5760 min Winter	0.240	0.240	0.1	12.1	Flood Risk
7200 min Winter	0.223	0.223	0.1	11.2	Flood Risk
8640 min Winter	0.208	0.208	0.1	10.5	Flood Risk
10080 min Winter	0.195	0.195	0.1	9.8	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	592		
720 min Winter	8.590	0.0	708		
960 min Winter	6.756	0.0	934		
1440 min Winter	4.823	0.0	1384		
2160 min Winter	3.462	0.0	1988		
2880 min Winter	2.754	0.0	2244		
4320 min Winter	2.025	0.0	3156		
5760 min Winter	1.648	0.0	4040		
7200 min Winter	1.419	0.0	4904		
8640 min Winter	1.264	0.0	5792		
10080 min Winter	1.153	0.0	6648		
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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) 0.021

	Time (mins)	Area
From:	To:	(ha)
	0	4 0.021

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Micro Drainage Source Control 2020.1																		
<u>Model Details</u> Storage is Online Cover Level (m) 0.400 <u>Infiltration Blanket Structure</u> <table style="margin-left: auto; margin-right: auto;"> <tr> <td>Infiltration Coefficient Base (m/hr)</td> <td>0.00648</td> <td>Diameter/Width (m)</td> <td>4.0</td> </tr> <tr> <td>Safety Factor</td> <td>2.0</td> <td>Length (m)</td> <td>20.0</td> </tr> <tr> <td>Porosity</td> <td>0.63</td> <td>Cap Volume Depth (m)</td> <td>0.000</td> </tr> <tr> <td>Invert Level (m)</td> <td>0.000</td> <td></td> <td></td> </tr> </table>			Infiltration Coefficient Base (m/hr)	0.00648	Diameter/Width (m)	4.0	Safety Factor	2.0	Length (m)	20.0	Porosity	0.63	Cap Volume Depth (m)	0.000	Invert Level (m)	0.000		
Infiltration Coefficient Base (m/hr)	0.00648	Diameter/Width (m)	4.0															
Safety Factor	2.0	Length (m)	20.0															
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