

Odyssey				Page 1																																																																																																																																																																																																																			
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Summary of Results for 100 year Return Period (+40%) Half Drain Time : 2398 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>0.293</td><td>0.293</td><td>0.6</td><td>59.4</td><td>Flood Risk</td></tr><tr><td>30 min Summer</td><td>0.398</td><td>0.398</td><td>0.6</td><td>79.5</td><td>Flood Risk</td></tr><tr><td>60 min Summer</td><td>0.430</td><td>0.430</td><td>0.6</td><td>101.6</td><td>Flood Risk</td></tr><tr><td>120 min Summer</td><td>0.454</td><td>0.454</td><td>0.6</td><td>119.0</td><td>Flood Risk</td></tr><tr><td>180 min Summer</td><td>0.468</td><td>0.468</td><td>0.6</td><td>129.2</td><td>Flood Risk</td></tr><tr><td>240 min Summer</td><td>0.477</td><td>0.477</td><td>0.6</td><td>135.9</td><td>Flood Risk</td></tr><tr><td>360 min Summer</td><td>0.487</td><td>0.487</td><td>0.6</td><td>143.5</td><td>Flood Risk</td></tr><tr><td>480 min Summer</td><td>0.493</td><td>0.493</td><td>0.6</td><td>147.8</td><td>Flood Risk</td></tr><tr><td>600 min Summer</td><td>0.496</td><td>0.496</td><td>0.6</td><td>150.3</td><td>Flood Risk</td></tr><tr><td>720 min Summer</td><td>0.498</td><td>0.498</td><td>0.6</td><td>151.6</td><td>Flood Risk</td></tr><tr><td>960 min Summer</td><td>0.499</td><td>0.499</td><td>0.6</td><td>152.3</td><td>Flood Risk</td></tr><tr><td>1440 min Summer</td><td>0.495</td><td>0.495</td><td>0.6</td><td>149.7</td><td>Flood Risk</td></tr><tr><td>2160 min Summer</td><td>0.486</td><td>0.486</td><td>0.6</td><td>142.5</td><td>Flood Risk</td></tr><tr><td>2880 min Summer</td><td>0.478</td><td>0.478</td><td>0.6</td><td>137.0</td><td>Flood Risk</td></tr><tr><td>4320 min Summer</td><td>0.469</td><td>0.469</td><td>0.6</td><td>130.0</td><td>Flood Risk</td></tr><tr><td>5760 min Summer</td><td>0.463</td><td>0.463</td><td>0.6</td><td>125.5</td><td>Flood Risk</td></tr><tr><td>7200 min 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Summer	0.455	0.455	0.6	120.0	Flood Risk	10080 min Summer	0.453	0.453	0.6	118.3	Flood Risk	15 min Winter	0.329	0.329	0.6	66.6	Flood Risk	Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)	15 min Summer	141.164	0.0	23	30 min Summer	94.700	0.0	37	60 min Summer	60.903	0.0	68	120 min Summer	36.128	0.0	126	180 min Summer	26.473	0.0	186	240 min Summer	21.126	0.0	246	360 min Summer	15.214	0.0	364	480 min Summer	12.016	0.0	484	600 min Summer	9.993	0.0	604	720 min Summer	8.590	0.0	724	960 min Summer	6.756	0.0	962	1440 min Summer	4.823	0.0	1440	2160 min Summer	3.462	0.0	1928	2880 min Summer	2.754	0.0	2280	4320 min Summer	2.025	0.0	3068	5760 min Summer	1.648	0.0	3872	7200 min Summer	1.419	0.0	4752	8640 min Summer	1.264	0.0	5536	10080 min Summer	1.153	0.0	6360	15 min Winter	141.164	0.0	23
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Tuscany House		Stakers Farm, Yapton 19-156			
White Hart Lane		POS A - Infiltration Blanket			
Basingstoke RG21 4AF		Rev A			
Date 29/07/2020 14:18		Designed by AK			
File POS_A Infiltration		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	0.412	0.412	0.6	89.2	Flood Risk
60 min Winter	0.447	0.447	0.6	114.1	Flood Risk
120 min Winter	0.474	0.474	0.6	133.8	Flood Risk
180 min Winter	0.490	0.490	0.6	145.5	Flood Risk
240 min Winter	0.500	0.500	0.6	153.3	Flood Risk
360 min Winter	0.512	0.512	0.6	162.3	Flood Risk
480 min Winter	0.519	0.519	0.6	167.6	Flood Risk
600 min Winter	0.523	0.523	0.6	170.9	Flood Risk
720 min Winter	0.526	0.526	0.6	173.0	Flood Risk
960 min Winter	0.528	0.528	0.6	174.7	Flood Risk
1440 min Winter	0.527	0.527	0.6	173.9	Flood Risk
2160 min Winter	0.520	0.520	0.6	168.4	Flood Risk
2880 min Winter	0.511	0.511	0.6	161.3	Flood Risk
4320 min Winter	0.498	0.498	0.6	151.5	Flood Risk
5760 min Winter	0.488	0.488	0.6	144.2	Flood Risk
7200 min Winter	0.480	0.480	0.6	138.1	Flood Risk
8640 min Winter	0.473	0.473	0.6	132.8	Flood Risk
10080 min Winter	0.467	0.467	0.6	128.2	Flood Risk
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)		
30 min Winter	94.700	0.0	37		
60 min Winter	60.903	0.0	66		
120 min Winter	36.128	0.0	124		
180 min Winter	26.473	0.0	184		
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	712		
960 min Winter	6.756	0.0	944		
1440 min Winter	4.823	0.0	1400		
2160 min Winter	3.462	0.0	2056		
2880 min Winter	2.754	0.0	2656		
4320 min Winter	2.025	0.0	3292		
5760 min Winter	1.648	0.0	4256		
7200 min Winter	1.419	0.0	5184		
8640 min Winter	1.264	0.0	6056		
10080 min Winter	1.153	0.0	6960		
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Tuscany House White Hart Lane Basingstoke RG21 4AF	Stakers Farm, Yapton 19-156 POS A - Infiltration Blanket Rev A	
Date 29/07/2020 14:18 File POS_A Infiltration	Designed by AK Checked by	
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) 0.227

Time (mins)	Area		Time (mins)	Area	
From:	To:	(ha)	From:	To:	(ha)
0	4	0.154	4	8	0.073

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Tuscany House White Hart Lane Basingstoke RG21 4AF	Stakers Farm, Yapton 19-156 POS A - Infiltration Blanket Rev A	
Date 29/07/2020 14:18 File POS_A Infiltration	Designed by AK Checked by	
Micro Drainage		Source Control 2020.1

Model Details

Storage is Online Cover Level (m) 0.530

Complex Structure

Infiltration Blanket

Infiltration Coefficient Base (m/hr)	0.00648	Diameter/Width (m)	26.0
Safety Factor	2.0	Length (m)	26.0
Porosity	0.30	Cap Volume	Depth (m) 0.330
Invert Level (m)	0.000		

Infiltration Basin

Invert Level (m)	0.380	Safety Factor	2.0
Infiltration Coefficient Base (m/hr)	0.00000	Porosity	1.00
Infiltration Coefficient Side (m/hr)	0.00000		

Depth (m)	Area (m ²)	Depth (m)	Area (m ²)
0.000	680.0	0.150	778.0

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