

Odyssey				Page 1																																																																																																																																																																																																																			
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Summary of Results for 10 year Return Period (+40%) Half Drain Time : 620 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>0.205</td><td>0.205</td><td>0.0</td><td>1.3</td><td>O K</td></tr><tr><td>30 min Summer</td><td>0.247</td><td>0.247</td><td>0.0</td><td>1.9</td><td>Flood Risk</td></tr><tr><td>60 min Summer</td><td>0.284</td><td>0.284</td><td>0.1</td><td>2.5</td><td>Flood Risk</td></tr><tr><td>120 min Summer</td><td>0.318</td><td>0.318</td><td>0.1</td><td>3.2</td><td>Flood Risk</td></tr><tr><td>180 min Summer</td><td>0.335</td><td>0.335</td><td>0.1</td><td>3.5</td><td>Flood Risk</td></tr><tr><td>240 min Summer</td><td>0.344</td><td>0.344</td><td>0.1</td><td>3.7</td><td>Flood Risk</td></tr><tr><td>360 min Summer</td><td>0.351</td><td>0.351</td><td>0.1</td><td>3.9</td><td>Flood Risk</td></tr><tr><td>480 min Summer</td><td>0.352</td><td>0.352</td><td>0.1</td><td>3.9</td><td>Flood Risk</td></tr><tr><td>600 min Summer</td><td>0.352</td><td>0.352</td><td>0.1</td><td>3.9</td><td>Flood Risk</td></tr><tr><td>720 min Summer</td><td>0.351</td><td>0.351</td><td>0.1</td><td>3.9</td><td>Flood Risk</td></tr><tr><td>960 min Summer</td><td>0.349</td><td>0.349</td><td>0.1</td><td>3.8</td><td>Flood Risk</td></tr><tr><td>1440 min Summer</td><td>0.342</td><td>0.342</td><td>0.1</td><td>3.7</td><td>Flood Risk</td></tr><tr><td>2160 min Summer</td><td>0.332</td><td>0.332</td><td>0.1</td><td>3.5</td><td>Flood Risk</td></tr><tr><td>2880 min Summer</td><td>0.322</td><td>0.322</td><td>0.1</td><td>3.3</td><td>Flood Risk</td></tr><tr><td>4320 min Summer</td><td>0.306</td><td>0.306</td><td>0.1</td><td>3.0</td><td>Flood Risk</td></tr><tr><td>5760 min Summer</td><td>0.293</td><td>0.293</td><td>0.1</td><td>2.7</td><td>Flood Risk</td></tr><tr><td>7200 min Summer</td><td>0.282</td><td>0.282</td><td>0.1</td><td>2.5</td><td>Flood Risk</td></tr><tr><td>8640 min Summer</td><td>0.274</td><td>0.274</td><td>0.1</td><td>2.4</td><td>Flood Risk</td></tr><tr><td>10080 min Summer</td><td>0.268</td><td>0.268</td><td>0.1</td><td>2.3</td><td>Flood Risk</td></tr><tr><td>15 min Winter</td><td>0.223</td><td>0.223</td><td>0.0</td><td>1.6</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>87.620</td><td>0.0</td><td>19</td></tr><tr><td>30 min Summer</td><td>57.683</td><td>0.0</td><td>34</td></tr><tr><td>60 min Summer</td><td>36.448</td><td>0.0</td><td>64</td></tr><tr><td>120 min Summer</td><td>22.639</td><td>0.0</td><td>122</td></tr><tr><td>180 min Summer</td><td>16.928</td><td>0.0</td><td>182</td></tr><tr><td>240 min Summer</td><td>13.676</td><td>0.0</td><td>242</td></tr><tr><td>360 min Summer</td><td>10.003</td><td>0.0</td><td>360</td></tr><tr><td>480 min Summer</td><td>7.960</td><td>0.0</td><td>448</td></tr><tr><td>600 min Summer</td><td>6.652</td><td>0.0</td><td>500</td></tr><tr><td>720 min Summer</td><td>5.738</td><td>0.0</td><td>558</td></tr><tr><td>960 min Summer</td><td>4.539</td><td>0.0</td><td>684</td></tr><tr><td>1440 min Summer</td><td>3.269</td><td>0.0</td><td>954</td></tr><tr><td>2160 min Summer</td><td>2.374</td><td>0.0</td><td>1364</td></tr><tr><td>2880 min Summer</td><td>1.907</td><td>0.0</td><td>1764</td></tr><tr><td>4320 min Summer</td><td>1.430</td><td>0.0</td><td>2552</td></tr><tr><td>5760 min Summer</td><td>1.183</td><td>0.0</td><td>3344</td></tr><tr><td>7200 min Summer</td><td>1.034</td><td>0.0</td><td>4104</td></tr><tr><td>8640 min Summer</td><td>0.933</td><td>0.0</td><td>4840</td></tr><tr><td>10080 min Summer</td><td>0.861</td><td>0.0</td><td>5552</td></tr><tr><td>15 min 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Tuscany House		Stakers Farm, Yapton - 19-156			
White Hart Lane		Access Road			
Baskingstoke RG21 4AF		Plot 35			
Date 15/12/2020 12:55		Designed by AK			
File Acces Road Plot 35.SRCX		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	0.266	0.266	0.1	2.2	Flood Risk
60 min Winter	0.305	0.305	0.1	2.9	Flood Risk
120 min Winter	0.341	0.341	0.1	3.7	Flood Risk
180 min Winter	0.359	0.359	0.1	4.1	Flood Risk
240 min Winter	0.369	0.369	0.1	4.3	Flood Risk
360 min Winter	0.377	0.377	0.1	4.5	Flood Risk
480 min Winter	0.379	0.379	0.1	4.5	Flood Risk
600 min Winter	0.378	0.378	0.1	4.5	Flood Risk
720 min Winter	0.376	0.376	0.1	4.5	Flood Risk
960 min Winter	0.372	0.372	0.1	4.4	Flood Risk
1440 min Winter	0.362	0.362	0.1	4.2	Flood Risk
2160 min Winter	0.346	0.346	0.1	3.8	Flood Risk
2880 min Winter	0.331	0.331	0.1	3.5	Flood Risk
4320 min Winter	0.306	0.306	0.1	2.9	Flood Risk
5760 min Winter	0.285	0.285	0.1	2.6	Flood Risk
7200 min Winter	0.269	0.269	0.1	2.3	Flood Risk
8640 min Winter	0.256	0.256	0.0	2.1	Flood Risk
10080 min Winter	0.245	0.245	0.0	1.9	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	62		
120 min Winter	22.639	0.0	120		
180 min Winter	16.928	0.0	178		
240 min Winter	13.676	0.0	236		
360 min Winter	10.003	0.0	350		
480 min Winter	7.960	0.0	458		
600 min Winter	6.652	0.0	560		
720 min Winter	5.738	0.0	584		
960 min Winter	4.539	0.0	732		
1440 min Winter	3.269	0.0	1038		
2160 min Winter	2.374	0.0	1472		
2880 min Winter	1.907	0.0	1900		
4320 min Winter	1.430	0.0	2720		
5760 min Winter	1.183	0.0	3512		
7200 min Winter	1.034	0.0	4256		
8640 min Winter	0.933	0.0	5016		
10080 min Winter	0.861	0.0	5752		
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Tuscany House White Hart Lane Baskingstoke RG21 4AF	Stakers Farm, Yapton - 19-156 Access Road Plot 35	
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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) 0.012

	Time (mins)	Area
From:	To:	(ha)
	0	4 0.012

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Model Details

Storage is Online Cover Level (m) 0.510

Porous Car Park Structure

Infiltration Coefficient Base (m/hr)	0.00648	Width (m)	5.4
Membrane Percolation (mm/hr)	1000	Length (m)	22.8
Max Percolation (l/s)	34.2	Slope (1:X)	39.0
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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