

Odyssey		Page 1																								
Tuscany House White Hart Lane Basingstoke RG21 4AF	Roundstone Lane Angmering 20-016																									
Date 28/01/2021 12:15 File	Designed by AK Checked by																									
Innovyze		Source Control 2020.1																								
<u>ICP SUDS Mean Annual Flood</u> Input <table> <tr> <td>Return Period (years)</td> <td>5</td> <td>Soil</td> <td>0.400</td> </tr> <tr> <td>Area (ha)</td> <td>1.330</td> <td>Urban</td> <td>0.210</td> </tr> <tr> <td>SAAR (mm)</td> <td>717</td> <td>Region Number</td> <td>Region 7</td> </tr> </table> Results 1/s <table> <tr> <td>QBAR Rural</td> <td>4.7</td> </tr> <tr> <td>QBAR Urban</td> <td>6.6</td> </tr> <tr> <td>Q5 years</td> <td>8.5</td> </tr> <tr> <td>Q1 year</td> <td>5.6</td> </tr> <tr> <td>Q30 years</td> <td>13.7</td> </tr> <tr> <td>Q100 years</td> <td>17.8</td> </tr> </table>			Return Period (years)	5	Soil	0.400	Area (ha)	1.330	Urban	0.210	SAAR (mm)	717	Region Number	Region 7	QBAR Rural	4.7	QBAR Urban	6.6	Q5 years	8.5	Q1 year	5.6	Q30 years	13.7	Q100 years	17.8
Return Period (years)	5	Soil	0.400																							
Area (ha)	1.330	Urban	0.210																							
SAAR (mm)	717	Region Number	Region 7																							
QBAR Rural	4.7																									
QBAR Urban	6.6																									
Q5 years	8.5																									
Q1 year	5.6																									
Q30 years	13.7																									
Q100 years	17.8																									
©1982-2020 Innovyze																										

Odyssey				Page 1																																																																																																																																																																																																																			
Tuscany House		Roundstone Lane																																																																																																																																																																																																																					
White Hart Lane		Angmering - 20-016																																																																																																																																																																																																																					
Basingstoke RG21 4AF		SA1																																																																																																																																																																																																																					
Date 11/02/2021 18:29		Designed by AK																																																																																																																																																																																																																					
File Soakaway SA1.SRCX		Checked by																																																																																																																																																																																																																					
Innovyze		Source Control 2020.1																																																																																																																																																																																																																					
<u>Summary of Results for 100 year Return Period (+40%)</u> Half Drain Time : 469 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>0.162</td><td>0.162</td><td>5.7</td><td>146.2</td><td>Flood Risk</td></tr><tr><td>30 min Summer</td><td>0.214</td><td>0.214</td><td>5.7</td><td>193.5</td><td>Flood Risk</td></tr><tr><td>60 min Summer</td><td>0.267</td><td>0.267</td><td>5.7</td><td>241.4</td><td>Flood Risk</td></tr><tr><td>120 min Summer</td><td>0.295</td><td>0.295</td><td>5.7</td><td>266.0</td><td>Flood Risk</td></tr><tr><td>180 min Summer</td><td>0.305</td><td>0.305</td><td>5.7</td><td>275.5</td><td>Flood Risk</td></tr><tr><td>240 min Summer</td><td>0.308</td><td>0.308</td><td>5.7</td><td>278.1</td><td>Flood Risk</td></tr><tr><td>360 min Summer</td><td>0.303</td><td>0.303</td><td>5.7</td><td>273.2</td><td>Flood Risk</td></tr><tr><td>480 min Summer</td><td>0.293</td><td>0.293</td><td>5.7</td><td>264.8</td><td>Flood Risk</td></tr><tr><td>600 min Summer</td><td>0.285</td><td>0.285</td><td>5.7</td><td>256.9</td><td>Flood Risk</td></tr><tr><td>720 min Summer</td><td>0.276</td><td>0.276</td><td>5.7</td><td>249.2</td><td>Flood Risk</td></tr><tr><td>960 min Summer</td><td>0.260</td><td>0.260</td><td>5.7</td><td>234.7</td><td>Flood Risk</td></tr><tr><td>1440 min Summer</td><td>0.231</td><td>0.231</td><td>5.7</td><td>208.1</td><td>Flood Risk</td></tr><tr><td>2160 min Summer</td><td>0.193</td><td>0.193</td><td>5.7</td><td>173.8</td><td>Flood Risk</td></tr><tr><td>2880 min Summer</td><td>0.160</td><td>0.160</td><td>5.7</td><td>144.8</td><td>Flood Risk</td></tr><tr><td>4320 min Summer</td><td>0.111</td><td>0.111</td><td>5.7</td><td>99.8</td><td>Flood Risk</td></tr><tr><td>5760 min Summer</td><td>0.077</td><td>0.077</td><td>5.7</td><td>69.9</td><td>O K</td></tr><tr><td>7200 min Summer</td><td>0.057</td><td>0.057</td><td>5.7</td><td>51.9</td><td>O K</td></tr><tr><td>8640 min Summer</td><td>0.049</td><td>0.049</td><td>5.6</td><td>44.1</td><td>O K</td></tr><tr><td>10080 min Summer</td><td>0.045</td><td>0.045</td><td>5.1</td><td>40.5</td><td>O K</td></tr><tr><td>15 min Winter</td><td>0.182</td><td>0.182</td><td>5.7</td><td>164.1</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>151.536</td><td>0.0</td><td>19</td></tr><tr><td>30 min Summer</td><td>101.550</td><td>0.0</td><td>33</td></tr><tr><td>60 min Summer</td><td>64.948</td><td>0.0</td><td>64</td></tr><tr><td>120 min Summer</td><td>37.629</td><td>0.0</td><td>122</td></tr><tr><td>180 min Summer</td><td>27.271</td><td>0.0</td><td>182</td></tr><tr><td>240 min Summer</td><td>21.662</td><td>0.0</td><td>242</td></tr><tr><td>360 min Summer</td><td>15.601</td><td>0.0</td><td>354</td></tr><tr><td>480 min Summer</td><td>12.341</td><td>0.0</td><td>404</td></tr><tr><td>600 min Summer</td><td>10.288</td><td>0.0</td><td>464</td></tr><tr><td>720 min Summer</td><td>8.869</td><td>0.0</td><td>522</td></tr><tr><td>960 min Summer</td><td>7.026</td><td>0.0</td><td>656</td></tr><tr><td>1440 min Summer</td><td>5.075</td><td>0.0</td><td>924</td></tr><tr><td>2160 min Summer</td><td>3.689</td><td>0.0</td><td>1320</td></tr><tr><td>2880 min Summer</td><td>2.957</td><td>0.0</td><td>1704</td></tr><tr><td>4320 min Summer</td><td>2.183</td><td>0.0</td><td>2424</td></tr><tr><td>5760 min Summer</td><td>1.776</td><td>0.0</td><td>3112</td></tr><tr><td>7200 min Summer</td><td>1.521</td><td>0.0</td><td>3752</td></tr><tr><td>8640 min Summer</td><td>1.347</td><td>0.0</td><td>4408</td></tr><tr><td>10080 min Summer</td><td>1.223</td><td>0.0</td><td>5144</td></tr><tr><td>15 min Winter</td><td>151.536</td><td>0.0</td><td>18</td></tr></tbody></table>						Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status	15 min Summer	0.162	0.162	5.7	146.2	Flood Risk	30 min Summer	0.214	0.214	5.7	193.5	Flood Risk	60 min Summer	0.267	0.267	5.7	241.4	Flood Risk	120 min Summer	0.295	0.295	5.7	266.0	Flood Risk	180 min Summer	0.305	0.305	5.7	275.5	Flood Risk	240 min Summer	0.308	0.308	5.7	278.1	Flood Risk	360 min Summer	0.303	0.303	5.7	273.2	Flood Risk	480 min Summer	0.293	0.293	5.7	264.8	Flood Risk	600 min Summer	0.285	0.285	5.7	256.9	Flood Risk	720 min Summer	0.276	0.276	5.7	249.2	Flood Risk	960 min Summer	0.260	0.260	5.7	234.7	Flood Risk	1440 min Summer	0.231	0.231	5.7	208.1	Flood Risk	2160 min Summer	0.193	0.193	5.7	173.8	Flood Risk	2880 min Summer	0.160	0.160	5.7	144.8	Flood Risk	4320 min Summer	0.111	0.111	5.7	99.8	Flood Risk	5760 min Summer	0.077	0.077	5.7	69.9	O K	7200 min Summer	0.057	0.057	5.7	51.9	O K	8640 min Summer	0.049	0.049	5.6	44.1	O K	10080 min Summer	0.045	0.045	5.1	40.5	O K	15 min Winter	0.182	0.182	5.7	164.1	Flood Risk	Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)	15 min Summer	151.536	0.0	19	30 min Summer	101.550	0.0	33	60 min Summer	64.948	0.0	64	120 min Summer	37.629	0.0	122	180 min Summer	27.271	0.0	182	240 min Summer	21.662	0.0	242	360 min Summer	15.601	0.0	354	480 min Summer	12.341	0.0	404	600 min Summer	10.288	0.0	464	720 min Summer	8.869	0.0	522	960 min Summer	7.026	0.0	656	1440 min Summer	5.075	0.0	924	2160 min Summer	3.689	0.0	1320	2880 min Summer	2.957	0.0	1704	4320 min Summer	2.183	0.0	2424	5760 min Summer	1.776	0.0	3112	7200 min Summer	1.521	0.0	3752	8640 min Summer	1.347	0.0	4408	10080 min Summer	1.223	0.0	5144	15 min Winter	151.536	0.0	18
Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status																																																																																																																																																																																																																		
15 min Summer	0.162	0.162	5.7	146.2	Flood Risk																																																																																																																																																																																																																		
30 min Summer	0.214	0.214	5.7	193.5	Flood Risk																																																																																																																																																																																																																		
60 min Summer	0.267	0.267	5.7	241.4	Flood Risk																																																																																																																																																																																																																		
120 min Summer	0.295	0.295	5.7	266.0	Flood Risk																																																																																																																																																																																																																		
180 min Summer	0.305	0.305	5.7	275.5	Flood Risk																																																																																																																																																																																																																		
240 min Summer	0.308	0.308	5.7	278.1	Flood Risk																																																																																																																																																																																																																		
360 min Summer	0.303	0.303	5.7	273.2	Flood Risk																																																																																																																																																																																																																		
480 min Summer	0.293	0.293	5.7	264.8	Flood Risk																																																																																																																																																																																																																		
600 min Summer	0.285	0.285	5.7	256.9	Flood Risk																																																																																																																																																																																																																		
720 min Summer	0.276	0.276	5.7	249.2	Flood Risk																																																																																																																																																																																																																		
960 min Summer	0.260	0.260	5.7	234.7	Flood Risk																																																																																																																																																																																																																		
1440 min Summer	0.231	0.231	5.7	208.1	Flood Risk																																																																																																																																																																																																																		
2160 min Summer	0.193	0.193	5.7	173.8	Flood Risk																																																																																																																																																																																																																		
2880 min Summer	0.160	0.160	5.7	144.8	Flood Risk																																																																																																																																																																																																																		
4320 min Summer	0.111	0.111	5.7	99.8	Flood Risk																																																																																																																																																																																																																		
5760 min Summer	0.077	0.077	5.7	69.9	O K																																																																																																																																																																																																																		
7200 min Summer	0.057	0.057	5.7	51.9	O K																																																																																																																																																																																																																		
8640 min Summer	0.049	0.049	5.6	44.1	O K																																																																																																																																																																																																																		
10080 min Summer	0.045	0.045	5.1	40.5	O K																																																																																																																																																																																																																		
15 min Winter	0.182	0.182	5.7	164.1	Flood Risk																																																																																																																																																																																																																		
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)																																																																																																																																																																																																																				
15 min Summer	151.536	0.0	19																																																																																																																																																																																																																				
30 min Summer	101.550	0.0	33																																																																																																																																																																																																																				
60 min Summer	64.948	0.0	64																																																																																																																																																																																																																				
120 min Summer	37.629	0.0	122																																																																																																																																																																																																																				
180 min Summer	27.271	0.0	182																																																																																																																																																																																																																				
240 min Summer	21.662	0.0	242																																																																																																																																																																																																																				
360 min Summer	15.601	0.0	354																																																																																																																																																																																																																				
480 min Summer	12.341	0.0	404																																																																																																																																																																																																																				
600 min Summer	10.288	0.0	464																																																																																																																																																																																																																				
720 min Summer	8.869	0.0	522																																																																																																																																																																																																																				
960 min Summer	7.026	0.0	656																																																																																																																																																																																																																				
1440 min Summer	5.075	0.0	924																																																																																																																																																																																																																				
2160 min Summer	3.689	0.0	1320																																																																																																																																																																																																																				
2880 min Summer	2.957	0.0	1704																																																																																																																																																																																																																				
4320 min Summer	2.183	0.0	2424																																																																																																																																																																																																																				
5760 min Summer	1.776	0.0	3112																																																																																																																																																																																																																				
7200 min Summer	1.521	0.0	3752																																																																																																																																																																																																																				
8640 min Summer	1.347	0.0	4408																																																																																																																																																																																																																				
10080 min Summer	1.223	0.0	5144																																																																																																																																																																																																																				
15 min Winter	151.536	0.0	18																																																																																																																																																																																																																				
©1982-2020 Innovyze																																																																																																																																																																																																																							

Odyssey		Page 2			
Tuscany House	Roundstone Lane				
White Hart Lane	Angmering - 20-016				
Basingstoke RG21 4AF	SA1				
Date 11/02/2021 18:29	Designed by AK				
File Soakaway SA1.SRCX	Checked by				
Innovyze	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	0.241	0.241	5.7	217.6	Flood Risk
60 min Winter	0.302	0.302	5.7	272.3	Flood Risk
120 min Winter	0.334	0.334	5.7	301.7	Flood Risk
180 min Winter	0.348	0.348	5.7	314.2	Flood Risk
240 min Winter	0.354	0.354	5.7	319.2	Flood Risk
360 min Winter	0.352	0.352	5.7	317.6	Flood Risk
480 min Winter	0.342	0.342	5.7	308.7	Flood Risk
600 min Winter	0.329	0.329	5.7	297.1	Flood Risk
720 min Winter	0.319	0.319	5.7	287.5	Flood Risk
960 min Winter	0.297	0.297	5.7	267.8	Flood Risk
1440 min Winter	0.253	0.253	5.7	228.7	Flood Risk
2160 min Winter	0.195	0.195	5.7	175.9	Flood Risk
2880 min Winter	0.145	0.145	5.7	131.2	Flood Risk
4320 min Winter	0.075	0.075	5.7	67.3	O K
5760 min Winter	0.048	0.048	5.4	43.0	O K
7200 min Winter	0.041	0.041	4.7	37.1	O K
8640 min Winter	0.037	0.037	4.2	33.0	O K
10080 min Winter	0.033	0.033	3.8	30.0	O K
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)		
30 min Winter	101.550	0.0	33		
60 min Winter	64.948	0.0	62		
120 min Winter	37.629	0.0	120		
180 min Winter	27.271	0.0	178		
240 min Winter	21.662	0.0	236		
360 min Winter	15.601	0.0	348		
480 min Winter	12.341	0.0	454		
600 min Winter	10.288	0.0	502		
720 min Winter	8.869	0.0	564		
960 min Winter	7.026	0.0	714		
1440 min Winter	5.075	0.0	1010		
2160 min Winter	3.689	0.0	1428		
2880 min Winter	2.957	0.0	1816		
4320 min Winter	2.183	0.0	2464		
5760 min Winter	1.776	0.0	3000		
7200 min Winter	1.521	0.0	3680		
8640 min Winter	1.347	0.0	4408		
10080 min Winter	1.223	0.0	5144		
©1982-2020 Innovyze					

Odyssey		Page 3
Tuscany House White Hart Lane Basingstoke RG21 4AF	Roundstone Lane Angmering - 20-016 SA1	
Date 11/02/2021 18:29 File Soakaway SA1.SRCX	Designed by AK Checked by	
Innovyze Source Control 2020.1		

Rainfall Details

Rainfall Model	FEH
Return Period (years)	100
FEH Rainfall Version	2013
Site Location	GB 507294 103462 TQ 07294 03462
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) 0.530

	Time (mins)	Area
From:	To:	(ha)
	0	4 0.530

©1982-2020 Innovyze

Odyssey		Page 4
Tuscany House White Hart Lane Basingstoke RG21 4AF	Roundstone Lane Angmering - 20-016 SA1	
Date 11/02/2021 18:29 File Soakaway SA1.SRCX	Designed by AK Checked by	
Innovyze Source Control 2020.1		

Model Details

Storage is Online Cover Level (m) 0.400

Infiltration Blanket Structure

Infiltration Coefficient Base (m/hr)	0.04320	Diameter/Width (m)	19.0
Safety Factor	2.0	Length (m)	50.0
Porosity	0.95	Cap Volume Depth (m)	0.000
Invert Level (m)	0.000		

©1982-2020 Innovyze

Odyssey				Page 1																																																																																																																																																																																																																			
Tuscany House		Roundstone Lane																																																																																																																																																																																																																					
White Hart Lane		Angmering - 20-016																																																																																																																																																																																																																					
Basingstoke RG21 4AF		SA1																																																																																																																																																																																																																					
Date 12/02/2021 14:51		Designed by AK																																																																																																																																																																																																																					
File Soakaway SA1.SRCX		Checked by																																																																																																																																																																																																																					
Innovyze		Source Control 2020.1																																																																																																																																																																																																																					
<u>Summary of Results for 10 year Return Period (+40%)</u> Half Drain Time : 271 minutes. <table><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><tr><td>15 min Summer</td><td>0.096</td><td>0.096</td><td>5.7</td><td>86.8</td><td>O K</td></tr><tr><td>30 min Summer</td><td>0.124</td><td>0.124</td><td>5.7</td><td>111.5</td><td>Flood Risk</td></tr><tr><td>60 min Summer</td><td>0.150</td><td>0.150</td><td>5.7</td><td>135.7</td><td>Flood Risk</td></tr><tr><td>120 min Summer</td><td>0.171</td><td>0.171</td><td>5.7</td><td>154.3</td><td>Flood Risk</td></tr><tr><td>180 min Summer</td><td>0.177</td><td>0.177</td><td>5.7</td><td>159.8</td><td>Flood Risk</td></tr><tr><td>240 min Summer</td><td>0.177</td><td>0.177</td><td>5.7</td><td>160.0</td><td>Flood Risk</td></tr><tr><td>360 min Summer</td><td>0.174</td><td>0.174</td><td>5.7</td><td>157.1</td><td>Flood Risk</td></tr><tr><td>480 min Summer</td><td>0.169</td><td>0.169</td><td>5.7</td><td>152.2</td><td>Flood Risk</td></tr><tr><td>600 min Summer</td><td>0.162</td><td>0.162</td><td>5.7</td><td>146.4</td><td>Flood Risk</td></tr><tr><td>720 min Summer</td><td>0.156</td><td>0.156</td><td>5.7</td><td>140.5</td><td>Flood Risk</td></tr><tr><td>960 min Summer</td><td>0.143</td><td>0.143</td><td>5.7</td><td>128.7</td><td>Flood Risk</td></tr><tr><td>1440 min Summer</td><td>0.119</td><td>0.119</td><td>5.7</td><td>107.4</td><td>Flood Risk</td></tr><tr><td>2160 min Summer</td><td>0.091</td><td>0.091</td><td>5.7</td><td>82.0</td><td>O K</td></tr><tr><td>2880 min Summer</td><td>0.071</td><td>0.071</td><td>5.7</td><td>63.9</td><td>O K</td></tr><tr><td>4320 min Summer</td><td>0.050</td><td>0.050</td><td>5.7</td><td>44.9</td><td>O K</td></tr><tr><td>5760 min Summer</td><td>0.043</td><td>0.043</td><td>4.9</td><td>38.4</td><td>O K</td></tr><tr><td>7200 min Summer</td><td>0.038</td><td>0.038</td><td>4.4</td><td>34.4</td><td>O K</td></tr><tr><td>8640 min Summer</td><td>0.035</td><td>0.035</td><td>4.0</td><td>31.6</td><td>O K</td></tr><tr><td>10080 min Summer</td><td>0.033</td><td>0.033</td><td>3.7</td><td>29.4</td><td>O K</td></tr><tr><td>15 min Winter</td><td>0.108</td><td>0.108</td><td>5.7</td><td>97.6</td><td>Flood Risk</td></tr></table> <table><tr><th>Storm Event</th><th>Rain (mm/hr)</th><th>Flooded Volume (m³)</th><th>Time-Peak (mins)</th></tr><tr><td>15 min Summer</td><td>91.348</td><td>0.0</td><td>18</td></tr><tr><td>30 min Summer</td><td>59.875</td><td>0.0</td><td>33</td></tr><tr><td>60 min Summer</td><td>37.884</td><td>0.0</td><td>62</td></tr><tr><td>120 min Summer</td><td>23.172</td><td>0.0</td><td>122</td></tr><tr><td>180 min Summer</td><td>17.181</td><td>0.0</td><td>180</td></tr><tr><td>240 min Summer</td><td>13.823</td><td>0.0</td><td>216</td></tr><tr><td>360 min Summer</td><td>10.096</td><td>0.0</td><td>276</td></tr><tr><td>480 min Summer</td><td>8.045</td><td>0.0</td><td>340</td></tr><tr><td>600 min Summer</td><td>6.737</td><td>0.0</td><td>408</td></tr><tr><td>720 min Summer</td><td>5.826</td><td>0.0</td><td>476</td></tr><tr><td>960 min Summer</td><td>4.633</td><td>0.0</td><td>608</td></tr><tr><td>1440 min Summer</td><td>3.366</td><td>0.0</td><td>868</td></tr><tr><td>2160 min Summer</td><td>2.460</td><td>0.0</td><td>1236</td></tr><tr><td>2880 min Summer</td><td>1.983</td><td>0.0</td><td>1588</td></tr><tr><td>4320 min Summer</td><td>1.488</td><td>0.0</td><td>2248</td></tr><tr><td>5760 min Summer</td><td>1.230</td><td>0.0</td><td>2952</td></tr><tr><td>7200 min Summer</td><td>1.072</td><td>0.0</td><td>3680</td></tr><tr><td>8640 min Summer</td><td>0.964</td><td>0.0</td><td>4408</td></tr><tr><td>10080 min Summer</td><td>0.887</td><td>0.0</td><td>5144</td></tr><tr><td>15 min Winter</td><td>91.348</td><td>0.0</td><td>18</td></tr></table>						Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status	15 min Summer	0.096	0.096	5.7	86.8	O K	30 min Summer	0.124	0.124	5.7	111.5	Flood Risk	60 min Summer	0.150	0.150	5.7	135.7	Flood Risk	120 min Summer	0.171	0.171	5.7	154.3	Flood Risk	180 min Summer	0.177	0.177	5.7	159.8	Flood Risk	240 min Summer	0.177	0.177	5.7	160.0	Flood Risk	360 min Summer	0.174	0.174	5.7	157.1	Flood Risk	480 min Summer	0.169	0.169	5.7	152.2	Flood Risk	600 min Summer	0.162	0.162	5.7	146.4	Flood Risk	720 min Summer	0.156	0.156	5.7	140.5	Flood Risk	960 min Summer	0.143	0.143	5.7	128.7	Flood Risk	1440 min Summer	0.119	0.119	5.7	107.4	Flood Risk	2160 min Summer	0.091	0.091	5.7	82.0	O K	2880 min Summer	0.071	0.071	5.7	63.9	O K	4320 min Summer	0.050	0.050	5.7	44.9	O K	5760 min Summer	0.043	0.043	4.9	38.4	O K	7200 min Summer	0.038	0.038	4.4	34.4	O K	8640 min Summer	0.035	0.035	4.0	31.6	O K	10080 min Summer	0.033	0.033	3.7	29.4	O K	15 min Winter	0.108	0.108	5.7	97.6	Flood Risk	Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)	15 min Summer	91.348	0.0	18	30 min Summer	59.875	0.0	33	60 min Summer	37.884	0.0	62	120 min Summer	23.172	0.0	122	180 min Summer	17.181	0.0	180	240 min Summer	13.823	0.0	216	360 min Summer	10.096	0.0	276	480 min Summer	8.045	0.0	340	600 min Summer	6.737	0.0	408	720 min Summer	5.826	0.0	476	960 min Summer	4.633	0.0	608	1440 min Summer	3.366	0.0	868	2160 min Summer	2.460	0.0	1236	2880 min Summer	1.983	0.0	1588	4320 min Summer	1.488	0.0	2248	5760 min Summer	1.230	0.0	2952	7200 min Summer	1.072	0.0	3680	8640 min Summer	0.964	0.0	4408	10080 min Summer	0.887	0.0	5144	15 min Winter	91.348	0.0	18
Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status																																																																																																																																																																																																																		
15 min Summer	0.096	0.096	5.7	86.8	O K																																																																																																																																																																																																																		
30 min Summer	0.124	0.124	5.7	111.5	Flood Risk																																																																																																																																																																																																																		
60 min Summer	0.150	0.150	5.7	135.7	Flood Risk																																																																																																																																																																																																																		
120 min Summer	0.171	0.171	5.7	154.3	Flood Risk																																																																																																																																																																																																																		
180 min Summer	0.177	0.177	5.7	159.8	Flood Risk																																																																																																																																																																																																																		
240 min Summer	0.177	0.177	5.7	160.0	Flood Risk																																																																																																																																																																																																																		
360 min Summer	0.174	0.174	5.7	157.1	Flood Risk																																																																																																																																																																																																																		
480 min Summer	0.169	0.169	5.7	152.2	Flood Risk																																																																																																																																																																																																																		
600 min Summer	0.162	0.162	5.7	146.4	Flood Risk																																																																																																																																																																																																																		
720 min Summer	0.156	0.156	5.7	140.5	Flood Risk																																																																																																																																																																																																																		
960 min Summer	0.143	0.143	5.7	128.7	Flood Risk																																																																																																																																																																																																																		
1440 min Summer	0.119	0.119	5.7	107.4	Flood Risk																																																																																																																																																																																																																		
2160 min Summer	0.091	0.091	5.7	82.0	O K																																																																																																																																																																																																																		
2880 min Summer	0.071	0.071	5.7	63.9	O K																																																																																																																																																																																																																		
4320 min Summer	0.050	0.050	5.7	44.9	O K																																																																																																																																																																																																																		
5760 min Summer	0.043	0.043	4.9	38.4	O K																																																																																																																																																																																																																		
7200 min Summer	0.038	0.038	4.4	34.4	O K																																																																																																																																																																																																																		
8640 min Summer	0.035	0.035	4.0	31.6	O K																																																																																																																																																																																																																		
10080 min Summer	0.033	0.033	3.7	29.4	O K																																																																																																																																																																																																																		
15 min Winter	0.108	0.108	5.7	97.6	Flood Risk																																																																																																																																																																																																																		
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)																																																																																																																																																																																																																				
15 min Summer	91.348	0.0	18																																																																																																																																																																																																																				
30 min Summer	59.875	0.0	33																																																																																																																																																																																																																				
60 min Summer	37.884	0.0	62																																																																																																																																																																																																																				
120 min Summer	23.172	0.0	122																																																																																																																																																																																																																				
180 min Summer	17.181	0.0	180																																																																																																																																																																																																																				
240 min Summer	13.823	0.0	216																																																																																																																																																																																																																				
360 min Summer	10.096	0.0	276																																																																																																																																																																																																																				
480 min Summer	8.045	0.0	340																																																																																																																																																																																																																				
600 min Summer	6.737	0.0	408																																																																																																																																																																																																																				
720 min Summer	5.826	0.0	476																																																																																																																																																																																																																				
960 min Summer	4.633	0.0	608																																																																																																																																																																																																																				
1440 min Summer	3.366	0.0	868																																																																																																																																																																																																																				
2160 min Summer	2.460	0.0	1236																																																																																																																																																																																																																				
2880 min Summer	1.983	0.0	1588																																																																																																																																																																																																																				
4320 min Summer	1.488	0.0	2248																																																																																																																																																																																																																				
5760 min Summer	1.230	0.0	2952																																																																																																																																																																																																																				
7200 min Summer	1.072	0.0	3680																																																																																																																																																																																																																				
8640 min Summer	0.964	0.0	4408																																																																																																																																																																																																																				
10080 min Summer	0.887	0.0	5144																																																																																																																																																																																																																				
15 min Winter	91.348	0.0	18																																																																																																																																																																																																																				
©1982-2020 Innovyze																																																																																																																																																																																																																							

Odyssey		Page 2			
Tuscany House	Roundstone Lane				
White Hart Lane	Angmering - 20-016				
Basingstoke RG21 4AF	SA1				
Date 12/02/2021 14:51	Designed by AK				
File Soakaway SA1.SRCX	Checked by				
Innovyze	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	0.139	0.139	5.7	125.6	Flood Risk
60 min Winter	0.170	0.170	5.7	153.4	Flood Risk
120 min Winter	0.195	0.195	5.7	175.8	Flood Risk
180 min Winter	0.203	0.203	5.7	183.6	Flood Risk
240 min Winter	0.205	0.205	5.7	185.2	Flood Risk
360 min Winter	0.199	0.199	5.7	180.0	Flood Risk
480 min Winter	0.192	0.192	5.7	173.3	Flood Risk
600 min Winter	0.183	0.183	5.7	165.2	Flood Risk
720 min Winter	0.173	0.173	5.7	156.4	Flood Risk
960 min Winter	0.154	0.154	5.7	138.6	Flood Risk
1440 min Winter	0.118	0.118	5.7	106.1	Flood Risk
2160 min Winter	0.076	0.076	5.7	68.4	O K
2880 min Winter	0.051	0.051	5.7	46.4	O K
4320 min Winter	0.039	0.039	4.5	35.6	O K
5760 min Winter	0.033	0.033	3.8	29.8	O K
7200 min Winter	0.029	0.029	3.3	26.2	O K
8640 min Winter	0.026	0.026	3.0	23.6	O K
10080 min Winter	0.024	0.024	2.8	21.7	O K
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)		
30 min Winter	59.875	0.0	32		
60 min Winter	37.884	0.0	62		
120 min Winter	23.172	0.0	118		
180 min Winter	17.181	0.0	176		
240 min Winter	13.823	0.0	230		
360 min Winter	10.096	0.0	296		
480 min Winter	8.045	0.0	368		
600 min Winter	6.737	0.0	446		
720 min Winter	5.826	0.0	520		
960 min Winter	4.633	0.0	664		
1440 min Winter	3.366	0.0	936		
2160 min Winter	2.460	0.0	1296		
2880 min Winter	1.983	0.0	1560		
4320 min Winter	1.488	0.0	2288		
5760 min Winter	1.230	0.0	2992		
7200 min Winter	1.072	0.0	3704		
8640 min Winter	0.964	0.0	4408		
10080 min Winter	0.887	0.0	5144		
©1982-2020 Innovyze					

Odyssey		Page 3
Tuscany House White Hart Lane Basingstoke RG21 4AF	Roundstone Lane Angmering - 20-016 SA1	
Date 12/02/2021 14:51 File Soakaway SA1.SRCX	Designed by AK Checked by	
Innovyze Source Control 2020.1		

Rainfall Details

Rainfall Model	FEH
Return Period (years)	10
FEH Rainfall Version	2013
Site Location	GB 507294 103462 TQ 07294 03462
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) 0.530

	Time (mins)	Area
From:	To:	(ha)
	0	4 0.530

©1982-2020 Innovyze

Odyssey		Page 4
Tuscany House White Hart Lane Basingstoke RG21 4AF	Roundstone Lane Angmering - 20-016 SA1	
Date 12/02/2021 14:51 File Soakaway SA1.SRCX	Designed by AK Checked by	
Innovyze Source Control 2020.1		

Model Details

Storage is Online Cover Level (m) 0.400

Infiltration Blanket Structure

Infiltration Coefficient Base (m/hr)	0.04320	Diameter/Width (m)	19.0
Safety Factor	2.0	Length (m)	50.0
Porosity	0.95	Cap Volume Depth (m)	0.000
Invert Level (m)	0.000		

©1982-2020 Innovyze

Odyssey				Page 1																																																																																																																																																																																																																			
Tuscany House		Roundstone Lane																																																																																																																																																																																																																					
White Hart Lane		Angmering - 20-016																																																																																																																																																																																																																					
Basingstoke RG21 4AF		SA2																																																																																																																																																																																																																					
Date 11/02/2021 18:30		Designed by AK																																																																																																																																																																																																																					
File Soakaway SA2.SRCX		Checked by																																																																																																																																																																																																																					
Innovyze		Source Control 2020.1																																																																																																																																																																																																																					
<u>Summary of Results for 100 year Return Period (+40%)</u> Half Drain Time : 792 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>0.579</td><td>0.579</td><td>0.2</td><td>10.4</td><td>O K</td></tr><tr><td>30 min Summer</td><td>0.771</td><td>0.771</td><td>0.2</td><td>13.9</td><td>O K</td></tr><tr><td>60 min Summer</td><td>0.974</td><td>0.974</td><td>0.3</td><td>17.5</td><td>O K</td></tr><tr><td>120 min Summer</td><td>1.100</td><td>1.100</td><td>0.3</td><td>19.8</td><td>O K</td></tr><tr><td>180 min Summer</td><td>1.166</td><td>1.166</td><td>0.3</td><td>21.0</td><td>O K</td></tr><tr><td>240 min Summer</td><td>1.204</td><td>1.204</td><td>0.3</td><td>21.7</td><td>Flood Risk</td></tr><tr><td>360 min Summer</td><td>1.237</td><td>1.237</td><td>0.3</td><td>22.3</td><td>Flood Risk</td></tr><tr><td>480 min Summer</td><td>1.241</td><td>1.241</td><td>0.3</td><td>22.3</td><td>Flood Risk</td></tr><tr><td>600 min Summer</td><td>1.241</td><td>1.241</td><td>0.3</td><td>22.3</td><td>Flood Risk</td></tr><tr><td>720 min Summer</td><td>1.240</td><td>1.240</td><td>0.3</td><td>22.3</td><td>Flood Risk</td></tr><tr><td>960 min Summer</td><td>1.237</td><td>1.237</td><td>0.3</td><td>22.3</td><td>Flood Risk</td></tr><tr><td>1440 min Summer</td><td>1.223</td><td>1.223</td><td>0.3</td><td>22.0</td><td>Flood Risk</td></tr><tr><td>2160 min Summer</td><td>1.190</td><td>1.190</td><td>0.3</td><td>21.4</td><td>O K</td></tr><tr><td>2880 min Summer</td><td>1.153</td><td>1.153</td><td>0.3</td><td>20.8</td><td>O K</td></tr><tr><td>4320 min Summer</td><td>1.081</td><td>1.081</td><td>0.3</td><td>19.5</td><td>O K</td></tr><tr><td>5760 min Summer</td><td>1.020</td><td>1.020</td><td>0.3</td><td>18.4</td><td>O K</td></tr><tr><td>7200 min Summer</td><td>0.968</td><td>0.968</td><td>0.3</td><td>17.4</td><td>O K</td></tr><tr><td>8640 min Summer</td><td>0.926</td><td>0.926</td><td>0.2</td><td>16.7</td><td>O K</td></tr><tr><td>10080 min Summer</td><td>0.892</td><td>0.892</td><td>0.2</td><td>16.1</td><td>O K</td></tr><tr><td>15 min Winter</td><td>0.649</td><td>0.649</td><td>0.2</td><td>11.7</td><td>O K</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>151.536</td><td>0.0</td><td>19</td></tr><tr><td>30 min Summer</td><td>101.550</td><td>0.0</td><td>34</td></tr><tr><td>60 min Summer</td><td>64.948</td><td>0.0</td><td>64</td></tr><tr><td>120 min Summer</td><td>37.629</td><td>0.0</td><td>122</td></tr><tr><td>180 min Summer</td><td>27.271</td><td>0.0</td><td>182</td></tr><tr><td>240 min Summer</td><td>21.662</td><td>0.0</td><td>242</td></tr><tr><td>360 min Summer</td><td>15.601</td><td>0.0</td><td>360</td></tr><tr><td>480 min Summer</td><td>12.341</td><td>0.0</td><td>466</td></tr><tr><td>600 min Summer</td><td>10.288</td><td>0.0</td><td>512</td></tr><tr><td>720 min Summer</td><td>8.869</td><td>0.0</td><td>570</td></tr><tr><td>960 min Summer</td><td>7.026</td><td>0.0</td><td>694</td></tr><tr><td>1440 min Summer</td><td>5.075</td><td>0.0</td><td>966</td></tr><tr><td>2160 min Summer</td><td>3.689</td><td>0.0</td><td>1380</td></tr><tr><td>2880 min Summer</td><td>2.957</td><td>0.0</td><td>1788</td></tr><tr><td>4320 min Summer</td><td>2.183</td><td>0.0</td><td>2592</td></tr><tr><td>5760 min Summer</td><td>1.776</td><td>0.0</td><td>3352</td></tr><tr><td>7200 min Summer</td><td>1.521</td><td>0.0</td><td>4112</td></tr><tr><td>8640 min Summer</td><td>1.347</td><td>0.0</td><td>4848</td></tr><tr><td>10080 min Summer</td><td>1.223</td><td>0.0</td><td>5648</td></tr><tr><td>15 min Winter</td><td>151.536</td><td>0.0</td><td>19</td></tr></tbody></table>						Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status	15 min Summer	0.579	0.579	0.2	10.4	O K	30 min Summer	0.771	0.771	0.2	13.9	O K	60 min Summer	0.974	0.974	0.3	17.5	O K	120 min Summer	1.100	1.100	0.3	19.8	O K	180 min Summer	1.166	1.166	0.3	21.0	O K	240 min Summer	1.204	1.204	0.3	21.7	Flood Risk	360 min Summer	1.237	1.237	0.3	22.3	Flood Risk	480 min Summer	1.241	1.241	0.3	22.3	Flood Risk	600 min Summer	1.241	1.241	0.3	22.3	Flood Risk	720 min Summer	1.240	1.240	0.3	22.3	Flood Risk	960 min Summer	1.237	1.237	0.3	22.3	Flood Risk	1440 min Summer	1.223	1.223	0.3	22.0	Flood Risk	2160 min Summer	1.190	1.190	0.3	21.4	O K	2880 min Summer	1.153	1.153	0.3	20.8	O K	4320 min Summer	1.081	1.081	0.3	19.5	O K	5760 min Summer	1.020	1.020	0.3	18.4	O K	7200 min Summer	0.968	0.968	0.3	17.4	O K	8640 min Summer	0.926	0.926	0.2	16.7	O K	10080 min Summer	0.892	0.892	0.2	16.1	O K	15 min Winter	0.649	0.649	0.2	11.7	O K	Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)	15 min Summer	151.536	0.0	19	30 min Summer	101.550	0.0	34	60 min Summer	64.948	0.0	64	120 min Summer	37.629	0.0	122	180 min Summer	27.271	0.0	182	240 min Summer	21.662	0.0	242	360 min Summer	15.601	0.0	360	480 min Summer	12.341	0.0	466	600 min Summer	10.288	0.0	512	720 min Summer	8.869	0.0	570	960 min Summer	7.026	0.0	694	1440 min Summer	5.075	0.0	966	2160 min Summer	3.689	0.0	1380	2880 min Summer	2.957	0.0	1788	4320 min Summer	2.183	0.0	2592	5760 min Summer	1.776	0.0	3352	7200 min Summer	1.521	0.0	4112	8640 min Summer	1.347	0.0	4848	10080 min Summer	1.223	0.0	5648	15 min Winter	151.536	0.0	19
Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status																																																																																																																																																																																																																		
15 min Summer	0.579	0.579	0.2	10.4	O K																																																																																																																																																																																																																		
30 min Summer	0.771	0.771	0.2	13.9	O K																																																																																																																																																																																																																		
60 min Summer	0.974	0.974	0.3	17.5	O K																																																																																																																																																																																																																		
120 min Summer	1.100	1.100	0.3	19.8	O K																																																																																																																																																																																																																		
180 min Summer	1.166	1.166	0.3	21.0	O K																																																																																																																																																																																																																		
240 min Summer	1.204	1.204	0.3	21.7	Flood Risk																																																																																																																																																																																																																		
360 min Summer	1.237	1.237	0.3	22.3	Flood Risk																																																																																																																																																																																																																		
480 min Summer	1.241	1.241	0.3	22.3	Flood Risk																																																																																																																																																																																																																		
600 min Summer	1.241	1.241	0.3	22.3	Flood Risk																																																																																																																																																																																																																		
720 min Summer	1.240	1.240	0.3	22.3	Flood Risk																																																																																																																																																																																																																		
960 min Summer	1.237	1.237	0.3	22.3	Flood Risk																																																																																																																																																																																																																		
1440 min Summer	1.223	1.223	0.3	22.0	Flood Risk																																																																																																																																																																																																																		
2160 min Summer	1.190	1.190	0.3	21.4	O K																																																																																																																																																																																																																		
2880 min Summer	1.153	1.153	0.3	20.8	O K																																																																																																																																																																																																																		
4320 min Summer	1.081	1.081	0.3	19.5	O K																																																																																																																																																																																																																		
5760 min Summer	1.020	1.020	0.3	18.4	O K																																																																																																																																																																																																																		
7200 min Summer	0.968	0.968	0.3	17.4	O K																																																																																																																																																																																																																		
8640 min Summer	0.926	0.926	0.2	16.7	O K																																																																																																																																																																																																																		
10080 min Summer	0.892	0.892	0.2	16.1	O K																																																																																																																																																																																																																		
15 min Winter	0.649	0.649	0.2	11.7	O K																																																																																																																																																																																																																		
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)																																																																																																																																																																																																																				
15 min Summer	151.536	0.0	19																																																																																																																																																																																																																				
30 min Summer	101.550	0.0	34																																																																																																																																																																																																																				
60 min Summer	64.948	0.0	64																																																																																																																																																																																																																				
120 min Summer	37.629	0.0	122																																																																																																																																																																																																																				
180 min Summer	27.271	0.0	182																																																																																																																																																																																																																				
240 min Summer	21.662	0.0	242																																																																																																																																																																																																																				
360 min Summer	15.601	0.0	360																																																																																																																																																																																																																				
480 min Summer	12.341	0.0	466																																																																																																																																																																																																																				
600 min Summer	10.288	0.0	512																																																																																																																																																																																																																				
720 min Summer	8.869	0.0	570																																																																																																																																																																																																																				
960 min Summer	7.026	0.0	694																																																																																																																																																																																																																				
1440 min Summer	5.075	0.0	966																																																																																																																																																																																																																				
2160 min Summer	3.689	0.0	1380																																																																																																																																																																																																																				
2880 min Summer	2.957	0.0	1788																																																																																																																																																																																																																				
4320 min Summer	2.183	0.0	2592																																																																																																																																																																																																																				
5760 min Summer	1.776	0.0	3352																																																																																																																																																																																																																				
7200 min Summer	1.521	0.0	4112																																																																																																																																																																																																																				
8640 min Summer	1.347	0.0	4848																																																																																																																																																																																																																				
10080 min Summer	1.223	0.0	5648																																																																																																																																																																																																																				
15 min Winter	151.536	0.0	19																																																																																																																																																																																																																				
©1982-2020 Innovyze																																																																																																																																																																																																																							

Odyssey				Page 2	
Tuscany House		Roundstone Lane			
White Hart Lane		Angmering - 20-016			
Basingstoke RG21 4AF		SA2			
Date 11/02/2021 18:30		Designed by AK			
File Soakaway SA2.SRCX		Checked by			
Innovyze		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	0.864	0.864	0.2	15.6	O K
60 min Winter	1.092	1.092	0.3	19.6	O K
120 min Winter	1.234	1.234	0.3	22.2	Flood Risk
180 min Winter	1.309	1.309	0.3	23.6	Flood Risk
240 min Winter	1.353	1.353	0.4	24.3	Flood Risk
360 min Winter	1.393	1.393	0.4	25.1	Flood Risk
480 min Winter	1.402	1.402	0.4	25.2	Flood Risk
600 min Winter	1.398	1.398	0.4	25.2	Flood Risk
720 min Winter	1.391	1.391	0.4	25.0	Flood Risk
960 min Winter	1.382	1.382	0.4	24.9	Flood Risk
1440 min Winter	1.347	1.347	0.3	24.2	Flood Risk
2160 min Winter	1.282	1.282	0.3	23.1	Flood Risk
2880 min Winter	1.218	1.218	0.3	21.9	Flood Risk
4320 min Winter	1.104	1.104	0.3	19.9	O K
5760 min Winter	1.012	1.012	0.3	18.2	O K
7200 min Winter	0.938	0.938	0.2	16.9	O K
8640 min Winter	0.879	0.879	0.2	15.8	O K
10080 min Winter	0.831	0.831	0.2	15.0	O K
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)		
30 min Winter	101.550	0.0	33		
60 min Winter	64.948	0.0	62		
120 min Winter	37.629	0.0	120		
180 min Winter	27.271	0.0	178		
240 min Winter	21.662	0.0	236		
360 min Winter	15.601	0.0	350		
480 min Winter	12.341	0.0	458		
600 min Winter	10.288	0.0	560		
720 min Winter	8.869	0.0	582		
960 min Winter	7.026	0.0	732		
1440 min Winter	5.075	0.0	1038		
2160 min Winter	3.689	0.0	1472		
2880 min Winter	2.957	0.0	1904		
4320 min Winter	2.183	0.0	2724		
5760 min Winter	1.776	0.0	3520		
7200 min Winter	1.521	0.0	4320		
8640 min Winter	1.347	0.0	5096		
10080 min Winter	1.223	0.0	5848		
©1982-2020 Innovyze					

Odyssey		Page 3																														
Tuscany House	Roundstone Lane																															
White Hart Lane	Angmering - 20-016																															
Basingstoke RG21 4AF	SA2																															
Date 11/02/2021 18:30	Designed by AK																															
File Soakaway SA2.SRCX	Checked by																															
Innovyze	Source Control 2020.1																															
<u>Rainfall Details</u> <table> <tr> <td>Rainfall Model</td> <td>FEH</td> </tr> <tr> <td>Return Period (years)</td> <td>100</td> </tr> <tr> <td>FEH Rainfall Version</td> <td>2013</td> </tr> <tr> <td>Site Location</td> <td>GB 507294 103462 TQ 07294 03462</td> </tr> <tr> <td>Data Type</td> <td>Point</td> </tr> <tr> <td>Summer Storms</td> <td>Yes</td> </tr> <tr> <td>Winter Storms</td> <td>Yes</td> </tr> <tr> <td>Cv (Summer)</td> <td>0.750</td> </tr> <tr> <td>Cv (Winter)</td> <td>0.840</td> </tr> <tr> <td>Shortest Storm (mins)</td> <td>15</td> </tr> <tr> <td>Longest Storm (mins)</td> <td>10080</td> </tr> <tr> <td>Climate Change %</td> <td>+40</td> </tr> </table> <u>Time Area Diagram</u> Total Area (ha) 0.037 <table> <thead> <tr> <th>Time (mins)</th> <th>Area</th> </tr> <tr> <th>From:</th> <th>To: (ha)</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>4 0.037</td> </tr> </tbody> </table>			Rainfall Model	FEH	Return Period (years)	100	FEH Rainfall Version	2013	Site Location	GB 507294 103462 TQ 07294 03462	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 (mins)	Area	From:	To: (ha)	0	4 0.037
Rainfall Model	FEH																															
Return Period (years)	100																															
FEH Rainfall Version	2013																															
Site Location	GB 507294 103462 TQ 07294 03462																															
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 (mins)	Area																															
From:	To: (ha)																															
0	4 0.037																															
©1982-2020 Innovyze																																

Odyssey		Page 4
Tuscany House White Hart Lane Basingstoke RG21 4AF	Roundstone Lane Angmering - 20-016 SA2	
Date 11/02/2021 18:30 File Soakaway SA2.SRCX	Designed by AK Checked by	
Innovyze Source Control 2020.1		

Model Details

Storage is Online Cover Level (m) 1.500

Trench Soakaway Structure

Infiltration Coefficient Base (m/hr)	0.00000	Trench Width (m)	2.0
Infiltration Coefficient Side (m/hr)	0.02916	Trench Length (m)	30.0
Safety Factor	2.0	Slope (1:X)	0.0
Porosity	0.30	Cap Volume Depth (m)	0.000
Invert Level (m)	0.000	Cap Infiltration Depth (m)	0.000

©1982-2020 Innovyze

Odyssey				Page 1																																																																																																																																																																																																																			
Tuscany House		Roundstone Lane																																																																																																																																																																																																																					
White Hart Lane		Angmering - 20-016																																																																																																																																																																																																																					
Basingstoke RG21 4AF		SA2																																																																																																																																																																																																																					
Date 12/02/2021 14:52		Designed by AK																																																																																																																																																																																																																					
File Soakaway SA2.SRCX		Checked by																																																																																																																																																																																																																					
Innovyze		Source Control 2020.1																																																																																																																																																																																																																					
<u>Summary of Results for 10 year Return Period (+40%)</u> Half Drain Time : 785 minutes. <table><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><tr><td>15 min Summer</td><td>0.349</td><td>0.349</td><td>0.1</td><td>6.3</td><td>O K</td></tr><tr><td>30 min Summer</td><td>0.455</td><td>0.455</td><td>0.1</td><td>8.2</td><td>O K</td></tr><tr><td>60 min Summer</td><td>0.568</td><td>0.568</td><td>0.1</td><td>10.2</td><td>O K</td></tr><tr><td>120 min Summer</td><td>0.678</td><td>0.678</td><td>0.2</td><td>12.2</td><td>O K</td></tr><tr><td>180 min Summer</td><td>0.735</td><td>0.735</td><td>0.2</td><td>13.2</td><td>O K</td></tr><tr><td>240 min Summer</td><td>0.769</td><td>0.769</td><td>0.2</td><td>13.8</td><td>O K</td></tr><tr><td>360 min Summer</td><td>0.800</td><td>0.800</td><td>0.2</td><td>14.4</td><td>O K</td></tr><tr><td>480 min Summer</td><td>0.809</td><td>0.809</td><td>0.2</td><td>14.6</td><td>O K</td></tr><tr><td>600 min Summer</td><td>0.813</td><td>0.813</td><td>0.2</td><td>14.6</td><td>O K</td></tr><tr><td>720 min Summer</td><td>0.815</td><td>0.815</td><td>0.2</td><td>14.7</td><td>O K</td></tr><tr><td>960 min Summer</td><td>0.816</td><td>0.816</td><td>0.2</td><td>14.7</td><td>O K</td></tr><tr><td>1440 min Summer</td><td>0.811</td><td>0.811</td><td>0.2</td><td>14.6</td><td>O K</td></tr><tr><td>2160 min Summer</td><td>0.793</td><td>0.793</td><td>0.2</td><td>14.3</td><td>O K</td></tr><tr><td>2880 min Summer</td><td>0.773</td><td>0.773</td><td>0.2</td><td>13.9</td><td>O K</td></tr><tr><td>4320 min Summer</td><td>0.737</td><td>0.737</td><td>0.2</td><td>13.3</td><td>O K</td></tr><tr><td>5760 min Summer</td><td>0.707</td><td>0.707</td><td>0.2</td><td>12.7</td><td>O K</td></tr><tr><td>7200 min Summer</td><td>0.682</td><td>0.682</td><td>0.2</td><td>12.3</td><td>O K</td></tr><tr><td>8640 min Summer</td><td>0.663</td><td>0.663</td><td>0.2</td><td>11.9</td><td>O K</td></tr><tr><td>10080 min Summer</td><td>0.648</td><td>0.648</td><td>0.2</td><td>11.7</td><td>O K</td></tr><tr><td>15 min Winter</td><td>0.391</td><td>0.391</td><td>0.1</td><td>7.0</td><td>O K</td></tr></table> <table><tr><th>Storm Event</th><th>Rain (mm/hr)</th><th>Flooded Volume (m³)</th><th>Time-Peak (mins)</th></tr><tr><td>15 min Summer</td><td>91.348</td><td>0.0</td><td>19</td></tr><tr><td>30 min Summer</td><td>59.875</td><td>0.0</td><td>34</td></tr><tr><td>60 min Summer</td><td>37.884</td><td>0.0</td><td>64</td></tr><tr><td>120 min Summer</td><td>23.172</td><td>0.0</td><td>122</td></tr><tr><td>180 min Summer</td><td>17.181</td><td>0.0</td><td>182</td></tr><tr><td>240 min Summer</td><td>13.823</td><td>0.0</td><td>242</td></tr><tr><td>360 min Summer</td><td>10.096</td><td>0.0</td><td>360</td></tr><tr><td>480 min Summer</td><td>8.045</td><td>0.0</td><td>466</td></tr><tr><td>600 min Summer</td><td>6.737</td><td>0.0</td><td>512</td></tr><tr><td>720 min Summer</td><td>5.826</td><td>0.0</td><td>570</td></tr><tr><td>960 min Summer</td><td>4.633</td><td>0.0</td><td>694</td></tr><tr><td>1440 min Summer</td><td>3.366</td><td>0.0</td><td>966</td></tr><tr><td>2160 min Summer</td><td>2.460</td><td>0.0</td><td>1380</td></tr><tr><td>2880 min Summer</td><td>1.983</td><td>0.0</td><td>1788</td></tr><tr><td>4320 min Summer</td><td>1.488</td><td>0.0</td><td>2592</td></tr><tr><td>5760 min Summer</td><td>1.230</td><td>0.0</td><td>3352</td></tr><tr><td>7200 min Summer</td><td>1.072</td><td>0.0</td><td>4112</td></tr><tr><td>8640 min Summer</td><td>0.964</td><td>0.0</td><td>4848</td></tr><tr><td>10080 min Summer</td><td>0.887</td><td>0.0</td><td>5648</td></tr><tr><td>15 min Winter</td><td>91.348</td><td>0.0</td><td>19</td></tr></table>						Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status	15 min Summer	0.349	0.349	0.1	6.3	O K	30 min Summer	0.455	0.455	0.1	8.2	O K	60 min Summer	0.568	0.568	0.1	10.2	O K	120 min Summer	0.678	0.678	0.2	12.2	O K	180 min Summer	0.735	0.735	0.2	13.2	O K	240 min Summer	0.769	0.769	0.2	13.8	O K	360 min Summer	0.800	0.800	0.2	14.4	O K	480 min Summer	0.809	0.809	0.2	14.6	O K	600 min Summer	0.813	0.813	0.2	14.6	O K	720 min Summer	0.815	0.815	0.2	14.7	O K	960 min Summer	0.816	0.816	0.2	14.7	O K	1440 min Summer	0.811	0.811	0.2	14.6	O K	2160 min Summer	0.793	0.793	0.2	14.3	O K	2880 min Summer	0.773	0.773	0.2	13.9	O K	4320 min Summer	0.737	0.737	0.2	13.3	O K	5760 min Summer	0.707	0.707	0.2	12.7	O K	7200 min Summer	0.682	0.682	0.2	12.3	O K	8640 min Summer	0.663	0.663	0.2	11.9	O K	10080 min Summer	0.648	0.648	0.2	11.7	O K	15 min Winter	0.391	0.391	0.1	7.0	O K	Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)	15 min Summer	91.348	0.0	19	30 min Summer	59.875	0.0	34	60 min Summer	37.884	0.0	64	120 min Summer	23.172	0.0	122	180 min Summer	17.181	0.0	182	240 min Summer	13.823	0.0	242	360 min Summer	10.096	0.0	360	480 min Summer	8.045	0.0	466	600 min Summer	6.737	0.0	512	720 min Summer	5.826	0.0	570	960 min Summer	4.633	0.0	694	1440 min Summer	3.366	0.0	966	2160 min Summer	2.460	0.0	1380	2880 min Summer	1.983	0.0	1788	4320 min Summer	1.488	0.0	2592	5760 min Summer	1.230	0.0	3352	7200 min Summer	1.072	0.0	4112	8640 min Summer	0.964	0.0	4848	10080 min Summer	0.887	0.0	5648	15 min Winter	91.348	0.0	19
Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status																																																																																																																																																																																																																		
15 min Summer	0.349	0.349	0.1	6.3	O K																																																																																																																																																																																																																		
30 min Summer	0.455	0.455	0.1	8.2	O K																																																																																																																																																																																																																		
60 min Summer	0.568	0.568	0.1	10.2	O K																																																																																																																																																																																																																		
120 min Summer	0.678	0.678	0.2	12.2	O K																																																																																																																																																																																																																		
180 min Summer	0.735	0.735	0.2	13.2	O K																																																																																																																																																																																																																		
240 min Summer	0.769	0.769	0.2	13.8	O K																																																																																																																																																																																																																		
360 min Summer	0.800	0.800	0.2	14.4	O K																																																																																																																																																																																																																		
480 min Summer	0.809	0.809	0.2	14.6	O K																																																																																																																																																																																																																		
600 min Summer	0.813	0.813	0.2	14.6	O K																																																																																																																																																																																																																		
720 min Summer	0.815	0.815	0.2	14.7	O K																																																																																																																																																																																																																		
960 min Summer	0.816	0.816	0.2	14.7	O K																																																																																																																																																																																																																		
1440 min Summer	0.811	0.811	0.2	14.6	O K																																																																																																																																																																																																																		
2160 min Summer	0.793	0.793	0.2	14.3	O K																																																																																																																																																																																																																		
2880 min Summer	0.773	0.773	0.2	13.9	O K																																																																																																																																																																																																																		
4320 min Summer	0.737	0.737	0.2	13.3	O K																																																																																																																																																																																																																		
5760 min Summer	0.707	0.707	0.2	12.7	O K																																																																																																																																																																																																																		
7200 min Summer	0.682	0.682	0.2	12.3	O K																																																																																																																																																																																																																		
8640 min Summer	0.663	0.663	0.2	11.9	O K																																																																																																																																																																																																																		
10080 min Summer	0.648	0.648	0.2	11.7	O K																																																																																																																																																																																																																		
15 min Winter	0.391	0.391	0.1	7.0	O K																																																																																																																																																																																																																		
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)																																																																																																																																																																																																																				
15 min Summer	91.348	0.0	19																																																																																																																																																																																																																				
30 min Summer	59.875	0.0	34																																																																																																																																																																																																																				
60 min Summer	37.884	0.0	64																																																																																																																																																																																																																				
120 min Summer	23.172	0.0	122																																																																																																																																																																																																																				
180 min Summer	17.181	0.0	182																																																																																																																																																																																																																				
240 min Summer	13.823	0.0	242																																																																																																																																																																																																																				
360 min Summer	10.096	0.0	360																																																																																																																																																																																																																				
480 min Summer	8.045	0.0	466																																																																																																																																																																																																																				
600 min Summer	6.737	0.0	512																																																																																																																																																																																																																				
720 min Summer	5.826	0.0	570																																																																																																																																																																																																																				
960 min Summer	4.633	0.0	694																																																																																																																																																																																																																				
1440 min Summer	3.366	0.0	966																																																																																																																																																																																																																				
2160 min Summer	2.460	0.0	1380																																																																																																																																																																																																																				
2880 min Summer	1.983	0.0	1788																																																																																																																																																																																																																				
4320 min Summer	1.488	0.0	2592																																																																																																																																																																																																																				
5760 min Summer	1.230	0.0	3352																																																																																																																																																																																																																				
7200 min Summer	1.072	0.0	4112																																																																																																																																																																																																																				
8640 min Summer	0.964	0.0	4848																																																																																																																																																																																																																				
10080 min Summer	0.887	0.0	5648																																																																																																																																																																																																																				
15 min Winter	91.348	0.0	19																																																																																																																																																																																																																				
©1982-2020 Innovyze																																																																																																																																																																																																																							

Odyssey				Page 2	
Tuscany House		Roundstone Lane			
White Hart Lane		Angmering - 20-016			
Basingstoke RG21 4AF		SA2			
Date 12/02/2021 14:52		Designed by AK			
File Soakaway SA2.SRCX		Checked by			
Innovyze		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	0.510	0.510	0.1	9.2	O K
60 min Winter	0.637	0.637	0.2	11.5	O K
120 min Winter	0.760	0.760	0.2	13.7	O K
180 min Winter	0.825	0.825	0.2	14.8	O K
240 min Winter	0.863	0.863	0.2	15.5	O K
360 min Winter	0.901	0.901	0.2	16.2	O K
480 min Winter	0.914	0.914	0.2	16.5	O K
600 min Winter	0.915	0.915	0.2	16.5	O K
720 min Winter	0.913	0.913	0.2	16.4	O K
960 min Winter	0.911	0.911	0.2	16.4	O K
1440 min Winter	0.893	0.893	0.2	16.1	O K
2160 min Winter	0.855	0.855	0.2	15.4	O K
2880 min Winter	0.817	0.817	0.2	14.7	O K
4320 min Winter	0.752	0.752	0.2	13.5	O K
5760 min Winter	0.701	0.701	0.2	12.6	O K
7200 min Winter	0.661	0.661	0.2	11.9	O K
8640 min Winter	0.629	0.629	0.2	11.3	O K
10080 min Winter	0.603	0.603	0.2	10.9	O K
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)		
30 min Winter	59.875	0.0	33		
60 min Winter	37.884	0.0	62		
120 min Winter	23.172	0.0	120		
180 min Winter	17.181	0.0	178		
240 min Winter	13.823	0.0	236		
360 min Winter	10.096	0.0	350		
480 min Winter	8.045	0.0	458		
600 min Winter	6.737	0.0	560		
720 min Winter	5.826	0.0	582		
960 min Winter	4.633	0.0	732		
1440 min Winter	3.366	0.0	1038		
2160 min Winter	2.460	0.0	1472		
2880 min Winter	1.983	0.0	1904		
4320 min Winter	1.488	0.0	2724		
5760 min Winter	1.230	0.0	3520		
7200 min Winter	1.072	0.0	4320		
8640 min Winter	0.964	0.0	5096		
10080 min Winter	0.887	0.0	5848		
©1982-2020 Innovyze					

Odyssey		Page 3
Tuscany House White Hart Lane Basingstoke RG21 4AF	Roundstone Lane Angmering - 20-016 SA2	
Date 12/02/2021 14:52 File Soakaway SA2.SRCX	Designed by AK Checked by	
Innovyze Source Control 2020.1		

Rainfall Details

Rainfall Model	FEH
Return Period (years)	10
FEH Rainfall Version	2013
Site Location	GB 507294 103462 TQ 07294 03462
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) 0.037

	Time (mins)	Area
From:	To:	(ha)
	0	4 0.037

©1982-2020 Innovyze

Odyssey		Page 4
Tuscany House White Hart Lane Basingstoke RG21 4AF	Roundstone Lane Angmering - 20-016 SA2	
Date 12/02/2021 14:52 File Soakaway SA2.SRCX	Designed by AK Checked by	
Innovyze Source Control 2020.1		

Model Details

Storage is Online Cover Level (m) 1.500

Trench Soakaway Structure

Infiltration Coefficient Base (m/hr)	0.00000	Trench Width (m)	2.0
Infiltration Coefficient Side (m/hr)	0.02916	Trench Length (m)	30.0
Safety Factor	2.0	Slope (1:X)	0.0
Porosity	0.30	Cap Volume Depth (m)	0.000
Invert Level (m)	0.000	Cap Infiltration Depth (m)	0.000

©1982-2020 Innovyze

Odyssey				Page 1																																																																																																																																																																																																																			
Tuscany House		Roundstone Lane																																																																																																																																																																																																																					
White Hart Lane		Angmering - 20-016																																																																																																																																																																																																																					
Basingstoke RG21 4AF		SA3																																																																																																																																																																																																																					
Date 11/02/2021 18:31		Designed by AK																																																																																																																																																																																																																					
File Soakaway SA3.SRCX		Checked by																																																																																																																																																																																																																					
Innovyze		Source Control 2020.1																																																																																																																																																																																																																					
<u>Summary of Results for 100 year Return Period (+40%)</u> Half Drain Time : 126 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>0.809</td><td>0.809</td><td>0.7</td><td>7.3</td><td>O K</td></tr><tr><td>30 min Summer</td><td>1.042</td><td>1.042</td><td>0.9</td><td>9.4</td><td>O K</td></tr><tr><td>60 min Summer</td><td>1.229</td><td>1.229</td><td>1.1</td><td>11.1</td><td>Flood Risk</td></tr><tr><td>120 min Summer</td><td>1.253</td><td>1.253</td><td>1.1</td><td>11.3</td><td>Flood Risk</td></tr><tr><td>180 min Summer</td><td>1.251</td><td>1.251</td><td>1.1</td><td>11.3</td><td>Flood Risk</td></tr><tr><td>240 min Summer</td><td>1.234</td><td>1.234</td><td>1.1</td><td>11.1</td><td>Flood Risk</td></tr><tr><td>360 min Summer</td><td>1.181</td><td>1.181</td><td>1.0</td><td>10.6</td><td>O K</td></tr><tr><td>480 min Summer</td><td>1.123</td><td>1.123</td><td>1.0</td><td>10.1</td><td>O K</td></tr><tr><td>600 min Summer</td><td>1.067</td><td>1.067</td><td>0.9</td><td>9.6</td><td>O K</td></tr><tr><td>720 min Summer</td><td>1.016</td><td>1.016</td><td>0.9</td><td>9.1</td><td>O K</td></tr><tr><td>960 min Summer</td><td>0.927</td><td>0.927</td><td>0.8</td><td>8.3</td><td>O K</td></tr><tr><td>1440 min Summer</td><td>0.794</td><td>0.794</td><td>0.7</td><td>7.2</td><td>O K</td></tr><tr><td>2160 min Summer</td><td>0.663</td><td>0.663</td><td>0.6</td><td>6.0</td><td>O K</td></tr><tr><td>2880 min Summer</td><td>0.576</td><td>0.576</td><td>0.5</td><td>5.2</td><td>O K</td></tr><tr><td>4320 min Summer</td><td>0.466</td><td>0.466</td><td>0.4</td><td>4.2</td><td>O K</td></tr><tr><td>5760 min Summer</td><td>0.398</td><td>0.398</td><td>0.3</td><td>3.6</td><td>O K</td></tr><tr><td>7200 min Summer</td><td>0.351</td><td>0.351</td><td>0.3</td><td>3.2</td><td>O K</td></tr><tr><td>8640 min Summer</td><td>0.318</td><td>0.318</td><td>0.3</td><td>2.9</td><td>O K</td></tr><tr><td>10080 min Summer</td><td>0.294</td><td>0.294</td><td>0.3</td><td>2.6</td><td>O K</td></tr><tr><td>15 min Winter</td><td>0.907</td><td>0.907</td><td>0.8</td><td>8.2</td><td>O K</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>151.536</td><td>0.0</td><td>18</td></tr><tr><td>30 min Summer</td><td>101.550</td><td>0.0</td><td>32</td></tr><tr><td>60 min Summer</td><td>64.948</td><td>0.0</td><td>60</td></tr><tr><td>120 min Summer</td><td>37.629</td><td>0.0</td><td>94</td></tr><tr><td>180 min Summer</td><td>27.271</td><td>0.0</td><td>126</td></tr><tr><td>240 min Summer</td><td>21.662</td><td>0.0</td><td>160</td></tr><tr><td>360 min Summer</td><td>15.601</td><td>0.0</td><td>228</td></tr><tr><td>480 min Summer</td><td>12.341</td><td>0.0</td><td>296</td></tr><tr><td>600 min Summer</td><td>10.288</td><td>0.0</td><td>362</td></tr><tr><td>720 min Summer</td><td>8.869</td><td>0.0</td><td>428</td></tr><tr><td>960 min Summer</td><td>7.026</td><td>0.0</td><td>558</td></tr><tr><td>1440 min Summer</td><td>5.075</td><td>0.0</td><td>808</td></tr><tr><td>2160 min Summer</td><td>3.689</td><td>0.0</td><td>1172</td></tr><tr><td>2880 min Summer</td><td>2.957</td><td>0.0</td><td>1532</td></tr><tr><td>4320 min Summer</td><td>2.183</td><td>0.0</td><td>2252</td></tr><tr><td>5760 min Summer</td><td>1.776</td><td>0.0</td><td>3000</td></tr><tr><td>7200 min Summer</td><td>1.521</td><td>0.0</td><td>3744</td></tr><tr><td>8640 min Summer</td><td>1.347</td><td>0.0</td><td>4416</td></tr><tr><td>10080 min Summer</td><td>1.223</td><td>0.0</td><td>5144</td></tr><tr><td>15 min Winter</td><td>151.536</td><td>0.0</td><td>18</td></tr></tbody></table>						Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status	15 min Summer	0.809	0.809	0.7	7.3	O K	30 min Summer	1.042	1.042	0.9	9.4	O K	60 min Summer	1.229	1.229	1.1	11.1	Flood Risk	120 min Summer	1.253	1.253	1.1	11.3	Flood Risk	180 min Summer	1.251	1.251	1.1	11.3	Flood Risk	240 min Summer	1.234	1.234	1.1	11.1	Flood Risk	360 min Summer	1.181	1.181	1.0	10.6	O K	480 min Summer	1.123	1.123	1.0	10.1	O K	600 min Summer	1.067	1.067	0.9	9.6	O K	720 min Summer	1.016	1.016	0.9	9.1	O K	960 min Summer	0.927	0.927	0.8	8.3	O K	1440 min Summer	0.794	0.794	0.7	7.2	O K	2160 min Summer	0.663	0.663	0.6	6.0	O K	2880 min Summer	0.576	0.576	0.5	5.2	O K	4320 min Summer	0.466	0.466	0.4	4.2	O K	5760 min Summer	0.398	0.398	0.3	3.6	O K	7200 min Summer	0.351	0.351	0.3	3.2	O K	8640 min Summer	0.318	0.318	0.3	2.9	O K	10080 min Summer	0.294	0.294	0.3	2.6	O K	15 min Winter	0.907	0.907	0.8	8.2	O K	Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)	15 min Summer	151.536	0.0	18	30 min Summer	101.550	0.0	32	60 min Summer	64.948	0.0	60	120 min Summer	37.629	0.0	94	180 min Summer	27.271	0.0	126	240 min Summer	21.662	0.0	160	360 min Summer	15.601	0.0	228	480 min Summer	12.341	0.0	296	600 min Summer	10.288	0.0	362	720 min Summer	8.869	0.0	428	960 min Summer	7.026	0.0	558	1440 min Summer	5.075	0.0	808	2160 min Summer	3.689	0.0	1172	2880 min Summer	2.957	0.0	1532	4320 min Summer	2.183	0.0	2252	5760 min Summer	1.776	0.0	3000	7200 min Summer	1.521	0.0	3744	8640 min Summer	1.347	0.0	4416	10080 min Summer	1.223	0.0	5144	15 min Winter	151.536	0.0	18
Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status																																																																																																																																																																																																																		
15 min Summer	0.809	0.809	0.7	7.3	O K																																																																																																																																																																																																																		
30 min Summer	1.042	1.042	0.9	9.4	O K																																																																																																																																																																																																																		
60 min Summer	1.229	1.229	1.1	11.1	Flood Risk																																																																																																																																																																																																																		
120 min Summer	1.253	1.253	1.1	11.3	Flood Risk																																																																																																																																																																																																																		
180 min Summer	1.251	1.251	1.1	11.3	Flood Risk																																																																																																																																																																																																																		
240 min Summer	1.234	1.234	1.1	11.1	Flood Risk																																																																																																																																																																																																																		
360 min Summer	1.181	1.181	1.0	10.6	O K																																																																																																																																																																																																																		
480 min Summer	1.123	1.123	1.0	10.1	O K																																																																																																																																																																																																																		
600 min Summer	1.067	1.067	0.9	9.6	O K																																																																																																																																																																																																																		
720 min Summer	1.016	1.016	0.9	9.1	O K																																																																																																																																																																																																																		
960 min Summer	0.927	0.927	0.8	8.3	O K																																																																																																																																																																																																																		
1440 min Summer	0.794	0.794	0.7	7.2	O K																																																																																																																																																																																																																		
2160 min Summer	0.663	0.663	0.6	6.0	O K																																																																																																																																																																																																																		
2880 min Summer	0.576	0.576	0.5	5.2	O K																																																																																																																																																																																																																		
4320 min Summer	0.466	0.466	0.4	4.2	O K																																																																																																																																																																																																																		
5760 min Summer	0.398	0.398	0.3	3.6	O K																																																																																																																																																																																																																		
7200 min Summer	0.351	0.351	0.3	3.2	O K																																																																																																																																																																																																																		
8640 min Summer	0.318	0.318	0.3	2.9	O K																																																																																																																																																																																																																		
10080 min Summer	0.294	0.294	0.3	2.6	O K																																																																																																																																																																																																																		
15 min Winter	0.907	0.907	0.8	8.2	O K																																																																																																																																																																																																																		
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)																																																																																																																																																																																																																				
15 min Summer	151.536	0.0	18																																																																																																																																																																																																																				
30 min Summer	101.550	0.0	32																																																																																																																																																																																																																				
60 min Summer	64.948	0.0	60																																																																																																																																																																																																																				
120 min Summer	37.629	0.0	94																																																																																																																																																																																																																				
180 min Summer	27.271	0.0	126																																																																																																																																																																																																																				
240 min Summer	21.662	0.0	160																																																																																																																																																																																																																				
360 min Summer	15.601	0.0	228																																																																																																																																																																																																																				
480 min Summer	12.341	0.0	296																																																																																																																																																																																																																				
600 min Summer	10.288	0.0	362																																																																																																																																																																																																																				
720 min Summer	8.869	0.0	428																																																																																																																																																																																																																				
960 min Summer	7.026	0.0	558																																																																																																																																																																																																																				
1440 min Summer	5.075	0.0	808																																																																																																																																																																																																																				
2160 min Summer	3.689	0.0	1172																																																																																																																																																																																																																				
2880 min Summer	2.957	0.0	1532																																																																																																																																																																																																																				
4320 min Summer	2.183	0.0	2252																																																																																																																																																																																																																				
5760 min Summer	1.776	0.0	3000																																																																																																																																																																																																																				
7200 min Summer	1.521	0.0	3744																																																																																																																																																																																																																				
8640 min Summer	1.347	0.0	4416																																																																																																																																																																																																																				
10080 min Summer	1.223	0.0	5144																																																																																																																																																																																																																				
15 min Winter	151.536	0.0	18																																																																																																																																																																																																																				
©1982-2020 Innovyze																																																																																																																																																																																																																							

Odyssey				Page 2	
Tuscany House		Roundstone Lane			
White Hart Lane		Angmering - 20-016			
Basingstoke RG21 4AF		SA3			
Date 11/02/2021 18:31		Designed by AK			
File Soakaway SA3.SRCX		Checked by			
Innovyze		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	1.170	1.170	1.0	10.5	O K
60 min Winter	1.385	1.385	1.2	12.5	Flood Risk
120 min Winter	1.404	1.404	1.2	12.6	Flood Risk
180 min Winter	1.388	1.388	1.2	12.5	Flood Risk
240 min Winter	1.353	1.353	1.2	12.2	Flood Risk
360 min Winter	1.264	1.264	1.1	11.4	Flood Risk
480 min Winter	1.176	1.176	1.0	10.6	O K
600 min Winter	1.096	1.096	1.0	9.9	O K
720 min Winter	1.026	1.026	0.9	9.2	O K
960 min Winter	0.909	0.909	0.8	8.2	O K
1440 min Winter	0.744	0.744	0.6	6.7	O K
2160 min Winter	0.590	0.590	0.5	5.3	O K
2880 min Winter	0.494	0.494	0.4	4.4	O K
4320 min Winter	0.381	0.381	0.3	3.4	O K
5760 min Winter	0.315	0.315	0.3	2.8	O K
7200 min Winter	0.273	0.273	0.2	2.5	O K
8640 min Winter	0.243	0.243	0.2	2.2	O K
10080 min Winter	0.222	0.222	0.2	2.0	O K
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)		
30 min Winter	101.550	0.0	32		
60 min Winter	64.948	0.0	60		
120 min Winter	37.629	0.0	96		
180 min Winter	27.271	0.0	134		
240 min Winter	21.662	0.0	172		
360 min Winter	15.601	0.0	244		
480 min Winter	12.341	0.0	316		
600 min Winter	10.288	0.0	384		
720 min Winter	8.869	0.0	450		
960 min Winter	7.026	0.0	580		
1440 min Winter	5.075	0.0	838		
2160 min Winter	3.689	0.0	1212		
2880 min Winter	2.957	0.0	1584		
4320 min Winter	2.183	0.0	2292		
5760 min Winter	1.776	0.0	3048		
7200 min Winter	1.521	0.0	3744		
8640 min Winter	1.347	0.0	4496		
10080 min Winter	1.223	0.0	5152		
©1982-2020 Innovyze					

Odyssey		Page 3
Tuscany House White Hart Lane Basingstoke RG21 4AF	Roundstone Lane Angmering - 20-016 SA3	
Date 11/02/2021 18:31 File Soakaway SA3.SRCX	Designed by AK Checked by	
Innovyze Source Control 2020.1		

Rainfall Details

Rainfall Model	FEH
Return Period (years)	100
FEH Rainfall Version	2013
Site Location	GB 507294 103462 TQ 07294 03462
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) 0.027

	Time (mins)	Area
From:	To:	(ha)
	0	4 0.027

©1982-2020 Innovyze

Odyssey		Page 4
Tuscany House White Hart Lane Basingstoke RG21 4AF	Roundstone Lane Angmering - 20-016 SA3	
Date 11/02/2021 18:31 File Soakaway SA3.SRCX	Designed by AK Checked by	
Innovyze Source Control 2020.1		

Model Details

Storage is Online Cover Level (m) 1.500

Trench Soakaway Structure

Infiltration Coefficient Base (m/hr)	0.00000	Trench Width (m)	2.0
Infiltration Coefficient Side (m/hr)	0.18360	Trench Length (m)	15.0
Safety Factor	2.0	Slope (1:X)	0.0
Porosity	0.30	Cap Volume Depth (m)	0.000
Invert Level (m)	0.000	Cap Infiltration Depth (m)	0.000

©1982-2020 Innovyze

Odyssey				Page 1																																																																																																																																																																																																																			
Tuscany House		Roundstone Lane																																																																																																																																																																																																																					
White Hart Lane		Angmering - 20-016																																																																																																																																																																																																																					
Basingstoke RG21 4AF		SA3																																																																																																																																																																																																																					
Date 12/02/2021 14:53		Designed by AK																																																																																																																																																																																																																					
File Soakaway SA3.SRCX		Checked by																																																																																																																																																																																																																					
Innovyze		Source Control 2020.1																																																																																																																																																																																																																					
<u>Summary of Results for 10 year Return Period (+40%)</u> Half Drain Time : 124 minutes. <table><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><tr><td>15 min Summer</td><td>0.488</td><td>0.488</td><td>0.4</td><td>4.4</td><td>O K</td></tr><tr><td>30 min Summer</td><td>0.614</td><td>0.614</td><td>0.5</td><td>5.5</td><td>O K</td></tr><tr><td>60 min Summer</td><td>0.717</td><td>0.717</td><td>0.6</td><td>6.5</td><td>O K</td></tr><tr><td>120 min Summer</td><td>0.772</td><td>0.772</td><td>0.7</td><td>6.9</td><td>O K</td></tr><tr><td>180 min Summer</td><td>0.788</td><td>0.788</td><td>0.7</td><td>7.1</td><td>O K</td></tr><tr><td>240 min Summer</td><td>0.788</td><td>0.788</td><td>0.7</td><td>7.1</td><td>O K</td></tr><tr><td>360 min Summer</td><td>0.764</td><td>0.764</td><td>0.7</td><td>6.9</td><td>O K</td></tr><tr><td>480 min Summer</td><td>0.732</td><td>0.732</td><td>0.6</td><td>6.6</td><td>O K</td></tr><tr><td>600 min Summer</td><td>0.699</td><td>0.699</td><td>0.6</td><td>6.3</td><td>O K</td></tr><tr><td>720 min Summer</td><td>0.667</td><td>0.667</td><td>0.6</td><td>6.0</td><td>O K</td></tr><tr><td>960 min Summer</td><td>0.611</td><td>0.611</td><td>0.5</td><td>5.5</td><td>O K</td></tr><tr><td>1440 min Summer</td><td>0.527</td><td>0.527</td><td>0.5</td><td>4.7</td><td>O K</td></tr><tr><td>2160 min Summer</td><td>0.442</td><td>0.442</td><td>0.4</td><td>4.0</td><td>O K</td></tr><tr><td>2880 min Summer</td><td>0.386</td><td>0.386</td><td>0.3</td><td>3.5</td><td>O K</td></tr><tr><td>4320 min Summer</td><td>0.317</td><td>0.317</td><td>0.3</td><td>2.9</td><td>O K</td></tr><tr><td>5760 min Summer</td><td>0.276</td><td>0.276</td><td>0.2</td><td>2.5</td><td>O K</td></tr><tr><td>7200 min Summer</td><td>0.247</td><td>0.247</td><td>0.2</td><td>2.2</td><td>O K</td></tr><tr><td>8640 min Summer</td><td>0.228</td><td>0.228</td><td>0.2</td><td>2.0</td><td>O K</td></tr><tr><td>10080 min Summer</td><td>0.213</td><td>0.213</td><td>0.2</td><td>1.9</td><td>O K</td></tr><tr><td>15 min Winter</td><td>0.547</td><td>0.547</td><td>0.5</td><td>4.9</td><td>O K</td></tr></table> <table><tr><th>Storm Event</th><th>Rain (mm/hr)</th><th>Flooded Volume (m³)</th><th>Time-Peak (mins)</th></tr><tr><td>15 min Summer</td><td>91.348</td><td>0.0</td><td>18</td></tr><tr><td>30 min Summer</td><td>59.875</td><td>0.0</td><td>32</td></tr><tr><td>60 min Summer</td><td>37.884</td><td>0.0</td><td>60</td></tr><tr><td>120 min Summer</td><td>23.172</td><td>0.0</td><td>94</td></tr><tr><td>180 min Summer</td><td>17.181</td><td>0.0</td><td>126</td></tr><tr><td>240 min Summer</td><td>13.823</td><td>0.0</td><td>160</td></tr><tr><td>360 min Summer</td><td>10.096</td><td>0.0</td><td>228</td></tr><tr><td>480 min Summer</td><td>8.045</td><td>0.0</td><td>296</td></tr><tr><td>600 min Summer</td><td>6.737</td><td>0.0</td><td>362</td></tr><tr><td>720 min Summer</td><td>5.826</td><td>0.0</td><td>428</td></tr><tr><td>960 min Summer</td><td>4.633</td><td>0.0</td><td>558</td></tr><tr><td>1440 min Summer</td><td>3.366</td><td>0.0</td><td>808</td></tr><tr><td>2160 min Summer</td><td>2.460</td><td>0.0</td><td>1172</td></tr><tr><td>2880 min Summer</td><td>1.983</td><td>0.0</td><td>1532</td></tr><tr><td>4320 min Summer</td><td>1.488</td><td>0.0</td><td>2252</td></tr><tr><td>5760 min Summer</td><td>1.230</td><td>0.0</td><td>3000</td></tr><tr><td>7200 min Summer</td><td>1.072</td><td>0.0</td><td>3744</td></tr><tr><td>8640 min Summer</td><td>0.964</td><td>0.0</td><td>4416</td></tr><tr><td>10080 min Summer</td><td>0.887</td><td>0.0</td><td>5144</td></tr><tr><td>15 min Winter</td><td>91.348</td><td>0.0</td><td>18</td></tr></table>						Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status	15 min Summer	0.488	0.488	0.4	4.4	O K	30 min Summer	0.614	0.614	0.5	5.5	O K	60 min Summer	0.717	0.717	0.6	6.5	O K	120 min Summer	0.772	0.772	0.7	6.9	O K	180 min Summer	0.788	0.788	0.7	7.1	O K	240 min Summer	0.788	0.788	0.7	7.1	O K	360 min Summer	0.764	0.764	0.7	6.9	O K	480 min Summer	0.732	0.732	0.6	6.6	O K	600 min Summer	0.699	0.699	0.6	6.3	O K	720 min Summer	0.667	0.667	0.6	6.0	O K	960 min Summer	0.611	0.611	0.5	5.5	O K	1440 min Summer	0.527	0.527	0.5	4.7	O K	2160 min Summer	0.442	0.442	0.4	4.0	O K	2880 min Summer	0.386	0.386	0.3	3.5	O K	4320 min Summer	0.317	0.317	0.3	2.9	O K	5760 min Summer	0.276	0.276	0.2	2.5	O K	7200 min Summer	0.247	0.247	0.2	2.2	O K	8640 min Summer	0.228	0.228	0.2	2.0	O K	10080 min Summer	0.213	0.213	0.2	1.9	O K	15 min Winter	0.547	0.547	0.5	4.9	O K	Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)	15 min Summer	91.348	0.0	18	30 min Summer	59.875	0.0	32	60 min Summer	37.884	0.0	60	120 min Summer	23.172	0.0	94	180 min Summer	17.181	0.0	126	240 min Summer	13.823	0.0	160	360 min Summer	10.096	0.0	228	480 min Summer	8.045	0.0	296	600 min Summer	6.737	0.0	362	720 min Summer	5.826	0.0	428	960 min Summer	4.633	0.0	558	1440 min Summer	3.366	0.0	808	2160 min Summer	2.460	0.0	1172	2880 min Summer	1.983	0.0	1532	4320 min Summer	1.488	0.0	2252	5760 min Summer	1.230	0.0	3000	7200 min Summer	1.072	0.0	3744	8640 min Summer	0.964	0.0	4416	10080 min Summer	0.887	0.0	5144	15 min Winter	91.348	0.0	18
Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status																																																																																																																																																																																																																		
15 min Summer	0.488	0.488	0.4	4.4	O K																																																																																																																																																																																																																		
30 min Summer	0.614	0.614	0.5	5.5	O K																																																																																																																																																																																																																		
60 min Summer	0.717	0.717	0.6	6.5	O K																																																																																																																																																																																																																		
120 min Summer	0.772	0.772	0.7	6.9	O K																																																																																																																																																																																																																		
180 min Summer	0.788	0.788	0.7	7.1	O K																																																																																																																																																																																																																		
240 min Summer	0.788	0.788	0.7	7.1	O K																																																																																																																																																																																																																		
360 min Summer	0.764	0.764	0.7	6.9	O K																																																																																																																																																																																																																		
480 min Summer	0.732	0.732	0.6	6.6	O K																																																																																																																																																																																																																		
600 min Summer	0.699	0.699	0.6	6.3	O K																																																																																																																																																																																																																		
720 min Summer	0.667	0.667	0.6	6.0	O K																																																																																																																																																																																																																		
960 min Summer	0.611	0.611	0.5	5.5	O K																																																																																																																																																																																																																		
1440 min Summer	0.527	0.527	0.5	4.7	O K																																																																																																																																																																																																																		
2160 min Summer	0.442	0.442	0.4	4.0	O K																																																																																																																																																																																																																		
2880 min Summer	0.386	0.386	0.3	3.5	O K																																																																																																																																																																																																																		
4320 min Summer	0.317	0.317	0.3	2.9	O K																																																																																																																																																																																																																		
5760 min Summer	0.276	0.276	0.2	2.5	O K																																																																																																																																																																																																																		
7200 min Summer	0.247	0.247	0.2	2.2	O K																																																																																																																																																																																																																		
8640 min Summer	0.228	0.228	0.2	2.0	O K																																																																																																																																																																																																																		
10080 min Summer	0.213	0.213	0.2	1.9	O K																																																																																																																																																																																																																		
15 min Winter	0.547	0.547	0.5	4.9	O K																																																																																																																																																																																																																		
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)																																																																																																																																																																																																																				
15 min Summer	91.348	0.0	18																																																																																																																																																																																																																				
30 min Summer	59.875	0.0	32																																																																																																																																																																																																																				
60 min Summer	37.884	0.0	60																																																																																																																																																																																																																				
120 min Summer	23.172	0.0	94																																																																																																																																																																																																																				
180 min Summer	17.181	0.0	126																																																																																																																																																																																																																				
240 min Summer	13.823	0.0	160																																																																																																																																																																																																																				
360 min Summer	10.096	0.0	228																																																																																																																																																																																																																				
480 min Summer	8.045	0.0	296																																																																																																																																																																																																																				
600 min Summer	6.737	0.0	362																																																																																																																																																																																																																				
720 min Summer	5.826	0.0	428																																																																																																																																																																																																																				
960 min Summer	4.633	0.0	558																																																																																																																																																																																																																				
1440 min Summer	3.366	0.0	808																																																																																																																																																																																																																				
2160 min Summer	2.460	0.0	1172																																																																																																																																																																																																																				
2880 min Summer	1.983	0.0	1532																																																																																																																																																																																																																				
4320 min Summer	1.488	0.0	2252																																																																																																																																																																																																																				
5760 min Summer	1.230	0.0	3000																																																																																																																																																																																																																				
7200 min Summer	1.072	0.0	3744																																																																																																																																																																																																																				
8640 min Summer	0.964	0.0	4416																																																																																																																																																																																																																				
10080 min Summer	0.887	0.0	5144																																																																																																																																																																																																																				
15 min Winter	91.348	0.0	18																																																																																																																																																																																																																				
©1982-2020 Innovyze																																																																																																																																																																																																																							

Odyssey				Page 2	
Tuscany House		Roundstone Lane			
White Hart Lane		Angmering - 20-016			
Basingstoke RG21 4AF		SA3			
Date 12/02/2021 14:53		Designed by AK			
File Soakaway SA3.SRCX		Checked by			
Innovyze		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	0.690	0.690	0.6	6.2	O K
60 min Winter	0.808	0.808	0.7	7.3	O K
120 min Winter	0.864	0.864	0.7	7.8	O K
180 min Winter	0.874	0.874	0.8	7.9	O K
240 min Winter	0.863	0.863	0.7	7.8	O K
360 min Winter	0.818	0.818	0.7	7.4	O K
480 min Winter	0.767	0.767	0.7	6.9	O K
600 min Winter	0.718	0.718	0.6	6.5	O K
720 min Winter	0.674	0.674	0.6	6.1	O K
960 min Winter	0.600	0.600	0.5	5.4	O K
1440 min Winter	0.493	0.493	0.4	4.4	O K
2160 min Winter	0.394	0.394	0.3	3.5	O K
2880 min Winter	0.332	0.332	0.3	3.0	O K
4320 min Winter	0.259	0.259	0.2	2.3	O K
5760 min Winter	0.219	0.219	0.2	2.0	O K
7200 min Winter	0.192	0.192	0.2	1.7	O K
8640 min Winter	0.174	0.174	0.2	1.6	O K
10080 min Winter	0.161	0.161	0.1	1.4	O K
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)		
30 min Winter	59.875	0.0	32		
60 min Winter	37.884	0.0	60		
120 min Winter	23.172	0.0	96		
180 min Winter	17.181	0.0	134		
240 min Winter	13.823	0.0	172		
360 min Winter	10.096	0.0	244		
480 min Winter	8.045	0.0	316		
600 min Winter	6.737	0.0	384		
720 min Winter	5.826	0.0	450		
960 min Winter	4.633	0.0	580		
1440 min Winter	3.366	0.0	838		
2160 min Winter	2.460	0.0	1212		
2880 min Winter	1.983	0.0	1584		
4320 min Winter	1.488	0.0	2296		
5760 min Winter	1.230	0.0	3040		
7200 min Winter	1.072	0.0	3752		
8640 min Winter	0.964	0.0	4488		
10080 min Winter	0.887	0.0	5240		
©1982-2020 Innovyze					

Odyssey		Page 3
Tuscany House White Hart Lane Basingstoke RG21 4AF	Roundstone Lane Angmering - 20-016 SA3	
Date 12/02/2021 14:53 File Soakaway SA3.SRCX	Designed by AK Checked by	
Innovyze Source Control 2020.1		

Rainfall Details

Rainfall Model	FEH
Return Period (years)	10
FEH Rainfall Version	2013
Site Location	GB 507294 103462 TQ 07294 03462
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) 0.027

	Time (mins)	Area
From:	To:	(ha)
	0	4 0.027

©1982-2020 Innovyze

Odyssey		Page 4
Tuscany House White Hart Lane Basingstoke RG21 4AF	Roundstone Lane Angmering - 20-016 SA3	
Date 12/02/2021 14:53 File Soakaway SA3.SRCX	Designed by AK Checked by	
Innovyze Source Control 2020.1		

Model Details

Storage is Online Cover Level (m) 1.500

Trench Soakaway Structure

Infiltration Coefficient Base (m/hr)	0.00000	Trench Width (m)	2.0
Infiltration Coefficient Side (m/hr)	0.18360	Trench Length (m)	15.0
Safety Factor	2.0	Slope (1:X)	0.0
Porosity	0.30	Cap Volume Depth (m)	0.000
Invert Level (m)	0.000	Cap Infiltration Depth (m)	0.000

©1982-2020 Innovyze

Odyssey				Page 1																																																																																																																																																																																																																			
Tuscany House		Roundstone Lane																																																																																																																																																																																																																					
White Hart Lane		Angmering - 20-016																																																																																																																																																																																																																					
Basingstoke RG21 4AF		SA4																																																																																																																																																																																																																					
Date 11/02/2021 18:31		Designed by AK																																																																																																																																																																																																																					
File Soakaway SA4.SRCX		Checked by																																																																																																																																																																																																																					
Innovyze		Source Control 2020.1																																																																																																																																																																																																																					
Summary of Results for 100 year Return Period (+40%) Half Drain Time : 114 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>0.814</td><td>0.814</td><td>0.3</td><td>3.0</td><td>O K</td></tr><tr><td>30 min Summer</td><td>1.044</td><td>1.044</td><td>0.4</td><td>3.8</td><td>O K</td></tr><tr><td>60 min Summer</td><td>1.224</td><td>1.224</td><td>0.5</td><td>4.4</td><td>Flood Risk</td></tr><tr><td>120 min Summer</td><td>1.244</td><td>1.244</td><td>0.5</td><td>4.5</td><td>Flood Risk</td></tr><tr><td>180 min Summer</td><td>1.238</td><td>1.238</td><td>0.5</td><td>4.5</td><td>Flood Risk</td></tr><tr><td>240 min Summer</td><td>1.218</td><td>1.218</td><td>0.5</td><td>4.4</td><td>Flood Risk</td></tr><tr><td>360 min Summer</td><td>1.159</td><td>1.159</td><td>0.4</td><td>4.2</td><td>O K</td></tr><tr><td>480 min Summer</td><td>1.096</td><td>1.096</td><td>0.4</td><td>4.0</td><td>O K</td></tr><tr><td>600 min Summer</td><td>1.037</td><td>1.037</td><td>0.4</td><td>3.8</td><td>O K</td></tr><tr><td>720 min Summer</td><td>0.984</td><td>0.984</td><td>0.4</td><td>3.6</td><td>O K</td></tr><tr><td>960 min Summer</td><td>0.893</td><td>0.893</td><td>0.3</td><td>3.2</td><td>O K</td></tr><tr><td>1440 min Summer</td><td>0.760</td><td>0.760</td><td>0.3</td><td>2.8</td><td>O K</td></tr><tr><td>2160 min Summer</td><td>0.631</td><td>0.631</td><td>0.2</td><td>2.3</td><td>O K</td></tr><tr><td>2880 min Summer</td><td>0.546</td><td>0.546</td><td>0.2</td><td>2.0</td><td>O K</td></tr><tr><td>4320 min Summer</td><td>0.439</td><td>0.439</td><td>0.2</td><td>1.6</td><td>O K</td></tr><tr><td>5760 min Summer</td><td>0.374</td><td>0.374</td><td>0.1</td><td>1.4</td><td>O K</td></tr><tr><td>7200 min Summer</td><td>0.329</td><td>0.329</td><td>0.1</td><td>1.2</td><td>O K</td></tr><tr><td>8640 min Summer</td><td>0.298</td><td>0.298</td><td>0.1</td><td>1.1</td><td>O K</td></tr><tr><td>10080 min Summer</td><td>0.274</td><td>0.274</td><td>0.1</td><td>1.0</td><td>O K</td></tr><tr><td>15 min Winter</td><td>0.912</td><td>0.912</td><td>0.3</td><td>3.3</td><td>O K</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>151.536</td><td>0.0</td><td>18</td></tr><tr><td>30 min Summer</td><td>101.550</td><td>0.0</td><td>32</td></tr><tr><td>60 min Summer</td><td>64.948</td><td>0.0</td><td>60</td></tr><tr><td>120 min Summer</td><td>37.629</td><td>0.0</td><td>90</td></tr><tr><td>180 min Summer</td><td>27.271</td><td>0.0</td><td>124</td></tr><tr><td>240 min Summer</td><td>21.662</td><td>0.0</td><td>158</td></tr><tr><td>360 min Summer</td><td>15.601</td><td>0.0</td><td>226</td></tr><tr><td>480 min Summer</td><td>12.341</td><td>0.0</td><td>294</td></tr><tr><td>600 min Summer</td><td>10.288</td><td>0.0</td><td>360</td></tr><tr><td>720 min Summer</td><td>8.869</td><td>0.0</td><td>426</td></tr><tr><td>960 min Summer</td><td>7.026</td><td>0.0</td><td>550</td></tr><tr><td>1440 min Summer</td><td>5.075</td><td>0.0</td><td>806</td></tr><tr><td>2160 min Summer</td><td>3.689</td><td>0.0</td><td>1168</td></tr><tr><td>2880 min Summer</td><td>2.957</td><td>0.0</td><td>1532</td></tr><tr><td>4320 min Summer</td><td>2.183</td><td>0.0</td><td>2252</td></tr><tr><td>5760 min Summer</td><td>1.776</td><td>0.0</td><td>2992</td></tr><tr><td>7200 min Summer</td><td>1.521</td><td>0.0</td><td>3680</td></tr><tr><td>8640 min Summer</td><td>1.347</td><td>0.0</td><td>4416</td></tr><tr><td>10080 min Summer</td><td>1.223</td><td>0.0</td><td>5144</td></tr><tr><td>15 min Winter</td><td>151.536</td><td>0.0</td><td>18</td></tr></tbody></table>						Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status	15 min Summer	0.814	0.814	0.3	3.0	O K	30 min Summer	1.044	1.044	0.4	3.8	O K	60 min Summer	1.224	1.224	0.5	4.4	Flood Risk	120 min Summer	1.244	1.244	0.5	4.5	Flood Risk	180 min Summer	1.238	1.238	0.5	4.5	Flood Risk	240 min Summer	1.218	1.218	0.5	4.4	Flood Risk	360 min Summer	1.159	1.159	0.4	4.2	O K	480 min Summer	1.096	1.096	0.4	4.0	O K	600 min Summer	1.037	1.037	0.4	3.8	O K	720 min Summer	0.984	0.984	0.4	3.6	O K	960 min Summer	0.893	0.893	0.3	3.2	O K	1440 min Summer	0.760	0.760	0.3	2.8	O K	2160 min Summer	0.631	0.631	0.2	2.3	O K	2880 min Summer	0.546	0.546	0.2	2.0	O K	4320 min Summer	0.439	0.439	0.2	1.6	O K	5760 min Summer	0.374	0.374	0.1	1.4	O K	7200 min Summer	0.329	0.329	0.1	1.2	O K	8640 min Summer	0.298	0.298	0.1	1.1	O K	10080 min Summer	0.274	0.274	0.1	1.0	O K	15 min Winter	0.912	0.912	0.3	3.3	O K	Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)	15 min Summer	151.536	0.0	18	30 min Summer	101.550	0.0	32	60 min Summer	64.948	0.0	60	120 min Summer	37.629	0.0	90	180 min Summer	27.271	0.0	124	240 min Summer	21.662	0.0	158	360 min Summer	15.601	0.0	226	480 min Summer	12.341	0.0	294	600 min Summer	10.288	0.0	360	720 min Summer	8.869	0.0	426	960 min Summer	7.026	0.0	550	1440 min Summer	5.075	0.0	806	2160 min Summer	3.689	0.0	1168	2880 min Summer	2.957	0.0	1532	4320 min Summer	2.183	0.0	2252	5760 min Summer	1.776	0.0	2992	7200 min Summer	1.521	0.0	3680	8640 min Summer	1.347	0.0	4416	10080 min Summer	1.223	0.0	5144	15 min Winter	151.536	0.0	18
Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status																																																																																																																																																																																																																		
15 min Summer	0.814	0.814	0.3	3.0	O K																																																																																																																																																																																																																		
30 min Summer	1.044	1.044	0.4	3.8	O K																																																																																																																																																																																																																		
60 min Summer	1.224	1.224	0.5	4.4	Flood Risk																																																																																																																																																																																																																		
120 min Summer	1.244	1.244	0.5	4.5	Flood Risk																																																																																																																																																																																																																		
180 min Summer	1.238	1.238	0.5	4.5	Flood Risk																																																																																																																																																																																																																		
240 min Summer	1.218	1.218	0.5	4.4	Flood Risk																																																																																																																																																																																																																		
360 min Summer	1.159	1.159	0.4	4.2	O K																																																																																																																																																																																																																		
480 min Summer	1.096	1.096	0.4	4.0	O K																																																																																																																																																																																																																		
600 min Summer	1.037	1.037	0.4	3.8	O K																																																																																																																																																																																																																		
720 min Summer	0.984	0.984	0.4	3.6	O K																																																																																																																																																																																																																		
960 min Summer	0.893	0.893	0.3	3.2	O K																																																																																																																																																																																																																		
1440 min Summer	0.760	0.760	0.3	2.8	O K																																																																																																																																																																																																																		
2160 min Summer	0.631	0.631	0.2	2.3	O K																																																																																																																																																																																																																		
2880 min Summer	0.546	0.546	0.2	2.0	O K																																																																																																																																																																																																																		
4320 min Summer	0.439	0.439	0.2	1.6	O K																																																																																																																																																																																																																		
5760 min Summer	0.374	0.374	0.1	1.4	O K																																																																																																																																																																																																																		
7200 min Summer	0.329	0.329	0.1	1.2	O K																																																																																																																																																																																																																		
8640 min Summer	0.298	0.298	0.1	1.1	O K																																																																																																																																																																																																																		
10080 min Summer	0.274	0.274	0.1	1.0	O K																																																																																																																																																																																																																		
15 min Winter	0.912	0.912	0.3	3.3	O K																																																																																																																																																																																																																		
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)																																																																																																																																																																																																																				
15 min Summer	151.536	0.0	18																																																																																																																																																																																																																				
30 min Summer	101.550	0.0	32																																																																																																																																																																																																																				
60 min Summer	64.948	0.0	60																																																																																																																																																																																																																				
120 min Summer	37.629	0.0	90																																																																																																																																																																																																																				
180 min Summer	27.271	0.0	124																																																																																																																																																																																																																				
240 min Summer	21.662	0.0	158																																																																																																																																																																																																																				
360 min Summer	15.601	0.0	226																																																																																																																																																																																																																				
480 min Summer	12.341	0.0	294																																																																																																																																																																																																																				
600 min Summer	10.288	0.0	360																																																																																																																																																																																																																				
720 min Summer	8.869	0.0	426																																																																																																																																																																																																																				
960 min Summer	7.026	0.0	550																																																																																																																																																																																																																				
1440 min Summer	5.075	0.0	806																																																																																																																																																																																																																				
2160 min Summer	3.689	0.0	1168																																																																																																																																																																																																																				
2880 min Summer	2.957	0.0	1532																																																																																																																																																																																																																				
4320 min Summer	2.183	0.0	2252																																																																																																																																																																																																																				
5760 min Summer	1.776	0.0	2992																																																																																																																																																																																																																				
7200 min Summer	1.521	0.0	3680																																																																																																																																																																																																																				
8640 min Summer	1.347	0.0	4416																																																																																																																																																																																																																				
10080 min Summer	1.223	0.0	5144																																																																																																																																																																																																																				
15 min Winter	151.536	0.0	18																																																																																																																																																																																																																				
©1982-2020 Innovyze																																																																																																																																																																																																																							

Odyssey				Page 2	
Tuscany House		Roundstone Lane			
White Hart Lane		Angmering - 20-016			
Basingstoke RG21 4AF		SA4			
Date 11/02/2021 18:31		Designed by AK			
File Soakaway SA4.SRCX		Checked by			
Innovyze		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	1.173	1.173	0.4	4.3	O K
60 min Winter	1.380	1.380	0.5	5.0	Flood Risk
120 min Winter	1.392	1.392	0.5	5.1	Flood Risk
180 min Winter	1.369	1.369	0.5	5.0	Flood Risk
240 min Winter	1.329	1.329	0.5	4.8	Flood Risk
360 min Winter	1.232	1.232	0.5	4.5	Flood Risk
480 min Winter	1.140	1.140	0.4	4.1	O K
600 min Winter	1.057	1.057	0.4	3.8	O K
720 min Winter	0.985	0.985	0.4	3.6	O K
960 min Winter	0.868	0.868	0.3	3.2	O K
1440 min Winter	0.704	0.704	0.3	2.6	O K
2160 min Winter	0.555	0.555	0.2	2.0	O K
2880 min Winter	0.463	0.463	0.2	1.7	O K
4320 min Winter	0.355	0.355	0.1	1.3	O K
5760 min Winter	0.294	0.294	0.1	1.1	O K
7200 min Winter	0.254	0.254	0.1	0.9	O K
8640 min Winter	0.226	0.226	0.1	0.8	O K
10080 min Winter	0.206	0.206	0.1	0.7	O K
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)		
30 min Winter	101.550	0.0	32		
60 min Winter	64.948	0.0	58		
120 min Winter	37.629	0.0	94		
180 min Winter	27.271	0.0	132		
240 min Winter	21.662	0.0	170		
360 min Winter	15.601	0.0	242		
480 min Winter	12.341	0.0	312		
600 min Winter	10.288	0.0	380		
720 min Winter	8.869	0.0	448		
960 min Winter	7.026	0.0	578		
1440 min Winter	5.075	0.0	836		
2160 min Winter	3.689	0.0	1208		
2880 min Winter	2.957	0.0	1560		
4320 min Winter	2.183	0.0	2292		
5760 min Winter	1.776	0.0	3000		
7200 min Winter	1.521	0.0	3744		
8640 min Winter	1.347	0.0	4488		
10080 min Winter	1.223	0.0	5152		
©1982-2020 Innovyze					

Odyssey		Page 3
Tuscany House White Hart Lane Basingstoke RG21 4AF	Roundstone Lane Angmering - 20-016 SA4	
Date 11/02/2021 18:31 File Soakaway SA4.SRCX	Designed by AK Checked by	
Innovyze Source Control 2020.1		

Rainfall Details

Rainfall Model	FEH
Return Period (years)	100
FEH Rainfall Version	2013
Site Location	GB 507294 103462 TQ 07294 03462
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) 0.011

	Time (mins)	Area
From:	To:	(ha)
	0	4 0.011

©1982-2020 Innovyze

Odyssey		Page 4
Tuscany House White Hart Lane Basingstoke RG21 4AF	Roundstone Lane Angmering - 20-016 SA4	
Date 11/02/2021 18:31 File Soakaway SA4.SRCX	Designed by AK Checked by	
Innovyze Source Control 2020.1		

Model Details

Storage is Online Cover Level (m) 1.500

Trench Soakaway Structure

Infiltration Coefficient Base (m/hr)	0.00000	Trench Width (m)	1.1
Infiltration Coefficient Side (m/hr)	0.11340	Trench Length (m)	11.0
Safety Factor	2.0	Slope (1:X)	0.0
Porosity	0.30	Cap Volume Depth (m)	0.000
Invert Level (m)	0.000	Cap Infiltration Depth (m)	0.000

©1982-2020 Innovyze

Odyssey				Page 1																																																																																																																																																																																																																			
Tuscany House		Roundstone Lane																																																																																																																																																																																																																					
White Hart Lane		Angmering - 20-016																																																																																																																																																																																																																					
Basingstoke RG21 4AF		SA4																																																																																																																																																																																																																					
Date 12/02/2021 14:53		Designed by AK																																																																																																																																																																																																																					
File Soakaway SA4.SRCX		Checked by																																																																																																																																																																																																																					
Innovyze		Source Control 2020.1																																																																																																																																																																																																																					
<u>Summary of Results for 10 year Return Period (+40%)</u> Half Drain Time : 112 minutes. <table><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><tr><td>15 min Summer</td><td>0.491</td><td>0.491</td><td>0.2</td><td>1.8</td><td>O K</td></tr><tr><td>30 min Summer</td><td>0.616</td><td>0.616</td><td>0.2</td><td>2.2</td><td>O K</td></tr><tr><td>60 min Summer</td><td>0.714</td><td>0.714</td><td>0.3</td><td>2.6</td><td>O K</td></tr><tr><td>120 min Summer</td><td>0.766</td><td>0.766</td><td>0.3</td><td>2.8</td><td>O K</td></tr><tr><td>180 min Summer</td><td>0.780</td><td>0.780</td><td>0.3</td><td>2.8</td><td>O K</td></tr><tr><td>240 min Summer</td><td>0.777</td><td>0.777</td><td>0.3</td><td>2.8</td><td>O K</td></tr><tr><td>360 min Summer</td><td>0.750</td><td>0.750</td><td>0.3</td><td>2.7</td><td>O K</td></tr><tr><td>480 min Summer</td><td>0.714</td><td>0.714</td><td>0.3</td><td>2.6</td><td>O K</td></tr><tr><td>600 min Summer</td><td>0.679</td><td>0.679</td><td>0.3</td><td>2.5</td><td>O K</td></tr><tr><td>720 min Summer</td><td>0.646</td><td>0.646</td><td>0.2</td><td>2.3</td><td>O K</td></tr><tr><td>960 min Summer</td><td>0.589</td><td>0.589</td><td>0.2</td><td>2.1</td><td>O K</td></tr><tr><td>1440 min Summer</td><td>0.504</td><td>0.504</td><td>0.2</td><td>1.8</td><td>O K</td></tr><tr><td>2160 min Summer</td><td>0.421</td><td>0.421</td><td>0.2</td><td>1.5</td><td>O K</td></tr><tr><td>2880 min Summer</td><td>0.366</td><td>0.366</td><td>0.1</td><td>1.3</td><td>O K</td></tr><tr><td>4320 min Summer</td><td>0.299</td><td>0.299</td><td>0.1</td><td>1.1</td><td>O K</td></tr><tr><td>5760 min Summer</td><td>0.259</td><td>0.259</td><td>0.1</td><td>0.9</td><td>O K</td></tr><tr><td>7200 min Summer</td><td>0.232</td><td>0.232</td><td>0.1</td><td>0.8</td><td>O K</td></tr><tr><td>8640 min Summer</td><td>0.213</td><td>0.213</td><td>0.1</td><td>0.8</td><td>O K</td></tr><tr><td>10080 min Summer</td><td>0.199</td><td>0.199</td><td>0.1</td><td>0.7</td><td>O K</td></tr><tr><td>15 min Winter</td><td>0.550</td><td>0.550</td><td>0.2</td><td>2.0</td><td>O K</td></tr></table> <table><tr><th>Storm Event</th><th>Rain (mm/hr)</th><th>Flooded Volume (m³)</th><th>Time-Peak (mins)</th></tr><tr><td>15 min Summer</td><td>91.348</td><td>0.0</td><td>18</td></tr><tr><td>30 min Summer</td><td>59.875</td><td>0.0</td><td>32</td></tr><tr><td>60 min Summer</td><td>37.884</td><td>0.0</td><td>60</td></tr><tr><td>120 min Summer</td><td>23.172</td><td>0.0</td><td>90</td></tr><tr><td>180 min Summer</td><td>17.181</td><td>0.0</td><td>124</td></tr><tr><td>240 min Summer</td><td>13.823</td><td>0.0</td><td>158</td></tr><tr><td>360 min Summer</td><td>10.096</td><td>0.0</td><td>226</td></tr><tr><td>480 min Summer</td><td>8.045</td><td>0.0</td><td>294</td></tr><tr><td>600 min Summer</td><td>6.737</td><td>0.0</td><td>360</td></tr><tr><td>720 min Summer</td><td>5.826</td><td>0.0</td><td>426</td></tr><tr><td>960 min Summer</td><td>4.633</td><td>0.0</td><td>550</td></tr><tr><td>1440 min Summer</td><td>3.366</td><td>0.0</td><td>806</td></tr><tr><td>2160 min Summer</td><td>2.460</td><td>0.0</td><td>1168</td></tr><tr><td>2880 min Summer</td><td>1.983</td><td>0.0</td><td>1532</td></tr><tr><td>4320 min Summer</td><td>1.488</td><td>0.0</td><td>2252</td></tr><tr><td>5760 min Summer</td><td>1.230</td><td>0.0</td><td>2992</td></tr><tr><td>7200 min Summer</td><td>1.072</td><td>0.0</td><td>3680</td></tr><tr><td>8640 min Summer</td><td>0.964</td><td>0.0</td><td>4416</td></tr><tr><td>10080 min Summer</td><td>0.887</td><td>0.0</td><td>5144</td></tr><tr><td>15 min Winter</td><td>91.348</td><td>0.0</td><td>18</td></tr></table>						Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status	15 min Summer	0.491	0.491	0.2	1.8	O K	30 min Summer	0.616	0.616	0.2	2.2	O K	60 min Summer	0.714	0.714	0.3	2.6	O K	120 min Summer	0.766	0.766	0.3	2.8	O K	180 min Summer	0.780	0.780	0.3	2.8	O K	240 min Summer	0.777	0.777	0.3	2.8	O K	360 min Summer	0.750	0.750	0.3	2.7	O K	480 min Summer	0.714	0.714	0.3	2.6	O K	600 min Summer	0.679	0.679	0.3	2.5	O K	720 min Summer	0.646	0.646	0.2	2.3	O K	960 min Summer	0.589	0.589	0.2	2.1	O K	1440 min Summer	0.504	0.504	0.2	1.8	O K	2160 min Summer	0.421	0.421	0.2	1.5	O K	2880 min Summer	0.366	0.366	0.1	1.3	O K	4320 min Summer	0.299	0.299	0.1	1.1	O K	5760 min Summer	0.259	0.259	0.1	0.9	O K	7200 min Summer	0.232	0.232	0.1	0.8	O K	8640 min Summer	0.213	0.213	0.1	0.8	O K	10080 min Summer	0.199	0.199	0.1	0.7	O K	15 min Winter	0.550	0.550	0.2	2.0	O K	Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)	15 min Summer	91.348	0.0	18	30 min Summer	59.875	0.0	32	60 min Summer	37.884	0.0	60	120 min Summer	23.172	0.0	90	180 min Summer	17.181	0.0	124	240 min Summer	13.823	0.0	158	360 min Summer	10.096	0.0	226	480 min Summer	8.045	0.0	294	600 min Summer	6.737	0.0	360	720 min Summer	5.826	0.0	426	960 min Summer	4.633	0.0	550	1440 min Summer	3.366	0.0	806	2160 min Summer	2.460	0.0	1168	2880 min Summer	1.983	0.0	1532	4320 min Summer	1.488	0.0	2252	5760 min Summer	1.230	0.0	2992	7200 min Summer	1.072	0.0	3680	8640 min Summer	0.964	0.0	4416	10080 min Summer	0.887	0.0	5144	15 min Winter	91.348	0.0	18
Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status																																																																																																																																																																																																																		
15 min Summer	0.491	0.491	0.2	1.8	O K																																																																																																																																																																																																																		
30 min Summer	0.616	0.616	0.2	2.2	O K																																																																																																																																																																																																																		
60 min Summer	0.714	0.714	0.3	2.6	O K																																																																																																																																																																																																																		
120 min Summer	0.766	0.766	0.3	2.8	O K																																																																																																																																																																																																																		
180 min Summer	0.780	0.780	0.3	2.8	O K																																																																																																																																																																																																																		
240 min Summer	0.777	0.777	0.3	2.8	O K																																																																																																																																																																																																																		
360 min Summer	0.750	0.750	0.3	2.7	O K																																																																																																																																																																																																																		
480 min Summer	0.714	0.714	0.3	2.6	O K																																																																																																																																																																																																																		
600 min Summer	0.679	0.679	0.3	2.5	O K																																																																																																																																																																																																																		
720 min Summer	0.646	0.646	0.2	2.3	O K																																																																																																																																																																																																																		
960 min Summer	0.589	0.589	0.2	2.1	O K																																																																																																																																																																																																																		
1440 min Summer	0.504	0.504	0.2	1.8	O K																																																																																																																																																																																																																		
2160 min Summer	0.421	0.421	0.2	1.5	O K																																																																																																																																																																																																																		
2880 min Summer	0.366	0.366	0.1	1.3	O K																																																																																																																																																																																																																		
4320 min Summer	0.299	0.299	0.1	1.1	O K																																																																																																																																																																																																																		
5760 min Summer	0.259	0.259	0.1	0.9	O K																																																																																																																																																																																																																		
7200 min Summer	0.232	0.232	0.1	0.8	O K																																																																																																																																																																																																																		
8640 min Summer	0.213	0.213	0.1	0.8	O K																																																																																																																																																																																																																		
10080 min Summer	0.199	0.199	0.1	0.7	O K																																																																																																																																																																																																																		
15 min Winter	0.550	0.550	0.2	2.0	O K																																																																																																																																																																																																																		
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)																																																																																																																																																																																																																				
15 min Summer	91.348	0.0	18																																																																																																																																																																																																																				
30 min Summer	59.875	0.0	32																																																																																																																																																																																																																				
60 min Summer	37.884	0.0	60																																																																																																																																																																																																																				
120 min Summer	23.172	0.0	90																																																																																																																																																																																																																				
180 min Summer	17.181	0.0	124																																																																																																																																																																																																																				
240 min Summer	13.823	0.0	158																																																																																																																																																																																																																				
360 min Summer	10.096	0.0	226																																																																																																																																																																																																																				
480 min Summer	8.045	0.0	294																																																																																																																																																																																																																				
600 min Summer	6.737	0.0	360																																																																																																																																																																																																																				
720 min Summer	5.826	0.0	426																																																																																																																																																																																																																				
960 min Summer	4.633	0.0	550																																																																																																																																																																																																																				
1440 min Summer	3.366	0.0	806																																																																																																																																																																																																																				
2160 min Summer	2.460	0.0	1168																																																																																																																																																																																																																				
2880 min Summer	1.983	0.0	1532																																																																																																																																																																																																																				
4320 min Summer	1.488	0.0	2252																																																																																																																																																																																																																				
5760 min Summer	1.230	0.0	2992																																																																																																																																																																																																																				
7200 min Summer	1.072	0.0	3680																																																																																																																																																																																																																				
8640 min Summer	0.964	0.0	4416																																																																																																																																																																																																																				
10080 min Summer	0.887	0.0	5144																																																																																																																																																																																																																				
15 min Winter	91.348	0.0	18																																																																																																																																																																																																																				
©1982-2020 Innovyze																																																																																																																																																																																																																							

Odyssey		Page 2			
Tuscany House	Roundstone Lane				
White Hart Lane	Angmering - 20-016				
Basingstoke RG21 4AF	SA4				
Date 12/02/2021 14:53	Designed by AK				
File Soakaway SA4.SRCX	Checked by				
Innovyze	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	0.691	0.691	0.3	2.5	O K
60 min Winter	0.805	0.805	0.3	2.9	O K
120 min Winter	0.857	0.857	0.3	3.1	O K
180 min Winter	0.863	0.863	0.3	3.1	O K
240 min Winter	0.848	0.848	0.3	3.1	O K
360 min Winter	0.797	0.797	0.3	2.9	O K
480 min Winter	0.743	0.743	0.3	2.7	O K
600 min Winter	0.692	0.692	0.3	2.5	O K
720 min Winter	0.647	0.647	0.2	2.3	O K
960 min Winter	0.572	0.572	0.2	2.1	O K
1440 min Winter	0.467	0.467	0.2	1.7	O K
2160 min Winter	0.370	0.370	0.1	1.3	O K
2880 min Winter	0.311	0.311	0.1	1.1	O K
4320 min Winter	0.242	0.242	0.1	0.9	O K
5760 min Winter	0.203	0.203	0.1	0.7	O K
7200 min Winter	0.179	0.179	0.1	0.6	O K
8640 min Winter	0.162	0.162	0.1	0.6	O K
10080 min Winter	0.149	0.149	0.1	0.5	O K
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)		
30 min Winter	59.875	0.0	32		
60 min Winter	37.884	0.0	58		
120 min Winter	23.172	0.0	94		
180 min Winter	17.181	0.0	132		
240 min Winter	13.823	0.0	170		
360 min Winter	10.096	0.0	242		
480 min Winter	8.045	0.0	312		
600 min Winter	6.737	0.0	380		
720 min Winter	5.826	0.0	448		
960 min Winter	4.633	0.0	578		
1440 min Winter	3.366	0.0	834		
2160 min Winter	2.460	0.0	1208		
2880 min Winter	1.983	0.0	1560		
4320 min Winter	1.488	0.0	2292		
5760 min Winter	1.230	0.0	3008		
7200 min Winter	1.072	0.0	3744		
8640 min Winter	0.964	0.0	4488		
10080 min Winter	0.887	0.0	5152		
©1982-2020 Innovyze					

Odyssey		Page 3																														
Tuscany House	Roundstone Lane																															
White Hart Lane	Angmering - 20-016																															
Basingstoke RG21 4AF	SA4																															
Date 12/02/2021 14:53	Designed by AK																															
File Soakaway SA4.SRCX	Checked by																															
Innovyze	Source Control 2020.1																															
<u>Rainfall Details</u> <table> <tr> <td>Rainfall Model</td> <td>FEH</td> </tr> <tr> <td>Return Period (years)</td> <td>10</td> </tr> <tr> <td>FEH Rainfall Version</td> <td>2013</td> </tr> <tr> <td>Site Location</td> <td>GB 507294 103462 TQ 07294 03462</td> </tr> <tr> <td>Data Type</td> <td>Point</td> </tr> <tr> <td>Summer Storms</td> <td>Yes</td> </tr> <tr> <td>Winter Storms</td> <td>Yes</td> </tr> <tr> <td>Cv (Summer)</td> <td>0.750</td> </tr> <tr> <td>Cv (Winter)</td> <td>0.840</td> </tr> <tr> <td>Shortest Storm (mins)</td> <td>15</td> </tr> <tr> <td>Longest Storm (mins)</td> <td>10080</td> </tr> <tr> <td>Climate Change %</td> <td>+40</td> </tr> </table> <u>Time Area Diagram</u> Total Area (ha) 0.011 <table> <thead> <tr> <th>Time (mins)</th> <th>Area</th> </tr> <tr> <th>From:</th> <th>To: (ha)</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>4 0.011</td> </tr> </tbody> </table>			Rainfall Model	FEH	Return Period (years)	10	FEH Rainfall Version	2013	Site Location	GB 507294 103462 TQ 07294 03462	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 (mins)	Area	From:	To: (ha)	0	4 0.011
Rainfall Model	FEH																															
Return Period (years)	10																															
FEH Rainfall Version	2013																															
Site Location	GB 507294 103462 TQ 07294 03462																															
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 (mins)	Area																															
From:	To: (ha)																															
0	4 0.011																															
©1982-2020 Innovyze																																

Odyssey		Page 4
Tuscany House White Hart Lane Basingstoke RG21 4AF	Roundstone Lane Angmering - 20-016 SA4	
Date 12/02/2021 14:53 File Soakaway SA4.SRCX	Designed by AK Checked by	
Innovyze Source Control 2020.1		

Model Details

Storage is Online Cover Level (m) 1.500

Trench Soakaway Structure

Infiltration Coefficient Base (m/hr)	0.00000	Trench Width (m)	1.1
Infiltration Coefficient Side (m/hr)	0.11340	Trench Length (m)	11.0
Safety Factor	2.0	Slope (1:X)	0.0
Porosity	0.30	Cap Volume Depth (m)	0.000
Invert Level (m)	0.000	Cap Infiltration Depth (m)	0.000

©1982-2020 Innovyze

Odyssey				Page 1																																																																																																																																																																																																																			
Tuscany House		Roundstone Lane																																																																																																																																																																																																																					
White Hart Lane		Angmering - 20-016																																																																																																																																																																																																																					
Basingstoke RG21 4AF		SA5																																																																																																																																																																																																																					
Date 11/02/2021 18:32		Designed by AK																																																																																																																																																																																																																					
File Soakaway SA5.SRCX		Checked by																																																																																																																																																																																																																					
Innovyze		Source Control 2020.1																																																																																																																																																																																																																					
<u>Summary of Results for 100 year Return Period (+40%)</u> Half Drain Time : 210 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>0.765</td><td>0.765</td><td>0.4</td><td>7.7</td><td>O K</td></tr><tr><td>30 min Summer</td><td>1.001</td><td>1.001</td><td>0.6</td><td>10.1</td><td>O K</td></tr><tr><td>60 min Summer</td><td>1.219</td><td>1.219</td><td>0.7</td><td>12.3</td><td>Flood Risk</td></tr><tr><td>120 min Summer</td><td>1.283</td><td>1.283</td><td>0.7</td><td>12.9</td><td>Flood Risk</td></tr><tr><td>180 min Summer</td><td>1.293</td><td>1.293</td><td>0.7</td><td>13.0</td><td>Flood Risk</td></tr><tr><td>240 min Summer</td><td>1.293</td><td>1.293</td><td>0.7</td><td>13.0</td><td>Flood Risk</td></tr><tr><td>360 min Summer</td><td>1.276</td><td>1.276</td><td>0.7</td><td>12.9</td><td>Flood Risk</td></tr><tr><td>480 min Summer</td><td>1.245</td><td>1.245</td><td>0.7</td><td>12.6</td><td>Flood Risk</td></tr><tr><td>600 min Summer</td><td>1.211</td><td>1.211</td><td>0.7</td><td>12.2</td><td>Flood Risk</td></tr><tr><td>720 min Summer</td><td>1.176</td><td>1.176</td><td>0.7</td><td>11.9</td><td>O K</td></tr><tr><td>960 min Summer</td><td>1.109</td><td>1.109</td><td>0.6</td><td>11.2</td><td>O K</td></tr><tr><td>1440 min Summer</td><td>0.994</td><td>0.994</td><td>0.6</td><td>10.0</td><td>O K</td></tr><tr><td>2160 min Summer</td><td>0.866</td><td>0.866</td><td>0.5</td><td>8.7</td><td>O K</td></tr><tr><td>2880 min Summer</td><td>0.774</td><td>0.774</td><td>0.4</td><td>7.8</td><td>O K</td></tr><tr><td>4320 min Summer</td><td>0.649</td><td>0.649</td><td>0.4</td><td>6.5</td><td>O K</td></tr><tr><td>5760 min Summer</td><td>0.568</td><td>0.568</td><td>0.3</td><td>5.7</td><td>O K</td></tr><tr><td>7200 min Summer</td><td>0.509</td><td>0.509</td><td>0.3</td><td>5.1</td><td>O K</td></tr><tr><td>8640 min Summer</td><td>0.467</td><td>0.467</td><td>0.3</td><td>4.7</td><td>O K</td></tr><tr><td>10080 min Summer</td><td>0.434</td><td>0.434</td><td>0.2</td><td>4.4</td><td>O K</td></tr><tr><td>15 min Winter</td><td>0.857</td><td>0.857</td><td>0.5</td><td>8.6</td><td>O K</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>151.536</td><td>0.0</td><td>18</td></tr><tr><td>30 min Summer</td><td>101.550</td><td>0.0</td><td>33</td></tr><tr><td>60 min Summer</td><td>64.948</td><td>0.0</td><td>62</td></tr><tr><td>120 min Summer</td><td>37.629</td><td>0.0</td><td>118</td></tr><tr><td>180 min Summer</td><td>27.271</td><td>0.0</td><td>146</td></tr><tr><td>240 min Summer</td><td>21.662</td><td>0.0</td><td>176</td></tr><tr><td>360 min Summer</td><td>15.601</td><td>0.0</td><td>244</td></tr><tr><td>480 min Summer</td><td>12.341</td><td>0.0</td><td>312</td></tr><tr><td>600 min Summer</td><td>10.288</td><td>0.0</td><td>380</td></tr><tr><td>720 min Summer</td><td>8.869</td><td>0.0</td><td>448</td></tr><tr><td>960 min Summer</td><td>7.026</td><td>0.0</td><td>580</td></tr><tr><td>1440 min Summer</td><td>5.075</td><td>0.0</td><td>838</td></tr><tr><td>2160 min Summer</td><td>3.689</td><td>0.0</td><td>1216</td></tr><tr><td>2880 min Summer</td><td>2.957</td><td>0.0</td><td>1588</td></tr><tr><td>4320 min Summer</td><td>2.183</td><td>0.0</td><td>2332</td></tr><tr><td>5760 min Summer</td><td>1.776</td><td>0.0</td><td>3056</td></tr><tr><td>7200 min Summer</td><td>1.521</td><td>0.0</td><td>3816</td></tr><tr><td>8640 min Summer</td><td>1.347</td><td>0.0</td><td>4496</td></tr><tr><td>10080 min Summer</td><td>1.223</td><td>0.0</td><td>5240</td></tr><tr><td>15 min Winter</td><td>151.536</td><td>0.0</td><td>18</td></tr></tbody></table>						Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status	15 min Summer	0.765	0.765	0.4	7.7	O K	30 min Summer	1.001	1.001	0.6	10.1	O K	60 min Summer	1.219	1.219	0.7	12.3	Flood Risk	120 min Summer	1.283	1.283	0.7	12.9	Flood Risk	180 min Summer	1.293	1.293	0.7	13.0	Flood Risk	240 min Summer	1.293	1.293	0.7	13.0	Flood Risk	360 min Summer	1.276	1.276	0.7	12.9	Flood Risk	480 min Summer	1.245	1.245	0.7	12.6	Flood Risk	600 min Summer	1.211	1.211	0.7	12.2	Flood Risk	720 min Summer	1.176	1.176	0.7	11.9	O K	960 min Summer	1.109	1.109	0.6	11.2	O K	1440 min Summer	0.994	0.994	0.6	10.0	O K	2160 min Summer	0.866	0.866	0.5	8.7	O K	2880 min Summer	0.774	0.774	0.4	7.8	O K	4320 min Summer	0.649	0.649	0.4	6.5	O K	5760 min Summer	0.568	0.568	0.3	5.7	O K	7200 min Summer	0.509	0.509	0.3	5.1	O K	8640 min Summer	0.467	0.467	0.3	4.7	O K	10080 min Summer	0.434	0.434	0.2	4.4	O K	15 min Winter	0.857	0.857	0.5	8.6	O K	Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)	15 min Summer	151.536	0.0	18	30 min Summer	101.550	0.0	33	60 min Summer	64.948	0.0	62	120 min Summer	37.629	0.0	118	180 min Summer	27.271	0.0	146	240 min Summer	21.662	0.0	176	360 min Summer	15.601	0.0	244	480 min Summer	12.341	0.0	312	600 min Summer	10.288	0.0	380	720 min Summer	8.869	0.0	448	960 min Summer	7.026	0.0	580	1440 min Summer	5.075	0.0	838	2160 min Summer	3.689	0.0	1216	2880 min Summer	2.957	0.0	1588	4320 min Summer	2.183	0.0	2332	5760 min Summer	1.776	0.0	3056	7200 min Summer	1.521	0.0	3816	8640 min Summer	1.347	0.0	4496	10080 min Summer	1.223	0.0	5240	15 min Winter	151.536	0.0	18
Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status																																																																																																																																																																																																																		
15 min Summer	0.765	0.765	0.4	7.7	O K																																																																																																																																																																																																																		
30 min Summer	1.001	1.001	0.6	10.1	O K																																																																																																																																																																																																																		
60 min Summer	1.219	1.219	0.7	12.3	Flood Risk																																																																																																																																																																																																																		
120 min Summer	1.283	1.283	0.7	12.9	Flood Risk																																																																																																																																																																																																																		
180 min Summer	1.293	1.293	0.7	13.0	Flood Risk																																																																																																																																																																																																																		
240 min Summer	1.293	1.293	0.7	13.0	Flood Risk																																																																																																																																																																																																																		
360 min Summer	1.276	1.276	0.7	12.9	Flood Risk																																																																																																																																																																																																																		
480 min Summer	1.245	1.245	0.7	12.6	Flood Risk																																																																																																																																																																																																																		
600 min Summer	1.211	1.211	0.7	12.2	Flood Risk																																																																																																																																																																																																																		
720 min Summer	1.176	1.176	0.7	11.9	O K																																																																																																																																																																																																																		
960 min Summer	1.109	1.109	0.6	11.2	O K																																																																																																																																																																																																																		
1440 min Summer	0.994	0.994	0.6	10.0	O K																																																																																																																																																																																																																		
2160 min Summer	0.866	0.866	0.5	8.7	O K																																																																																																																																																																																																																		
2880 min Summer	0.774	0.774	0.4	7.8	O K																																																																																																																																																																																																																		
4320 min Summer	0.649	0.649	0.4	6.5	O K																																																																																																																																																																																																																		
5760 min Summer	0.568	0.568	0.3	5.7	O K																																																																																																																																																																																																																		
7200 min Summer	0.509	0.509	0.3	5.1	O K																																																																																																																																																																																																																		
8640 min Summer	0.467	0.467	0.3	4.7	O K																																																																																																																																																																																																																		
10080 min Summer	0.434	0.434	0.2	4.4	O K																																																																																																																																																																																																																		
15 min Winter	0.857	0.857	0.5	8.6	O K																																																																																																																																																																																																																		
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)																																																																																																																																																																																																																				
15 min Summer	151.536	0.0	18																																																																																																																																																																																																																				
30 min Summer	101.550	0.0	33																																																																																																																																																																																																																				
60 min Summer	64.948	0.0	62																																																																																																																																																																																																																				
120 min Summer	37.629	0.0	118																																																																																																																																																																																																																				
180 min Summer	27.271	0.0	146																																																																																																																																																																																																																				
240 min Summer	21.662	0.0	176																																																																																																																																																																																																																				
360 min Summer	15.601	0.0	244																																																																																																																																																																																																																				
480 min Summer	12.341	0.0	312																																																																																																																																																																																																																				
600 min Summer	10.288	0.0	380																																																																																																																																																																																																																				
720 min Summer	8.869	0.0	448																																																																																																																																																																																																																				
960 min Summer	7.026	0.0	580																																																																																																																																																																																																																				
1440 min Summer	5.075	0.0	838																																																																																																																																																																																																																				
2160 min Summer	3.689	0.0	1216																																																																																																																																																																																																																				
2880 min Summer	2.957	0.0	1588																																																																																																																																																																																																																				
4320 min Summer	2.183	0.0	2332																																																																																																																																																																																																																				
5760 min Summer	1.776	0.0	3056																																																																																																																																																																																																																				
7200 min Summer	1.521	0.0	3816																																																																																																																																																																																																																				
8640 min Summer	1.347	0.0	4496																																																																																																																																																																																																																				
10080 min Summer	1.223	0.0	5240																																																																																																																																																																																																																				
15 min Winter	151.536	0.0	18																																																																																																																																																																																																																				
©1982-2020 Innovyze																																																																																																																																																																																																																							

Odyssey				Page 2	
Tuscany House		Roundstone Lane			
White Hart Lane		Angmering - 20-016			
Basingstoke RG21 4AF		SA5			
Date 11/02/2021 18:32		Designed by AK			
File Soakaway SA5.SRCX		Checked by			
Innovyze		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	1.122	1.122	0.6	11.3	O K
60 min Winter	1.370	1.370	0.8	13.8	Flood Risk
120 min Winter	1.449	1.449	0.8	14.6	Flood Risk
180 min Winter	1.450	1.450	0.8	14.6	Flood Risk
240 min Winter	1.445	1.445	0.8	14.6	Flood Risk
360 min Winter	1.406	1.406	0.8	14.2	Flood Risk
480 min Winter	1.353	1.353	0.8	13.6	Flood Risk
600 min Winter	1.298	1.298	0.7	13.1	Flood Risk
720 min Winter	1.244	1.244	0.7	12.5	Flood Risk
960 min Winter	1.146	1.146	0.7	11.6	O K
1440 min Winter	0.988	0.988	0.6	10.0	O K
2160 min Winter	0.823	0.823	0.5	8.3	O K
2880 min Winter	0.710	0.710	0.4	7.2	O K
4320 min Winter	0.566	0.566	0.3	5.7	O K
5760 min Winter	0.477	0.477	0.3	4.8	O K
7200 min Winter	0.417	0.417	0.2	4.2	O K
8640 min Winter	0.375	0.375	0.2	3.8	O K
10080 min Winter	0.343	0.343	0.2	3.5	O K
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)		
30 min Winter	101.550	0.0	32		
60 min Winter	64.948	0.0	60		
120 min Winter	37.629	0.0	116		
180 min Winter	27.271	0.0	148		
240 min Winter	21.662	0.0	184		
360 min Winter	15.601	0.0	262		
480 min Winter	12.341	0.0	336		
600 min Winter	10.288	0.0	408		
720 min Winter	8.869	0.0	478		
960 min Winter	7.026	0.0	616		
1440 min Winter	5.075	0.0	882		
2160 min Winter	3.689	0.0	1276		
2880 min Winter	2.957	0.0	1644		
4320 min Winter	2.183	0.0	2380		
5760 min Winter	1.776	0.0	3120		
7200 min Winter	1.521	0.0	3824		
8640 min Winter	1.347	0.0	4584		
10080 min Winter	1.223	0.0	5336		
©1982-2020 Innovyze					

Odyssey		Page 3
Tuscany House	Roundstone Lane	
White Hart Lane	Angmering - 20-016	
Basingstoke RG21 4AF	SA5	
Date 11/02/2021 18:32	Designed by AK	
File Soakaway SA5.SRCX	Checked by	
Innovyze	Source Control 2020.1	

Rainfall Details

Rainfall Model	FEH
Return Period (years)	100
FEH Rainfall Version	2013
Site Location	GB 507294 103462 TQ 07294 03462
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) 0.028

	Time (mins)	Area
From:	To:	(ha)
	0	4 0.028

©1982-2020 Innovyze

Odyssey		Page 4
Tuscany House White Hart Lane Basingstoke RG21 4AF	Roundstone Lane Angmering - 20-016 SA5	
Date 11/02/2021 18:32 File Soakaway SA5.SRCX	Designed by AK Checked by	
Innovyze Source Control 2020.1		

Model Details

Storage is Online Cover Level (m) 1.500

Trench Soakaway Structure

Infiltration Coefficient Base (m/hr)	0.00000	Trench Width (m)	2.1
Infiltration Coefficient Side (m/hr)	0.11340	Trench Length (m)	16.0
Safety Factor	2.0	Slope (1:X)	0.0
Porosity	0.30	Cap Volume Depth (m)	0.000
Invert Level (m)	0.000	Cap Infiltration Depth (m)	0.000

©1982-2020 Innovyze

Odyssey			Page 1																																																																																																																																																																																																																			
Tuscany House		Roundstone Lane																																																																																																																																																																																																																				
White Hart Lane		Angmering - 20-016																																																																																																																																																																																																																				
Basingstoke RG21 4AF		SA5																																																																																																																																																																																																																				
Date 12/02/2021 14:54		Designed by AK																																																																																																																																																																																																																				
File Soakaway SA5.SRCX		Checked by																																																																																																																																																																																																																				
Innovyze		Source Control 2020.1																																																																																																																																																																																																																				
<u>Summary of Results for 10 year Return Period (+40%)</u> Half Drain Time : 198 minutes. <table><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><tr><td>15 min Summer</td><td>0.461</td><td>0.461</td><td>0.3</td><td>4.6</td><td>O K</td></tr><tr><td>30 min Summer</td><td>0.590</td><td>0.590</td><td>0.3</td><td>5.9</td><td>O K</td></tr><tr><td>60 min Summer</td><td>0.711</td><td>0.711</td><td>0.4</td><td>7.2</td><td>O K</td></tr><tr><td>120 min Summer</td><td>0.790</td><td>0.790</td><td>0.5</td><td>8.0</td><td>O K</td></tr><tr><td>180 min Summer</td><td>0.814</td><td>0.814</td><td>0.5</td><td>8.2</td><td>O K</td></tr><tr><td>240 min Summer</td><td>0.825</td><td>0.825</td><td>0.5</td><td>8.3</td><td>O K</td></tr><tr><td>360 min Summer</td><td>0.825</td><td>0.825</td><td>0.5</td><td>8.3</td><td>O K</td></tr><tr><td>480 min Summer</td><td>0.812</td><td>0.812</td><td>0.5</td><td>8.2</td><td>O K</td></tr><tr><td>600 min Summer</td><td>0.793</td><td>0.793</td><td>0.5</td><td>8.0</td><td>O K</td></tr><tr><td>720 min Summer</td><td>0.772</td><td>0.772</td><td>0.4</td><td>7.8</td><td>O K</td></tr><tr><td>960 min Summer</td><td>0.731</td><td>0.731</td><td>0.4</td><td>7.4</td><td>O K</td></tr><tr><td>1440 min Summer</td><td>0.659</td><td>0.659</td><td>0.4</td><td>6.6</td><td>O K</td></tr><tr><td>2160 min Summer</td><td>0.577</td><td>0.577</td><td>0.3</td><td>5.8</td><td>O K</td></tr><tr><td>2880 min Summer</td><td>0.519</td><td>0.519</td><td>0.3</td><td>5.2</td><td>O K</td></tr><tr><td>4320 min Summer</td><td>0.443</td><td>0.443</td><td>0.3</td><td>4.5</td><td>O K</td></tr><tr><td>5760 min Summer</td><td>0.394</td><td>0.394</td><td>0.2</td><td>4.0</td><td>O K</td></tr><tr><td>7200 min Summer</td><td>0.359</td><td>0.359</td><td>0.2</td><td>3.6</td><td>O K</td></tr><tr><td>8640 min Summer</td><td>0.334</td><td>0.334</td><td>0.2</td><td>3.4</td><td>O K</td></tr><tr><td>10080 min Summer</td><td>0.315</td><td>0.315</td><td>0.2</td><td>3.2</td><td>O K</td></tr><tr><td>15 min Winter</td><td>0.517</td><td>0.517</td><td>0.3</td><td>5.2</td><td>O K</td></tr></table> <table><tr><th>Storm Event</th><th>Rain (mm/hr)</th><th>Flooded Volume (m³)</th><th>Time-Peak (mins)</th></tr><tr><td>15 min Summer</td><td>91.348</td><td>0.0</td><td>18</td></tr><tr><td>30 min Summer</td><td>59.875</td><td>0.0</td><td>33</td></tr><tr><td>60 min Summer</td><td>37.884</td><td>0.0</td><td>62</td></tr><tr><td>120 min Summer</td><td>23.172</td><td>0.0</td><td>118</td></tr><tr><td>180 min Summer</td><td>17.181</td><td>0.0</td><td>146</td></tr><tr><td>240 min Summer</td><td>13.823</td><td>0.0</td><td>176</td></tr><tr><td>360 min Summer</td><td>10.096</td><td>0.0</td><td>244</td></tr><tr><td>480 min Summer</td><td>8.045</td><td>0.0</td><td>312</td></tr><tr><td>600 min Summer</td><td>6.737</td><td>0.0</td><td>380</td></tr><tr><td>720 min Summer</td><td>5.826</td><td>0.0</td><td>448</td></tr><tr><td>960 min Summer</td><td>4.633</td><td>0.0</td><td>580</td></tr><tr><td>1440 min Summer</td><td>3.366</td><td>0.0</td><td>838</td></tr><tr><td>2160 min Summer</td><td>2.460</td><td>0.0</td><td>1216</td></tr><tr><td>2880 min Summer</td><td>1.983</td><td>0.0</td><td>1588</td></tr><tr><td>4320 min Summer</td><td>1.488</td><td>0.0</td><td>2332</td></tr><tr><td>5760 min Summer</td><td>1.230</td><td>0.0</td><td>3056</td></tr><tr><td>7200 min Summer</td><td>1.072</td><td>0.0</td><td>3816</td></tr><tr><td>8640 min Summer</td><td>0.964</td><td>0.0</td><td>4496</td></tr><tr><td>10080 min Summer</td><td>0.887</td><td>0.0</td><td>5240</td></tr><tr><td>15 min Winter</td><td>91.348</td><td>0.0</td><td>18</td></tr></table>					Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status	15 min Summer	0.461	0.461	0.3	4.6	O K	30 min Summer	0.590	0.590	0.3	5.9	O K	60 min Summer	0.711	0.711	0.4	7.2	O K	120 min Summer	0.790	0.790	0.5	8.0	O K	180 min Summer	0.814	0.814	0.5	8.2	O K	240 min Summer	0.825	0.825	0.5	8.3	O K	360 min Summer	0.825	0.825	0.5	8.3	O K	480 min Summer	0.812	0.812	0.5	8.2	O K	600 min Summer	0.793	0.793	0.5	8.0	O K	720 min Summer	0.772	0.772	0.4	7.8	O K	960 min Summer	0.731	0.731	0.4	7.4	O K	1440 min Summer	0.659	0.659	0.4	6.6	O K	2160 min Summer	0.577	0.577	0.3	5.8	O K	2880 min Summer	0.519	0.519	0.3	5.2	O K	4320 min Summer	0.443	0.443	0.3	4.5	O K	5760 min Summer	0.394	0.394	0.2	4.0	O K	7200 min Summer	0.359	0.359	0.2	3.6	O K	8640 min Summer	0.334	0.334	0.2	3.4	O K	10080 min Summer	0.315	0.315	0.2	3.2	O K	15 min Winter	0.517	0.517	0.3	5.2	O K	Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)	15 min Summer	91.348	0.0	18	30 min Summer	59.875	0.0	33	60 min Summer	37.884	0.0	62	120 min Summer	23.172	0.0	118	180 min Summer	17.181	0.0	146	240 min Summer	13.823	0.0	176	360 min Summer	10.096	0.0	244	480 min Summer	8.045	0.0	312	600 min Summer	6.737	0.0	380	720 min Summer	5.826	0.0	448	960 min Summer	4.633	0.0	580	1440 min Summer	3.366	0.0	838	2160 min Summer	2.460	0.0	1216	2880 min Summer	1.983	0.0	1588	4320 min Summer	1.488	0.0	2332	5760 min Summer	1.230	0.0	3056	7200 min Summer	1.072	0.0	3816	8640 min Summer	0.964	0.0	4496	10080 min Summer	0.887	0.0	5240	15 min Winter	91.348	0.0	18
Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status																																																																																																																																																																																																																	
15 min Summer	0.461	0.461	0.3	4.6	O K																																																																																																																																																																																																																	
30 min Summer	0.590	0.590	0.3	5.9	O K																																																																																																																																																																																																																	
60 min Summer	0.711	0.711	0.4	7.2	O K																																																																																																																																																																																																																	
120 min Summer	0.790	0.790	0.5	8.0	O K																																																																																																																																																																																																																	
180 min Summer	0.814	0.814	0.5	8.2	O K																																																																																																																																																																																																																	
240 min Summer	0.825	0.825	0.5	8.3	O K																																																																																																																																																																																																																	
360 min Summer	0.825	0.825	0.5	8.3	O K																																																																																																																																																																																																																	
480 min Summer	0.812	0.812	0.5	8.2	O K																																																																																																																																																																																																																	
600 min Summer	0.793	0.793	0.5	8.0	O K																																																																																																																																																																																																																	
720 min Summer	0.772	0.772	0.4	7.8	O K																																																																																																																																																																																																																	
960 min Summer	0.731	0.731	0.4	7.4	O K																																																																																																																																																																																																																	
1440 min Summer	0.659	0.659	0.4	6.6	O K																																																																																																																																																																																																																	
2160 min Summer	0.577	0.577	0.3	5.8	O K																																																																																																																																																																																																																	
2880 min Summer	0.519	0.519	0.3	5.2	O K																																																																																																																																																																																																																	
4320 min Summer	0.443	0.443	0.3	4.5	O K																																																																																																																																																																																																																	
5760 min Summer	0.394	0.394	0.2	4.0	O K																																																																																																																																																																																																																	
7200 min Summer	0.359	0.359	0.2	3.6	O K																																																																																																																																																																																																																	
8640 min Summer	0.334	0.334	0.2	3.4	O K																																																																																																																																																																																																																	
10080 min Summer	0.315	0.315	0.2	3.2	O K																																																																																																																																																																																																																	
15 min Winter	0.517	0.517	0.3	5.2	O K																																																																																																																																																																																																																	
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)																																																																																																																																																																																																																			
15 min Summer	91.348	0.0	18																																																																																																																																																																																																																			
30 min Summer	59.875	0.0	33																																																																																																																																																																																																																			
60 min Summer	37.884	0.0	62																																																																																																																																																																																																																			
120 min Summer	23.172	0.0	118																																																																																																																																																																																																																			
180 min Summer	17.181	0.0	146																																																																																																																																																																																																																			
240 min Summer	13.823	0.0	176																																																																																																																																																																																																																			
360 min Summer	10.096	0.0	244																																																																																																																																																																																																																			
480 min Summer	8.045	0.0	312																																																																																																																																																																																																																			
600 min Summer	6.737	0.0	380																																																																																																																																																																																																																			
720 min Summer	5.826	0.0	448																																																																																																																																																																																																																			
960 min Summer	4.633	0.0	580																																																																																																																																																																																																																			
1440 min Summer	3.366	0.0	838																																																																																																																																																																																																																			
2160 min Summer	2.460	0.0	1216																																																																																																																																																																																																																			
2880 min Summer	1.983	0.0	1588																																																																																																																																																																																																																			
4320 min Summer	1.488	0.0	2332																																																																																																																																																																																																																			
5760 min Summer	1.230	0.0	3056																																																																																																																																																																																																																			
7200 min Summer	1.072	0.0	3816																																																																																																																																																																																																																			
8640 min Summer	0.964	0.0	4496																																																																																																																																																																																																																			
10080 min Summer	0.887	0.0	5240																																																																																																																																																																																																																			
15 min Winter	91.348	0.0	18																																																																																																																																																																																																																			
©1982-2020 Innovyze																																																																																																																																																																																																																						

Odyssey				Page 2	
Tuscany House		Roundstone Lane			
White Hart Lane		Angmering - 20-016			
Basingstoke RG21 4AF		SA5			
Date 12/02/2021 14:54		Designed by AK			
File Soakaway SA5.SRCX		Checked by			
Innovyze		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	0.662	0.662	0.4	6.7	O K
60 min Winter	0.799	0.799	0.5	8.1	O K
120 min Winter	0.892	0.892	0.5	9.0	O K
180 min Winter	0.913	0.913	0.5	9.2	O K
240 min Winter	0.922	0.922	0.5	9.3	O K
360 min Winter	0.910	0.910	0.5	9.2	O K
480 min Winter	0.882	0.882	0.5	8.9	O K
600 min Winter	0.850	0.850	0.5	8.6	O K
720 min Winter	0.817	0.817	0.5	8.2	O K
960 min Winter	0.756	0.756	0.4	7.6	O K
1440 min Winter	0.655	0.655	0.4	6.6	O K
2160 min Winter	0.549	0.549	0.3	5.5	O K
2880 min Winter	0.476	0.476	0.3	4.8	O K
4320 min Winter	0.385	0.385	0.2	3.9	O K
5760 min Winter	0.331	0.331	0.2	3.3	O K
7200 min Winter	0.294	0.294	0.2	3.0	O K
8640 min Winter	0.268	0.268	0.2	2.7	O K
10080 min Winter	0.249	0.249	0.1	2.5	O K
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)		
30 min Winter	59.875	0.0	32		
60 min Winter	37.884	0.0	60		
120 min Winter	23.172	0.0	116		
180 min Winter	17.181	0.0	148		
240 min Winter	13.823	0.0	184		
360 min Winter	10.096	0.0	262		
480 min Winter	8.045	0.0	336		
600 min Winter	6.737	0.0	408		
720 min Winter	5.826	0.0	478		
960 min Winter	4.633	0.0	616		
1440 min Winter	3.366	0.0	882		
2160 min Winter	2.460	0.0	1276		
2880 min Winter	1.983	0.0	1644		
4320 min Winter	1.488	0.0	2380		
5760 min Winter	1.230	0.0	3112		
7200 min Winter	1.072	0.0	3824		
8640 min Winter	0.964	0.0	4584		
10080 min Winter	0.887	0.0	5336		
©1982-2020 Innovyze					

Odyssey		Page 3
Tuscany House White Hart Lane Basingstoke RG21 4AF	Roundstone Lane Angmering - 20-016 SA5	
Date 12/02/2021 14:54 File Soakaway SA5.SRCX	Designed by AK Checked by	
Innovyze Source Control 2020.1		

Rainfall Details

Rainfall Model	FEH
Return Period (years)	10
FEH Rainfall Version	2013
Site Location	GB 507294 103462 TQ 07294 03462
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) 0.028

	Time (mins)	Area
From:	To:	(ha)
	0	4 0.028

©1982-2020 Innovyze

Odyssey		Page 4
Tuscany House White Hart Lane Basingstoke RG21 4AF	Roundstone Lane Angmering - 20-016 SA5	
Date 12/02/2021 14:54 File Soakaway SA5.SRCX	Designed by AK Checked by	
Innovyze Source Control 2020.1		

Model Details

Storage is Online Cover Level (m) 1.500

Trench Soakaway Structure

Infiltration Coefficient Base (m/hr)	0.00000	Trench Width (m)	2.1
Infiltration Coefficient Side (m/hr)	0.11340	Trench Length (m)	16.0
Safety Factor	2.0	Slope (1:X)	0.0
Porosity	0.30	Cap Volume Depth (m)	0.000
Invert Level (m)	0.000	Cap Infiltration Depth (m)	0.000

©1982-2020 Innovyze

Odyssey				Page 1																																																																																																																																																																																																																			
Tuscany House		Roundstone Lane																																																																																																																																																																																																																					
White Hart Lane		Angmering - 20-016																																																																																																																																																																																																																					
Basingstoke RG21 4AF		SA6																																																																																																																																																																																																																					
Date 11/02/2021 18:33		Designed by AK																																																																																																																																																																																																																					
File Soakaway SA6.SRCX		Checked by																																																																																																																																																																																																																					
Innovyze		Source Control 2020.1																																																																																																																																																																																																																					
<u>Summary of Results for 100 year Return Period (+40%)</u> Half Drain Time : 96 minutes. <table><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><tr><td>15 min Summer</td><td>0.887</td><td>0.887</td><td>0.2</td><td>1.6</td><td>O K</td></tr><tr><td>30 min Summer</td><td>1.131</td><td>1.131</td><td>0.2</td><td>2.0</td><td>O K</td></tr><tr><td>60 min Summer</td><td>1.309</td><td>1.309</td><td>0.3</td><td>2.4</td><td>Flood Risk</td></tr><tr><td>120 min Summer</td><td>1.326</td><td>1.326</td><td>0.3</td><td>2.4</td><td>Flood Risk</td></tr><tr><td>180 min Summer</td><td>1.311</td><td>1.311</td><td>0.3</td><td>2.4</td><td>Flood Risk</td></tr><tr><td>240 min Summer</td><td>1.281</td><td>1.281</td><td>0.3</td><td>2.3</td><td>Flood Risk</td></tr><tr><td>360 min Summer</td><td>1.205</td><td>1.205</td><td>0.3</td><td>2.2</td><td>Flood Risk</td></tr><tr><td>480 min Summer</td><td>1.129</td><td>1.129</td><td>0.2</td><td>2.0</td><td>O K</td></tr><tr><td>600 min Summer</td><td>1.061</td><td>1.061</td><td>0.2</td><td>1.9</td><td>O K</td></tr><tr><td>720 min Summer</td><td>1.000</td><td>1.000</td><td>0.2</td><td>1.8</td><td>O K</td></tr><tr><td>960 min Summer</td><td>0.900</td><td>0.900</td><td>0.2</td><td>1.6</td><td>O K</td></tr><tr><td>1440 min Summer</td><td>0.757</td><td>0.757</td><td>0.2</td><td>1.4</td><td>O K</td></tr><tr><td>2160 min Summer</td><td>0.621</td><td>0.621</td><td>0.1</td><td>1.1</td><td>O K</td></tr><tr><td>2880 min Summer</td><td>0.533</td><td>0.533</td><td>0.1</td><td>1.0</td><td>O K</td></tr><tr><td>4320 min Summer</td><td>0.425</td><td>0.425</td><td>0.1</td><td>0.8</td><td>O K</td></tr><tr><td>5760 min Summer</td><td>0.359</td><td>0.359</td><td>0.1</td><td>0.6</td><td>O K</td></tr><tr><td>7200 min Summer</td><td>0.316</td><td>0.316</td><td>0.1</td><td>0.6</td><td>O K</td></tr><tr><td>8640 min Summer</td><td>0.285</td><td>0.285</td><td>0.1</td><td>0.5</td><td>O K</td></tr><tr><td>10080 min Summer</td><td>0.262</td><td>0.262</td><td>0.1</td><td>0.5</td><td>O K</td></tr><tr><td>15 min Winter</td><td>0.995</td><td>0.995</td><td>0.2</td><td>1.8</td><td>O K</td></tr></table> <table><tr><th>Storm Event</th><th>Rain (mm/hr)</th><th>Flooded Volume (m³)</th><th>Time-Peak (mins)</th></tr><tr><td>15 min Summer</td><td>151.536</td><td>0.0</td><td>18</td></tr><tr><td>30 min Summer</td><td>101.550</td><td>0.0</td><td>32</td></tr><tr><td>60 min Summer</td><td>64.948</td><td>0.0</td><td>58</td></tr><tr><td>120 min Summer</td><td>37.629</td><td>0.0</td><td>88</td></tr><tr><td>180 min Summer</td><td>27.271</td><td>0.0</td><td>122</td></tr><tr><td>240 min Summer</td><td>21.662</td><td>0.0</td><td>156</td></tr><tr><td>360 min Summer</td><td>15.601</td><td>0.0</td><td>224</td></tr><tr><td>480 min Summer</td><td>12.341</td><td>0.0</td><td>290</td></tr><tr><td>600 min Summer</td><td>10.288</td><td>0.0</td><td>356</td></tr><tr><td>720 min Summer</td><td>8.869</td><td>0.0</td><td>420</td></tr><tr><td>960 min Summer</td><td>7.026</td><td>0.0</td><td>548</td></tr><tr><td>1440 min Summer</td><td>5.075</td><td>0.0</td><td>794</td></tr><tr><td>2160 min Summer</td><td>3.689</td><td>0.0</td><td>1164</td></tr><tr><td>2880 min Summer</td><td>2.957</td><td>0.0</td><td>1528</td></tr><tr><td>4320 min Summer</td><td>2.183</td><td>0.0</td><td>2248</td></tr><tr><td>5760 min Summer</td><td>1.776</td><td>0.0</td><td>2992</td></tr><tr><td>7200 min Summer</td><td>1.521</td><td>0.0</td><td>3680</td></tr><tr><td>8640 min Summer</td><td>1.347</td><td>0.0</td><td>4408</td></tr><tr><td>10080 min Summer</td><td>1.223</td><td>0.0</td><td>5144</td></tr><tr><td>15 min Winter</td><td>151.536</td><td>0.0</td><td>18</td></tr></table>						Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status	15 min Summer	0.887	0.887	0.2	1.6	O K	30 min Summer	1.131	1.131	0.2	2.0	O K	60 min Summer	1.309	1.309	0.3	2.4	Flood Risk	120 min Summer	1.326	1.326	0.3	2.4	Flood Risk	180 min Summer	1.311	1.311	0.3	2.4	Flood Risk	240 min Summer	1.281	1.281	0.3	2.3	Flood Risk	360 min Summer	1.205	1.205	0.3	2.2	Flood Risk	480 min Summer	1.129	1.129	0.2	2.0	O K	600 min Summer	1.061	1.061	0.2	1.9	O K	720 min Summer	1.000	1.000	0.2	1.8	O K	960 min Summer	0.900	0.900	0.2	1.6	O K	1440 min Summer	0.757	0.757	0.2	1.4	O K	2160 min Summer	0.621	0.621	0.1	1.1	O K	2880 min Summer	0.533	0.533	0.1	1.0	O K	4320 min Summer	0.425	0.425	0.1	0.8	O K	5760 min Summer	0.359	0.359	0.1	0.6	O K	7200 min Summer	0.316	0.316	0.1	0.6	O K	8640 min Summer	0.285	0.285	0.1	0.5	O K	10080 min Summer	0.262	0.262	0.1	0.5	O K	15 min Winter	0.995	0.995	0.2	1.8	O K	Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)	15 min Summer	151.536	0.0	18	30 min Summer	101.550	0.0	32	60 min Summer	64.948	0.0	58	120 min Summer	37.629	0.0	88	180 min Summer	27.271	0.0	122	240 min Summer	21.662	0.0	156	360 min Summer	15.601	0.0	224	480 min Summer	12.341	0.0	290	600 min Summer	10.288	0.0	356	720 min Summer	8.869	0.0	420	960 min Summer	7.026	0.0	548	1440 min Summer	5.075	0.0	794	2160 min Summer	3.689	0.0	1164	2880 min Summer	2.957	0.0	1528	4320 min Summer	2.183	0.0	2248	5760 min Summer	1.776	0.0	2992	7200 min Summer	1.521	0.0	3680	8640 min Summer	1.347	0.0	4408	10080 min Summer	1.223	0.0	5144	15 min Winter	151.536	0.0	18
Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status																																																																																																																																																																																																																		
15 min Summer	0.887	0.887	0.2	1.6	O K																																																																																																																																																																																																																		
30 min Summer	1.131	1.131	0.2	2.0	O K																																																																																																																																																																																																																		
60 min Summer	1.309	1.309	0.3	2.4	Flood Risk																																																																																																																																																																																																																		
120 min Summer	1.326	1.326	0.3	2.4	Flood Risk																																																																																																																																																																																																																		
180 min Summer	1.311	1.311	0.3	2.4	Flood Risk																																																																																																																																																																																																																		
240 min Summer	1.281	1.281	0.3	2.3	Flood Risk																																																																																																																																																																																																																		
360 min Summer	1.205	1.205	0.3	2.2	Flood Risk																																																																																																																																																																																																																		
480 min Summer	1.129	1.129	0.2	2.0	O K																																																																																																																																																																																																																		
600 min Summer	1.061	1.061	0.2	1.9	O K																																																																																																																																																																																																																		
720 min Summer	1.000	1.000	0.2	1.8	O K																																																																																																																																																																																																																		
960 min Summer	0.900	0.900	0.2	1.6	O K																																																																																																																																																																																																																		
1440 min Summer	0.757	0.757	0.2	1.4	O K																																																																																																																																																																																																																		
2160 min Summer	0.621	0.621	0.1	1.1	O K																																																																																																																																																																																																																		
2880 min Summer	0.533	0.533	0.1	1.0	O K																																																																																																																																																																																																																		
4320 min Summer	0.425	0.425	0.1	0.8	O K																																																																																																																																																																																																																		
5760 min Summer	0.359	0.359	0.1	0.6	O K																																																																																																																																																																																																																		
7200 min Summer	0.316	0.316	0.1	0.6	O K																																																																																																																																																																																																																		
8640 min Summer	0.285	0.285	0.1	0.5	O K																																																																																																																																																																																																																		
10080 min Summer	0.262	0.262	0.1	0.5	O K																																																																																																																																																																																																																		
15 min Winter	0.995	0.995	0.2	1.8	O K																																																																																																																																																																																																																		
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)																																																																																																																																																																																																																				
15 min Summer	151.536	0.0	18																																																																																																																																																																																																																				
30 min Summer	101.550	0.0	32																																																																																																																																																																																																																				
60 min Summer	64.948	0.0	58																																																																																																																																																																																																																				
120 min Summer	37.629	0.0	88																																																																																																																																																																																																																				
180 min Summer	27.271	0.0	122																																																																																																																																																																																																																				
240 min Summer	21.662	0.0	156																																																																																																																																																																																																																				
360 min Summer	15.601	0.0	224																																																																																																																																																																																																																				
480 min Summer	12.341	0.0	290																																																																																																																																																																																																																				
600 min Summer	10.288	0.0	356																																																																																																																																																																																																																				
720 min Summer	8.869	0.0	420																																																																																																																																																																																																																				
960 min Summer	7.026	0.0	548																																																																																																																																																																																																																				
1440 min Summer	5.075	0.0	794																																																																																																																																																																																																																				
2160 min Summer	3.689	0.0	1164																																																																																																																																																																																																																				
2880 min Summer	2.957	0.0	1528																																																																																																																																																																																																																				
4320 min Summer	2.183	0.0	2248																																																																																																																																																																																																																				
5760 min Summer	1.776	0.0	2992																																																																																																																																																																																																																				
7200 min Summer	1.521	0.0	3680																																																																																																																																																																																																																				
8640 min Summer	1.347	0.0	4408																																																																																																																																																																																																																				
10080 min Summer	1.223	0.0	5144																																																																																																																																																																																																																				
15 min Winter	151.536	0.0	18																																																																																																																																																																																																																				
©1982-2020 Innovyze																																																																																																																																																																																																																							

Odyssey				Page 2	
Tuscany House		Roundstone Lane			
White Hart Lane		Angmering - 20-016			
Basingstoke RG21 4AF		SA6			
Date 11/02/2021 18:33		Designed by AK			
File Soakaway SA6.SRCX		Checked by			
Innovyze		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	1.271	1.271	0.3	2.3	Flood Risk
60 min Winter	1.477	1.477	0.3	2.7	Flood Risk
120 min Winter	1.478	1.478	0.3	2.7	Flood Risk
180 min Winter	1.440	1.440	0.3	2.6	Flood Risk
240 min Winter	1.385	1.385	0.3	2.5	Flood Risk
360 min Winter	1.266	1.266	0.3	2.3	Flood Risk
480 min Winter	1.158	1.158	0.3	2.1	O K
600 min Winter	1.066	1.066	0.2	1.9	O K
720 min Winter	0.986	0.986	0.2	1.8	O K
960 min Winter	0.859	0.859	0.2	1.5	O K
1440 min Winter	0.687	0.687	0.2	1.2	O K
2160 min Winter	0.536	0.536	0.1	1.0	O K
2880 min Winter	0.444	0.444	0.1	0.8	O K
4320 min Winter	0.338	0.338	0.1	0.6	O K
5760 min Winter	0.279	0.279	0.1	0.5	O K
7200 min Winter	0.240	0.240	0.1	0.4	O K
8640 min Winter	0.214	0.214	0.0	0.4	O K
10080 min Winter	0.195	0.195	0.0	0.4	O K
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)		
30 min Winter	101.550	0.0	31		
60 min Winter	64.948	0.0	58		
120 min Winter	37.629	0.0	92		
180 min Winter	27.271	0.0	130		
240 min Winter	21.662	0.0	168		
360 min Winter	15.601	0.0	238		
480 min Winter	12.341	0.0	306		
600 min Winter	10.288	0.0	374		
720 min Winter	8.869	0.0	440		
960 min Winter	7.026	0.0	568		
1440 min Winter	5.075	0.0	822		
2160 min Winter	3.689	0.0	1188		
2880 min Winter	2.957	0.0	1556		
4320 min Winter	2.183	0.0	2288		
5760 min Winter	1.776	0.0	3000		
7200 min Winter	1.521	0.0	3744		
8640 min Winter	1.347	0.0	4416		
10080 min Winter	1.223	0.0	5144		
©1982-2020 Innovyze					

Odyssey		Page 3																														
Tuscany House	Roundstone Lane																															
White Hart Lane	Angmering - 20-016																															
Basingstoke RG21 4AF	SA6																															
Date 11/02/2021 18:33	Designed by AK																															
File Soakaway SA6.SRCX	Checked by																															
Innovyze	Source Control 2020.1																															
<u>Rainfall Details</u> <table> <tr> <td>Rainfall Model</td> <td>FEH</td> </tr> <tr> <td>Return Period (years)</td> <td>100</td> </tr> <tr> <td>FEH Rainfall Version</td> <td>2013</td> </tr> <tr> <td>Site Location</td> <td>GB 507294 103462 TQ 07294 03462</td> </tr> <tr> <td>Data Type</td> <td>Point</td> </tr> <tr> <td>Summer Storms</td> <td>Yes</td> </tr> <tr> <td>Winter Storms</td> <td>Yes</td> </tr> <tr> <td>Cv (Summer)</td> <td>0.750</td> </tr> <tr> <td>Cv (Winter)</td> <td>0.840</td> </tr> <tr> <td>Shortest Storm (mins)</td> <td>15</td> </tr> <tr> <td>Longest Storm (mins)</td> <td>10080</td> </tr> <tr> <td>Climate Change %</td> <td>+40</td> </tr> </table> <u>Time Area Diagram</u> Total Area (ha) 0.006 <table> <thead> <tr> <th>Time (mins)</th> <th>Area</th> </tr> <tr> <th>From:</th> <th>To: (ha)</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>4 0.006</td> </tr> </tbody> </table>			Rainfall Model	FEH	Return Period (years)	100	FEH Rainfall Version	2013	Site Location	GB 507294 103462 TQ 07294 03462	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 (mins)	Area	From:	To: (ha)	0	4 0.006
Rainfall Model	FEH																															
Return Period (years)	100																															
FEH Rainfall Version	2013																															
Site Location	GB 507294 103462 TQ 07294 03462																															
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 (mins)	Area																															
From:	To: (ha)																															
0	4 0.006																															
©1982-2020 Innovyze																																

Odyssey		Page 4
Tuscany House White Hart Lane Basingstoke RG21 4AF	Roundstone Lane Angmering - 20-016 SA6	
Date 11/02/2021 18:33 File Soakaway SA6.SRCX	Designed by AK Checked by	
Innovyze Source Control 2020.1		

Model Details

Storage is Online Cover Level (m) 1.500

Trench Soakaway Structure

Infiltration Coefficient Base (m/hr)	0.00000	Trench Width (m)	1.0
Infiltration Coefficient Side (m/hr)	0.11340	Trench Length (m)	6.0
Safety Factor	2.0	Slope (1:X)	0.0
Porosity	0.30	Cap Volume Depth (m)	0.000
Invert Level (m)	0.000	Cap Infiltration Depth (m)	0.000

©1982-2020 Innovyze

Odyssey				Page 1																																																																																																																																																																																																																			
Tuscany House		Roundstone Lane																																																																																																																																																																																																																					
White Hart Lane		Angmering - 20-016																																																																																																																																																																																																																					
Basingstoke RG21 4AF		SA6																																																																																																																																																																																																																					
Date 12/02/2021 14:55		Designed by AK																																																																																																																																																																																																																					
File Soakaway SA6.SRCX		Checked by																																																																																																																																																																																																																					
Innovyze		Source Control 2020.1																																																																																																																																																																																																																					
<u>Summary of Results for 10 year Return Period (+40%)</u> Half Drain Time : 96 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>0.535</td><td>0.535</td><td>0.1</td><td>1.0</td><td>O K</td></tr><tr><td>30 min Summer</td><td>0.667</td><td>0.667</td><td>0.1</td><td>1.2</td><td>O K</td></tr><tr><td>60 min Summer</td><td>0.763</td><td>0.763</td><td>0.2</td><td>1.4</td><td>O K</td></tr><tr><td>120 min Summer</td><td>0.816</td><td>0.816</td><td>0.2</td><td>1.5</td><td>O K</td></tr><tr><td>180 min Summer</td><td>0.826</td><td>0.826</td><td>0.2</td><td>1.5</td><td>O K</td></tr><tr><td>240 min Summer</td><td>0.817</td><td>0.817</td><td>0.2</td><td>1.5</td><td>O K</td></tr><tr><td>360 min Summer</td><td>0.780</td><td>0.780</td><td>0.2</td><td>1.4</td><td>O K</td></tr><tr><td>480 min Summer</td><td>0.736</td><td>0.736</td><td>0.2</td><td>1.3</td><td>O K</td></tr><tr><td>600 min Summer</td><td>0.695</td><td>0.695</td><td>0.2</td><td>1.3</td><td>O K</td></tr><tr><td>720 min Summer</td><td>0.657</td><td>0.657</td><td>0.1</td><td>1.2</td><td>O K</td></tr><tr><td>960 min Summer</td><td>0.593</td><td>0.593</td><td>0.1</td><td>1.1</td><td>O K</td></tr><tr><td>1440 min Summer</td><td>0.502</td><td>0.502</td><td>0.1</td><td>0.9</td><td>O K</td></tr><tr><td>2160 min Summer</td><td>0.414</td><td>0.414</td><td>0.1</td><td>0.7</td><td>O K</td></tr><tr><td>2880 min Summer</td><td>0.358</td><td>0.358</td><td>0.1</td><td>0.6</td><td>O K</td></tr><tr><td>4320 min Summer</td><td>0.290</td><td>0.290</td><td>0.1</td><td>0.5</td><td>O K</td></tr><tr><td>5760 min Summer</td><td>0.249</td><td>0.249</td><td>0.1</td><td>0.4</td><td>O K</td></tr><tr><td>7200 min Summer</td><td>0.223</td><td>0.223</td><td>0.0</td><td>0.4</td><td>O K</td></tr><tr><td>8640 min Summer</td><td>0.204</td><td>0.204</td><td>0.0</td><td>0.4</td><td>O K</td></tr><tr><td>10080 min Summer</td><td>0.190</td><td>0.190</td><td>0.0</td><td>0.3</td><td>O K</td></tr><tr><td>15 min Winter</td><td>0.600</td><td>0.600</td><td>0.1</td><td>1.1</td><td>O K</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>91.348</td><td>0.0</td><td>18</td></tr><tr><td>30 min Summer</td><td>59.875</td><td>0.0</td><td>32</td></tr><tr><td>60 min Summer</td><td>37.884</td><td>0.0</td><td>58</td></tr><tr><td>120 min Summer</td><td>23.172</td><td>0.0</td><td>88</td></tr><tr><td>180 min Summer</td><td>17.181</td><td>0.0</td><td>122</td></tr><tr><td>240 min Summer</td><td>13.823</td><td>0.0</td><td>156</td></tr><tr><td>360 min Summer</td><td>10.096</td><td>0.0</td><td>224</td></tr><tr><td>480 min Summer</td><td>8.045</td><td>0.0</td><td>290</td></tr><tr><td>600 min Summer</td><td>6.737</td><td>0.0</td><td>356</td></tr><tr><td>720 min Summer</td><td>5.826</td><td>0.0</td><td>420</td></tr><tr><td>960 min Summer</td><td>4.633</td><td>0.0</td><td>548</td></tr><tr><td>1440 min Summer</td><td>3.366</td><td>0.0</td><td>794</td></tr><tr><td>2160 min Summer</td><td>2.460</td><td>0.0</td><td>1164</td></tr><tr><td>2880 min Summer</td><td>1.983</td><td>0.0</td><td>1528</td></tr><tr><td>4320 min Summer</td><td>1.488</td><td>0.0</td><td>2248</td></tr><tr><td>5760 min Summer</td><td>1.230</td><td>0.0</td><td>2992</td></tr><tr><td>7200 min Summer</td><td>1.072</td><td>0.0</td><td>3680</td></tr><tr><td>8640 min Summer</td><td>0.964</td><td>0.0</td><td>4408</td></tr><tr><td>10080 min Summer</td><td>0.887</td><td>0.0</td><td>5144</td></tr><tr><td>15 min Winter</td><td>91.348</td><td>0.0</td><td>18</td></tr></tbody></table>						Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status	15 min Summer	0.535	0.535	0.1	1.0	O K	30 min Summer	0.667	0.667	0.1	1.2	O K	60 min Summer	0.763	0.763	0.2	1.4	O K	120 min Summer	0.816	0.816	0.2	1.5	O K	180 min Summer	0.826	0.826	0.2	1.5	O K	240 min Summer	0.817	0.817	0.2	1.5	O K	360 min Summer	0.780	0.780	0.2	1.4	O K	480 min Summer	0.736	0.736	0.2	1.3	O K	600 min Summer	0.695	0.695	0.2	1.3	O K	720 min Summer	0.657	0.657	0.1	1.2	O K	960 min Summer	0.593	0.593	0.1	1.1	O K	1440 min Summer	0.502	0.502	0.1	0.9	O K	2160 min Summer	0.414	0.414	0.1	0.7	O K	2880 min Summer	0.358	0.358	0.1	0.6	O K	4320 min Summer	0.290	0.290	0.1	0.5	O K	5760 min Summer	0.249	0.249	0.1	0.4	O K	7200 min Summer	0.223	0.223	0.0	0.4	O K	8640 min Summer	0.204	0.204	0.0	0.4	O K	10080 min Summer	0.190	0.190	0.0	0.3	O K	15 min Winter	0.600	0.600	0.1	1.1	O K	Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)	15 min Summer	91.348	0.0	18	30 min Summer	59.875	0.0	32	60 min Summer	37.884	0.0	58	120 min Summer	23.172	0.0	88	180 min Summer	17.181	0.0	122	240 min Summer	13.823	0.0	156	360 min Summer	10.096	0.0	224	480 min Summer	8.045	0.0	290	600 min Summer	6.737	0.0	356	720 min Summer	5.826	0.0	420	960 min Summer	4.633	0.0	548	1440 min Summer	3.366	0.0	794	2160 min Summer	2.460	0.0	1164	2880 min Summer	1.983	0.0	1528	4320 min Summer	1.488	0.0	2248	5760 min Summer	1.230	0.0	2992	7200 min Summer	1.072	0.0	3680	8640 min Summer	0.964	0.0	4408	10080 min Summer	0.887	0.0	5144	15 min Winter	91.348	0.0	18
Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status																																																																																																																																																																																																																		
15 min Summer	0.535	0.535	0.1	1.0	O K																																																																																																																																																																																																																		
30 min Summer	0.667	0.667	0.1	1.2	O K																																																																																																																																																																																																																		
60 min Summer	0.763	0.763	0.2	1.4	O K																																																																																																																																																																																																																		
120 min Summer	0.816	0.816	0.2	1.5	O K																																																																																																																																																																																																																		
180 min Summer	0.826	0.826	0.2	1.5	O K																																																																																																																																																																																																																		
240 min Summer	0.817	0.817	0.2	1.5	O K																																																																																																																																																																																																																		
360 min Summer	0.780	0.780	0.2	1.4	O K																																																																																																																																																																																																																		
480 min Summer	0.736	0.736	0.2	1.3	O K																																																																																																																																																																																																																		
600 min Summer	0.695	0.695	0.2	1.3	O K																																																																																																																																																																																																																		
720 min Summer	0.657	0.657	0.1	1.2	O K																																																																																																																																																																																																																		
960 min Summer	0.593	0.593	0.1	1.1	O K																																																																																																																																																																																																																		
1440 min Summer	0.502	0.502	0.1	0.9	O K																																																																																																																																																																																																																		
2160 min Summer	0.414	0.414	0.1	0.7	O K																																																																																																																																																																																																																		
2880 min Summer	0.358	0.358	0.1	0.6	O K																																																																																																																																																																																																																		
4320 min Summer	0.290	0.290	0.1	0.5	O K																																																																																																																																																																																																																		
5760 min Summer	0.249	0.249	0.1	0.4	O K																																																																																																																																																																																																																		
7200 min Summer	0.223	0.223	0.0	0.4	O K																																																																																																																																																																																																																		
8640 min Summer	0.204	0.204	0.0	0.4	O K																																																																																																																																																																																																																		
10080 min Summer	0.190	0.190	0.0	0.3	O K																																																																																																																																																																																																																		
15 min Winter	0.600	0.600	0.1	1.1	O K																																																																																																																																																																																																																		
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)																																																																																																																																																																																																																				
15 min Summer	91.348	0.0	18																																																																																																																																																																																																																				
30 min Summer	59.875	0.0	32																																																																																																																																																																																																																				
60 min Summer	37.884	0.0	58																																																																																																																																																																																																																				
120 min Summer	23.172	0.0	88																																																																																																																																																																																																																				
180 min Summer	17.181	0.0	122																																																																																																																																																																																																																				
240 min Summer	13.823	0.0	156																																																																																																																																																																																																																				
360 min Summer	10.096	0.0	224																																																																																																																																																																																																																				
480 min Summer	8.045	0.0	290																																																																																																																																																																																																																				
600 min Summer	6.737	0.0	356																																																																																																																																																																																																																				
720 min Summer	5.826	0.0	420																																																																																																																																																																																																																				
960 min Summer	4.633	0.0	548																																																																																																																																																																																																																				
1440 min Summer	3.366	0.0	794																																																																																																																																																																																																																				
2160 min Summer	2.460	0.0	1164																																																																																																																																																																																																																				
2880 min Summer	1.983	0.0	1528																																																																																																																																																																																																																				
4320 min Summer	1.488	0.0	2248																																																																																																																																																																																																																				
5760 min Summer	1.230	0.0	2992																																																																																																																																																																																																																				
7200 min Summer	1.072	0.0	3680																																																																																																																																																																																																																				
8640 min Summer	0.964	0.0	4408																																																																																																																																																																																																																				
10080 min Summer	0.887	0.0	5144																																																																																																																																																																																																																				
15 min Winter	91.348	0.0	18																																																																																																																																																																																																																				
©1982-2020 Innovyze																																																																																																																																																																																																																							

Odyssey				Page 2	
Tuscany House		Roundstone Lane			
White Hart Lane		Angmering - 20-016			
Basingstoke RG21 4AF		SA6			
Date 12/02/2021 14:55		Designed by AK			
File Soakaway SA6.SRCX		Checked by			
Innovyze		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	0.750	0.750	0.2	1.3	O K
60 min Winter	0.862	0.862	0.2	1.6	O K
120 min Winter	0.910	0.910	0.2	1.6	O K
180 min Winter	0.907	0.907	0.2	1.6	O K
240 min Winter	0.884	0.884	0.2	1.6	O K
360 min Winter	0.819	0.819	0.2	1.5	O K
480 min Winter	0.755	0.755	0.2	1.4	O K
600 min Winter	0.698	0.698	0.2	1.3	O K
720 min Winter	0.648	0.648	0.1	1.2	O K
960 min Winter	0.566	0.566	0.1	1.0	O K
1440 min Winter	0.456	0.456	0.1	0.8	O K
2160 min Winter	0.357	0.357	0.1	0.6	O K
2880 min Winter	0.298	0.298	0.1	0.5	O K
4320 min Winter	0.230	0.230	0.1	0.4	O K
5760 min Winter	0.193	0.193	0.0	0.3	O K
7200 min Winter	0.169	0.169	0.0	0.3	O K
8640 min Winter	0.153	0.153	0.0	0.3	O K
10080 min Winter	0.141	0.141	0.0	0.3	O K
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)		
30 min Winter	59.875	0.0	31		
60 min Winter	37.884	0.0	58		
120 min Winter	23.172	0.0	92		
180 min Winter	17.181	0.0	130		
240 min Winter	13.823	0.0	168		
360 min Winter	10.096	0.0	238		
480 min Winter	8.045	0.0	306		
600 min Winter	6.737	0.0	374		
720 min Winter	5.826	0.0	440		
960 min Winter	4.633	0.0	568		
1440 min Winter	3.366	0.0	822		
2160 min Winter	2.460	0.0	1188		
2880 min Winter	1.983	0.0	1556		
4320 min Winter	1.488	0.0	2288		
5760 min Winter	1.230	0.0	3000		
7200 min Winter	1.072	0.0	3744		
8640 min Winter	0.964	0.0	4416		
10080 min Winter	0.887	0.0	5144		
©1982-2020 Innovyze					

Odyssey		Page 3																														
Tuscany House White Hart Lane Basingstoke RG21 4AF	Roundstone Lane Angmering - 20-016 SA6																															
Date 12/02/2021 14:55 File Soakaway SA6.SRCX	Designed by AK Checked by																															
Innovyze		Source Control 2020.1																														
<u>Rainfall Details</u> <table> <tr> <td>Rainfall Model</td> <td>FEH</td> </tr> <tr> <td>Return Period (years)</td> <td>10</td> </tr> <tr> <td>FEH Rainfall Version</td> <td>2013</td> </tr> <tr> <td>Site Location</td> <td>GB 507294 103462 TQ 07294 03462</td> </tr> <tr> <td>Data Type</td> <td>Point</td> </tr> <tr> <td>Summer Storms</td> <td>Yes</td> </tr> <tr> <td>Winter Storms</td> <td>Yes</td> </tr> <tr> <td>Cv (Summer)</td> <td>0.750</td> </tr> <tr> <td>Cv (Winter)</td> <td>0.840</td> </tr> <tr> <td>Shortest Storm (mins)</td> <td>15</td> </tr> <tr> <td>Longest Storm (mins)</td> <td>10080</td> </tr> <tr> <td>Climate Change %</td> <td>+40</td> </tr> </table> <u>Time Area Diagram</u> Total Area (ha) 0.006 <table> <thead> <tr> <th>Time (mins)</th> <th>Area</th> </tr> <tr> <th>From:</th> <th>To: (ha)</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>4 0.006</td> </tr> </tbody> </table>			Rainfall Model	FEH	Return Period (years)	10	FEH Rainfall Version	2013	Site Location	GB 507294 103462 TQ 07294 03462	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 (mins)	Area	From:	To: (ha)	0	4 0.006
Rainfall Model	FEH																															
Return Period (years)	10																															
FEH Rainfall Version	2013																															
Site Location	GB 507294 103462 TQ 07294 03462																															
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 (mins)	Area																															
From:	To: (ha)																															
0	4 0.006																															
©1982-2020 Innovyze																																

Odyssey		Page 4
Tuscany House White Hart Lane Basingstoke RG21 4AF	Roundstone Lane Angmering - 20-016 SA6	
Date 12/02/2021 14:55 File Soakaway SA6.SRCX	Designed by AK Checked by	
Innovyze Source Control 2020.1		

Model Details

Storage is Online Cover Level (m) 1.500

Trench Soakaway Structure

Infiltration Coefficient Base (m/hr)	0.00000	Trench Width (m)	1.0
Infiltration Coefficient Side (m/hr)	0.11340	Trench Length (m)	6.0
Safety Factor	2.0	Slope (1:X)	0.0
Porosity	0.30	Cap Volume Depth (m)	0.000
Invert Level (m)	0.000	Cap Infiltration Depth (m)	0.000

©1982-2020 Innovyze

Odyssey				Page 1																																																																																																																																																																																																																			
Tuscany House		Roundstone Lane																																																																																																																																																																																																																					
White Hart Lane		Angmering - 20-016																																																																																																																																																																																																																					
Basingstoke RG21 4AF		SA7																																																																																																																																																																																																																					
Date 11/02/2021 18:33		Designed by AK																																																																																																																																																																																																																					
File Soakaway SA7.SRCX		Checked by																																																																																																																																																																																																																					
Innovyze		Source Control 2020.1																																																																																																																																																																																																																					
Summary of Results for 100 year Return Period (+40%) Half Drain Time : 263 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>0.719</td><td>0.719</td><td>0.3</td><td>7.8</td><td>O K</td></tr><tr><td>30 min Summer</td><td>0.945</td><td>0.945</td><td>0.4</td><td>10.2</td><td>O K</td></tr><tr><td>60 min Summer</td><td>1.164</td><td>1.164</td><td>0.6</td><td>12.6</td><td>O K</td></tr><tr><td>120 min Summer</td><td>1.251</td><td>1.251</td><td>0.6</td><td>13.5</td><td>Flood Risk</td></tr><tr><td>180 min Summer</td><td>1.266</td><td>1.266</td><td>0.6</td><td>13.7</td><td>Flood Risk</td></tr><tr><td>240 min Summer</td><td>1.270</td><td>1.270</td><td>0.6</td><td>13.7</td><td>Flood Risk</td></tr><tr><td>360 min Summer</td><td>1.264</td><td>1.264</td><td>0.6</td><td>13.7</td><td>Flood Risk</td></tr><tr><td>480 min Summer</td><td>1.246</td><td>1.246</td><td>0.6</td><td>13.5</td><td>Flood Risk</td></tr><tr><td>600 min Summer</td><td>1.223</td><td>1.223</td><td>0.6</td><td>13.2</td><td>Flood Risk</td></tr><tr><td>720 min Summer</td><td>1.198</td><td>1.198</td><td>0.6</td><td>12.9</td><td>O K</td></tr><tr><td>960 min Summer</td><td>1.146</td><td>1.146</td><td>0.5</td><td>12.4</td><td>O K</td></tr><tr><td>1440 min Summer</td><td>1.051</td><td>1.051</td><td>0.5</td><td>11.3</td><td>O K</td></tr><tr><td>2160 min Summer</td><td>0.935</td><td>0.935</td><td>0.4</td><td>10.1</td><td>O K</td></tr><tr><td>2880 min Summer</td><td>0.848</td><td>0.848</td><td>0.4</td><td>9.2</td><td>O K</td></tr><tr><td>4320 min Summer</td><td>0.725</td><td>0.725</td><td>0.3</td><td>7.8</td><td>O K</td></tr><tr><td>5760 min Summer</td><td>0.643</td><td>0.643</td><td>0.3</td><td>6.9</td><td>O K</td></tr><tr><td>7200 min Summer</td><td>0.583</td><td>0.583</td><td>0.3</td><td>6.3</td><td>O K</td></tr><tr><td>8640 min Summer</td><td>0.537</td><td>0.537</td><td>0.3</td><td>5.8</td><td>O K</td></tr><tr><td>10080 min Summer</td><td>0.502</td><td>0.502</td><td>0.2</td><td>5.4</td><td>O K</td></tr><tr><td>15 min Winter</td><td>0.805</td><td>0.805</td><td>0.4</td><td>8.7</td><td>O K</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>151.536</td><td>0.0</td><td>19</td></tr><tr><td>30 min Summer</td><td>101.550</td><td>0.0</td><td>33</td></tr><tr><td>60 min Summer</td><td>64.948</td><td>0.0</td><td>62</td></tr><tr><td>120 min Summer</td><td>37.629</td><td>0.0</td><td>120</td></tr><tr><td>180 min Summer</td><td>27.271</td><td>0.0</td><td>162</td></tr><tr><td>240 min Summer</td><td>21.662</td><td>0.0</td><td>190</td></tr><tr><td>360 min Summer</td><td>15.601</td><td>0.0</td><td>254</td></tr><tr><td>480 min Summer</td><td>12.341</td><td>0.0</td><td>324</td></tr><tr><td>600 min Summer</td><td>10.288</td><td>0.0</td><td>392</td></tr><tr><td>720 min Summer</td><td>8.869</td><td>0.0</td><td>460</td></tr><tr><td>960 min Summer</td><td>7.026</td><td>0.0</td><td>596</td></tr><tr><td>1440 min Summer</td><td>5.075</td><td>0.0</td><td>864</td></tr><tr><td>2160 min Summer</td><td>3.689</td><td>0.0</td><td>1252</td></tr><tr><td>2880 min Summer</td><td>2.957</td><td>0.0</td><td>1616</td></tr><tr><td>4320 min Summer</td><td>2.183</td><td>0.0</td><td>2376</td></tr><tr><td>5760 min Summer</td><td>1.776</td><td>0.0</td><td>3112</td></tr><tr><td>7200 min Summer</td><td>1.521</td><td>0.0</td><td>3824</td></tr><tr><td>8640 min Summer</td><td>1.347</td><td>0.0</td><td>4576</td></tr><tr><td>10080 min Summer</td><td>1.223</td><td>0.0</td><td>5248</td></tr><tr><td>15 min Winter</td><td>151.536</td><td>0.0</td><td>18</td></tr></tbody></table>						Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status	15 min Summer	0.719	0.719	0.3	7.8	O K	30 min Summer	0.945	0.945	0.4	10.2	O K	60 min Summer	1.164	1.164	0.6	12.6	O K	120 min Summer	1.251	1.251	0.6	13.5	Flood Risk	180 min Summer	1.266	1.266	0.6	13.7	Flood Risk	240 min Summer	1.270	1.270	0.6	13.7	Flood Risk	360 min Summer	1.264	1.264	0.6	13.7	Flood Risk	480 min Summer	1.246	1.246	0.6	13.5	Flood Risk	600 min Summer	1.223	1.223	0.6	13.2	Flood Risk	720 min Summer	1.198	1.198	0.6	12.9	O K	960 min Summer	1.146	1.146	0.5	12.4	O K	1440 min Summer	1.051	1.051	0.5	11.3	O K	2160 min Summer	0.935	0.935	0.4	10.1	O K	2880 min Summer	0.848	0.848	0.4	9.2	O K	4320 min Summer	0.725	0.725	0.3	7.8	O K	5760 min Summer	0.643	0.643	0.3	6.9	O K	7200 min Summer	0.583	0.583	0.3	6.3	O K	8640 min Summer	0.537	0.537	0.3	5.8	O K	10080 min Summer	0.502	0.502	0.2	5.4	O K	15 min Winter	0.805	0.805	0.4	8.7	O K	Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)	15 min Summer	151.536	0.0	19	30 min Summer	101.550	0.0	33	60 min Summer	64.948	0.0	62	120 min Summer	37.629	0.0	120	180 min Summer	27.271	0.0	162	240 min Summer	21.662	0.0	190	360 min Summer	15.601	0.0	254	480 min Summer	12.341	0.0	324	600 min Summer	10.288	0.0	392	720 min Summer	8.869	0.0	460	960 min Summer	7.026	0.0	596	1440 min Summer	5.075	0.0	864	2160 min Summer	3.689	0.0	1252	2880 min Summer	2.957	0.0	1616	4320 min Summer	2.183	0.0	2376	5760 min Summer	1.776	0.0	3112	7200 min Summer	1.521	0.0	3824	8640 min Summer	1.347	0.0	4576	10080 min Summer	1.223	0.0	5248	15 min Winter	151.536	0.0	18
Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status																																																																																																																																																																																																																		
15 min Summer	0.719	0.719	0.3	7.8	O K																																																																																																																																																																																																																		
30 min Summer	0.945	0.945	0.4	10.2	O K																																																																																																																																																																																																																		
60 min Summer	1.164	1.164	0.6	12.6	O K																																																																																																																																																																																																																		
120 min Summer	1.251	1.251	0.6	13.5	Flood Risk																																																																																																																																																																																																																		
180 min Summer	1.266	1.266	0.6	13.7	Flood Risk																																																																																																																																																																																																																		
240 min Summer	1.270	1.270	0.6	13.7	Flood Risk																																																																																																																																																																																																																		
360 min Summer	1.264	1.264	0.6	13.7	Flood Risk																																																																																																																																																																																																																		
480 min Summer	1.246	1.246	0.6	13.5	Flood Risk																																																																																																																																																																																																																		
600 min Summer	1.223	1.223	0.6	13.2	Flood Risk																																																																																																																																																																																																																		
720 min Summer	1.198	1.198	0.6	12.9	O K																																																																																																																																																																																																																		
960 min Summer	1.146	1.146	0.5	12.4	O K																																																																																																																																																																																																																		
1440 min Summer	1.051	1.051	0.5	11.3	O K																																																																																																																																																																																																																		
2160 min Summer	0.935	0.935	0.4	10.1	O K																																																																																																																																																																																																																		
2880 min Summer	0.848	0.848	0.4	9.2	O K																																																																																																																																																																																																																		
4320 min Summer	0.725	0.725	0.3	7.8	O K																																																																																																																																																																																																																		
5760 min Summer	0.643	0.643	0.3	6.9	O K																																																																																																																																																																																																																		
7200 min Summer	0.583	0.583	0.3	6.3	O K																																																																																																																																																																																																																		
8640 min Summer	0.537	0.537	0.3	5.8	O K																																																																																																																																																																																																																		
10080 min Summer	0.502	0.502	0.2	5.4	O K																																																																																																																																																																																																																		
15 min Winter	0.805	0.805	0.4	8.7	O K																																																																																																																																																																																																																		
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)																																																																																																																																																																																																																				
15 min Summer	151.536	0.0	19																																																																																																																																																																																																																				
30 min Summer	101.550	0.0	33																																																																																																																																																																																																																				
60 min Summer	64.948	0.0	62																																																																																																																																																																																																																				
120 min Summer	37.629	0.0	120																																																																																																																																																																																																																				
180 min Summer	27.271	0.0	162																																																																																																																																																																																																																				
240 min Summer	21.662	0.0	190																																																																																																																																																																																																																				
360 min Summer	15.601	0.0	254																																																																																																																																																																																																																				
480 min Summer	12.341	0.0	324																																																																																																																																																																																																																				
600 min Summer	10.288	0.0	392																																																																																																																																																																																																																				
720 min Summer	8.869	0.0	460																																																																																																																																																																																																																				
960 min Summer	7.026	0.0	596																																																																																																																																																																																																																				
1440 min Summer	5.075	0.0	864																																																																																																																																																																																																																				
2160 min Summer	3.689	0.0	1252																																																																																																																																																																																																																				
2880 min Summer	2.957	0.0	1616																																																																																																																																																																																																																				
4320 min Summer	2.183	0.0	2376																																																																																																																																																																																																																				
5760 min Summer	1.776	0.0	3112																																																																																																																																																																																																																				
7200 min Summer	1.521	0.0	3824																																																																																																																																																																																																																				
8640 min Summer	1.347	0.0	4576																																																																																																																																																																																																																				
10080 min Summer	1.223	0.0	5248																																																																																																																																																																																																																				
15 min Winter	151.536	0.0	18																																																																																																																																																																																																																				
©1982-2020 Innovyze																																																																																																																																																																																																																							

Odyssey				Page 2	
Tuscany House		Roundstone Lane			
White Hart Lane		Angmering - 20-016			
Basingstoke RG21 4AF		SA7			
Date 11/02/2021 18:33		Designed by AK			
File Soakaway SA7.SRCX		Checked by			
Innovyze		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	1.060	1.060	0.5	11.4	O K
60 min Winter	1.306	1.306	0.6	14.1	Flood Risk
120 min Winter	1.409	1.409	0.7	15.2	Flood Risk
180 min Winter	1.429	1.429	0.7	15.4	Flood Risk
240 min Winter	1.424	1.424	0.7	15.4	Flood Risk
360 min Winter	1.407	1.407	0.7	15.2	Flood Risk
480 min Winter	1.372	1.372	0.6	14.8	Flood Risk
600 min Winter	1.331	1.331	0.6	14.4	Flood Risk
720 min Winter	1.290	1.290	0.6	13.9	Flood Risk
960 min Winter	1.210	1.210	0.6	13.1	Flood Risk
1440 min Winter	1.071	1.071	0.5	11.6	O K
2160 min Winter	0.915	0.915	0.4	9.9	O K
2880 min Winter	0.803	0.803	0.4	8.7	O K
4320 min Winter	0.653	0.653	0.3	7.0	O K
5760 min Winter	0.558	0.558	0.3	6.0	O K
7200 min Winter	0.491	0.491	0.2	5.3	O K
8640 min Winter	0.443	0.443	0.2	4.8	O K
10080 min Winter	0.407	0.407	0.2	4.4	O K
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)		
30 min Winter	101.550	0.0	33		
60 min Winter	64.948	0.0	62		
120 min Winter	37.629	0.0	118		
180 min Winter	27.271	0.0	170		
240 min Winter	21.662	0.0	194		
360 min Winter	15.601	0.0	270		
480 min Winter	12.341	0.0	346		
600 min Winter	10.288	0.0	420		
720 min Winter	8.869	0.0	492		
960 min Winter	7.026	0.0	636		
1440 min Winter	5.075	0.0	910		
2160 min Winter	3.689	0.0	1300		
2880 min Winter	2.957	0.0	1700		
4320 min Winter	2.183	0.0	2424		
5760 min Winter	1.776	0.0	3176		
7200 min Winter	1.521	0.0	3896		
8640 min Winter	1.347	0.0	4664		
10080 min Winter	1.223	0.0	5352		
©1982-2020 Innovyze					

Odyssey		Page 3
Tuscany House White Hart Lane Basingstoke RG21 4AF	Roundstone Lane Angmering - 20-016 SA7	
Date 11/02/2021 18:33 File Soakaway SA7.SRCX	Designed by AK Checked by	
Innovyze Source Control 2020.1		

Rainfall Details

Rainfall Model	FEH
Return Period (years)	100
FEH Rainfall Version	2013
Site Location	GB 507294 103462 TQ 07294 03462
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) 0.028

	Time (mins)	Area
From:	To:	(ha)
	0	4 0.028

©1982-2020 Innovyze

Odyssey		Page 4
Tuscany House White Hart Lane Basingstoke RG21 4AF	Roundstone Lane Angmering - 20-016 SA7	
Date 11/02/2021 18:33 File Soakaway SA7.SRCX	Designed by AK Checked by	
Innovyze Source Control 2020.1		

Model Details

Storage is Online Cover Level (m) 1.500

Trench Soakaway Structure

Infiltration Coefficient Base (m/hr)	0.00000	Trench Width (m)	3.0
Infiltration Coefficient Side (m/hr)	0.11340	Trench Length (m)	12.0
Safety Factor	2.0	Slope (1:X)	0.0
Porosity	0.30	Cap Volume Depth (m)	0.000
Invert Level (m)	0.000	Cap Infiltration Depth (m)	0.000

©1982-2020 Innovyze

Odyssey				Page 1																																																																																																																																																																																																																			
Tuscany House		Roundstone Lane																																																																																																																																																																																																																					
White Hart Lane		Angmering - 20-016																																																																																																																																																																																																																					
Basingstoke RG21 4AF		SA7																																																																																																																																																																																																																					
Date 12/02/2021 14:55		Designed by AK																																																																																																																																																																																																																					
File Soakaway SA7.SRCX		Checked by																																																																																																																																																																																																																					
Innovyze		Source Control 2020.1																																																																																																																																																																																																																					
<u>Summary of Results for 10 year Return Period (+40%)</u> Half Drain Time : 255 minutes. <table><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><tr><td>15 min Summer</td><td>0.433</td><td>0.433</td><td>0.2</td><td>4.7</td><td>O K</td></tr><tr><td>30 min Summer</td><td>0.557</td><td>0.557</td><td>0.3</td><td>6.0</td><td>O K</td></tr><tr><td>60 min Summer</td><td>0.679</td><td>0.679</td><td>0.3</td><td>7.3</td><td>O K</td></tr><tr><td>120 min Summer</td><td>0.770</td><td>0.770</td><td>0.4</td><td>8.3</td><td>O K</td></tr><tr><td>180 min Summer</td><td>0.798</td><td>0.798</td><td>0.4</td><td>8.6</td><td>O K</td></tr><tr><td>240 min Summer</td><td>0.811</td><td>0.811</td><td>0.4</td><td>8.8</td><td>O K</td></tr><tr><td>360 min Summer</td><td>0.818</td><td>0.818</td><td>0.4</td><td>8.8</td><td>O K</td></tr><tr><td>480 min Summer</td><td>0.812</td><td>0.812</td><td>0.4</td><td>8.8</td><td>O K</td></tr><tr><td>600 min Summer</td><td>0.801</td><td>0.801</td><td>0.4</td><td>8.6</td><td>O K</td></tr><tr><td>720 min Summer</td><td>0.787</td><td>0.787</td><td>0.4</td><td>8.5</td><td>O K</td></tr><tr><td>960 min Summer</td><td>0.756</td><td>0.756</td><td>0.4</td><td>8.2</td><td>O K</td></tr><tr><td>1440 min Summer</td><td>0.697</td><td>0.697</td><td>0.3</td><td>7.5</td><td>O K</td></tr><tr><td>2160 min Summer</td><td>0.624</td><td>0.624</td><td>0.3</td><td>6.7</td><td>O K</td></tr><tr><td>2880 min Summer</td><td>0.569</td><td>0.569</td><td>0.3</td><td>6.1</td><td>O K</td></tr><tr><td>4320 min Summer</td><td>0.494</td><td>0.494</td><td>0.2</td><td>5.3</td><td>O K</td></tr><tr><td>5760 min Summer</td><td>0.445</td><td>0.445</td><td>0.2</td><td>4.8</td><td>O K</td></tr><tr><td>7200 min Summer</td><td>0.410</td><td>0.410</td><td>0.2</td><td>4.4</td><td>O K</td></tr><tr><td>8640 min Summer</td><td>0.384</td><td>0.384</td><td>0.2</td><td>4.2</td><td>O K</td></tr><tr><td>10080 min Summer</td><td>0.364</td><td>0.364</td><td>0.2</td><td>3.9</td><td>O K</td></tr><tr><td>15 min Winter</td><td>0.485</td><td>0.485</td><td>0.2</td><td>5.2</td><td>O K</td></tr></table> <table><tr><th>Storm Event</th><th>Rain (mm/hr)</th><th>Flooded Volume (m³)</th><th>Time-Peak (mins)</th></tr><tr><td>15 min Summer</td><td>91.348</td><td>0.0</td><td>19</td></tr><tr><td>30 min Summer</td><td>59.875</td><td>0.0</td><td>33</td></tr><tr><td>60 min Summer</td><td>37.884</td><td>0.0</td><td>62</td></tr><tr><td>120 min Summer</td><td>23.172</td><td>0.0</td><td>120</td></tr><tr><td>180 min Summer</td><td>17.181</td><td>0.0</td><td>162</td></tr><tr><td>240 min Summer</td><td>13.823</td><td>0.0</td><td>190</td></tr><tr><td>360 min Summer</td><td>10.096</td><td>0.0</td><td>254</td></tr><tr><td>480 min Summer</td><td>8.045</td><td>0.0</td><td>324</td></tr><tr><td>600 min Summer</td><td>6.737</td><td>0.0</td><td>392</td></tr><tr><td>720 min Summer</td><td>5.826</td><td>0.0</td><td>460</td></tr><tr><td>960 min Summer</td><td>4.633</td><td>0.0</td><td>596</td></tr><tr><td>1440 min Summer</td><td>3.366</td><td>0.0</td><td>864</td></tr><tr><td>2160 min Summer</td><td>2.460</td><td>0.0</td><td>1252</td></tr><tr><td>2880 min Summer</td><td>1.983</td><td>0.0</td><td>1616</td></tr><tr><td>4320 min Summer</td><td>1.488</td><td>0.0</td><td>2376</td></tr><tr><td>5760 min Summer</td><td>1.230</td><td>0.0</td><td>3112</td></tr><tr><td>7200 min Summer</td><td>1.072</td><td>0.0</td><td>3824</td></tr><tr><td>8640 min Summer</td><td>0.964</td><td>0.0</td><td>4576</td></tr><tr><td>10080 min Summer</td><td>0.887</td><td>0.0</td><td>5248</td></tr><tr><td>15 min Winter</td><td>91.348</td><td>0.0</td><td>18</td></tr></table>						Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status	15 min Summer	0.433	0.433	0.2	4.7	O K	30 min Summer	0.557	0.557	0.3	6.0	O K	60 min Summer	0.679	0.679	0.3	7.3	O K	120 min Summer	0.770	0.770	0.4	8.3	O K	180 min Summer	0.798	0.798	0.4	8.6	O K	240 min Summer	0.811	0.811	0.4	8.8	O K	360 min Summer	0.818	0.818	0.4	8.8	O K	480 min Summer	0.812	0.812	0.4	8.8	O K	600 min Summer	0.801	0.801	0.4	8.6	O K	720 min Summer	0.787	0.787	0.4	8.5	O K	960 min Summer	0.756	0.756	0.4	8.2	O K	1440 min Summer	0.697	0.697	0.3	7.5	O K	2160 min Summer	0.624	0.624	0.3	6.7	O K	2880 min Summer	0.569	0.569	0.3	6.1	O K	4320 min Summer	0.494	0.494	0.2	5.3	O K	5760 min Summer	0.445	0.445	0.2	4.8	O K	7200 min Summer	0.410	0.410	0.2	4.4	O K	8640 min Summer	0.384	0.384	0.2	4.2	O K	10080 min Summer	0.364	0.364	0.2	3.9	O K	15 min Winter	0.485	0.485	0.2	5.2	O K	Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)	15 min Summer	91.348	0.0	19	30 min Summer	59.875	0.0	33	60 min Summer	37.884	0.0	62	120 min Summer	23.172	0.0	120	180 min Summer	17.181	0.0	162	240 min Summer	13.823	0.0	190	360 min Summer	10.096	0.0	254	480 min Summer	8.045	0.0	324	600 min Summer	6.737	0.0	392	720 min Summer	5.826	0.0	460	960 min Summer	4.633	0.0	596	1440 min Summer	3.366	0.0	864	2160 min Summer	2.460	0.0	1252	2880 min Summer	1.983	0.0	1616	4320 min Summer	1.488	0.0	2376	5760 min Summer	1.230	0.0	3112	7200 min Summer	1.072	0.0	3824	8640 min Summer	0.964	0.0	4576	10080 min Summer	0.887	0.0	5248	15 min Winter	91.348	0.0	18
Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status																																																																																																																																																																																																																		
15 min Summer	0.433	0.433	0.2	4.7	O K																																																																																																																																																																																																																		
30 min Summer	0.557	0.557	0.3	6.0	O K																																																																																																																																																																																																																		
60 min Summer	0.679	0.679	0.3	7.3	O K																																																																																																																																																																																																																		
120 min Summer	0.770	0.770	0.4	8.3	O K																																																																																																																																																																																																																		
180 min Summer	0.798	0.798	0.4	8.6	O K																																																																																																																																																																																																																		
240 min Summer	0.811	0.811	0.4	8.8	O K																																																																																																																																																																																																																		
360 min Summer	0.818	0.818	0.4	8.8	O K																																																																																																																																																																																																																		
480 min Summer	0.812	0.812	0.4	8.8	O K																																																																																																																																																																																																																		
600 min Summer	0.801	0.801	0.4	8.6	O K																																																																																																																																																																																																																		
720 min Summer	0.787	0.787	0.4	8.5	O K																																																																																																																																																																																																																		
960 min Summer	0.756	0.756	0.4	8.2	O K																																																																																																																																																																																																																		
1440 min Summer	0.697	0.697	0.3	7.5	O K																																																																																																																																																																																																																		
2160 min Summer	0.624	0.624	0.3	6.7	O K																																																																																																																																																																																																																		
2880 min Summer	0.569	0.569	0.3	6.1	O K																																																																																																																																																																																																																		
4320 min Summer	0.494	0.494	0.2	5.3	O K																																																																																																																																																																																																																		
5760 min Summer	0.445	0.445	0.2	4.8	O K																																																																																																																																																																																																																		
7200 min Summer	0.410	0.410	0.2	4.4	O K																																																																																																																																																																																																																		
8640 min Summer	0.384	0.384	0.2	4.2	O K																																																																																																																																																																																																																		
10080 min Summer	0.364	0.364	0.2	3.9	O K																																																																																																																																																																																																																		
15 min Winter	0.485	0.485	0.2	5.2	O K																																																																																																																																																																																																																		
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)																																																																																																																																																																																																																				
15 min Summer	91.348	0.0	19																																																																																																																																																																																																																				
30 min Summer	59.875	0.0	33																																																																																																																																																																																																																				
60 min Summer	37.884	0.0	62																																																																																																																																																																																																																				
120 min Summer	23.172	0.0	120																																																																																																																																																																																																																				
180 min Summer	17.181	0.0	162																																																																																																																																																																																																																				
240 min Summer	13.823	0.0	190																																																																																																																																																																																																																				
360 min Summer	10.096	0.0	254																																																																																																																																																																																																																				
480 min Summer	8.045	0.0	324																																																																																																																																																																																																																				
600 min Summer	6.737	0.0	392																																																																																																																																																																																																																				
720 min Summer	5.826	0.0	460																																																																																																																																																																																																																				
960 min Summer	4.633	0.0	596																																																																																																																																																																																																																				
1440 min Summer	3.366	0.0	864																																																																																																																																																																																																																				
2160 min Summer	2.460	0.0	1252																																																																																																																																																																																																																				
2880 min Summer	1.983	0.0	1616																																																																																																																																																																																																																				
4320 min Summer	1.488	0.0	2376																																																																																																																																																																																																																				
5760 min Summer	1.230	0.0	3112																																																																																																																																																																																																																				
7200 min Summer	1.072	0.0	3824																																																																																																																																																																																																																				
8640 min Summer	0.964	0.0	4576																																																																																																																																																																																																																				
10080 min Summer	0.887	0.0	5248																																																																																																																																																																																																																				
15 min Winter	91.348	0.0	18																																																																																																																																																																																																																				
©1982-2020 Innovyze																																																																																																																																																																																																																							

Odyssey				Page 2	
Tuscany House		Roundstone Lane			
White Hart Lane		Angmering - 20-016			
Basingstoke RG21 4AF		SA7			
Date 12/02/2021 14:55		Designed by AK			
File Soakaway SA7.SRCX		Checked by			
Innovyze		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	0.625	0.625	0.3	6.7	O K
60 min Winter	0.762	0.762	0.4	8.2	O K
120 min Winter	0.868	0.868	0.4	9.4	O K
180 min Winter	0.900	0.900	0.4	9.7	O K
240 min Winter	0.909	0.909	0.4	9.8	O K
360 min Winter	0.910	0.910	0.4	9.8	O K
480 min Winter	0.894	0.894	0.4	9.7	O K
600 min Winter	0.872	0.872	0.4	9.4	O K
720 min Winter	0.847	0.847	0.4	9.1	O K
960 min Winter	0.798	0.798	0.4	8.6	O K
1440 min Winter	0.710	0.710	0.3	7.7	O K
2160 min Winter	0.610	0.610	0.3	6.6	O K
2880 min Winter	0.539	0.539	0.3	5.8	O K
4320 min Winter	0.445	0.445	0.2	4.8	O K
5760 min Winter	0.386	0.386	0.2	4.2	O K
7200 min Winter	0.346	0.346	0.2	3.7	O K
8640 min Winter	0.317	0.317	0.1	3.4	O K
10080 min Winter	0.296	0.296	0.1	3.2	O K
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)		
30 min Winter	59.875	0.0	33		
60 min Winter	37.884	0.0	62		
120 min Winter	23.172	0.0	118		
180 min Winter	17.181	0.0	170		
240 min Winter	13.823	0.0	194		
360 min Winter	10.096	0.0	270		
480 min Winter	8.045	0.0	346		
600 min Winter	6.737	0.0	420		
720 min Winter	5.826	0.0	492		
960 min Winter	4.633	0.0	636		
1440 min Winter	3.366	0.0	910		
2160 min Winter	2.460	0.0	1300		
2880 min Winter	1.983	0.0	1700		
4320 min Winter	1.488	0.0	2424		
5760 min Winter	1.230	0.0	3176		
7200 min Winter	1.072	0.0	3896		
8640 min Winter	0.964	0.0	4664		
10080 min Winter	0.887	0.0	5352		
©1982-2020 Innovyze					

Odyssey		Page 3																														
Tuscany House White Hart Lane Basingstoke RG21 4AF	Roundstone Lane Angmering - 20-016 SA7																															
Date 12/02/2021 14:55 File Soakaway SA7.SRCX	Designed by AK Checked by																															
Innovyze		Source Control 2020.1																														
<u>Rainfall Details</u> <table> <tr> <td>Rainfall Model</td> <td>FEH</td> </tr> <tr> <td>Return Period (years)</td> <td>10</td> </tr> <tr> <td>FEH Rainfall Version</td> <td>2013</td> </tr> <tr> <td>Site Location</td> <td>GB 507294 103462 TQ 07294 03462</td> </tr> <tr> <td>Data Type</td> <td>Point</td> </tr> <tr> <td>Summer Storms</td> <td>Yes</td> </tr> <tr> <td>Winter Storms</td> <td>Yes</td> </tr> <tr> <td>Cv (Summer)</td> <td>0.750</td> </tr> <tr> <td>Cv (Winter)</td> <td>0.840</td> </tr> <tr> <td>Shortest Storm (mins)</td> <td>15</td> </tr> <tr> <td>Longest Storm (mins)</td> <td>10080</td> </tr> <tr> <td>Climate Change %</td> <td>+40</td> </tr> </table> <u>Time Area Diagram</u> Total Area (ha) 0.028 <table> <thead> <tr> <th>Time (mins)</th> <th>Area</th> </tr> <tr> <th>From:</th> <th>To: (ha)</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>4 0.028</td> </tr> </tbody> </table>			Rainfall Model	FEH	Return Period (years)	10	FEH Rainfall Version	2013	Site Location	GB 507294 103462 TQ 07294 03462	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 (mins)	Area	From:	To: (ha)	0	4 0.028
Rainfall Model	FEH																															
Return Period (years)	10																															
FEH Rainfall Version	2013																															
Site Location	GB 507294 103462 TQ 07294 03462																															
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 (mins)	Area																															
From:	To: (ha)																															
0	4 0.028																															
©1982-2020 Innovyze																																

Odyssey		Page 4
Tuscany House White Hart Lane Basingstoke RG21 4AF	Roundstone Lane Angmering - 20-016 SA7	
Date 12/02/2021 14:55 File Soakaway SA7.SRCX	Designed by AK Checked by	
Innovyze Source Control 2020.1		

Model Details

Storage is Online Cover Level (m) 1.500

Trench Soakaway Structure

Infiltration Coefficient Base (m/hr)	0.00000	Trench Width (m)	3.0
Infiltration Coefficient Side (m/hr)	0.11340	Trench Length (m)	12.0
Safety Factor	2.0	Slope (1:X)	0.0
Porosity	0.30	Cap Volume Depth (m)	0.000
Invert Level (m)	0.000	Cap Infiltration Depth (m)	0.000

©1982-2020 Innovyze

Odyssey				Page 1																																																																																																																																																																																																																			
Tuscany House		Roundstone Lane																																																																																																																																																																																																																					
White Hart Lane		Angmering - 20-016																																																																																																																																																																																																																					
Basingstoke RG21 4AF		SA8																																																																																																																																																																																																																					
Date 11/02/2021 18:34		Designed by AK																																																																																																																																																																																																																					
File Soakaway SA8.SRCX		Checked by																																																																																																																																																																																																																					
Innovyze		Source Control 2020.1																																																																																																																																																																																																																					
<u>Summary of Results for 100 year Return Period (+40%)</u> Half Drain Time : 149 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>0.826</td><td>0.826</td><td>0.3</td><td>4.4</td><td>O K</td></tr><tr><td>30 min Summer</td><td>1.072</td><td>1.072</td><td>0.4</td><td>5.7</td><td>O K</td></tr><tr><td>60 min Summer</td><td>1.287</td><td>1.287</td><td>0.5</td><td>6.8</td><td>Flood Risk</td></tr><tr><td>120 min Summer</td><td>1.327</td><td>1.327</td><td>0.5</td><td>7.0</td><td>Flood Risk</td></tr><tr><td>180 min Summer</td><td>1.333</td><td>1.333</td><td>0.5</td><td>7.0</td><td>Flood Risk</td></tr><tr><td>240 min Summer</td><td>1.326</td><td>1.326</td><td>0.5</td><td>7.0</td><td>Flood Risk</td></tr><tr><td>360 min Summer</td><td>1.289</td><td>1.289</td><td>0.5</td><td>6.8</td><td>Flood Risk</td></tr><tr><td>480 min Summer</td><td>1.242</td><td>1.242</td><td>0.5</td><td>6.6</td><td>Flood Risk</td></tr><tr><td>600 min Summer</td><td>1.194</td><td>1.194</td><td>0.5</td><td>6.3</td><td>O K</td></tr><tr><td>720 min Summer</td><td>1.147</td><td>1.147</td><td>0.5</td><td>6.1</td><td>O K</td></tr><tr><td>960 min Summer</td><td>1.063</td><td>1.063</td><td>0.4</td><td>5.6</td><td>O K</td></tr><tr><td>1440 min Summer</td><td>0.930</td><td>0.930</td><td>0.4</td><td>4.9</td><td>O K</td></tr><tr><td>2160 min Summer</td><td>0.792</td><td>0.792</td><td>0.3</td><td>4.2</td><td>O K</td></tr><tr><td>2880 min Summer</td><td>0.697</td><td>0.697</td><td>0.3</td><td>3.7</td><td>O K</td></tr><tr><td>4320 min Summer</td><td>0.573</td><td>0.573</td><td>0.2</td><td>3.0</td><td>O K</td></tr><tr><td>5760 min Summer</td><td>0.494</td><td>0.494</td><td>0.2</td><td>2.6</td><td>O K</td></tr><tr><td>7200 min Summer</td><td>0.440</td><td>0.440</td><td>0.2</td><td>2.3</td><td>O K</td></tr><tr><td>8640 min Summer</td><td>0.400</td><td>0.400</td><td>0.2</td><td>2.1</td><td>O K</td></tr><tr><td>10080 min Summer</td><td>0.369</td><td>0.369</td><td>0.1</td><td>1.9</td><td>O K</td></tr><tr><td>15 min Winter</td><td>0.926</td><td>0.926</td><td>0.4</td><td>4.9</td><td>O K</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>151.536</td><td>0.0</td><td>18</td></tr><tr><td>30 min Summer</td><td>101.550</td><td>0.0</td><td>32</td></tr><tr><td>60 min Summer</td><td>64.948</td><td>0.0</td><td>62</td></tr><tr><td>120 min Summer</td><td>37.629</td><td>0.0</td><td>102</td></tr><tr><td>180 min Summer</td><td>27.271</td><td>0.0</td><td>132</td></tr><tr><td>240 min Summer</td><td>21.662</td><td>0.0</td><td>166</td></tr><tr><td>360 min Summer</td><td>15.601</td><td>0.0</td><td>234</td></tr><tr><td>480 min Summer</td><td>12.341</td><td>0.0</td><td>304</td></tr><tr><td>600 min Summer</td><td>10.288</td><td>0.0</td><td>370</td></tr><tr><td>720 min Summer</td><td>8.869</td><td>0.0</td><td>436</td></tr><tr><td>960 min Summer</td><td>7.026</td><td>0.0</td><td>568</td></tr><tr><td>1440 min Summer</td><td>5.075</td><td>0.0</td><td>822</td></tr><tr><td>2160 min Summer</td><td>3.689</td><td>0.0</td><td>1192</td></tr><tr><td>2880 min Summer</td><td>2.957</td><td>0.0</td><td>1560</td></tr><tr><td>4320 min Summer</td><td>2.183</td><td>0.0</td><td>2292</td></tr><tr><td>5760 min Summer</td><td>1.776</td><td>0.0</td><td>3008</td></tr><tr><td>7200 min Summer</td><td>1.521</td><td>0.0</td><td>3744</td></tr><tr><td>8640 min Summer</td><td>1.347</td><td>0.0</td><td>4488</td></tr><tr><td>10080 min Summer</td><td>1.223</td><td>0.0</td><td>5152</td></tr><tr><td>15 min Winter</td><td>151.536</td><td>0.0</td><td>18</td></tr></tbody></table>						Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status	15 min Summer	0.826	0.826	0.3	4.4	O K	30 min Summer	1.072	1.072	0.4	5.7	O K	60 min Summer	1.287	1.287	0.5	6.8	Flood Risk	120 min Summer	1.327	1.327	0.5	7.0	Flood Risk	180 min Summer	1.333	1.333	0.5	7.0	Flood Risk	240 min Summer	1.326	1.326	0.5	7.0	Flood Risk	360 min Summer	1.289	1.289	0.5	6.8	Flood Risk	480 min Summer	1.242	1.242	0.5	6.6	Flood Risk	600 min Summer	1.194	1.194	0.5	6.3	O K	720 min Summer	1.147	1.147	0.5	6.1	O K	960 min Summer	1.063	1.063	0.4	5.6	O K	1440 min Summer	0.930	0.930	0.4	4.9	O K	2160 min Summer	0.792	0.792	0.3	4.2	O K	2880 min Summer	0.697	0.697	0.3	3.7	O K	4320 min Summer	0.573	0.573	0.2	3.0	O K	5760 min Summer	0.494	0.494	0.2	2.6	O K	7200 min Summer	0.440	0.440	0.2	2.3	O K	8640 min Summer	0.400	0.400	0.2	2.1	O K	10080 min Summer	0.369	0.369	0.1	1.9	O K	15 min Winter	0.926	0.926	0.4	4.9	O K	Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)	15 min Summer	151.536	0.0	18	30 min Summer	101.550	0.0	32	60 min Summer	64.948	0.0	62	120 min Summer	37.629	0.0	102	180 min Summer	27.271	0.0	132	240 min Summer	21.662	0.0	166	360 min Summer	15.601	0.0	234	480 min Summer	12.341	0.0	304	600 min Summer	10.288	0.0	370	720 min Summer	8.869	0.0	436	960 min Summer	7.026	0.0	568	1440 min Summer	5.075	0.0	822	2160 min Summer	3.689	0.0	1192	2880 min Summer	2.957	0.0	1560	4320 min Summer	2.183	0.0	2292	5760 min Summer	1.776	0.0	3008	7200 min Summer	1.521	0.0	3744	8640 min Summer	1.347	0.0	4488	10080 min Summer	1.223	0.0	5152	15 min Winter	151.536	0.0	18
Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status																																																																																																																																																																																																																		
15 min Summer	0.826	0.826	0.3	4.4	O K																																																																																																																																																																																																																		
30 min Summer	1.072	1.072	0.4	5.7	O K																																																																																																																																																																																																																		
60 min Summer	1.287	1.287	0.5	6.8	Flood Risk																																																																																																																																																																																																																		
120 min Summer	1.327	1.327	0.5	7.0	Flood Risk																																																																																																																																																																																																																		
180 min Summer	1.333	1.333	0.5	7.0	Flood Risk																																																																																																																																																																																																																		
240 min Summer	1.326	1.326	0.5	7.0	Flood Risk																																																																																																																																																																																																																		
360 min Summer	1.289	1.289	0.5	6.8	Flood Risk																																																																																																																																																																																																																		
480 min Summer	1.242	1.242	0.5	6.6	Flood Risk																																																																																																																																																																																																																		
600 min Summer	1.194	1.194	0.5	6.3	O K																																																																																																																																																																																																																		
720 min Summer	1.147	1.147	0.5	6.1	O K																																																																																																																																																																																																																		
960 min Summer	1.063	1.063	0.4	5.6	O K																																																																																																																																																																																																																		
1440 min Summer	0.930	0.930	0.4	4.9	O K																																																																																																																																																																																																																		
2160 min Summer	0.792	0.792	0.3	4.2	O K																																																																																																																																																																																																																		
2880 min Summer	0.697	0.697	0.3	3.7	O K																																																																																																																																																																																																																		
4320 min Summer	0.573	0.573	0.2	3.0	O K																																																																																																																																																																																																																		
5760 min Summer	0.494	0.494	0.2	2.6	O K																																																																																																																																																																																																																		
7200 min Summer	0.440	0.440	0.2	2.3	O K																																																																																																																																																																																																																		
8640 min Summer	0.400	0.400	0.2	2.1	O K																																																																																																																																																																																																																		
10080 min Summer	0.369	0.369	0.1	1.9	O K																																																																																																																																																																																																																		
15 min Winter	0.926	0.926	0.4	4.9	O K																																																																																																																																																																																																																		
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)																																																																																																																																																																																																																				
15 min Summer	151.536	0.0	18																																																																																																																																																																																																																				
30 min Summer	101.550	0.0	32																																																																																																																																																																																																																				
60 min Summer	64.948	0.0	62																																																																																																																																																																																																																				
120 min Summer	37.629	0.0	102																																																																																																																																																																																																																				
180 min Summer	27.271	0.0	132																																																																																																																																																																																																																				
240 min Summer	21.662	0.0	166																																																																																																																																																																																																																				
360 min Summer	15.601	0.0	234																																																																																																																																																																																																																				
480 min Summer	12.341	0.0	304																																																																																																																																																																																																																				
600 min Summer	10.288	0.0	370																																																																																																																																																																																																																				
720 min Summer	8.869	0.0	436																																																																																																																																																																																																																				
960 min Summer	7.026	0.0	568																																																																																																																																																																																																																				
1440 min Summer	5.075	0.0	822																																																																																																																																																																																																																				
2160 min Summer	3.689	0.0	1192																																																																																																																																																																																																																				
2880 min Summer	2.957	0.0	1560																																																																																																																																																																																																																				
4320 min Summer	2.183	0.0	2292																																																																																																																																																																																																																				
5760 min Summer	1.776	0.0	3008																																																																																																																																																																																																																				
7200 min Summer	1.521	0.0	3744																																																																																																																																																																																																																				
8640 min Summer	1.347	0.0	4488																																																																																																																																																																																																																				
10080 min Summer	1.223	0.0	5152																																																																																																																																																																																																																				
15 min Winter	151.536	0.0	18																																																																																																																																																																																																																				
©1982-2020 Innovyze																																																																																																																																																																																																																							

Odyssey				Page 2	
Tuscany House		Roundstone Lane			
White Hart Lane		Angmering - 20-016			
Basingstoke RG21 4AF		SA8			
Date 11/02/2021 18:34		Designed by AK			
File Soakaway SA8.SRCX		Checked by			
Innovyze		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	1.204	1.204	0.5	6.4	Flood Risk
60 min Winter	1.449	1.449	0.6	7.6	Flood Risk
120 min Winter	1.493	1.493	0.6	7.9	Flood Risk
180 min Winter	1.489	1.489	0.6	7.9	Flood Risk
240 min Winter	1.469	1.469	0.6	7.8	Flood Risk
360 min Winter	1.401	1.401	0.6	7.4	Flood Risk
480 min Winter	1.325	1.325	0.5	7.0	Flood Risk
600 min Winter	1.252	1.252	0.5	6.6	Flood Risk
720 min Winter	1.185	1.185	0.5	6.3	O K
960 min Winter	1.070	1.070	0.4	5.6	O K
1440 min Winter	0.896	0.896	0.4	4.7	O K
2160 min Winter	0.727	0.727	0.3	3.8	O K
2880 min Winter	0.617	0.617	0.2	3.3	O K
4320 min Winter	0.482	0.482	0.2	2.5	O K
5760 min Winter	0.402	0.402	0.2	2.1	O K
7200 min Winter	0.349	0.349	0.1	1.8	O K
8640 min Winter	0.312	0.312	0.1	1.6	O K
10080 min Winter	0.285	0.285	0.1	1.5	O K
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)		
30 min Winter	101.550	0.0	32		
60 min Winter	64.948	0.0	60		
120 min Winter	37.629	0.0	112		
180 min Winter	27.271	0.0	140		
240 min Winter	21.662	0.0	178		
360 min Winter	15.601	0.0	252		
480 min Winter	12.341	0.0	324		
600 min Winter	10.288	0.0	394		
720 min Winter	8.869	0.0	464		
960 min Winter	7.026	0.0	598		
1440 min Winter	5.075	0.0	864		
2160 min Winter	3.689	0.0	1236		
2880 min Winter	2.957	0.0	1612		
4320 min Winter	2.183	0.0	2336		
5760 min Winter	1.776	0.0	3064		
7200 min Winter	1.521	0.0	3816		
8640 min Winter	1.347	0.0	4496		
10080 min Winter	1.223	0.0	5240		
©1982-2020 Innovyze					

Odyssey		Page 3																														
Tuscany House White Hart Lane Basingstoke RG21 4AF	Roundstone Lane Angmering - 20-016 SA8																															
Date 11/02/2021 18:34 File Soakaway SA8.SRCX	Designed by AK Checked by																															
Innovyze		Source Control 2020.1																														
<u>Rainfall Details</u> <table> <tr> <td>Rainfall Model</td> <td>FEH</td> </tr> <tr> <td>Return Period (years)</td> <td>100</td> </tr> <tr> <td>FEH Rainfall Version</td> <td>2013</td> </tr> <tr> <td>Site Location</td> <td>GB 507294 103462 TQ 07294 03462</td> </tr> <tr> <td>Data Type</td> <td>Point</td> </tr> <tr> <td>Summer Storms</td> <td>Yes</td> </tr> <tr> <td>Winter Storms</td> <td>Yes</td> </tr> <tr> <td>Cv (Summer)</td> <td>0.750</td> </tr> <tr> <td>Cv (Winter)</td> <td>0.840</td> </tr> <tr> <td>Shortest Storm (mins)</td> <td>15</td> </tr> <tr> <td>Longest Storm (mins)</td> <td>10080</td> </tr> <tr> <td>Climate Change %</td> <td>+40</td> </tr> </table> <u>Time Area Diagram</u> Total Area (ha) 0.016 <table> <thead> <tr> <th>Time (mins)</th> <th>Area</th> </tr> <tr> <th>From:</th> <th>To: (ha)</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>4 0.016</td> </tr> </tbody> </table>			Rainfall Model	FEH	Return Period (years)	100	FEH Rainfall Version	2013	Site Location	GB 507294 103462 TQ 07294 03462	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 (mins)	Area	From:	To: (ha)	0	4 0.016
Rainfall Model	FEH																															
Return Period (years)	100																															
FEH Rainfall Version	2013																															
Site Location	GB 507294 103462 TQ 07294 03462																															
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 (mins)	Area																															
From:	To: (ha)																															
0	4 0.016																															
©1982-2020 Innovyze																																

Odyssey		Page 4
Tuscany House White Hart Lane Basingstoke RG21 4AF	Roundstone Lane Angmering - 20-016 SA8	
Date 11/02/2021 18:34 File Soakaway SA8.SRCX	Designed by AK Checked by	
Innovyze Source Control 2020.1		

Model Details

Storage is Online Cover Level (m) 1.500

Trench Soakaway Structure

Infiltration Coefficient Base (m/hr)	0.00000	Trench Width (m)	1.6
Infiltration Coefficient Side (m/hr)	0.11340	Trench Length (m)	11.0
Safety Factor	2.0	Slope (1:X)	0.0
Porosity	0.30	Cap Volume Depth (m)	0.000
Invert Level (m)	0.000	Cap Infiltration Depth (m)	0.000

©1982-2020 Innovyze

Odyssey				Page 1																																																																																																																																																																																																																			
Tuscany House		Roundstone Lane																																																																																																																																																																																																																					
White Hart Lane		Angmering - 20-016																																																																																																																																																																																																																					
Basingstoke RG21 4AF		SA8																																																																																																																																																																																																																					
Date 12/02/2021 14:56		Designed by AK																																																																																																																																																																																																																					
File Soakaway SA8.SRCX		Checked by																																																																																																																																																																																																																					
Innovyze		Source Control 2020.1																																																																																																																																																																																																																					
<u>Summary of Results for 10 year Return Period (+40%)</u> Half Drain Time : 152 minutes. <table><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><tr><td>15 min Summer</td><td>0.498</td><td>0.498</td><td>0.2</td><td>2.6</td><td>O K</td></tr><tr><td>30 min Summer</td><td>0.632</td><td>0.632</td><td>0.3</td><td>3.3</td><td>O K</td></tr><tr><td>60 min Summer</td><td>0.751</td><td>0.751</td><td>0.3</td><td>4.0</td><td>O K</td></tr><tr><td>120 min Summer</td><td>0.817</td><td>0.817</td><td>0.3</td><td>4.3</td><td>O K</td></tr><tr><td>180 min Summer</td><td>0.840</td><td>0.840</td><td>0.3</td><td>4.4</td><td>O K</td></tr><tr><td>240 min Summer</td><td>0.846</td><td>0.846</td><td>0.3</td><td>4.5</td><td>O K</td></tr><tr><td>360 min Summer</td><td>0.834</td><td>0.834</td><td>0.3</td><td>4.4</td><td>O K</td></tr><tr><td>480 min Summer</td><td>0.810</td><td>0.810</td><td>0.3</td><td>4.3</td><td>O K</td></tr><tr><td>600 min Summer</td><td>0.782</td><td>0.782</td><td>0.3</td><td>4.1</td><td>O K</td></tr><tr><td>720 min Summer</td><td>0.753</td><td>0.753</td><td>0.3</td><td>4.0</td><td>O K</td></tr><tr><td>960 min Summer</td><td>0.701</td><td>0.701</td><td>0.3</td><td>3.7</td><td>O K</td></tr><tr><td>1440 min Summer</td><td>0.617</td><td>0.617</td><td>0.2</td><td>3.3</td><td>O K</td></tr><tr><td>2160 min Summer</td><td>0.528</td><td>0.528</td><td>0.2</td><td>2.8</td><td>O K</td></tr><tr><td>2880 min Summer</td><td>0.467</td><td>0.467</td><td>0.2</td><td>2.5</td><td>O K</td></tr><tr><td>4320 min Summer</td><td>0.391</td><td>0.391</td><td>0.2</td><td>2.1</td><td>O K</td></tr><tr><td>5760 min Summer</td><td>0.342</td><td>0.342</td><td>0.1</td><td>1.8</td><td>O K</td></tr><tr><td>7200 min Summer</td><td>0.310</td><td>0.310</td><td>0.1</td><td>1.6</td><td>O K</td></tr><tr><td>8640 min Summer</td><td>0.286</td><td>0.286</td><td>0.1</td><td>1.5</td><td>O K</td></tr><tr><td>10080 min Summer</td><td>0.268</td><td>0.268</td><td>0.1</td><td>1.4</td><td>O K</td></tr><tr><td>15 min Winter</td><td>0.558</td><td>0.558</td><td>0.2</td><td>2.9</td><td>O K</td></tr></table> <table><tr><th>Storm Event</th><th>Rain (mm/hr)</th><th>Flooded Volume (m³)</th><th>Time-Peak (mins)</th></tr><tr><td>15 min Summer</td><td>91.348</td><td>0.0</td><td>18</td></tr><tr><td>30 min Summer</td><td>59.875</td><td>0.0</td><td>32</td></tr><tr><td>60 min Summer</td><td>37.884</td><td>0.0</td><td>62</td></tr><tr><td>120 min Summer</td><td>23.172</td><td>0.0</td><td>102</td></tr><tr><td>180 min Summer</td><td>17.181</td><td>0.0</td><td>132</td></tr><tr><td>240 min Summer</td><td>13.823</td><td>0.0</td><td>166</td></tr><tr><td>360 min Summer</td><td>10.096</td><td>0.0</td><td>234</td></tr><tr><td>480 min Summer</td><td>8.045</td><td>0.0</td><td>304</td></tr><tr><td>600 min Summer</td><td>6.737</td><td>0.0</td><td>370</td></tr><tr><td>720 min Summer</td><td>5.826</td><td>0.0</td><td>436</td></tr><tr><td>960 min Summer</td><td>4.633</td><td>0.0</td><td>568</td></tr><tr><td>1440 min Summer</td><td>3.366</td><td>0.0</td><td>822</td></tr><tr><td>2160 min Summer</td><td>2.460</td><td>0.0</td><td>1192</td></tr><tr><td>2880 min Summer</td><td>1.983</td><td>0.0</td><td>1560</td></tr><tr><td>4320 min Summer</td><td>1.488</td><td>0.0</td><td>2292</td></tr><tr><td>5760 min Summer</td><td>1.230</td><td>0.0</td><td>3008</td></tr><tr><td>7200 min Summer</td><td>1.072</td><td>0.0</td><td>3744</td></tr><tr><td>8640 min Summer</td><td>0.964</td><td>0.0</td><td>4488</td></tr><tr><td>10080 min Summer</td><td>0.887</td><td>0.0</td><td>5152</td></tr><tr><td>15 min Winter</td><td>91.348</td><td>0.0</td><td>18</td></tr></table>						Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status	15 min Summer	0.498	0.498	0.2	2.6	O K	30 min Summer	0.632	0.632	0.3	3.3	O K	60 min Summer	0.751	0.751	0.3	4.0	O K	120 min Summer	0.817	0.817	0.3	4.3	O K	180 min Summer	0.840	0.840	0.3	4.4	O K	240 min Summer	0.846	0.846	0.3	4.5	O K	360 min Summer	0.834	0.834	0.3	4.4	O K	480 min Summer	0.810	0.810	0.3	4.3	O K	600 min Summer	0.782	0.782	0.3	4.1	O K	720 min Summer	0.753	0.753	0.3	4.0	O K	960 min Summer	0.701	0.701	0.3	3.7	O K	1440 min Summer	0.617	0.617	0.2	3.3	O K	2160 min Summer	0.528	0.528	0.2	2.8	O K	2880 min Summer	0.467	0.467	0.2	2.5	O K	4320 min Summer	0.391	0.391	0.2	2.1	O K	5760 min Summer	0.342	0.342	0.1	1.8	O K	7200 min Summer	0.310	0.310	0.1	1.6	O K	8640 min Summer	0.286	0.286	0.1	1.5	O K	10080 min Summer	0.268	0.268	0.1	1.4	O K	15 min Winter	0.558	0.558	0.2	2.9	O K	Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)	15 min Summer	91.348	0.0	18	30 min Summer	59.875	0.0	32	60 min Summer	37.884	0.0	62	120 min Summer	23.172	0.0	102	180 min Summer	17.181	0.0	132	240 min Summer	13.823	0.0	166	360 min Summer	10.096	0.0	234	480 min Summer	8.045	0.0	304	600 min Summer	6.737	0.0	370	720 min Summer	5.826	0.0	436	960 min Summer	4.633	0.0	568	1440 min Summer	3.366	0.0	822	2160 min Summer	2.460	0.0	1192	2880 min Summer	1.983	0.0	1560	4320 min Summer	1.488	0.0	2292	5760 min Summer	1.230	0.0	3008	7200 min Summer	1.072	0.0	3744	8640 min Summer	0.964	0.0	4488	10080 min Summer	0.887	0.0	5152	15 min Winter	91.348	0.0	18
Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status																																																																																																																																																																																																																		
15 min Summer	0.498	0.498	0.2	2.6	O K																																																																																																																																																																																																																		
30 min Summer	0.632	0.632	0.3	3.3	O K																																																																																																																																																																																																																		
60 min Summer	0.751	0.751	0.3	4.0	O K																																																																																																																																																																																																																		
120 min Summer	0.817	0.817	0.3	4.3	O K																																																																																																																																																																																																																		
180 min Summer	0.840	0.840	0.3	4.4	O K																																																																																																																																																																																																																		
240 min Summer	0.846	0.846	0.3	4.5	O K																																																																																																																																																																																																																		
360 min Summer	0.834	0.834	0.3	4.4	O K																																																																																																																																																																																																																		
480 min Summer	0.810	0.810	0.3	4.3	O K																																																																																																																																																																																																																		
600 min Summer	0.782	0.782	0.3	4.1	O K																																																																																																																																																																																																																		
720 min Summer	0.753	0.753	0.3	4.0	O K																																																																																																																																																																																																																		
960 min Summer	0.701	0.701	0.3	3.7	O K																																																																																																																																																																																																																		
1440 min Summer	0.617	0.617	0.2	3.3	O K																																																																																																																																																																																																																		
2160 min Summer	0.528	0.528	0.2	2.8	O K																																																																																																																																																																																																																		
2880 min Summer	0.467	0.467	0.2	2.5	O K																																																																																																																																																																																																																		
4320 min Summer	0.391	0.391	0.2	2.1	O K																																																																																																																																																																																																																		
5760 min Summer	0.342	0.342	0.1	1.8	O K																																																																																																																																																																																																																		
7200 min Summer	0.310	0.310	0.1	1.6	O K																																																																																																																																																																																																																		
8640 min Summer	0.286	0.286	0.1	1.5	O K																																																																																																																																																																																																																		
10080 min Summer	0.268	0.268	0.1	1.4	O K																																																																																																																																																																																																																		
15 min Winter	0.558	0.558	0.2	2.9	O K																																																																																																																																																																																																																		
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)																																																																																																																																																																																																																				
15 min Summer	91.348	0.0	18																																																																																																																																																																																																																				
30 min Summer	59.875	0.0	32																																																																																																																																																																																																																				
60 min Summer	37.884	0.0	62																																																																																																																																																																																																																				
120 min Summer	23.172	0.0	102																																																																																																																																																																																																																				
180 min Summer	17.181	0.0	132																																																																																																																																																																																																																				
240 min Summer	13.823	0.0	166																																																																																																																																																																																																																				
360 min Summer	10.096	0.0	234																																																																																																																																																																																																																				
480 min Summer	8.045	0.0	304																																																																																																																																																																																																																				
600 min Summer	6.737	0.0	370																																																																																																																																																																																																																				
720 min Summer	5.826	0.0	436																																																																																																																																																																																																																				
960 min Summer	4.633	0.0	568																																																																																																																																																																																																																				
1440 min Summer	3.366	0.0	822																																																																																																																																																																																																																				
2160 min Summer	2.460	0.0	1192																																																																																																																																																																																																																				
2880 min Summer	1.983	0.0	1560																																																																																																																																																																																																																				
4320 min Summer	1.488	0.0	2292																																																																																																																																																																																																																				
5760 min Summer	1.230	0.0	3008																																																																																																																																																																																																																				
7200 min Summer	1.072	0.0	3744																																																																																																																																																																																																																				
8640 min Summer	0.964	0.0	4488																																																																																																																																																																																																																				
10080 min Summer	0.887	0.0	5152																																																																																																																																																																																																																				
15 min Winter	91.348	0.0	18																																																																																																																																																																																																																				
©1982-2020 Innovyze																																																																																																																																																																																																																							

Odyssey				Page 2	
Tuscany House		Roundstone Lane			
White Hart Lane		Angmering - 20-016			
Basingstoke RG21 4AF		SA8			
Date 12/02/2021 14:56		Designed by AK			
File Soakaway SA8.SRCX		Checked by			
Innovyze		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	0.710	0.710	0.3	3.7	O K
60 min Winter	0.845	0.845	0.3	4.5	O K
120 min Winter	0.919	0.919	0.4	4.9	O K
180 min Winter	0.938	0.938	0.4	5.0	O K
240 min Winter	0.937	0.937	0.4	4.9	O K
360 min Winter	0.907	0.907	0.4	4.8	O K
480 min Winter	0.864	0.864	0.3	4.6	O K
600 min Winter	0.820	0.820	0.3	4.3	O K
720 min Winter	0.779	0.779	0.3	4.1	O K
960 min Winter	0.705	0.705	0.3	3.7	O K
1440 min Winter	0.594	0.594	0.2	3.1	O K
2160 min Winter	0.485	0.485	0.2	2.6	O K
2880 min Winter	0.414	0.414	0.2	2.2	O K
4320 min Winter	0.328	0.328	0.1	1.7	O K
5760 min Winter	0.278	0.278	0.1	1.5	O K
7200 min Winter	0.246	0.246	0.1	1.3	O K
8640 min Winter	0.224	0.224	0.1	1.2	O K
10080 min Winter	0.207	0.207	0.1	1.1	O K
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)		
30 min Winter	59.875	0.0	32		
60 min Winter	37.884	0.0	60		
120 min Winter	23.172	0.0	112		
180 min Winter	17.181	0.0	140		
240 min Winter	13.823	0.0	178		
360 min Winter	10.096	0.0	252		
480 min Winter	8.045	0.0	324		
600 min Winter	6.737	0.0	394		
720 min Winter	5.826	0.0	464		
960 min Winter	4.633	0.0	598		
1440 min Winter	3.366	0.0	864		
2160 min Winter	2.460	0.0	1236		
2880 min Winter	1.983	0.0	1612		
4320 min Winter	1.488	0.0	2336		
5760 min Winter	1.230	0.0	3064		
7200 min Winter	1.072	0.0	3816		
8640 min Winter	0.964	0.0	4496		
10080 min Winter	0.887	0.0	5240		
©1982-2020 Innovyze					

Odyssey		Page 3
Tuscany House White Hart Lane Basingstoke RG21 4AF	Roundstone Lane Angmering - 20-016 SA8	
Date 12/02/2021 14:56 File Soakaway SA8.SRCX	Designed by AK Checked by	
Innovyze Source Control 2020.1		

Rainfall Details

Rainfall Model	FEH
Return Period (years)	10
FEH Rainfall Version	2013
Site Location	GB 507294 103462 TQ 07294 03462
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) 0.016

	Time (mins)	Area
From:	To:	(ha)
	0	4 0.016

©1982-2020 Innovyze

Odyssey		Page 4
Tuscany House White Hart Lane Basingstoke RG21 4AF	Roundstone Lane Angmering - 20-016 SA8	
Date 12/02/2021 14:56 File Soakaway SA8.SRCX	Designed by AK Checked by	
Innovyze Source Control 2020.1		

Model Details

Storage is Online Cover Level (m) 1.500

Trench Soakaway Structure

Infiltration Coefficient Base (m/hr)	0.00000	Trench Width (m)	1.6
Infiltration Coefficient Side (m/hr)	0.11340	Trench Length (m)	11.0
Safety Factor	2.0	Slope (1:X)	0.0
Porosity	0.30	Cap Volume Depth (m)	0.000
Invert Level (m)	0.000	Cap Infiltration Depth (m)	0.000

©1982-2020 Innovyze