

Odyssey				Page 1																																																																																																																																																																																																																			
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<u>Summary of Results for 100 year Return Period (+40%)</u> Half Drain Time : 1283 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>0.362</td><td>0.362</td><td>0.1</td><td>8.3</td><td>Flood Risk</td></tr><tr><td>30 min Summer</td><td>0.414</td><td>0.414</td><td>0.1</td><td>11.8</td><td>Flood Risk</td></tr><tr><td>60 min Summer</td><td>0.458</td><td>0.458</td><td>0.2</td><td>15.7</td><td>Flood Risk</td></tr><tr><td>120 min Summer</td><td>0.487</td><td>0.487</td><td>0.2</td><td>18.6</td><td>Flood Risk</td></tr><tr><td>180 min Summer</td><td>0.503</td><td>0.503</td><td>0.2</td><td>20.3</td><td>Flood Risk</td></tr><tr><td>240 min Summer</td><td>0.512</td><td>0.512</td><td>0.2</td><td>21.4</td><td>Flood Risk</td></tr><tr><td>360 min Summer</td><td>0.522</td><td>0.522</td><td>0.2</td><td>22.5</td><td>Flood Risk</td></tr><tr><td>480 min Summer</td><td>0.526</td><td>0.526</td><td>0.2</td><td>23.0</td><td>Flood Risk</td></tr><tr><td>600 min Summer</td><td>0.527</td><td>0.527</td><td>0.2</td><td>23.2</td><td>Flood Risk</td></tr><tr><td>720 min Summer</td><td>0.527</td><td>0.527</td><td>0.2</td><td>23.1</td><td>Flood Risk</td></tr><tr><td>960 min Summer</td><td>0.524</td><td>0.524</td><td>0.2</td><td>22.8</td><td>Flood Risk</td></tr><tr><td>1440 min Summer</td><td>0.519</td><td>0.519</td><td>0.2</td><td>22.2</td><td>Flood Risk</td></tr><tr><td>2160 min Summer</td><td>0.512</td><td>0.512</td><td>0.2</td><td>21.4</td><td>Flood Risk</td></tr><tr><td>2880 min Summer</td><td>0.505</td><td>0.505</td><td>0.2</td><td>20.6</td><td>Flood Risk</td></tr><tr><td>4320 min Summer</td><td>0.494</td><td>0.494</td><td>0.2</td><td>19.3</td><td>Flood Risk</td></tr><tr><td>5760 min Summer</td><td>0.483</td><td>0.483</td><td>0.2</td><td>18.2</td><td>Flood Risk</td></tr><tr><td>7200 min 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Tuscany House White Hart Lane Basingstoke RG21 4AF		Stakers Farm, Yapton 19-156 Road 4			
Date 29/07/2020 09:19 File Road 4.SRCX		Designed by AK Checked by			
Micro Drainage		Source Control 2020.1			
<u>Summary of Results for 100 year Return Period (+40%)</u>					
Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
30 min Winter	0.434	0.434	0.2	13.5	Flood Risk
60 min Winter	0.480	0.480	0.2	17.8	Flood Risk
120 min Winter	0.511	0.511	0.2	21.2	Flood Risk
180 min Winter	0.527	0.527	0.2	23.1	Flood Risk
240 min Winter	0.537	0.537	0.2	24.3	Flood Risk
360 min Winter	0.547	0.547	0.2	25.6	Flood Risk
480 min Winter	0.552	0.552	0.2	26.3	Flood Risk
600 min Winter	0.554	0.554	0.2	26.6	Flood Risk
720 min Winter	0.555	0.555	0.2	26.6	Flood Risk
960 min Winter	0.553	0.553	0.2	26.4	Flood Risk
1440 min Winter	0.546	0.546	0.2	25.4	Flood Risk
2160 min Winter	0.537	0.537	0.2	24.3	Flood Risk
2880 min Winter	0.527	0.527	0.2	23.1	Flood Risk
4320 min Winter	0.509	0.509	0.2	21.0	Flood Risk
5760 min Winter	0.493	0.493	0.2	19.2	Flood Risk
7200 min Winter	0.478	0.478	0.2	17.7	Flood Risk
8640 min Winter	0.466	0.466	0.2	16.4	Flood Risk
10080 min Winter	0.455	0.455	0.2	15.4	Flood Risk
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)		
30 min Winter	94.700	0.0	33		
60 min Winter	60.903	0.0	64		
120 min Winter	36.128	0.0	122		
180 min Winter	26.473	0.0	180		
240 min Winter	21.126	0.0	240		
360 min Winter	15.214	0.0	356		
480 min Winter	12.016	0.0	472		
600 min Winter	9.993	0.0	584		
720 min Winter	8.590	0.0	698		
960 min Winter	6.756	0.0	914		
1440 min Winter	4.823	0.0	1168		
2160 min Winter	3.462	0.0	1620		
2880 min Winter	2.754	0.0	2076		
4320 min Winter	2.025	0.0	2944		
5760 min Winter	1.648	0.0	3808		
7200 min Winter	1.419	0.0	4616		
8640 min Winter	1.264	0.0	5448		
10080 min Winter	1.153	0.0	6248		
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Tuscany House White Hart Lane Basingstoke RG21 4AF	Stakers Farm, Yapton 19-156 Road 4	
Date 29/07/2020 09:19 File Road 4.SRCX	Designed by AK Checked by	
Micro Drainage Source Control 2020.1		

Rainfall Details

Rainfall Model	FEH
Return Period (years)	100
FEH Rainfall Version	2013
Site Location	GB 497682 103581 SU 97682 03581
Data Type	Point
Summer Storms	Yes
Winter Storms	Yes
Cv (Summer)	0.750
Cv (Winter)	0.840
Shortest Storm (mins)	15
Longest Storm (mins)	10080
Climate Change %	+40

Time Area Diagram

Total Area (ha) 0.040

	Time (mins)	Area
From:	To:	(ha)
	0	4 0.040

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<u>Model Details</u> Storage is Online Cover Level (m) 0.600 <u>Complex Structure</u> <u>Porous Car Park</u> <table> <tr> <td>Infiltration Coefficient Base (m/hr)</td> <td>0.00648</td> <td>Width (m)</td> <td>5.5</td> </tr> <tr> <td>Membrane Percolation (mm/hr)</td> <td>1000</td> <td>Length (m)</td> <td>40.0</td> </tr> <tr> <td>Max Percolation (l/s)</td> <td>61.1</td> <td>Slope (1:X)</td> <td>72.0</td> </tr> <tr> <td>Safety Factor</td> <td>2.0</td> <td>Depression Storage (mm)</td> <td>5</td> </tr> <tr> <td>Porosity</td> <td>0.30</td> <td>Evaporation (mm/day)</td> <td>3</td> </tr> <tr> <td>Invert Level (m)</td> <td>0.000</td> <td>Cap Volume Depth (m)</td> <td>0.300</td> </tr> </table> <u>Porous Car Park</u> <table> <tr> <td>Infiltration Coefficient Base (m/hr)</td> <td>0.00000</td> <td>Width (m)</td> <td>5.5</td> </tr> <tr> <td>Membrane Percolation (mm/hr)</td> <td>1000</td> <td>Length (m)</td> <td>40.0</td> </tr> <tr> <td>Max Percolation (l/s)</td> <td>61.1</td> <td>Slope (1:X)</td> <td>72.0</td> </tr> <tr> <td>Safety Factor</td> <td>2.0</td> <td>Depression Storage (mm)</td> <td>5</td> </tr> <tr> <td>Porosity</td> <td>0.95</td> <td>Evaporation (mm/day)</td> <td>3</td> </tr> <tr> <td>Invert Level (m)</td> <td>0.300</td> <td>Membrane Depth (m)</td> <td>0</td> </tr> </table>			Infiltration Coefficient Base (m/hr)	0.00648	Width (m)	5.5	Membrane Percolation (mm/hr)	1000	Length (m)	40.0	Max Percolation (l/s)	61.1	Slope (1:X)	72.0	Safety Factor	2.0	Depression Storage (mm)	5	Porosity	0.30	Evaporation (mm/day)	3	Invert Level (m)	0.000	Cap Volume Depth (m)	0.300	Infiltration Coefficient Base (m/hr)	0.00000	Width (m)	5.5	Membrane Percolation (mm/hr)	1000	Length (m)	40.0	Max Percolation (l/s)	61.1	Slope (1:X)	72.0	Safety Factor	2.0	Depression Storage (mm)	5	Porosity	0.95	Evaporation (mm/day)	3	Invert Level (m)	0.300	Membrane Depth (m)	0
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