

Shaun Tonge Engineering				Page 1																																																																																																																																																																																																																			
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<u>Summary of Results for 30 year Return Period</u> Half Drain Time : 5 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>98.835</td><td>0.235</td><td>1.8</td><td>0.7</td><td>O K</td></tr><tr><td>30 min Summer</td><td>98.830</td><td>0.230</td><td>1.8</td><td>0.7</td><td>O K</td></tr><tr><td>60 min Summer</td><td>98.777</td><td>0.177</td><td>1.6</td><td>0.5</td><td>O K</td></tr><tr><td>120 min Summer</td><td>98.693</td><td>0.093</td><td>1.4</td><td>0.3</td><td>O K</td></tr><tr><td>180 min Summer</td><td>98.651</td><td>0.051</td><td>1.2</td><td>0.1</td><td>O K</td></tr><tr><td>240 min Summer</td><td>98.642</td><td>0.042</td><td>1.0</td><td>0.1</td><td>O K</td></tr><tr><td>360 min Summer</td><td>98.631</td><td>0.031</td><td>0.8</td><td>0.1</td><td>O K</td></tr><tr><td>480 min Summer</td><td>98.626</td><td>0.026</td><td>0.6</td><td>0.1</td><td>O K</td></tr><tr><td>600 min Summer</td><td>98.622</td><td>0.022</td><td>0.5</td><td>0.1</td><td>O K</td></tr><tr><td>720 min Summer</td><td>98.619</td><td>0.019</td><td>0.5</td><td>0.1</td><td>O K</td></tr><tr><td>960 min Summer</td><td>98.615</td><td>0.015</td><td>0.4</td><td>0.0</td><td>O K</td></tr><tr><td>1440 min Summer</td><td>98.611</td><td>0.011</td><td>0.3</td><td>0.0</td><td>O K</td></tr><tr><td>2160 min Summer</td><td>98.608</td><td>0.008</td><td>0.2</td><td>0.0</td><td>O K</td></tr><tr><td>2880 min Summer</td><td>98.607</td><td>0.007</td><td>0.2</td><td>0.0</td><td>O K</td></tr><tr><td>4320 min Summer</td><td>98.605</td><td>0.005</td><td>0.1</td><td>0.0</td><td>O K</td></tr><tr><td>5760 min Summer</td><td>98.604</td><td>0.004</td><td>0.1</td><td>0.0</td><td>O K</td></tr><tr><td>7200 min Summer</td><td>98.604</td><td>0.004</td><td>0.1</td><td>0.0</td><td>O K</td></tr><tr><td>8640 min Summer</td><td>98.603</td><td>0.003</td><td>0.1</td><td>0.0</td><td>O K</td></tr><tr><td>10080 min Summer</td><td>98.603</td><td>0.003</td><td>0.1</td><td>0.0</td><td>O K</td></tr><tr><td>15 min Winter</td><td>98.863</td><td>0.263</td><td>1.9</td><td>0.8</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>69.299</td><td>0.0</td><td>12</td></tr><tr><td>30 min Summer</td><td>45.987</td><td>0.0</td><td>20</td></tr><tr><td>60 min Summer</td><td>29.238</td><td>0.0</td><td>36</td></tr><tr><td>120 min Summer</td><td>18.051</td><td>0.0</td><td>66</td></tr><tr><td>180 min Summer</td><td>13.465</td><td>0.0</td><td>94</td></tr><tr><td>240 min Summer</td><td>10.884</td><td>0.0</td><td>124</td></tr><tr><td>360 min Summer</td><td>8.039</td><td>0.0</td><td>184</td></tr><tr><td>480 min Summer</td><td>6.482</td><td>0.0</td><td>244</td></tr><tr><td>600 min 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Summer	98.830	0.230	1.8	0.7	O K	60 min Summer	98.777	0.177	1.6	0.5	O K	120 min Summer	98.693	0.093	1.4	0.3	O K	180 min Summer	98.651	0.051	1.2	0.1	O K	240 min Summer	98.642	0.042	1.0	0.1	O K	360 min Summer	98.631	0.031	0.8	0.1	O K	480 min Summer	98.626	0.026	0.6	0.1	O K	600 min Summer	98.622	0.022	0.5	0.1	O K	720 min Summer	98.619	0.019	0.5	0.1	O K	960 min Summer	98.615	0.015	0.4	0.0	O K	1440 min Summer	98.611	0.011	0.3	0.0	O K	2160 min Summer	98.608	0.008	0.2	0.0	O K	2880 min Summer	98.607	0.007	0.2	0.0	O K	4320 min Summer	98.605	0.005	0.1	0.0	O K	5760 min Summer	98.604	0.004	0.1	0.0	O K	7200 min Summer	98.604	0.004	0.1	0.0	O K	8640 min Summer	98.603	0.003	0.1	0.0	O K	10080 min Summer	98.603	0.003	0.1	0.0	O K	15 min Winter	98.863	0.263	1.9	0.8	O K	Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)	15 min Summer	69.299	0.0	12	30 min Summer	45.987	0.0	20	60 min Summer	29.238	0.0	36	120 min Summer	18.051	0.0	66	180 min Summer	13.465	0.0	94	240 min Summer	10.884	0.0	124	360 min 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720 min Winter	98.614	0.014	0.3	0.0	O K																																																																																																																																																																																														
960 min Winter	98.611	0.011	0.3	0.0	O K																																																																																																																																																																																														
1440 min Winter	98.608	0.008	0.2	0.0	O K																																																																																																																																																																																														
2160 min Winter	98.606	0.006	0.2	0.0	O K																																																																																																																																																																																														
2880 min Winter	98.605	0.005	0.1	0.0	O K																																																																																																																																																																																														
4320 min Winter	98.604	0.004	0.1	0.0	O K																																																																																																																																																																																														
5760 min Winter	98.603	0.003	0.1	0.0	O K																																																																																																																																																																																														
7200 min Winter	98.603	0.003	0.1	0.0	O K																																																																																																																																																																																														
8640 min Winter	98.602	0.002	0.1	0.0	O K																																																																																																																																																																																														
10080 min Winter	98.602	0.002	0.1	0.0	O K																																																																																																																																																																																														
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)																																																																																																																																																																																																
30 min Winter	45.987	0.0	21																																																																																																																																																																																																
60 min Winter	29.238	0.0	38																																																																																																																																																																																																
120 min Winter	18.051	0.0	64																																																																																																																																																																																																
180 min Winter	13.465	0.0	94																																																																																																																																																																																																
240 min Winter	10.884	0.0	124																																																																																																																																																																																																
360 min Winter	8.039	0.0	184																																																																																																																																																																																																
480 min Winter	6.482	0.0	240																																																																																																																																																																																																
600 min Winter	5.481	0.0	300																																																																																																																																																																																																
720 min Winter	4.777	0.0	360																																																																																																																																																																																																
960 min Winter	3.844	0.0	484																																																																																																																																																																																																
1440 min Winter	2.826	0.0	724																																																																																																																																																																																																
2160 min Winter	2.074	0.0	1140																																																																																																																																																																																																
2880 min Winter	1.664	0.0	1408																																																																																																																																																																																																
4320 min Winter	1.219	0.0	2048																																																																																																																																																																																																
5760 min Winter	0.977	0.0	2864																																																																																																																																																																																																
7200 min Winter	0.822	0.0	3544																																																																																																																																																																																																
8640 min Winter	0.714	0.0	4376																																																																																																																																																																																																
10080 min Winter	0.634	0.0	5016																																																																																																																																																																																																
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Designed by shaun
Checked by



Source Control 2020.1.3

Rainfall Model	FSR	Winter Storms	Yes
Return Period (years)	30	Cv (Summer)	0.750
Region	England and Wales	Cv (Winter)	0.840
M5-60 (mm)	19.000	Shortest Storm (mins)	15
Ratio R	0.357	Longest Storm (mins)	10080
Summer Storms	Yes	Climate Change %	+0

Total Area (ha) 0.012

Time (mins)	Area
From: To:	(ha)
00:00:00	0.0000
00:00:01	0.0000
00:00:02	0.0000
00:00:03	0.0000
00:00:04	0.0000
00:00:05	0.0000
00:00:06	0.0000
00:00:07	0.0000
00:00:08	0.0000
00:00:09	0.0000
00:00:10	0.0000
00:00:11	0.0000
00:00:12	0.0000
00:00:13	0.0000
00:00:14	0.0000
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00:02:01	0.0000
00:	

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Shaun Tonge Engineering		Page 4																		
11 Broomhead Road Wombell Barnsley S73 0SA																				
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CADS		Source Control 2020.1.3																		
Model Details Storage is Online Cover Level (m) 99.600 Cellular Storage Structure Invert Level (m) 98.600 Safety Factor 2.0 Infiltration Coefficient Base (m/hr) 2.62800 Porosity 0.95 Infiltration Coefficient Side (m/hr) 2.62800 <table><thead><tr><th>Depth (m)</th><th>Area (m²)</th><th>Inf. Area (m²)</th><th>Depth (m)</th><th>Area (m²)</th><th>Inf. Area (m²)</th></tr></thead><tbody><tr><td>0.000</td><td>3.0</td><td>3.0</td><td>0.500</td><td>0.0</td><td>6.2</td></tr><tr><td>0.400</td><td>3.0</td><td>6.2</td><td></td><td></td><td></td></tr></tbody></table>			Depth (m)	Area (m²)	Inf. Area (m²)	Depth (m)	Area (m²)	Inf. Area (m²)	0.000	3.0	3.0	0.500	0.0	6.2	0.400	3.0	6.2			
Depth (m)	Area (m²)	Inf. Area (m²)	Depth (m)	Area (m²)	Inf. Area (m²)															
0.000	3.0	3.0	0.500	0.0	6.2															
0.400	3.0	6.2																		
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