

Polypipe Civils				Page 1																																																																																																																																																																																																																			
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<u>Summary of Results for 100 year Return Period (+40%)</u> Half Drain Time : 555 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>98.480</td><td>0.280</td><td>0.1</td><td>3.2</td><td>O K</td></tr><tr><td>30 min Summer</td><td>98.572</td><td>0.372</td><td>0.1</td><td>4.2</td><td>O K</td></tr><tr><td>60 min Summer</td><td>98.667</td><td>0.467</td><td>0.1</td><td>5.3</td><td>O K</td></tr><tr><td>120 min Summer</td><td>98.755</td><td>0.555</td><td>0.1</td><td>6.3</td><td>O K</td></tr><tr><td>180 min Summer</td><td>98.796</td><td>0.596</td><td>0.1</td><td>6.8</td><td>O K</td></tr><tr><td>240 min Summer</td><td>98.815</td><td>0.615</td><td>0.1</td><td>7.0</td><td>O K</td></tr><tr><td>360 min Summer</td><td>98.828</td><td>0.628</td><td>0.1</td><td>7.2</td><td>O K</td></tr><tr><td>480 min Summer</td><td>98.827</td><td>0.627</td><td>0.1</td><td>7.1</td><td>O K</td></tr><tr><td>600 min Summer</td><td>98.823</td><td>0.623</td><td>0.1</td><td>7.1</td><td>O K</td></tr><tr><td>720 min Summer</td><td>98.817</td><td>0.617</td><td>0.1</td><td>7.0</td><td>O K</td></tr><tr><td>960 min Summer</td><td>98.802</td><td>0.602</td><td>0.1</td><td>6.9</td><td>O K</td></tr><tr><td>1440 min Summer</td><td>98.766</td><td>0.566</td><td>0.1</td><td>6.5</td><td>O K</td></tr><tr><td>2160 min Summer</td><td>98.714</td><td>0.514</td><td>0.1</td><td>5.9</td><td>O K</td></tr><tr><td>2880 min Summer</td><td>98.664</td><td>0.464</td><td>0.1</td><td>5.3</td><td>O K</td></tr><tr><td>4320 min Summer</td><td>98.578</td><td>0.378</td><td>0.1</td><td>4.3</td><td>O K</td></tr><tr><td>5760 min Summer</td><td>98.505</td><td>0.305</td><td>0.1</td><td>3.5</td><td>O K</td></tr><tr><td>7200 min Summer</td><td>98.445</td><td>0.245</td><td>0.1</td><td>2.8</td><td>O K</td></tr><tr><td>8640 min Summer</td><td>98.395</td><td>0.195</td><td>0.1</td><td>2.2</td><td>O K</td></tr><tr><td>10080 min Summer</td><td>98.355</td><td>0.155</td><td>0.1</td><td>1.8</td><td>O K</td></tr><tr><td>15 min Winter</td><td>98.514</td><td>0.314</td><td>0.1</td><td>3.6</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>124.633</td><td>0.0</td><td>19</td></tr><tr><td>30 min Summer</td><td>83.789</td><td>0.0</td><td>33</td></tr><tr><td>60 min Summer</td><td>53.779</td><td>0.0</td><td>64</td></tr><tr><td>120 min Summer</td><td>33.337</td><td>0.0</td><td>122</td></tr><tr><td>180 min Summer</td><td>24.832</td><td>0.0</td><td>182</td></tr><tr><td>240 min Summer</td><td>20.006</td><td>0.0</td><td>242</td></tr><tr><td>360 min Summer</td><td>14.706</td><td>0.0</td><td>360</td></tr><tr><td>480 min Summer</td><td>11.818</td><td>0.0</td><td>422</td></tr><tr><td>600 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Date 06/03/20			Designed by KCJ			
File T-MD-44977-KCJ-MD1.SRCX			Checked by			
Micro Drainage			Source Control 2016.1			
Summary of Results for 100 year Return Period (+40%)						
Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status	
30 min Winter	98.618	0.418	0.1	4.8	O K	
60 min Winter	98.726	0.526	0.1	6.0	O K	
120 min Winter	98.828	0.628	0.1	7.2	O K	
180 min Winter	98.876	0.676	0.1	7.7	O K	
240 min Winter	98.901	0.701	0.1	8.0	O K	
360 min Winter	98.922	0.722	0.1	8.2	O K	
480 min Winter	98.925	0.725	0.1	8.3	O K	
600 min Winter	98.918	0.718	0.1	8.2	O K	
720 min Winter	98.910	0.710	0.1	8.1	O K	
960 min Winter	98.891	0.691	0.1	7.9	O K	
1440 min Winter	98.841	0.641	0.1	7.3	O K	
2160 min Winter	98.762	0.562	0.1	6.4	O K	
2880 min Winter	98.690	0.490	0.1	5.6	O K	
4320 min Winter	98.565	0.365	0.1	4.2	O K	
5760 min Winter	98.465	0.265	0.1	3.0	O K	
7200 min Winter	98.385	0.185	0.1	2.1	O K	
8640 min Winter	98.323	0.123	0.1	1.4	O K	
10080 min Winter	98.277	0.077	0.1	0.9	O K	
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)			
30 min Winter	83.789	0.0	33			
60 min Winter	53.779	0.0	62			
120 min Winter	33.337	0.0	120			
180 min Winter	24.832	0.0	178			
240 min Winter	20.006	0.0	236			
360 min Winter	14.706	0.0	348			
480 min Winter	11.818	0.0	456			
600 min Winter	9.966	0.0	552			
720 min Winter	8.665	0.0	572			
960 min Winter	6.943	0.0	724			
1440 min Winter	5.071	0.0	1038			
2160 min Winter	3.696	0.0	1472			
2880 min Winter	2.949	0.0	1904			
4320 min Winter	2.142	0.0	2724			
5760 min Winter	1.705	0.0	3464			
7200 min Winter	1.427	0.0	4184			
8640 min Winter	1.235	0.0	4920			
10080 min Winter	1.093	0.0	5544			
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<u>Model Details</u> Storage is Online Cover Level (m) 100.000 <u>Cellular Storage Structure</u> Invert Level (m) 98.200 Safety Factor 2.0 Infiltration Coefficient Base (m/hr) 0.04560 Porosity 0.95 Infiltration Coefficient Side (m/hr) 0.04560 <table border="1" style="width: 100%; border-collapse: collapse;"> <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>12.0</td> <td>12.0</td> <td>0.900</td> <td>0.0</td> <td>23.2</td> </tr> <tr> <td>0.800</td> <td>12.0</td> <td>23.2</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>			Depth (m)	Area (m ²)	Inf. Area (m ²)	Depth (m)	Area (m ²)	Inf. Area (m ²)	0.000	12.0	12.0	0.900	0.0	23.2	0.800	12.0	23.2			
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