

Paul Basham Associates				Page 1																																																																																																																																																																																																																			
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<u>Summary of Results for 100 year Return Period (+40%)</u> Half Drain Time : 147 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>15.973</td><td>0.423</td><td>0.9</td><td>8.2</td><td>O K</td></tr><tr><td>30 min Summer</td><td>16.104</td><td>0.554</td><td>0.9</td><td>10.8</td><td>O K</td></tr><tr><td>60 min Summer</td><td>16.220</td><td>0.670</td><td>1.0</td><td>13.0</td><td>O K</td></tr><tr><td>120 min Summer</td><td>16.280</td><td>0.730</td><td>1.0</td><td>14.2</td><td>O K</td></tr><tr><td>180 min Summer</td><td>16.283</td><td>0.733</td><td>1.0</td><td>14.3</td><td>O K</td></tr><tr><td>240 min Summer</td><td>16.270</td><td>0.720</td><td>1.0</td><td>14.0</td><td>O K</td></tr><tr><td>360 min Summer</td><td>16.240</td><td>0.690</td><td>1.0</td><td>13.4</td><td>O K</td></tr><tr><td>480 min Summer</td><td>16.207</td><td>0.657</td><td>1.0</td><td>12.8</td><td>O K</td></tr><tr><td>600 min Summer</td><td>16.172</td><td>0.622</td><td>0.9</td><td>12.1</td><td>O K</td></tr><tr><td>720 min Summer</td><td>16.137</td><td>0.587</td><td>0.9</td><td>11.4</td><td>O K</td></tr><tr><td>960 min Summer</td><td>16.070</td><td>0.520</td><td>0.9</td><td>10.1</td><td>O K</td></tr><tr><td>1440 min Summer</td><td>15.949</td><td>0.399</td><td>0.8</td><td>7.8</td><td>O K</td></tr><tr><td>2160 min Summer</td><td>15.805</td><td>0.255</td><td>0.8</td><td>5.0</td><td>O K</td></tr><tr><td>2880 min Summer</td><td>15.704</td><td>0.154</td><td>0.7</td><td>3.0</td><td>O K</td></tr><tr><td>4320 min Summer</td><td>15.604</td><td>0.054</td><td>0.7</td><td>1.0</td><td>O K</td></tr><tr><td>5760 min Summer</td><td>15.591</td><td>0.041</td><td>0.6</td><td>0.8</td><td>O K</td></tr><tr><td>7200 min Summer</td><td>15.585</td><td>0.035</td><td>0.5</td><td>0.7</td><td>O K</td></tr><tr><td>8640 min Summer</td><td>15.580</td><td>0.030</td><td>0.4</td><td>0.6</td><td>O K</td></tr><tr><td>10080 min Summer</td><td>15.577</td><td>0.027</td><td>0.4</td><td>0.5</td><td>O K</td></tr><tr><td>15 min Winter</td><td>16.027</td><td>0.477</td><td>0.9</td><td>9.3</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>125.250</td><td>0.0</td><td>18</td></tr><tr><td>30 min Summer</td><td>85.368</td><td>0.0</td><td>32</td></tr><tr><td>60 min Summer</td><td>55.544</td><td>0.0</td><td>62</td></tr><tr><td>120 min Summer</td><td>34.816</td><td>0.0</td><td>112</td></tr><tr><td>180 min Summer</td><td>26.038</td><td>0.0</td><td>142</td></tr><tr><td>240 min Summer</td><td>21.042</td><td>0.0</td><td>174</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>12.593</td><td>0.0</td><td>314</td></tr><tr><td>600 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Summer	16.104	0.554	0.9	10.8	O K	60 min Summer	16.220	0.670	1.0	13.0	O K	120 min Summer	16.280	0.730	1.0	14.2	O K	180 min Summer	16.283	0.733	1.0	14.3	O K	240 min Summer	16.270	0.720	1.0	14.0	O K	360 min Summer	16.240	0.690	1.0	13.4	O K	480 min Summer	16.207	0.657	1.0	12.8	O K	600 min Summer	16.172	0.622	0.9	12.1	O K	720 min Summer	16.137	0.587	0.9	11.4	O K	960 min Summer	16.070	0.520	0.9	10.1	O K	1440 min Summer	15.949	0.399	0.8	7.8	O K	2160 min Summer	15.805	0.255	0.8	5.0	O K	2880 min Summer	15.704	0.154	0.7	3.0	O K	4320 min Summer	15.604	0.054	0.7	1.0	O K	5760 min Summer	15.591	0.041	0.6	0.8	O K	7200 min Summer	15.585	0.035	0.5	0.7	O K	8640 min Summer	15.580	0.030	0.4	0.6	O K	10080 min Summer	15.577	0.027	0.4	0.5	O K	15 min Winter	16.027	0.477	0.9	9.3	O K	Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)	15 min Summer	125.250	0.0	18	30 min Summer	85.368	0.0	32	60 min Summer	55.544	0.0	62	120 min Summer	34.816	0.0	112	180 min Summer	26.038	0.0	142	240 min 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Fareham PO15 5TU		INFILTRATION CRATES			
Date 07.08.2020		Designed by RW			
File catchment E.SRCX		Checked by AS			
XP Solutions		Source Control 2014.1			
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	16.179	0.629	1.0	12.2	O K
60 min Winter	16.316	0.766	1.0	14.9	O K
120 min Winter	16.398	0.848	1.1	16.5	O K
180 min Winter	16.398	0.848	1.1	16.5	O K
240 min Winter	16.383	0.833	1.1	16.2	O K
360 min Winter	16.338	0.788	1.0	15.3	O K
480 min Winter	16.285	0.735	1.0	14.3	O K
600 min Winter	16.231	0.681	1.0	13.3	O K
720 min Winter	16.178	0.628	1.0	12.2	O K
960 min Winter	16.076	0.526	0.9	10.2	O K
1440 min Winter	15.900	0.350	0.8	6.8	O K
2160 min Winter	15.708	0.158	0.7	3.1	O K
2880 min Winter	15.603	0.053	0.7	1.0	O K
4320 min Winter	15.587	0.037	0.5	0.7	O K
5760 min Winter	15.580	0.030	0.4	0.6	O K
7200 min Winter	15.575	0.025	0.4	0.5	O K
8640 min Winter	15.572	0.022	0.3	0.4	O K
10080 min Winter	15.570	0.020	0.3	0.4	O K
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)		
30 min Winter	85.368	0.0	32		
60 min Winter	55.544	0.0	60		
120 min Winter	34.816	0.0	116		
180 min Winter	26.038	0.0	150		
240 min Winter	21.042	0.0	186		
360 min Winter	15.601	0.0	264		
480 min Winter	12.593	0.0	338		
600 min Winter	10.656	0.0	412		
720 min Winter	9.290	0.0	484		
960 min Winter	7.475	0.0	626		
1440 min Winter	5.489	0.0	882		
2160 min Winter	4.021	0.0	1236		
2880 min Winter	3.220	0.0	1500		
4320 min Winter	2.348	0.0	2200		
5760 min Winter	1.878	0.0	2936		
7200 min Winter	1.581	0.0	3616		
8640 min Winter	1.373	0.0	4408		
10080 min Winter	1.219	0.0	5136		
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<u>Model Details</u> Storage is Online Cover Level (m) 17.000 <u>Cellular Storage Structure</u> Invert Level (m) 15.550 Safety Factor 4.0 Infiltration Coefficient Base (m/hr) 0.30852 Porosity 0.95 Infiltration Coefficient Side (m/hr) 0.30852 <table border="1"> <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>20.5</td> <td>32.0</td> <td>1.000</td> <td>20.5</td> <td>53.0</td> </tr> <tr> <td>0.500</td> <td>20.5</td> <td>41.5</td> <td>1.500</td> <td>20.5</td> <td>62.5</td> </tr> </tbody> </table>			Depth (m)	Area (m²)	Inf. Area (m²)	Depth (m)	Area (m²)	Inf. Area (m²)	0.000	20.5	32.0	1.000	20.5	53.0	0.500	20.5	41.5	1.500	20.5	62.5
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