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1 The Grove Felpham West Sussex PO22 7EY	34-44 CARLTON ROAD BOGNOR REGIS W SUSSEX																																																																																																																																																																																																																			
Date 01/07/2021 12:55 File FC2891 SWD 100YR40CC BL...	Designed by MH Checked by																																																																																																																																																																																																																			
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<u>Summary of Results for 10 year Return Period (+40%)</u> Half Drain Time : 655 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>49.421</td><td>0.081</td><td>1.2</td><td>33.2</td><td>O K</td></tr><tr><td>30 min Summer</td><td>49.446</td><td>0.106</td><td>1.2</td><td>43.4</td><td>O K</td></tr><tr><td>60 min Summer</td><td>49.472</td><td>0.132</td><td>1.2</td><td>53.9</td><td>O K</td></tr><tr><td>120 min Summer</td><td>49.497</td><td>0.157</td><td>1.2</td><td>64.5</td><td>O K</td></tr><tr><td>180 min Summer</td><td>49.511</td><td>0.171</td><td>1.2</td><td>70.1</td><td>O K</td></tr><tr><td>240 min Summer</td><td>49.520</td><td>0.180</td><td>1.2</td><td>73.5</td><td>O K</td></tr><tr><td>360 min Summer</td><td>49.529</td><td>0.189</td><td>1.2</td><td>77.2</td><td>O K</td></tr><tr><td>480 min Summer</td><td>49.532</td><td>0.192</td><td>1.2</td><td>78.6</td><td>O K</td></tr><tr><td>600 min Summer</td><td>49.533</td><td>0.193</td><td>1.2</td><td>79.1</td><td>O K</td></tr><tr><td>720 min Summer</td><td>49.534</td><td>0.194</td><td>1.2</td><td>79.2</td><td>O K</td></tr><tr><td>960 min Summer</td><td>49.533</td><td>0.193</td><td>1.2</td><td>78.8</td><td>O K</td></tr><tr><td>1440 min Summer</td><td>49.527</td><td>0.187</td><td>1.2</td><td>76.5</td><td>O K</td></tr><tr><td>2160 min Summer</td><td>49.514</td><td>0.174</td><td>1.2</td><td>71.4</td><td>O K</td></tr><tr><td>2880 min Summer</td><td>49.500</td><td>0.160</td><td>1.2</td><td>65.7</td><td>O K</td></tr><tr><td>4320 min Summer</td><td>49.474</td><td>0.134</td><td>1.2</td><td>54.7</td><td>O K</td></tr><tr><td>5760 min Summer</td><td>49.450</td><td>0.110</td><td>1.2</td><td>44.9</td><td>O K</td></tr><tr><td>7200 min Summer</td><td>49.430</td><td>0.090</td><td>1.2</td><td>36.7</td><td>O K</td></tr><tr><td>8640 min Summer</td><td>49.414</td><td>0.074</td><td>1.2</td><td>30.1</td><td>O K</td></tr><tr><td>10080 min Summer</td><td>49.401</td><td>0.061</td><td>1.2</td><td>25.2</td><td>O K</td></tr><tr><td>15 min Winter</td><td>49.431</td><td>0.091</td><td>1.2</td><td>37.3</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>76.214</td><td>0.0</td><td>19</td></tr><tr><td>30 min Summer</td><td>50.290</td><td>0.0</td><td>33</td></tr><tr><td>60 min Summer</td><td>31.908</td><td>0.0</td><td>64</td></tr><tr><td>120 min Summer</td><td>19.755</td><td>0.0</td><td>122</td></tr><tr><td>180 min Summer</td><td>14.804</td><td>0.0</td><td>182</td></tr><tr><td>240 min Summer</td><td>12.028</td><td>0.0</td><td>242</td></tr><tr><td>360 min Summer</td><td>8.957</td><td>0.0</td><td>360</td></tr><tr><td>480 min Summer</td><td>7.262</td><td>0.0</td><td>478</td></tr><tr><td>600 min Summer</td><td>6.168</td><td>0.0</td><td>524</td></tr><tr><td>720 min Summer</td><td>5.396</td><td>0.0</td><td>592</td></tr><tr><td>960 min Summer</td><td>4.369</td><td>0.0</td><td>716</td></tr><tr><td>1440 min Summer</td><td>3.241</td><td>0.0</td><td>984</td></tr><tr><td>2160 min Summer</td><td>2.402</td><td>0.0</td><td>1404</td></tr><tr><td>2880 min Summer</td><td>1.942</td><td>0.0</td><td>1812</td></tr><tr><td>4320 min Summer</td><td>1.437</td><td>0.0</td><td>2592</td></tr><tr><td>5760 min Summer</td><td>1.161</td><td>0.0</td><td>3344</td></tr><tr><td>7200 min Summer</td><td>0.983</td><td>0.0</td><td>4032</td></tr><tr><td>8640 min Summer</td><td>0.859</td><td>0.0</td><td>4680</td></tr><tr><td>10080 min Summer</td><td>0.766</td><td>0.0</td><td>5352</td></tr><tr><td>15 min Winter</td><td>76.214</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	49.421	0.081	1.2	33.2	O K	30 min Summer	49.446	0.106	1.2	43.4	O K	60 min Summer	49.472	0.132	1.2	53.9	O K	120 min Summer	49.497	0.157	1.2	64.5	O K	180 min Summer	49.511	0.171	1.2	70.1	O K	240 min Summer	49.520	0.180	1.2	73.5	O K	360 min Summer	49.529	0.189	1.2	77.2	O K	480 min Summer	49.532	0.192	1.2	78.6	O K	600 min Summer	49.533	0.193	1.2	79.1	O K	720 min Summer	49.534	0.194	1.2	79.2	O K	960 min Summer	49.533	0.193	1.2	78.8	O K	1440 min Summer	49.527	0.187	1.2	76.5	O K	2160 min Summer	49.514	0.174	1.2	71.4	O K	2880 min Summer	49.500	0.160	1.2	65.7	O K	4320 min Summer	49.474	0.134	1.2	54.7	O K	5760 min Summer	49.450	0.110	1.2	44.9	O K	7200 min Summer	49.430	0.090	1.2	36.7	O K	8640 min Summer	49.414	0.074	1.2	30.1	O K	10080 min Summer	49.401	0.061	1.2	25.2	O K	15 min Winter	49.431	0.091	1.2	37.3	O K	Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)	15 min Summer	76.214	0.0	19	30 min Summer	50.290	0.0	33	60 min Summer	31.908	0.0	64	120 min Summer	19.755	0.0	122	180 min Summer	14.804	0.0	182	240 min Summer	12.028	0.0	242	360 min Summer	8.957	0.0	360	480 min Summer	7.262	0.0	478	600 min Summer	6.168	0.0	524	720 min Summer	5.396	0.0	592	960 min Summer	4.369	0.0	716	1440 min Summer	3.241	0.0	984	2160 min Summer	2.402	0.0	1404	2880 min Summer	1.942	0.0	1812	4320 min Summer	1.437	0.0	2592	5760 min Summer	1.161	0.0	3344	7200 min Summer	0.983	0.0	4032	8640 min Summer	0.859	0.0	4680	10080 min Summer	0.766	0.0	5352	15 min Winter	76.214	0.0	19
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Date 01/07/2021 12:55 File FC2891 SWD 100YR40CC BL...	Designed by MH Checked by				
Micro Drainage		Source Control 2019.1			
<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	49.459	0.119	1.2	48.7	O K
60 min Winter	49.488	0.148	1.2	60.7	O K
120 min Winter	49.518	0.178	1.2	72.8	O K
180 min Winter	49.534	0.194	1.2	79.4	O K
240 min Winter	49.544	0.204	1.2	83.6	O K
360 min Winter	49.556	0.216	1.2	88.4	O K
480 min Winter	49.562	0.222	1.2	90.8	O K
600 min Winter	49.564	0.224	1.2	91.6	O K
720 min Winter	49.564	0.224	1.2	91.6	O K
960 min Winter	49.561	0.221	1.2	90.4	O K
1440 min Winter	49.552	0.212	1.2	86.8	O K
2160 min Winter	49.532	0.192	1.2	78.6	O K
2880 min Winter	49.510	0.170	1.2	69.5	O K
4320 min Winter	49.467	0.127	1.2	52.0	O K
5760 min Winter	49.431	0.091	1.2	37.3	O K
7200 min Winter	49.404	0.064	1.2	26.2	O K
8640 min Winter	49.390	0.050	1.2	20.3	O K
10080 min Winter	49.385	0.045	1.0	18.2	O K
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)		
30 min Winter	50.290	0.0	33		
60 min Winter	31.908	0.0	62		
120 min Winter	19.755	0.0	120		
180 min Winter	14.804	0.0	178		
240 min Winter	12.028	0.0	236		
360 min Winter	8.957	0.0	352		
480 min Winter	7.262	0.0	464		
600 min Winter	6.168	0.0	572		
720 min Winter	5.396	0.0	676		
960 min Winter	4.369	0.0	770		
1440 min Winter	3.241	0.0	1070		
2160 min Winter	2.402	0.0	1532		
2880 min Winter	1.942	0.0	1960		
4320 min Winter	1.437	0.0	2764		
5760 min Winter	1.161	0.0	3464		
7200 min Winter	0.983	0.0	4104		
8640 min Winter	0.859	0.0	4576		
10080 min Winter	0.766	0.0	5248		
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<u>Model Details</u> Storage is Online Cover Level (m) 50.000 <u>Infiltration Blanket Structure</u> <table style="margin-left: auto; margin-right: auto;"> <tr> <td>Infiltration Coefficient Base (m/hr)</td> <td>0.01800</td> <td>Diameter/Width (m)</td> <td>11.7</td> </tr> <tr> <td>Safety Factor</td> <td>5.0</td> <td>Length (m)</td> <td>100.0</td> </tr> <tr> <td>Porosity</td> <td>0.35</td> <td>Cap Volume Depth (m)</td> <td>0.450</td> </tr> <tr> <td>Invert Level (m)</td> <td>49.340</td> <td></td> <td></td> </tr> </table>			Infiltration Coefficient Base (m/hr)	0.01800	Diameter/Width (m)	11.7	Safety Factor	5.0	Length (m)	100.0	Porosity	0.35	Cap Volume Depth (m)	0.450	Invert Level (m)	49.340		
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