

| The Civil Engineering Practice                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       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   |     |      |                  |       |     |      |               |         |     |    |
| <p><u>Summary of Results for 100 year Return Period (+40%)</u></p> <p>Half Drain Time : 52 minutes.</p> <table><thead><tr><th>Storm<br/>Event</th><th>Max<br/>Level<br/>(m)</th><th>Max<br/>Depth<br/>(m)</th><th>Max<br/>Infiltration<br/>(l/s)</th><th>Max<br/>Volume<br/>(m³)</th><th>Status</th></tr></thead><tbody><tr><td>15 min Summer</td><td>13.843</td><td>0.943</td><td>4.8</td><td>17.9</td><td>O K</td></tr><tr><td>30 min Summer</td><td>14.062</td><td>1.162</td><td>5.6</td><td>22.1</td><td>O K</td></tr><tr><td>60 min Summer</td><td>14.214</td><td>1.314</td><td>5.6</td><td>25.0</td><td>O K</td></tr><tr><td>120 min Summer</td><td>14.267</td><td>1.367</td><td>5.6</td><td>26.0</td><td>O K</td></tr><tr><td>180 min Summer</td><td>14.218</td><td>1.318</td><td>5.6</td><td>25.0</td><td>O K</td></tr><tr><td>240 min Summer</td><td>14.139</td><td>1.239</td><td>5.6</td><td>23.5</td><td>O K</td></tr><tr><td>360 min Summer</td><td>13.996</td><td>1.096</td><td>5.6</td><td>20.8</td><td>O K</td></tr><tr><td>480 min Summer</td><td>13.895</td><td>0.995</td><td>5.1</td><td>18.9</td><td>O K</td></tr><tr><td>600 min Summer</td><td>13.813</td><td>0.913</td><td>4.6</td><td>17.3</td><td>O K</td></tr><tr><td>720 min Summer</td><td>13.744</td><td>0.844</td><td>4.3</td><td>16.0</td><td>O K</td></tr><tr><td>960 min Summer</td><td>13.636</td><td>0.736</td><td>3.7</td><td>14.0</td><td>O K</td></tr><tr><td>1440 min Summer</td><td>13.491</td><td>0.591</td><td>3.0</td><td>11.2</td><td>O K</td></tr><tr><td>2160 min Summer</td><td>13.362</td><td>0.462</td><td>2.4</td><td>8.8</td><td>O K</td></tr><tr><td>2880 min Summer</td><td>13.282</td><td>0.382</td><td>1.9</td><td>7.3</td><td>O K</td></tr><tr><td>4320 min Summer</td><td>13.189</td><td>0.289</td><td>1.5</td><td>5.5</td><td>O K</td></tr><tr><td>5760 min Summer</td><td>13.134</td><td>0.234</td><td>1.2</td><td>4.5</td><td>O K</td></tr><tr><td>7200 min Summer</td><td>13.098</td><td>0.198</td><td>1.0</td><td>3.8</td><td>O K</td></tr><tr><td>8640 min Summer</td><td>13.072</td><td>0.172</td><td>0.9</td><td>3.3</td><td>O K</td></tr><tr><td>10080 min Summer</td><td>13.053</td><td>0.153</td><td>0.8</td><td>2.9</td><td>O K</td></tr><tr><td>15 min Winter</td><td>13.956</td><td>1.056</td><td>5.4</td><td>20.1</td><td>O K</td></tr></tbody></table><br><table><thead><tr><th>Storm<br/>Event</th><th>Rain<br/>(mm/hr)</th><th>Flooded<br/>Volume<br/>(m³)</th><th>Time-Peak<br/>(mins)</th></tr></thead><tbody><tr><td>15 min Summer</td><td>128.238</td><td>0.0</td><td>18</td></tr><tr><td>30 min Summer</td><td>86.178</td><td>0.0</td><td>30</td></tr><tr><td>60 min Summer</td><td>55.250</td><td>0.0</td><td>48</td></tr><tr><td>120 min Summer</td><td>34.177</td><td>0.0</td><td>82</td></tr><tr><td>180 min Summer</td><td>25.410</td><td>0.0</td><td>116</td></tr><tr><td>240 min Summer</td><td>20.436</td><td>0.0</td><td>148</td></tr><tr><td>360 min Summer</td><td>15.037</td><td>0.0</td><td>210</td></tr><tr><td>480 min Summer</td><td>12.081</td><td>0.0</td><td>272</td></tr><tr><td>600 min Summer</td><td>10.185</td><td>0.0</td><td>334</td></tr><tr><td>720 min Summer</td><td>8.854</td><td>0.0</td><td>396</td></tr><tr><td>960 min Summer</td><td>7.093</td><td>0.0</td><td>520</td></tr><tr><td>1440 min Summer</td><td>5.178</td><td>0.0</td><td>764</td></tr><tr><td>2160 min Summer</td><td>3.772</td><td>0.0</td><td>1124</td></tr><tr><td>2880 min Summer</td><td>3.009</td><td>0.0</td><td>1476</td></tr><tr><td>4320 min Summer</td><td>2.184</td><td>0.0</td><td>2204</td></tr><tr><td>5760 min Summer</td><td>1.738</td><td>0.0</td><td>2936</td></tr><tr><td>7200 min Summer</td><td>1.455</td><td>0.0</td><td>3672</td></tr><tr><td>8640 min Summer</td><td>1.260</td><td>0.0</td><td>4408</td></tr><tr><td>10080 min Summer</td><td>1.115</td><td>0.0</td><td>5136</td></tr><tr><td>15 min Winter</td><td>128.238</td><td>0.0</td><td>18</td></tr></tbody></table> |                     |                                           |                              |                                                                                     |        | Storm<br>Event | Max<br>Level<br>(m) | Max<br>Depth<br>(m) | Max<br>Infiltration<br>(l/s) | Max<br>Volume<br>(m³) | Status | 15 min Summer | 13.843 | 0.943 | 4.8 | 17.9 | O K | 30 min Summer | 14.062 | 1.162 | 5.6 | 22.1 | O K | 60 min Summer | 14.214 | 1.314 | 5.6 | 25.0 | O K | 120 min Summer | 14.267 | 1.367 | 5.6 | 26.0 | O K | 180 min Summer | 14.218 | 1.318 | 5.6 | 25.0 | O K | 240 min Summer | 14.139 | 1.239 | 5.6 | 23.5 | O K | 360 min Summer | 13.996 | 1.096 | 5.6 | 20.8 | O K | 480 min Summer | 13.895 | 0.995 | 5.1 | 18.9 | O K | 600 min Summer | 13.813 | 0.913 | 4.6 | 17.3 | O K | 720 min Summer | 13.744 | 0.844 | 4.3 | 16.0 | O K | 960 min Summer | 13.636 | 0.736 | 3.7 | 14.0 | O K | 1440 min Summer | 13.491 | 0.591 | 3.0 | 11.2 | O K | 2160 min Summer | 13.362 | 0.462 | 2.4 | 8.8 | O K | 2880 min Summer | 13.282 | 0.382 | 1.9 | 7.3 | O K | 4320 min Summer | 13.189 | 0.289 | 1.5 | 5.5 | O K | 5760 min Summer | 13.134 | 0.234 | 1.2 | 4.5 | O K | 7200 min Summer | 13.098 | 0.198 | 1.0 | 3.8 | O K | 8640 min Summer | 13.072 | 0.172 | 0.9 | 3.3 | O K | 10080 min Summer | 13.053 | 0.153 | 0.8 | 2.9 | O K | 15 min Winter | 13.956 | 1.056 | 5.4 | 20.1 | O K | Storm<br>Event | Rain<br>(mm/hr) | Flooded<br>Volume<br>(m³) | Time-Peak<br>(mins) | 15 min Summer | 128.238 | 0.0 | 18 | 30 min Summer | 86.178 | 0.0 | 30 | 60 min Summer | 55.250 | 0.0 | 48 | 120 min Summer | 34.177 | 0.0 | 82 | 180 min Summer | 25.410 | 0.0 | 116 | 240 min Summer | 20.436 | 0.0 | 148 | 360 min Summer | 15.037 | 0.0 | 210 | 480 min Summer | 12.081 | 0.0 | 272 | 600 min Summer | 10.185 | 0.0 | 334 | 720 min Summer | 8.854 | 0.0 | 396 | 960 min Summer | 7.093 | 0.0 | 520 | 1440 min Summer | 5.178 | 0.0 | 764 | 2160 min Summer | 3.772 | 0.0 | 1124 | 2880 min Summer | 3.009 | 0.0 | 1476 | 4320 min Summer | 2.184 | 0.0 | 2204 | 5760 min Summer | 1.738 | 0.0 | 2936 | 7200 min Summer | 1.455 | 0.0 | 3672 | 8640 min Summer | 1.260 | 0.0 | 4408 | 10080 min Summer | 1.115 | 0.0 | 5136 | 15 min Winter | 128.238 | 0.0 | 18 |
| Storm<br>Event                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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                                                           | Status |                |                     |                     |                              |                       |        |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |              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   |     |      |                  |       |     |      |               |         |     |    |
| 15 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 13.843              | 0.943                                     | 4.8                          | 17.9                                                                                | O K    |                |                     |                     |                              |                       |        |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |              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   |     |      |                  |       |     |      |               |         |     |    |
| 30 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          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                                                           | O K    |                |                     |                     |                              |                       |        |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |              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   |     |      |                  |       |     |      |               |         |     |    |
| 60 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 14.214              | 1.314                                     | 5.6                          | 25.0                                                                                | O K    |                |                     |                     |                              |                       |        |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |      |     |                |                 |                           |                     |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 120 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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                                                           | O K    |                |                     |                     |                              |                       |        |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |      |     |                |                 |                           |                     |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 180 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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                                                           | O K    |                |                     |                     |                              |                       |        |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |      |     |                |                 |                           |                     |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 240 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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                                                           | O K    |                |                     |                     |                              |                       |        |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |      |     |                |                 |                           |                     |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 360 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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                                                           | O K    |                |                     |                     |                              |                       |        |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |      |     |                |                 |                           |                     |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 480 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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                                                           | O K    |                |                     |                     |                              |                       |        |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |      |     |                |                 |                           |                     |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 600 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 13.813              | 0.913                                     | 4.6                          | 17.3                                                                                | O K    |                |                     |                     |                              |                       |        |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |      |     |                |                 |                           |                     |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 720 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 13.744              | 0.844                                     | 4.3                          | 16.0                                                                                | O K    |                |                     |                     |                              |                       |        |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |      |     |                |                 |                           |                     |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 960 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 13.636              | 0.736                                     | 3.7                          | 14.0                                                                                | O K    |                |                     |                     |                              |                       |        |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |      |     |                |                 |                           |                     |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 1440 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 13.491              | 0.591                                     | 3.0                          | 11.2                                                                                | O K    |                |                     |                     |                              |                       |        |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |      |     |                |                 |                           |                     |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 2160 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 13.362              | 0.462                                     | 2.4                          | 8.8                                                                                 | O K    |                |                     |                     |                              |                       |        |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |      |     |                |                 |                           |                     |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 2880 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 13.282              | 0.382                                     | 1.9                          | 7.3                                                                                 | O K    |                |                     |                     |                              |                       |        |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |      |     |                |                 |                           |                     |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 4320 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 13.189              | 0.289                                     | 1.5                          | 5.5                                                                                 | O K    |                |                     |                     |                              |                       |        |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |      |     |                |                 |                           |                     |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 5760 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 13.134              | 0.234                                     | 1.2                          | 4.5                                                                                 | O K    |                |                     |                     |                              |                       |        |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |      |     |                |                 |                           |                     |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 7200 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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                                                           | O K    |                |                     |                     |                              |                       |        |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |      |     |                |                 |                           |                     |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 8640 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 13.072              | 0.172                                     | 0.9                          | 3.3                                                                                 | O K    |                |                     |                     |                              |                       |        |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |      |     |                |                 |                           |                     |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 10080 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       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                                                           | O K    |                |                     |                     |                              |                       |        |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |      |     |                |                 |                           |                     |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 15 min Winter                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          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                                                           | O K    |                |                     |                     |                              |                       |        |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |      |     |                |                 |                           |                     |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| Storm<br>Event                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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                                                           |        |                |                     |                     |                              |                       |        |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |      |     |                |                 |                           |                     |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 15 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          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                                                           |        |                |                     |                     |                              |                       |        |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |      |     |                |                 |                           |                     |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 30 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          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                                                           |        |                |                     |                     |                              |                       |        |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |              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   |     |      |                  |       |     |      |               |         |     |    |
| 60 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          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                                                           |        |                |                     |                     |                              |                       |        |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |              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   |     |      |                  |       |     |      |               |         |     |    |
| 120 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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                                                           |        |                |                     |                     |                              |                       |        |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |      |     |                |                 |                           |                     |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 180 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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                                                           |        |                |                     |                     |                              |                       |        |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |      |     |                |                 |                           |                     |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 240 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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                                                           |        |                |                     |                     |                              |                       |        |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |      |     |                |                 |                           |                     |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 360 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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                                                           |        |                |                     |                     |                              |                       |        |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |      |     |                |                 |                           |                     |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 480 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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                                                           |        |                |                     |                     |                              |                       |        |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |      |     |                |                 |                           |                     |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 600 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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                                                           |        |                |                     |                     |                              |                       |        |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |      |     |                |                 |                           |                     |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 720 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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                                                           |        |                |                     |                     |                              |                       |        |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |      |     |                |                 |                           |                     |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 960 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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                                                           |        |                |                     |                     |                              |                       |        |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |      |     |                |                 |                           |                     |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 1440 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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                                                           |        |                |                     |                     |                              |                       |        |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |      |     |                |                 |                           |                     |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 2160 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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                                                           |        |                |                     |                     |                              |                       |        |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |      |     |                |                 |                           |                     |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 2880 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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                                                           |        |                |                     |                     |                              |                       |        |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |              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   |     |      |                  |       |     |      |               |         |     |    |
| 4320 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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                                                           |        |                |                     |                     |                              |                       |        |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |              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   |     |      |                  |       |     |      |               |         |     |    |
| 5760 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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                                                           |        |                |                     |                     |                              |                       |        |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |              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   |     |      |                  |       |     |      |               |         |     |    |
| 7200 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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                                                           |        |                |                     |                     |                              |                       |        |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |      |     |                |                 |                           |                     |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 8640 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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                                                           |        |                |                     |                     |                              |                       |        |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |              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   |     |      |                  |       |     |      |               |         |     |    |
| 10080 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       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                                                           |        |                |                     |                     |                              |                       |        |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |      |     |                |                 |                           |                     |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 15 min Winter                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          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                                                           |        |                |                     |                     |                              |                       |        |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |      |     |                |                 |                           |                     |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |    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| ©1982-2017 XP Solutions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                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|---------------------------------------------------------------|---------------------|-------------------------------------------|------------------------------|-----------------------|-------------------------------------------------------------------------------------|
| The Civil Engineering Practice                                |                     |                                           |                              |                       | Page 2                                                                              |
| 11 Tungsten Building<br>George Street<br>Fishersgate BN41 1RA |                     | Manor Nursery<br>Angmering<br>West Sussex |                              |                       |  |
| Date 27/06/2019<br>File Soakaway 2.SRCX                       |                     | Designed by S Burgess<br>Checked by SRD   |                              |                       |                                                                                     |
| Innovyze                                                      |                     | Source Control 2017.1.2                   |                              |                       |                                                                                     |
| <u>Summary of Results for 100 year Return Period (+40%)</u>   |                     |                                           |                              |                       |                                                                                     |
| Storm<br>Event                                                | Max<br>Level<br>(m) | Max<br>Depth<br>(m)                       | Max<br>Infiltration<br>(l/s) | Max<br>Volume<br>(m³) | Status                                                                              |
| 30 min Winter                                                 | 14.223              | 1.323                                     | 5.6                          | 25.1                  | O K                                                                                 |
| 60 min Winter                                                 | 14.388              | 1.488                                     | 5.6                          | 28.3                  | O K                                                                                 |
| 120 min Winter                                                | 14.410              | 1.510                                     | 5.6                          | 28.7                  | O K                                                                                 |
| 180 min Winter                                                | 14.309              | 1.409                                     | 5.6                          | 26.8                  | O K                                                                                 |
| 240 min Winter                                                | 14.178              | 1.278                                     | 5.6                          | 24.3                  | O K                                                                                 |
| 360 min Winter                                                | 13.971              | 1.071                                     | 5.5                          | 20.4                  | O K                                                                                 |
| 480 min Winter                                                | 13.841              | 0.941                                     | 4.8                          | 17.9                  | O K                                                                                 |
| 600 min Winter                                                | 13.739              | 0.839                                     | 4.3                          | 15.9                  | O K                                                                                 |
| 720 min Winter                                                | 13.658              | 0.758                                     | 3.9                          | 14.4                  | O K                                                                                 |
| 960 min Winter                                                | 13.537              | 0.637                                     | 3.2                          | 12.1                  | O K                                                                                 |
| 1440 min Winter                                               | 13.387              | 0.487                                     | 2.5                          | 9.2                   | O K                                                                                 |
| 2160 min Winter                                               | 13.264              | 0.364                                     | 1.9                          | 6.9                   | O K                                                                                 |
| 2880 min Winter                                               | 13.194              | 0.294                                     | 1.5                          | 5.6                   | O K                                                                                 |
| 4320 min Winter                                               | 13.116              | 0.216                                     | 1.1                          | 4.1                   | O K                                                                                 |
| 5760 min Winter                                               | 13.073              | 0.173                                     | 0.9                          | 3.3                   | O K                                                                                 |
| 7200 min Winter                                               | 13.045              | 0.145                                     | 0.7                          | 2.8                   | O K                                                                                 |
| 8640 min Winter                                               | 13.026              | 0.126                                     | 0.6                          | 2.4                   | O K                                                                                 |
| 10080 min Winter                                              | 13.011              | 0.111                                     | 0.6                          | 2.1                   | O K                                                                                 |
| Storm<br>Event                                                | Rain<br>(mm/hr)     | Flooded<br>Volume<br>(m³)                 | Time-Peak<br>(mins)          |                       |                                                                                     |
| 30 min Winter                                                 | 86.178              | 0.0                                       | 31                           |                       |                                                                                     |
| 60 min Winter                                                 | 55.250              | 0.0                                       | 52                           |                       |                                                                                     |
| 120 min Winter                                                | 34.177              | 0.0                                       | 88                           |                       |                                                                                     |
| 180 min Winter                                                | 25.410              | 0.0                                       | 124                          |                       |                                                                                     |
| 240 min Winter                                                | 20.436              | 0.0                                       | 158                          |                       |                                                                                     |
| 360 min Winter                                                | 15.037              | 0.0                                       | 220                          |                       |                                                                                     |
| 480 min Winter                                                | 12.081              | 0.0                                       | 284                          |                       |                                                                                     |
| 600 min Winter                                                | 10.185              | 0.0                                       | 346                          |                       |                                                                                     |
| 720 min Winter                                                | 8.854               | 0.0                                       | 408                          |                       |                                                                                     |
| 960 min Winter                                                | 7.093               | 0.0                                       | 530                          |                       |                                                                                     |
| 1440 min Winter                                               | 5.178               | 0.0                                       | 778                          |                       |                                                                                     |
| 2160 min Winter                                               | 3.772               | 0.0                                       | 1132                         |                       |                                                                                     |
| 2880 min Winter                                               | 3.009               | 0.0                                       | 1500                         |                       |                                                                                     |
| 4320 min Winter                                               | 2.184               | 0.0                                       | 2208                         |                       |                                                                                     |
| 5760 min Winter                                               | 1.738               | 0.0                                       | 2936                         |                       |                                                                                     |
| 7200 min Winter                                               | 1.455               | 0.0                                       | 3672                         |                       |                                                                                     |
| 8640 min Winter                                               | 1.260               | 0.0                                       | 4400                         |                       |                                                                                     |
| 10080 min Winter                                              | 1.115               | 0.0                                       | 5080                         |                       |                                                                                     |
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| The Civil Engineering Practice                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                           | Page 4                                                                              |                                              |                      |                                              |                        |                   |                 |               |                            |                         |                                  |
| 11 Tungsten Building<br>George Street<br>Fishersgate BN41 1RA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Manor Nursery<br>Angmering<br>West Sussex |  |                                              |                      |                                              |                        |                   |                 |               |                            |                         |                                  |
| Date 27/06/2019<br>File Soakaway 2.SRCX                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Designed by S Burgess<br>Checked by SRD   |                                                                                     |                                              |                      |                                              |                        |                   |                 |               |                            |                         |                                  |
| Innovyze Source Control 2017.1.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                           |                                                                                     |                                              |                      |                                              |                        |                   |                 |               |                            |                         |                                  |
| <p style="text-align: center;"><u>Model Details</u></p> <p style="text-align: center;">Storage is Online Cover Level (m) 15.700</p> <p style="text-align: center;"><u>Infiltration Trench Structure</u></p> <table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">Infiltration Coefficient Base (m/hr) 0.00000</td> <td style="width: 50%;">Trench Width (m) 2.0</td> </tr> <tr> <td>Infiltration Coefficient Side (m/hr) 1.52640</td> <td>Trench Length (m) 10.0</td> </tr> <tr> <td>Safety Factor 2.0</td> <td>Slope (1:X) 0.0</td> </tr> <tr> <td>Porosity 0.95</td> <td>Cap Volume Depth (m) 1.600</td> </tr> <tr> <td>Invert Level (m) 12.900</td> <td>Cap Infiltration Depth (m) 1.100</td> </tr> </table> |                                           |                                                                                     | Infiltration Coefficient Base (m/hr) 0.00000 | Trench Width (m) 2.0 | Infiltration Coefficient Side (m/hr) 1.52640 | Trench Length (m) 10.0 | Safety Factor 2.0 | Slope (1:X) 0.0 | Porosity 0.95 | Cap Volume Depth (m) 1.600 | Invert Level (m) 12.900 | Cap Infiltration Depth (m) 1.100 |
| Infiltration Coefficient Base (m/hr) 0.00000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Trench Width (m) 2.0                      |                                                                                     |                                              |                      |                                              |                        |                   |                 |               |                            |                         |                                  |
| Infiltration Coefficient Side (m/hr) 1.52640                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Trench Length (m) 10.0                    |                                                                                     |                                              |                      |                                              |                        |                   |                 |               |                            |                         |                                  |
| Safety Factor 2.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Slope (1:X) 0.0                           |                                                                                     |                                              |                      |                                              |                        |                   |                 |               |                            |                         |                                  |
| Porosity 0.95                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Cap Volume Depth (m) 1.600                |                                                                                     |                                              |                      |                                              |                        |                   |                 |               |                            |                         |                                  |
| Invert Level (m) 12.900                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Cap Infiltration Depth (m) 1.100          |                                                                                     |                                              |                      |                                              |                        |                   |                 |               |                            |                         |                                  |
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