

| Paul Basham Associates                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |               |                         |                        | Page 1          |                                                                                     |             |               |               |                        |                 |        |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |      |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |      |     |                  |        |       |     |      |     |               |        |       |     |      |     |             |              |                     |                  |               |        |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |        |     |    |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-------------------------|------------------------|-----------------|-------------------------------------------------------------------------------------|-------------|---------------|---------------|------------------------|-----------------|--------|---------------|--------|-------|-----|------|-----|---------------|--------|-------|-----|------|-----|---------------|--------|-------|-----|------|-----|----------------|--------|-------|-----|-------|-----|----------------|--------|-------|-----|-------|-----|----------------|--------|-------|-----|-------|-----|----------------|--------|-------|-----|-------|-----|----------------|--------|-------|-----|-------|-----|----------------|--------|-------|-----|-------|-----|----------------|--------|-------|-----|-------|-----|----------------|--------|-------|-----|-------|-----|-----------------|--------|-------|-----|-------|-----|-----------------|--------|-------|-----|-------|-----|-----------------|--------|-------|-----|-------|-----|-----------------|--------|-------|-----|-------|-----|-----------------|--------|-------|-----|-------|-----|-----------------|--------|-------|-----|-------|-----|-----------------|--------|-------|-----|------|-----|------------------|--------|-------|-----|------|-----|---------------|--------|-------|-----|------|-----|-------------|--------------|---------------------|------------------|---------------|--------|-----|----|---------------|--------|-----|----|---------------|--------|-----|----|----------------|--------|-----|-----|----------------|--------|-----|-----|----------------|--------|-----|-----|----------------|-------|-----|-----|----------------|-------|-----|-----|----------------|-------|-----|-----|----------------|-------|-----|-----|----------------|-------|-----|-----|-----------------|-------|-----|-----|-----------------|-------|-----|------|-----------------|-------|-----|------|-----------------|-------|-----|------|-----------------|-------|-----|------|-----------------|-------|-----|------|-----------------|-------|-----|------|------------------|-------|-----|------|---------------|--------|-----|----|
| Lancaster Court<br>Fareham<br>Hampshire, PO15 5TU                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |               | 5NO                     |                        |                 |  |             |               |               |                        |                 |        |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |      |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |      |     |                  |        |       |     |      |     |               |        |       |     |      |     |             |              |                     |                  |               |        |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |        |     |    |
| Date 29/04/2019                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |               | Designed by JB          |                        |                 |                                                                                     |             |               |               |                        |                 |        |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |      |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |      |     |                  |        |       |     |      |     |               |        |       |     |      |     |             |              |                     |                  |               |        |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |        |     |    |
| File 5no Ring Soakaway. lin1...                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |               | Checked by AS           |                        |                 |                                                                                     |             |               |               |                        |                 |        |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |      |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |      |     |                  |        |       |     |      |     |               |        |       |     |      |     |             |              |                     |                  |               |        |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |        |     |    |
| Innovyze                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |               | Source Control 2018.1.1 |                        |                 |                                                                                     |             |               |               |                        |                 |        |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |      |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |      |     |                  |        |       |     |      |     |               |        |       |     |      |     |             |              |                     |                  |               |        |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |        |     |    |
| <p>Summary of Results for 10 year Return Period (+30%)</p> <p>Half Drain Time : 833 minutes.</p> <table><thead><tr><th>Storm Event</th><th>Max Level (m)</th><th>Max Depth (m)</th><th>Max Infiltration (l/s)</th><th>Max Volume (m³)</th><th>Status</th></tr></thead><tbody><tr><td>15 min Summer</td><td>-4.060</td><td>1.040</td><td>1.0</td><td>53.2</td><td>O K</td></tr><tr><td>30 min Summer</td><td>-3.739</td><td>1.361</td><td>1.1</td><td>69.7</td><td>O K</td></tr><tr><td>60 min Summer</td><td>-3.398</td><td>1.702</td><td>1.3</td><td>87.1</td><td>O K</td></tr><tr><td>120 min Summer</td><td>-3.052</td><td>2.048</td><td>1.5</td><td>104.9</td><td>O K</td></tr><tr><td>180 min Summer</td><td>-2.858</td><td>2.242</td><td>1.5</td><td>114.8</td><td>O K</td></tr><tr><td>240 min Summer</td><td>-2.735</td><td>2.365</td><td>1.6</td><td>121.1</td><td>O K</td></tr><tr><td>360 min Summer</td><td>-2.589</td><td>2.511</td><td>1.7</td><td>128.5</td><td>O K</td></tr><tr><td>480 min Summer</td><td>-2.518</td><td>2.582</td><td>1.7</td><td>132.2</td><td>O K</td></tr><tr><td>600 min Summer</td><td>-2.485</td><td>2.615</td><td>1.7</td><td>133.9</td><td>O K</td></tr><tr><td>720 min Summer</td><td>-2.463</td><td>2.637</td><td>1.7</td><td>135.0</td><td>O K</td></tr><tr><td>960 min Summer</td><td>-2.438</td><td>2.662</td><td>1.7</td><td>136.3</td><td>O K</td></tr><tr><td>1440 min Summer</td><td>-2.439</td><td>2.661</td><td>1.7</td><td>136.2</td><td>O K</td></tr><tr><td>2160 min Summer</td><td>-2.509</td><td>2.591</td><td>1.7</td><td>132.7</td><td>O K</td></tr><tr><td>2880 min Summer</td><td>-2.607</td><td>2.493</td><td>1.7</td><td>127.7</td><td>O K</td></tr><tr><td>4320 min Summer</td><td>-2.804</td><td>2.296</td><td>1.6</td><td>117.6</td><td>O K</td></tr><tr><td>5760 min Summer</td><td>-2.979</td><td>2.121</td><td>1.5</td><td>108.6</td><td>O K</td></tr><tr><td>7200 min Summer</td><td>-3.136</td><td>1.964</td><td>1.4</td><td>100.6</td><td>O K</td></tr><tr><td>8640 min Summer</td><td>-3.275</td><td>1.825</td><td>1.4</td><td>93.4</td><td>O K</td></tr><tr><td>10080 min Summer</td><td>-3.401</td><td>1.699</td><td>1.3</td><td>87.0</td><td>O K</td></tr><tr><td>15 min Winter</td><td>-3.934</td><td>1.166</td><td>1.0</td><td>59.7</td><td>O K</td></tr></tbody></table> <table><thead><tr><th>Storm Event</th><th>Rain (mm/hr)</th><th>Flooded Volume (m³)</th><th>Time-Peak (mins)</th></tr></thead><tbody><tr><td>15 min Summer</td><td>70.770</td><td>0.0</td><td>19</td></tr><tr><td>30 min Summer</td><td>46.698</td><td>0.0</td><td>34</td></tr><tr><td>60 min Summer</td><td>29.629</td><td>0.0</td><td>64</td></tr><tr><td>120 min Summer</td><td>18.344</td><td>0.0</td><td>122</td></tr><tr><td>180 min Summer</td><td>13.747</td><td>0.0</td><td>182</td></tr><tr><td>240 min Summer</td><td>11.169</td><td>0.0</td><td>242</td></tr><tr><td>360 min Summer</td><td>8.317</td><td>0.0</td><td>362</td></tr><tr><td>480 min Summer</td><td>6.743</td><td>0.0</td><td>480</td></tr><tr><td>600 min Summer</td><td>5.728</td><td>0.0</td><td>560</td></tr><tr><td>720 min Summer</td><td>5.011</td><td>0.0</td><td>612</td></tr><tr><td>960 min Summer</td><td>4.057</td><td>0.0</td><td>740</td></tr><tr><td>1440 min Summer</td><td>3.009</td><td>0.0</td><td>998</td></tr><tr><td>2160 min Summer</td><td>2.231</td><td>0.0</td><td>1424</td></tr><tr><td>2880 min Summer</td><td>1.803</td><td>0.0</td><td>1840</td></tr><tr><td>4320 min Summer</td><td>1.335</td><td>0.0</td><td>2640</td></tr><tr><td>5760 min Summer</td><td>1.078</td><td>0.0</td><td>3456</td></tr><tr><td>7200 min Summer</td><td>0.913</td><td>0.0</td><td>4248</td></tr><tr><td>8640 min Summer</td><td>0.798</td><td>0.0</td><td>5016</td></tr><tr><td>10080 min Summer</td><td>0.711</td><td>0.0</td><td>5752</td></tr><tr><td>15 min Winter</td><td>70.770</td><td>0.0</td><td>19</td></tr></tbody></table> |               |                         |                        |                 |                                                                                     | Storm Event | Max Level (m) | Max Depth (m) | Max Infiltration (l/s) | Max Volume (m³) | Status | 15 min Summer | -4.060 | 1.040 | 1.0 | 53.2 | O K | 30 min Summer | -3.739 | 1.361 | 1.1 | 69.7 | O K | 60 min Summer | -3.398 | 1.702 | 1.3 | 87.1 | O K | 120 min Summer | -3.052 | 2.048 | 1.5 | 104.9 | O K | 180 min Summer | -2.858 | 2.242 | 1.5 | 114.8 | O K | 240 min Summer | -2.735 | 2.365 | 1.6 | 121.1 | O K | 360 min Summer | -2.589 | 2.511 | 1.7 | 128.5 | O K | 480 min Summer | -2.518 | 2.582 | 1.7 | 132.2 | O K | 600 min Summer | -2.485 | 2.615 | 1.7 | 133.9 | O K | 720 min Summer | -2.463 | 2.637 | 1.7 | 135.0 | O K | 960 min Summer | -2.438 | 2.662 | 1.7 | 136.3 | O K | 1440 min Summer | -2.439 | 2.661 | 1.7 | 136.2 | O K | 2160 min Summer | -2.509 | 2.591 | 1.7 | 132.7 | O K | 2880 min Summer | -2.607 | 2.493 | 1.7 | 127.7 | O K | 4320 min Summer | -2.804 | 2.296 | 1.6 | 117.6 | O K | 5760 min Summer | -2.979 | 2.121 | 1.5 | 108.6 | O K | 7200 min Summer | -3.136 | 1.964 | 1.4 | 100.6 | O K | 8640 min Summer | -3.275 | 1.825 | 1.4 | 93.4 | O K | 10080 min Summer | -3.401 | 1.699 | 1.3 | 87.0 | O K | 15 min Winter | -3.934 | 1.166 | 1.0 | 59.7 | O K | Storm Event | Rain (mm/hr) | Flooded Volume (m³) | Time-Peak (mins) | 15 min Summer | 70.770 | 0.0 | 19 | 30 min Summer | 46.698 | 0.0 | 34 | 60 min Summer | 29.629 | 0.0 | 64 | 120 min Summer | 18.344 | 0.0 | 122 | 180 min Summer | 13.747 | 0.0 | 182 | 240 min Summer | 11.169 | 0.0 | 242 | 360 min Summer | 8.317 | 0.0 | 362 | 480 min Summer | 6.743 | 0.0 | 480 | 600 min Summer | 5.728 | 0.0 | 560 | 720 min Summer | 5.011 | 0.0 | 612 | 960 min Summer | 4.057 | 0.0 | 740 | 1440 min Summer | 3.009 | 0.0 | 998 | 2160 min Summer | 2.231 | 0.0 | 1424 | 2880 min Summer | 1.803 | 0.0 | 1840 | 4320 min Summer | 1.335 | 0.0 | 2640 | 5760 min Summer | 1.078 | 0.0 | 3456 | 7200 min Summer | 0.913 | 0.0 | 4248 | 8640 min Summer | 0.798 | 0.0 | 5016 | 10080 min Summer | 0.711 | 0.0 | 5752 | 15 min Winter | 70.770 | 0.0 | 19 |
| Storm Event                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Max Level (m) | Max Depth (m)           | Max Infiltration (l/s) | Max Volume (m³) | Status                                                                              |             |               |               |                        |                 |        |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |      |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |      |     |                  |        |       |     |      |     |               |        |       |     |      |     |             |              |                     |                  |               |        |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |        |     |    |
| 15 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | -4.060        | 1.040                   | 1.0                    | 53.2            | O K                                                                                 |             |               |               |                        |                 |        |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |      |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |      |     |                  |        |       |     |      |     |               |        |       |     |      |     |             |              |                     |                  |               |        |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |        |     |    |
| 30 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | -3.739        | 1.361                   | 1.1                    | 69.7            | O K                                                                                 |             |               |               |                        |                 |        |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |      |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |      |     |                  |        |       |     |      |     |               |        |       |     |      |     |             |              |                     |                  |               |        |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |        |     |    |
| 60 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | -3.398        | 1.702                   | 1.3                    | 87.1            | O K                                                                                 |             |               |               |                        |                 |        |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |      |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |      |     |                  |        |       |     |      |     |               |        |       |     |      |     |             |              |                     |                  |               |        |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |        |     |    |
| 120 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | -3.052        | 2.048                   | 1.5                    | 104.9           | O K                                                                                 |             |               |               |                        |                 |        |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |      |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |      |     |                  |        |       |     |      |     |               |        |       |     |      |     |             |              |                     |                  |               |        |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |        |     |    |
| 180 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | -2.858        | 2.242                   | 1.5                    | 114.8           | O K                                                                                 |             |               |               |                        |                 |        |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |      |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |      |     |                  |        |       |     |      |     |               |        |       |     |      |     |             |              |                     |                  |               |        |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |        |     |    |
| 240 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | -2.735        | 2.365                   | 1.6                    | 121.1           | O K                                                                                 |             |               |               |                        |                 |        |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |      |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |      |     |                  |        |       |     |      |     |               |        |       |     |      |     |             |              |                     |                  |               |        |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |        |     |    |
| 360 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | -2.589        | 2.511                   | 1.7                    | 128.5           | O K                                                                                 |             |               |               |                        |                 |        |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |      |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |      |     |                  |        |       |     |      |     |               |        |       |     |      |     |             |              |                     |                  |               |        |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |        |     |    |
| 480 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | -2.518        | 2.582                   | 1.7                    | 132.2           | O K                                                                                 |             |               |               |                        |                 |        |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |      |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |      |     |                  |        |       |     |      |     |               |        |       |     |      |     |             |              |                     |                  |               |        |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |        |     |    |
| 600 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | -2.485        | 2.615                   | 1.7                    | 133.9           | O K                                                                                 |             |               |               |                        |                 |        |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |      |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |      |     |                  |        |       |     |      |     |               |        |       |     |      |     |             |              |                     |                  |               |        |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |        |     |    |
| 720 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | -2.463        | 2.637                   | 1.7                    | 135.0           | O K                                                                                 |             |               |               |                        |                 |        |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |      |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |      |     |                  |        |       |     |      |     |               |        |       |     |      |     |             |              |                     |                  |               |        |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |        |     |    |
| 960 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | -2.438        | 2.662                   | 1.7                    | 136.3           | O K                                                                                 |             |               |               |                        |                 |        |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |      |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |      |     |                  |        |       |     |      |     |               |        |       |     |      |     |             |              |                     |                  |               |        |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |        |     |    |
| 1440 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | -2.439        | 2.661                   | 1.7                    | 136.2           | O K                                                                                 |             |               |               |                        |                 |        |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |      |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |      |     |                  |        |       |     |      |     |               |        |       |     |      |     |             |              |                     |                  |               |        |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |        |     |    |
| 2160 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | -2.509        | 2.591                   | 1.7                    | 132.7           | O K                                                                                 |             |               |               |                        |                 |        |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |      |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |      |     |                  |        |       |     |      |     |               |        |       |     |      |     |             |              |                     |                  |               |        |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |        |     |    |
| 2880 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | -2.607        | 2.493                   | 1.7                    | 127.7           | O K                                                                                 |             |               |               |                        |                 |        |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |      |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |      |     |                  |        |       |     |      |     |               |        |       |     |      |     |             |              |                     |                  |               |        |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |        |     |    |
| 4320 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | -2.804        | 2.296                   | 1.6                    | 117.6           | O K                                                                                 |             |               |               |                        |                 |        |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |      |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |      |     |                  |        |       |     |      |     |               |        |       |     |      |     |             |              |                     |                  |               |        |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |        |     |    |
| 5760 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | -2.979        | 2.121                   | 1.5                    | 108.6           | O K                                                                                 |             |               |               |                        |                 |        |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |      |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |      |     |                  |        |       |     |      |     |               |        |       |     |      |     |             |              |                     |                  |               |        |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |        |     |    |
| 7200 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | -3.136        | 1.964                   | 1.4                    | 100.6           | O K                                                                                 |             |               |               |                        |                 |        |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |      |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |      |     |                  |        |       |     |      |     |               |        |       |     |      |     |             |              |                     |                  |               |        |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |        |     |    |
| 8640 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | -3.275        | 1.825                   | 1.4                    | 93.4            | O K                                                                                 |             |               |               |                        |                 |        |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |      |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |      |     |                  |        |       |     |      |     |               |        |       |     |      |     |             |              |                     |                  |               |        |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |        |     |    |
| 10080 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | -3.401        | 1.699                   | 1.3                    | 87.0            | O K                                                                                 |             |               |               |                        |                 |        |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |      |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |      |     |                  |        |       |     |      |     |               |        |       |     |      |     |             |              |                     |                  |               |        |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |        |     |    |
| 15 min Winter                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | -3.934        | 1.166                   | 1.0                    | 59.7            | O K                                                                                 |             |               |               |                        |                 |        |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |      |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |      |     |                  |        |       |     |      |     |               |        |       |     |      |     |             |              |                     |                  |               |        |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |        |     |    |
| Storm Event                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Rain (mm/hr)  | Flooded Volume (m³)     | Time-Peak (mins)       |                 |                                                                                     |             |               |               |                        |                 |        |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |      |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |      |     |                  |        |       |     |      |     |               |        |       |     |      |     |             |              |                     |                  |               |        |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |        |     |    |
| 15 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 70.770        | 0.0                     | 19                     |                 |                                                                                     |             |               |               |                        |                 |        |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |      |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |      |     |                  |        |       |     |      |     |               |        |       |     |      |     |             |              |                     |                  |               |        |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |        |     |    |
| 30 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 46.698        | 0.0                     | 34                     |                 |                                                                                     |             |               |               |                        |                 |        |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |      |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |      |     |                  |        |       |     |      |     |               |        |       |     |      |     |             |              |                     |                  |               |        |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |        |     |    |
| 60 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 29.629        | 0.0                     | 64                     |                 |                                                                                     |             |               |               |                        |                 |        |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |      |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |      |     |                  |        |       |     |      |     |               |        |       |     |      |     |             |              |                     |                  |               |        |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |        |     |    |
| 120 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 18.344        | 0.0                     | 122                    |                 |                                                                                     |             |               |               |                        |                 |        |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |      |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |      |     |                  |        |       |     |      |     |               |        |       |     |      |     |             |              |                     |                  |               |        |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |        |     |    |
| 180 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 13.747        | 0.0                     | 182                    |                 |                                                                                     |             |               |               |                        |                 |        |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |      |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |      |     |                  |        |       |     |      |     |               |        |       |     |      |     |             |              |                     |                  |               |        |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |        |     |    |
| 240 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 11.169        | 0.0                     | 242                    |                 |                                                                                     |             |               |               |                        |                 |        |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |      |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |      |     |                  |        |       |     |      |     |               |        |       |     |      |     |             |              |                     |                  |               |        |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |        |     |    |
| 360 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 8.317         | 0.0                     | 362                    |                 |                                                                                     |             |               |               |                        |                 |        |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |      |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |      |     |                  |        |       |     |      |     |               |        |       |     |      |     |             |              |                     |                  |               |        |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |        |     |    |
| 480 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 6.743         | 0.0                     | 480                    |                 |                                                                                     |             |               |               |                        |                 |        |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |      |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |      |     |                  |        |       |     |      |     |               |        |       |     |      |     |             |              |                     |                  |               |        |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |        |     |    |
| 600 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 5.728         | 0.0                     | 560                    |                 |                                                                                     |             |               |               |                        |                 |        |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |      |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |      |     |                  |        |       |     |      |     |               |        |       |     |      |     |             |              |                     |                  |               |        |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |        |     |    |
| 720 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 5.011         | 0.0                     | 612                    |                 |                                                                                     |             |               |               |                        |                 |        |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |      |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |      |     |                  |        |       |     |      |     |               |        |       |     |      |     |             |              |                     |                  |               |        |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |        |     |    |
| 960 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 4.057         | 0.0                     | 740                    |                 |                                                                                     |             |               |               |                        |                 |        |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |      |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |      |     |                  |        |       |     |      |     |               |        |       |     |      |     |             |              |                     |                  |               |        |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |        |     |    |
| 1440 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 3.009         | 0.0                     | 998                    |                 |                                                                                     |             |               |               |                        |                 |        |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |      |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |      |     |                  |        |       |     |      |     |               |        |       |     |      |     |             |              |                     |                  |               |        |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |        |     |    |
| 2160 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 2.231         | 0.0                     | 1424                   |                 |                                                                                     |             |               |               |                        |                 |        |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |      |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |      |     |                  |        |       |     |      |     |               |        |       |     |      |     |             |              |                     |                  |               |        |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |        |     |    |
| 2880 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1.803         | 0.0                     | 1840                   |                 |                                                                                     |             |               |               |                        |                 |        |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |      |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |      |     |                  |        |       |     |      |     |               |        |       |     |      |     |             |              |                     |                  |               |        |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |        |     |    |
| 4320 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1.335         | 0.0                     | 2640                   |                 |                                                                                     |             |               |               |                        |                 |        |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |      |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |      |     |                  |        |       |     |      |     |               |        |       |     |      |     |             |              |                     |                  |               |        |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |        |     |    |
| 5760 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1.078         | 0.0                     | 3456                   |                 |                                                                                     |             |               |               |                        |                 |        |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |      |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |      |     |                  |        |       |     |      |     |               |        |       |     |      |     |             |              |                     |                  |               |        |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |        |     |    |
| 7200 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.913         | 0.0                     | 4248                   |                 |                                                                                     |             |               |               |                        |                 |        |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |      |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |      |     |                  |        |       |     |      |     |               |        |       |     |      |     |             |              |                     |                  |               |        |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |        |     |    |
| 8640 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.798         | 0.0                     | 5016                   |                 |                                                                                     |             |               |               |                        |                 |        |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |      |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |      |     |                  |        |       |     |      |     |               |        |       |     |      |     |             |              |                     |                  |               |        |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |        |     |    |
| 10080 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0.711         | 0.0                     | 5752                   |                 |                                                                                     |             |               |               |                        |                 |        |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |      |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |      |     |                  |        |       |     |      |     |               |        |       |     |      |     |             |              |                     |                  |               |        |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |        |     |    |
| 15 min Winter                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 70.770        | 0.0                     | 19                     |                 |                                                                                     |             |               |               |                        |                 |        |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |      |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |      |     |                  |        |       |     |      |     |               |        |       |     |      |     |             |              |                     |                  |               |        |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |        |     |    |
| ©1982-2018 Innovyze                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |               |                         |                        |                 |                                                                                     |             |               |               |                        |                 |        |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |      |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |      |     |                  |        |       |     |      |     |               |        |       |     |      |     |             |              |                     |                  |               |        |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |        |     |    |

|                                                            |                     |                           |                              |                                                                                     |        |
|------------------------------------------------------------|---------------------|---------------------------|------------------------------|-------------------------------------------------------------------------------------|--------|
| Paul Basham Associates                                     |                     |                           |                              | Page 2                                                                              |        |
| Lancaster Court<br>Fareham<br>Hampshire, PO15 5TU          |                     | 5NO                       |                              |  |        |
| Date 29/04/2019                                            |                     | Designed by JB            |                              |                                                                                     |        |
| File 5no Ring Soakaway. lin1...                            |                     | Checked by AS             |                              |                                                                                     |        |
| Innovyze                                                   |                     | Source Control 2018.1.1   |                              |                                                                                     |        |
| <u>Summary of Results for 10 year Return Period (+30%)</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                                              | -3.572              | 1.528                     | 1.2                          | 78.2                                                                                | O K    |
| 60 min Winter                                              | -3.189              | 1.911                     | 1.4                          | 97.9                                                                                | O K    |
| 120 min Winter                                             | -2.794              | 2.306                     | 1.6                          | 118.0                                                                               | O K    |
| 180 min Winter                                             | -2.572              | 2.528                     | 1.7                          | 129.4                                                                               | O K    |
| 240 min Winter                                             | -2.427              | 2.673                     | 1.8                          | 136.8                                                                               | O K    |
| 360 min Winter                                             | -2.251              | 2.849                     | 1.8                          | 145.9                                                                               | O K    |
| 480 min Winter                                             | -2.156              | 2.944                     | 1.9                          | 150.7                                                                               | O K    |
| 600 min Winter                                             | -2.107              | 2.993                     | 1.9                          | 153.2                                                                               | O K    |
| 720 min Winter                                             | -2.087              | 3.013                     | 1.9                          | 154.3                                                                               | O K    |
| 960 min Winter                                             | -2.070              | 3.030                     | 1.9                          | 155.1                                                                               | O K    |
| 1440 min Winter                                            | -2.086              | 3.014                     | 1.9                          | 154.3                                                                               | O K    |
| 2160 min Winter                                            | -2.201              | 2.899                     | 1.9                          | 148.4                                                                               | O K    |
| 2880 min Winter                                            | -2.351              | 2.749                     | 1.8                          | 140.8                                                                               | O K    |
| 4320 min Winter                                            | -2.656              | 2.444                     | 1.6                          | 125.1                                                                               | O K    |
| 5760 min Winter                                            | -2.918              | 2.182                     | 1.5                          | 111.7                                                                               | O K    |
| 7200 min Winter                                            | -3.140              | 1.960                     | 1.4                          | 100.4                                                                               | O K    |
| 8640 min Winter                                            | -3.333              | 1.767                     | 1.3                          | 90.5                                                                                | O K    |
| 10080 min Winter                                           | -3.501              | 1.599                     | 1.2                          | 81.9                                                                                | O K    |
| Storm<br>Event                                             | Rain<br>(mm/hr)     | Flooded<br>Volume<br>(m³) | Time-Peak<br>(mins)          |                                                                                     |        |
| 30 min Winter                                              | 46.698              | 0.0                       | 33                           |                                                                                     |        |
| 60 min Winter                                              | 29.629              | 0.0                       | 62                           |                                                                                     |        |
| 120 min Winter                                             | 18.344              | 0.0                       | 120                          |                                                                                     |        |
| 180 min Winter                                             | 13.747              | 0.0                       | 180                          |                                                                                     |        |
| 240 min Winter                                             | 11.169              | 0.0                       | 238                          |                                                                                     |        |
| 360 min Winter                                             | 8.317               | 0.0                       | 352                          |                                                                                     |        |
| 480 min Winter                                             | 6.743               | 0.0                       | 464                          |                                                                                     |        |
| 600 min Winter                                             | 5.728               | 0.0                       | 572                          |                                                                                     |        |
| 720 min Winter                                             | 5.011               | 0.0                       | 672                          |                                                                                     |        |
| 960 min Winter                                             | 4.057               | 0.0                       | 760                          |                                                                                     |        |
| 1440 min Winter                                            | 3.009               | 0.0                       | 1068                         |                                                                                     |        |
| 2160 min Winter                                            | 2.231               | 0.0                       | 1532                         |                                                                                     |        |
| 2880 min Winter                                            | 1.803               | 0.0                       | 1964                         |                                                                                     |        |
| 4320 min Winter                                            | 1.335               | 0.0                       | 2812                         |                                                                                     |        |
| 5760 min Winter                                            | 1.078               | 0.0                       | 3640                         |                                                                                     |        |
| 7200 min Winter                                            | 0.913               | 0.0                       | 4464                         |                                                                                     |        |
| 8640 min Winter                                            | 0.798               | 0.0                       | 5272                         |                                                                                     |        |
| 10080 min Winter                                           | 0.711               | 0.0                       | 6048                         |                                                                                     |        |
| ©1982-2018 Innovyze                                        |                     |                           |                              |                                                                                     |        |

| Paul Basham Associates                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                   | Page 3                                                                              |                |     |               |     |                       |    |             |       |        |                   |             |       |            |        |                       |    |         |       |                      |       |               |     |                  |     |             |  |      |       |     |      |   |   |       |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-------------------------------------------------------------------------------------|----------------|-----|---------------|-----|-----------------------|----|-------------|-------|--------|-------------------|-------------|-------|------------|--------|-----------------------|----|---------|-------|----------------------|-------|---------------|-----|------------------|-----|-------------|--|------|-------|-----|------|---|---|-------|
| Lancaster Court<br>Fareham<br>Hampshire, PO15 5TU                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 5NO               |  |                |     |               |     |                       |    |             |       |        |                   |             |       |            |        |                       |    |         |       |                      |       |               |     |                  |     |             |  |      |       |     |      |   |   |       |
| Date 29/04/2019                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Designed by JB    |                                                                                     |                |     |               |     |                       |    |             |       |        |                   |             |       |            |        |                       |    |         |       |                      |       |               |     |                  |     |             |  |      |       |     |      |   |   |       |
| File 5no Ring Soakaway. 1in1...                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Checked by AS     |                                                                                     |                |     |               |     |                       |    |             |       |        |                   |             |       |            |        |                       |    |         |       |                      |       |               |     |                  |     |             |  |      |       |     |      |   |   |       |
| Innovyze                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                   | Source Control 2018.1.1                                                             |                |     |               |     |                       |    |             |       |        |                   |             |       |            |        |                       |    |         |       |                      |       |               |     |                  |     |             |  |      |       |     |      |   |   |       |
| <p style="text-align: center;"><u>Rainfall Details</u></p> <table> <tr> <td>Rainfall Model</td> <td>FSR</td> <td>Winter Storms</td> <td>Yes</td> </tr> <tr> <td>Return Period (years)</td> <td>10</td> <td>Cv (Summer)</td> <td>0.750</td> </tr> <tr> <td>Region</td> <td>England and Wales</td> <td>Cv (Winter)</td> <td>0.840</td> </tr> <tr> <td>M5-60 (mm)</td> <td>19.000</td> <td>Shortest Storm (mins)</td> <td>15</td> </tr> <tr> <td>Ratio R</td> <td>0.350</td> <td>Longest Storm (mins)</td> <td>10080</td> </tr> <tr> <td>Summer Storms</td> <td>Yes</td> <td>Climate Change %</td> <td>+30</td> </tr> </table> <p style="text-align: center;"><u>Time Area Diagram</u></p> <p>Total Area (ha) 0.407</p> <table> <thead> <tr> <th colspan="2">Time (mins)</th> <th>Area</th> </tr> <tr> <th>From:</th> <th>To:</th> <th>(ha)</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>4</td> <td>0.407</td> </tr> </tbody> </table> |                   |                                                                                     | Rainfall Model | FSR | Winter Storms | Yes | Return Period (years) | 10 | Cv (Summer) | 0.750 | Region | England and Wales | Cv (Winter) | 0.840 | M5-60 (mm) | 19.000 | Shortest Storm (mins) | 15 | Ratio R | 0.350 | Longest Storm (mins) | 10080 | Summer Storms | Yes | Climate Change % | +30 | Time (mins) |  | Area | From: | To: | (ha) | 0 | 4 | 0.407 |
| Rainfall Model                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | FSR               | Winter Storms                                                                       | Yes            |     |               |     |                       |    |             |       |        |                   |             |       |            |        |                       |    |         |       |                      |       |               |     |                  |     |             |  |      |       |     |      |   |   |       |
| Return Period (years)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 10                | Cv (Summer)                                                                         | 0.750          |     |               |     |                       |    |             |       |        |                   |             |       |            |        |                       |    |         |       |                      |       |               |     |                  |     |             |  |      |       |     |      |   |   |       |
| Region                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | England and Wales | Cv (Winter)                                                                         | 0.840          |     |               |     |                       |    |             |       |        |                   |             |       |            |        |                       |    |         |       |                      |       |               |     |                  |     |             |  |      |       |     |      |   |   |       |
| M5-60 (mm)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 19.000            | Shortest Storm (mins)                                                               | 15             |     |               |     |                       |    |             |       |        |                   |             |       |            |        |                       |    |         |       |                      |       |               |     |                  |     |             |  |      |       |     |      |   |   |       |
| Ratio R                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 0.350             | Longest Storm (mins)                                                                | 10080          |     |               |     |                       |    |             |       |        |                   |             |       |            |        |                       |    |         |       |                      |       |               |     |                  |     |             |  |      |       |     |      |   |   |       |
| Summer Storms                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Yes               | Climate Change %                                                                    | +30            |     |               |     |                       |    |             |       |        |                   |             |       |            |        |                       |    |         |       |                      |       |               |     |                  |     |             |  |      |       |     |      |   |   |       |
| Time (mins)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                   | Area                                                                                |                |     |               |     |                       |    |             |       |        |                   |             |       |            |        |                       |    |         |       |                      |       |               |     |                  |     |             |  |      |       |     |      |   |   |       |
| From:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | To:               | (ha)                                                                                |                |     |               |     |                       |    |             |       |        |                   |             |       |            |        |                       |    |         |       |                      |       |               |     |                  |     |             |  |      |       |     |      |   |   |       |
| 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 4                 | 0.407                                                                               |                |     |               |     |                       |    |             |       |        |                   |             |       |            |        |                       |    |         |       |                      |       |               |     |                  |     |             |  |      |       |     |      |   |   |       |
| ©1982-2018 Innovyze                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                   |                                                                                     |                |     |               |     |                       |    |             |       |        |                   |             |       |            |        |                       |    |         |       |                      |       |               |     |                  |     |             |  |      |       |     |      |   |   |       |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |                                                                                     |                                      |         |                   |      |                                      |         |                |     |               |     |                 |   |          |      |                      |       |                  |        |                            |       |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-------------------------------------------------------------------------------------|--------------------------------------|---------|-------------------|------|--------------------------------------|---------|----------------|-----|---------------|-----|-----------------|---|----------|------|----------------------|-------|------------------|--------|----------------------------|-------|
| Paul Basham Associates                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                | Page 4                                                                              |                                      |         |                   |      |                                      |         |                |     |               |     |                 |   |          |      |                      |       |                  |        |                            |       |
| Lancaster Court<br>Fareham<br>Hampshire, PO15 5TU                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 5NO            |  |                                      |         |                   |      |                                      |         |                |     |               |     |                 |   |          |      |                      |       |                  |        |                            |       |
| Date 29/04/2019                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Designed by JB |                                                                                     |                                      |         |                   |      |                                      |         |                |     |               |     |                 |   |          |      |                      |       |                  |        |                            |       |
| File 5no Ring Soakaway. 1in1...                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Checked by AS  |                                                                                     |                                      |         |                   |      |                                      |         |                |     |               |     |                 |   |          |      |                      |       |                  |        |                            |       |
| Innovyze                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                | Source Control 2018.1.1                                                             |                                      |         |                   |      |                                      |         |                |     |               |     |                 |   |          |      |                      |       |                  |        |                            |       |
| <p style="text-align: center;"><u>Model Details</u></p> <p style="text-align: center;">Storage is Online Cover Level (m) 0.000</p> <p style="text-align: center;"><u>Lined Soakaway Structure</u></p> <table> <tr> <td>Infiltration Coefficient Base (m/hr)</td> <td>0.13104</td> <td>Ring Diameter (m)</td> <td>3.00</td> </tr> <tr> <td>Infiltration Coefficient Side (m/hr)</td> <td>0.13104</td> <td>Pit Multiplier</td> <td>1.4</td> </tr> <tr> <td>Safety Factor</td> <td>6.5</td> <td>Number Required</td> <td>5</td> </tr> <tr> <td>Porosity</td> <td>0.30</td> <td>Cap Volume Depth (m)</td> <td>5.100</td> </tr> <tr> <td>Invert Level (m)</td> <td>-5.100</td> <td>Cap Infiltration Depth (m)</td> <td>5.100</td> </tr> </table> |                |                                                                                     | Infiltration Coefficient Base (m/hr) | 0.13104 | Ring Diameter (m) | 3.00 | Infiltration Coefficient Side (m/hr) | 0.13104 | Pit Multiplier | 1.4 | Safety Factor | 6.5 | Number Required | 5 | Porosity | 0.30 | Cap Volume Depth (m) | 5.100 | Invert Level (m) | -5.100 | Cap Infiltration Depth (m) | 5.100 |
| Infiltration Coefficient Base (m/hr)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.13104        | Ring Diameter (m)                                                                   | 3.00                                 |         |                   |      |                                      |         |                |     |               |     |                 |   |          |      |                      |       |                  |        |                            |       |
| Infiltration Coefficient Side (m/hr)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.13104        | Pit Multiplier                                                                      | 1.4                                  |         |                   |      |                                      |         |                |     |               |     |                 |   |          |      |                      |       |                  |        |                            |       |
| Safety Factor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 6.5            | Number Required                                                                     | 5                                    |         |                   |      |                                      |         |                |     |               |     |                 |   |          |      |                      |       |                  |        |                            |       |
| Porosity                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 0.30           | Cap Volume Depth (m)                                                                | 5.100                                |         |                   |      |                                      |         |                |     |               |     |                 |   |          |      |                      |       |                  |        |                            |       |
| Invert Level (m)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | -5.100         | Cap Infiltration Depth (m)                                                          | 5.100                                |         |                   |      |                                      |         |                |     |               |     |                 |   |          |      |                      |       |                  |        |                            |       |
| ©1982-2018 Innovyze                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                |                                                                                     |                                      |         |                   |      |                                      |         |                |     |               |     |                 |   |          |      |                      |       |                  |        |                            |       |