

# **Appendix E Rainfall Runoff Summary**

|                                                    |                              |                                    |                                      |                                     |                                    |                                                                                     |               |
|----------------------------------------------------|------------------------------|------------------------------------|--------------------------------------|-------------------------------------|------------------------------------|-------------------------------------------------------------------------------------|---------------|
| Easy Flood Risk                                    |                              |                                    |                                      |                                     |                                    | Page 1                                                                              |               |
| 55 Shepherds Lane<br>Dartford<br>DA1 2NL           |                              |                                    |                                      |                                     |                                    |  |               |
| Date 14/12/2021 13:56<br>File 49Warren.SRCX        |                              |                                    | Designed by sheph<br>Checked by      |                                     |                                    |                                                                                     |               |
| Innovyze                                           |                              |                                    | Source Control 2020.1                |                                     |                                    |                                                                                     |               |
| <u>Summary of Results for 1 year Return Period</u> |                              |                                    |                                      |                                     |                                    |                                                                                     |               |
| <b>Storm<br/>Event</b>                             | <b>Max<br/>Level<br/>(m)</b> | <b>Max<br/>Depth<br/>(m)</b>       | <b>Max<br/>Control<br/>(l/s)</b>     | <b>Max<br/>Overflow<br/>(l/s)</b>   | <b>Max<br/>Σ Outflow<br/>(l/s)</b> | <b>Max<br/>Volume<br/>(m³)</b>                                                      | <b>Status</b> |
| 15 min Summer                                      | 3.541                        | 0.041                              | 0.3                                  | 0.0                                 | 0.3                                | 0.6                                                                                 | O K           |
| 30 min Summer                                      | 3.548                        | 0.048                              | 0.4                                  | 0.0                                 | 0.4                                | 0.7                                                                                 | O K           |
| 60 min Summer                                      | 3.552                        | 0.052                              | 0.4                                  | 0.0                                 | 0.4                                | 0.8                                                                                 | O K           |
| 120 min Summer                                     | 3.552                        | 0.052                              | 0.4                                  | 0.0                                 | 0.4                                | 0.8                                                                                 | O K           |
| 180 min Summer                                     | 3.549                        | 0.049                              | 0.4                                  | 0.0                                 | 0.4                                | 0.7                                                                                 | O K           |
| 240 min Summer                                     | 3.546                        | 0.046                              | 0.3                                  | 0.0                                 | 0.3                                | 0.7                                                                                 | O K           |
| 360 min Summer                                     | 3.540                        | 0.040                              | 0.3                                  | 0.0                                 | 0.3                                | 0.6                                                                                 | O K           |
| 480 min Summer                                     | 3.536                        | 0.036                              | 0.3                                  | 0.0                                 | 0.3                                | 0.5                                                                                 | O K           |
| 600 min Summer                                     | 3.533                        | 0.033                              | 0.3                                  | 0.0                                 | 0.3                                | 0.5                                                                                 | O K           |
| 720 min Summer                                     | 3.531                        | 0.031                              | 0.2                                  | 0.0                                 | 0.2                                | 0.5                                                                                 | O K           |
| 960 min Summer                                     | 3.527                        | 0.027                              | 0.2                                  | 0.0                                 | 0.2                                | 0.4                                                                                 | O K           |
| 1440 min Summer                                    | 3.523                        | 0.023                              | 0.2                                  | 0.0                                 | 0.2                                | 0.4                                                                                 | O K           |
| 2160 min Summer                                    | 3.520                        | 0.020                              | 0.1                                  | 0.0                                 | 0.1                                | 0.3                                                                                 | O K           |
| 2880 min Summer                                    | 3.518                        | 0.018                              | 0.1                                  | 0.0                                 | 0.1                                | 0.3                                                                                 | O K           |
| 4320 min Summer                                    | 3.516                        | 0.016                              | 0.1                                  | 0.0                                 | 0.1                                | 0.2                                                                                 | O K           |
| 5760 min Summer                                    | 3.514                        | 0.014                              | 0.1                                  | 0.0                                 | 0.1                                | 0.2                                                                                 | O K           |
| 7200 min Summer                                    | 3.513                        | 0.013                              | 0.1                                  | 0.0                                 | 0.1                                | 0.2                                                                                 | O K           |
| 8640 min Summer                                    | 3.512                        | 0.012                              | 0.1                                  | 0.0                                 | 0.1                                | 0.2                                                                                 | O K           |
| 10080 min Summer                                   | 3.511                        | 0.011                              | 0.0                                  | 0.0                                 | 0.0                                | 0.2                                                                                 | O K           |
| <b>Storm<br/>Event</b>                             | <b>Rain<br/>(mm/hr)</b>      | <b>Flooded<br/>Volume<br/>(m³)</b> | <b>Discharge<br/>Volume<br/>(m³)</b> | <b>Overflow<br/>Volume<br/>(m³)</b> | <b>Time-Peak<br/>(mins)</b>        |                                                                                     |               |
| 15 min Summer                                      | 28.725                       | 0.0                                | 0.7                                  | 0.0                                 | 15                                 |                                                                                     |               |
| 30 min Summer                                      | 19.076                       | 0.0                                | 1.0                                  | 0.0                                 | 24                                 |                                                                                     |               |
| 60 min Summer                                      | 12.369                       | 0.0                                | 1.3                                  | 0.0                                 | 40                                 |                                                                                     |               |
| 120 min Summer                                     | 7.876                        | 0.0                                | 1.6                                  | 0.0                                 | 74                                 |                                                                                     |               |
| 180 min Summer                                     | 6.024                        | 0.0                                | 1.9                                  | 0.0                                 | 106                                |                                                                                     |               |
| 240 min Summer                                     | 4.978                        | 0.0                                | 2.1                                  | 0.0                                 | 136                                |                                                                                     |               |
| 360 min Summer                                     | 3.770                        | 0.0                                | 2.4                                  | 0.0                                 | 198                                |                                                                                     |               |
| 480 min Summer                                     | 3.091                        | 0.0                                | 2.6                                  | 0.0                                 | 258                                |                                                                                     |               |
| 600 min Summer                                     | 2.649                        | 0.0                                | 2.8                                  | 0.0                                 | 318                                |                                                                                     |               |
| 720 min Summer                                     | 2.336                        | 0.0                                | 2.9                                  | 0.0                                 | 376                                |                                                                                     |               |
| 960 min Summer                                     | 1.916                        | 0.0                                | 3.2                                  | 0.0                                 | 500                                |                                                                                     |               |
| 1440 min Summer                                    | 1.450                        | 0.0                                | 3.6                                  | 0.0                                 | 738                                |                                                                                     |               |
| 2160 min Summer                                    | 1.096                        | 0.0                                | 4.1                                  | 0.0                                 | 1100                               |                                                                                     |               |
| 2880 min Summer                                    | 0.898                        | 0.0                                | 4.5                                  | 0.0                                 | 1464                               |                                                                                     |               |
| 4320 min Summer                                    | 0.680                        | 0.0                                | 5.1                                  | 0.0                                 | 2200                               |                                                                                     |               |
| 5760 min Summer                                    | 0.558                        | 0.0                                | 5.6                                  | 0.0                                 | 2928                               |                                                                                     |               |
| 7200 min Summer                                    | 0.479                        | 0.0                                | 6.0                                  | 0.0                                 | 3672                               |                                                                                     |               |
| 8640 min Summer                                    | 0.421                        | 0.0                                | 6.4                                  | 0.0                                 | 4376                               |                                                                                     |               |
| 10080 min Summer                                   | 0.378                        | 0.0                                | 6.7                                  | 0.0                                 | 5136                               |                                                                                     |               |
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|                                                    |                     |                           |                                 |                            |                         |                                                                                     |        |
|----------------------------------------------------|---------------------|---------------------------|---------------------------------|----------------------------|-------------------------|-------------------------------------------------------------------------------------|--------|
| Easy Flood Risk                                    |                     |                           |                                 |                            |                         | Page 2                                                                              |        |
| 55 Shepherds Lane<br>Dartford<br>DA1 2NL           |                     |                           |                                 |                            |                         |  |        |
| Date 14/12/2021 13:56<br>File 49Warren.SRCX        |                     |                           | Designed by sheph<br>Checked by |                            |                         |                                                                                     |        |
| Innovyze                                           |                     |                           | Source Control 2020.1           |                            |                         |                                                                                     |        |
| <u>Summary of Results for 1 year Return Period</u> |                     |                           |                                 |                            |                         |                                                                                     |        |
| Storm<br>Event                                     | Max<br>Level<br>(m) | Max<br>Depth<br>(m)       | Max<br>Control<br>(l/s)         | Max<br>Overflow<br>(l/s)   | Max<br>Outflow<br>(l/s) | Max<br>Volume<br>(m³)                                                               | Status |
| 15 min Winter                                      | 3.546               | 0.046                     | 0.3                             | 0.0                        | 0.3                     | 0.7                                                                                 | O K    |
| 30 min Winter                                      | 3.553               | 0.053                     | 0.4                             | 0.0                        | 0.4                     | 0.8                                                                                 | O K    |
| 60 min Winter                                      | 3.556               | 0.056                     | 0.4                             | 0.0                        | 0.4                     | 0.8                                                                                 | O K    |
| 120 min Winter                                     | 3.553               | 0.053                     | 0.4                             | 0.0                        | 0.4                     | 0.8                                                                                 | O K    |
| 180 min Winter                                     | 3.547               | 0.047                     | 0.4                             | 0.0                        | 0.4                     | 0.7                                                                                 | O K    |
| 240 min Winter                                     | 3.543               | 0.043                     | 0.3                             | 0.0                        | 0.3                     | 0.6                                                                                 | O K    |
| 360 min Winter                                     | 3.536               | 0.036                     | 0.3                             | 0.0                        | 0.3                     | 0.5                                                                                 | O K    |
| 480 min Winter                                     | 3.531               | 0.031                     | 0.2                             | 0.0                        | 0.2                     | 0.5                                                                                 | O K    |
| 600 min Winter                                     | 3.528               | 0.028                     | 0.2                             | 0.0                        | 0.2                     | 0.4                                                                                 | O K    |
| 720 min Winter                                     | 3.526               | 0.026                     | 0.2                             | 0.0                        | 0.2                     | 0.4                                                                                 | O K    |
| 960 min Winter                                     | 3.523               | 0.023                     | 0.2                             | 0.0                        | 0.2                     | 0.3                                                                                 | O K    |
| 1440 min Winter                                    | 3.520               | 0.020                     | 0.1                             | 0.0                        | 0.1                     | 0.3                                                                                 | O K    |
| 2160 min Winter                                    | 3.517               | 0.017                     | 0.1                             | 0.0                        | 0.1                     | 0.3                                                                                 | O K    |
| 2880 min Winter                                    | 3.515               | 0.015                     | 0.1                             | 0.0                        | 0.1                     | 0.2                                                                                 | O K    |
| 4320 min Winter                                    | 3.513               | 0.013                     | 0.1                             | 0.0                        | 0.1                     | 0.2                                                                                 | O K    |
| 5760 min Winter                                    | 3.512               | 0.012                     | 0.0                             | 0.0                        | 0.0                     | 0.2                                                                                 | O K    |
| 7200 min Winter                                    | 3.511               | 0.011                     | 0.0                             | 0.0                        | 0.0                     | 0.2                                                                                 | O K    |
| 8640 min Winter                                    | 3.510               | 0.010                     | 0.0                             | 0.0                        | 0.0                     | 0.2                                                                                 | O K    |
| 10080 min Winter                                   | 3.510               | 0.010                     | 0.0                             | 0.0                        | 0.0                     | 0.1                                                                                 | O K    |
| Storm<br>Event                                     | Rain<br>(mm/hr)     | Flooded<br>Volume<br>(m³) | Discharge<br>Volume<br>(m³)     | Overflow<br>Volume<br>(m³) | Time-Peak<br>(mins)     |                                                                                     |        |
| 15 min Winter                                      | 28.725              | 0.0                       | 0.8                             | 0.0                        | 15                      |                                                                                     |        |
| 30 min Winter                                      | 19.076              | 0.0                       | 1.1                             | 0.0                        | 25                      |                                                                                     |        |
| 60 min Winter                                      | 12.369              | 0.0                       | 1.4                             | 0.0                        | 44                      |                                                                                     |        |
| 120 min Winter                                     | 7.876               | 0.0                       | 1.8                             | 0.0                        | 78                      |                                                                                     |        |
| 180 min Winter                                     | 6.024               | 0.0                       | 2.1                             | 0.0                        | 110                     |                                                                                     |        |
| 240 min Winter                                     | 4.978               | 0.0                       | 2.3                             | 0.0                        | 142                     |                                                                                     |        |
| 360 min Winter                                     | 3.770               | 0.0                       | 2.7                             | 0.0                        | 202                     |                                                                                     |        |
| 480 min Winter                                     | 3.091               | 0.0                       | 2.9                             | 0.0                        | 262                     |                                                                                     |        |
| 600 min Winter                                     | 2.649               | 0.0                       | 3.1                             | 0.0                        | 320                     |                                                                                     |        |
| 720 min Winter                                     | 2.336               | 0.0                       | 3.3                             | 0.0                        | 378                     |                                                                                     |        |
| 960 min Winter                                     | 1.916               | 0.0                       | 3.6                             | 0.0                        | 500                     |                                                                                     |        |
| 1440 min Winter                                    | 1.450               | 0.0                       | 4.1                             | 0.0                        | 738                     |                                                                                     |        |
| 2160 min Winter                                    | 1.096               | 0.0                       | 4.6                             | 0.0                        | 1124                    |                                                                                     |        |
| 2880 min Winter                                    | 0.898               | 0.0                       | 5.1                             | 0.0                        | 1436                    |                                                                                     |        |
| 4320 min Winter                                    | 0.680               | 0.0                       | 5.7                             | 0.0                        | 2152                    |                                                                                     |        |
| 5760 min Winter                                    | 0.558               | 0.0                       | 6.3                             | 0.0                        | 2856                    |                                                                                     |        |
| 7200 min Winter                                    | 0.479               | 0.0                       | 6.8                             | 0.0                        | 3744                    |                                                                                     |        |
| 8640 min Winter                                    | 0.421               | 0.0                       | 7.1                             | 0.0                        | 4264                    |                                                                                     |        |
| 10080 min Winter                                   | 0.378               | 0.0                       | 7.5                             | 0.0                        | 5336                    |                                                                                     |        |
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|                                                    |  |                              |                                    |                                      |                                     |                                                                                     |                                |               |
|----------------------------------------------------|--|------------------------------|------------------------------------|--------------------------------------|-------------------------------------|-------------------------------------------------------------------------------------|--------------------------------|---------------|
| Easy Flood Risk                                    |  |                              |                                    |                                      |                                     | Page 1                                                                              |                                |               |
| 55 Shepherds Lane<br>Dartford<br>DA1 2NL           |  |                              |                                    |                                      |                                     |  |                                |               |
| Date 14/12/2021 13:57<br>File 49Warren.SRCX        |  |                              |                                    | Designed by sheph<br>Checked by      |                                     |                                                                                     |                                |               |
| Innovyze                                           |  |                              |                                    | Source Control 2020.1                |                                     |                                                                                     |                                |               |
| <u>Summary of Results for 2 year Return Period</u> |  |                              |                                    |                                      |                                     |                                                                                     |                                |               |
| <b>Storm<br/>Event</b>                             |  | <b>Max<br/>Level<br/>(m)</b> | <b>Max<br/>Depth<br/>(m)</b>       | <b>Max<br/>Control<br/>(l/s)</b>     | <b>Max<br/>Overflow<br/>(l/s)</b>   | <b>Max<br/>Σ Outflow<br/>(l/s)</b>                                                  | <b>Max<br/>Volume<br/>(m³)</b> | <b>Status</b> |
| 15 min Summer                                      |  | 3.553                        | 0.053                              | 0.4                                  | 0.0                                 | 0.4                                                                                 | 0.8                            | O K           |
| 30 min Summer                                      |  | 3.562                        | 0.062                              | 0.4                                  | 0.0                                 | 0.4                                                                                 | 0.9                            | O K           |
| 60 min Summer                                      |  | 3.566                        | 0.066                              | 0.5                                  | 0.0                                 | 0.5                                                                                 | 1.0                            | O K           |
| 120 min Summer                                     |  | 3.565                        | 0.065                              | 0.4                                  | 0.0                                 | 0.4                                                                                 | 1.0                            | O K           |
| 180 min Summer                                     |  | 3.560                        | 0.060                              | 0.4                                  | 0.0                                 | 0.4                                                                                 | 0.9                            | O K           |
| 240 min Summer                                     |  | 3.556                        | 0.056                              | 0.4                                  | 0.0                                 | 0.4                                                                                 | 0.8                            | O K           |
| 360 min Summer                                     |  | 3.548                        | 0.048                              | 0.4                                  | 0.0                                 | 0.4                                                                                 | 0.7                            | O K           |
| 480 min Summer                                     |  | 3.543                        | 0.043                              | 0.3                                  | 0.0                                 | 0.3                                                                                 | 0.6                            | O K           |
| 600 min Summer                                     |  | 3.539                        | 0.039                              | 0.3                                  | 0.0                                 | 0.3                                                                                 | 0.6                            | O K           |
| 720 min Summer                                     |  | 3.535                        | 0.035                              | 0.3                                  | 0.0                                 | 0.3                                                                                 | 0.5                            | O K           |
| 960 min Summer                                     |  | 3.531                        | 0.031                              | 0.2                                  | 0.0                                 | 0.2                                                                                 | 0.5                            | O K           |
| 1440 min Summer                                    |  | 3.526                        | 0.026                              | 0.2                                  | 0.0                                 | 0.2                                                                                 | 0.4                            | O K           |
| 2160 min Summer                                    |  | 3.522                        | 0.022                              | 0.1                                  | 0.0                                 | 0.1                                                                                 | 0.3                            | O K           |
| 2880 min Summer                                    |  | 3.520                        | 0.020                              | 0.1                                  | 0.0                                 | 0.1                                                                                 | 0.3                            | O K           |
| 4320 min Summer                                    |  | 3.517                        | 0.017                              | 0.1                                  | 0.0                                 | 0.1                                                                                 | 0.3                            | O K           |
| 5760 min Summer                                    |  | 3.515                        | 0.015                              | 0.1                                  | 0.0                                 | 0.1                                                                                 | 0.2                            | O K           |
| 7200 min Summer                                    |  | 3.514                        | 0.014                              | 0.1                                  | 0.0                                 | 0.1                                                                                 | 0.2                            | O K           |
| 8640 min Summer                                    |  | 3.513                        | 0.013                              | 0.1                                  | 0.0                                 | 0.1                                                                                 | 0.2                            | O K           |
| 10080 min Summer                                   |  | 3.512                        | 0.012                              | 0.1                                  | 0.0                                 | 0.1                                                                                 | 0.2                            | O K           |
| <b>Storm<br/>Event</b>                             |  | <b>Rain<br/>(mm/hr)</b>      | <b>Flooded<br/>Volume<br/>(m³)</b> | <b>Discharge<br/>Volume<br/>(m³)</b> | <b>Overflow<br/>Volume<br/>(m³)</b> | <b>Time-Peak<br/>(mins)</b>                                                         |                                |               |
| 15 min Summer                                      |  | 37.154                       | 0.0                                | 1.0                                  | 0.0                                 | 15                                                                                  |                                |               |
| 30 min Summer                                      |  | 24.581                       | 0.0                                | 1.3                                  | 0.0                                 | 24                                                                                  |                                |               |
| 60 min Summer                                      |  | 15.691                       | 0.0                                | 1.6                                  | 0.0                                 | 42                                                                                  |                                |               |
| 120 min Summer                                     |  | 9.821                        | 0.0                                | 2.1                                  | 0.0                                 | 74                                                                                  |                                |               |
| 180 min Summer                                     |  | 7.430                        | 0.0                                | 2.3                                  | 0.0                                 | 106                                                                                 |                                |               |
| 240 min Summer                                     |  | 6.089                        | 0.0                                | 2.5                                  | 0.0                                 | 138                                                                                 |                                |               |
| 360 min Summer                                     |  | 4.578                        | 0.0                                | 2.9                                  | 0.0                                 | 198                                                                                 |                                |               |
| 480 min Summer                                     |  | 3.735                        | 0.0                                | 3.1                                  | 0.0                                 | 260                                                                                 |                                |               |
| 600 min Summer                                     |  | 3.190                        | 0.0                                | 3.3                                  | 0.0                                 | 320                                                                                 |                                |               |
| 720 min Summer                                     |  | 2.803                        | 0.0                                | 3.5                                  | 0.0                                 | 378                                                                                 |                                |               |
| 960 min Summer                                     |  | 2.286                        | 0.0                                | 3.8                                  | 0.0                                 | 498                                                                                 |                                |               |
| 1440 min Summer                                    |  | 1.716                        | 0.0                                | 4.3                                  | 0.0                                 | 736                                                                                 |                                |               |
| 2160 min Summer                                    |  | 1.287                        | 0.0                                | 4.9                                  | 0.0                                 | 1100                                                                                |                                |               |
| 2880 min Summer                                    |  | 1.049                        | 0.0                                | 5.3                                  | 0.0                                 | 1468                                                                                |                                |               |
| 4320 min Summer                                    |  | 0.787                        | 0.0                                | 5.9                                  | 0.0                                 | 2204                                                                                |                                |               |
| 5760 min Summer                                    |  | 0.642                        | 0.0                                | 6.5                                  | 0.0                                 | 2928                                                                                |                                |               |
| 7200 min Summer                                    |  | 0.548                        | 0.0                                | 6.9                                  | 0.0                                 | 3672                                                                                |                                |               |
| 8640 min Summer                                    |  | 0.481                        | 0.0                                | 7.3                                  | 0.0                                 | 4408                                                                                |                                |               |
| 10080 min Summer                                   |  | 0.431                        | 0.0                                | 7.6                                  | 0.0                                 | 5000                                                                                |                                |               |
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|                                             |                     |                           |                                 |                            |                           |                       |                                                                                     |
|---------------------------------------------|---------------------|---------------------------|---------------------------------|----------------------------|---------------------------|-----------------------|-------------------------------------------------------------------------------------|
| Easy Flood Risk                             |                     |                           |                                 |                            |                           |                       | Page 2                                                                              |
| 55 Shepherds Lane<br>Dartford<br>DA1 2NL    |                     |                           |                                 |                            |                           |                       |  |
| Date 14/12/2021 13:57<br>File 49Warren.SRCX |                     |                           | Designed by sheph<br>Checked by |                            |                           |                       |                                                                                     |
| Innovyze                                    |                     |                           | Source Control 2020.1           |                            |                           |                       |                                                                                     |
| Summary of Results for 2 year Return Period |                     |                           |                                 |                            |                           |                       |                                                                                     |
| Storm<br>Event                              | Max<br>Level<br>(m) | Max<br>Depth<br>(m)       | Max<br>Control<br>(l/s)         | Max<br>Overflow<br>(l/s)   | Max<br>Σ Outflow<br>(l/s) | Max<br>Volume<br>(m³) | Status                                                                              |
| 15 min Winter                               | 3.559               | 0.059                     | 0.4                             | 0.0                        | 0.4                       | 0.9                   | O K                                                                                 |
| 30 min Winter                               | 3.569               | 0.069                     | 0.5                             | 0.0                        | 0.5                       | 1.0                   | O K                                                                                 |
| 60 min Winter                               | 3.573               | 0.073                     | 0.5                             | 0.0                        | 0.5                       | 1.1                   | O K                                                                                 |
| 120 min Winter                              | 3.566               | 0.066                     | 0.5                             | 0.0                        | 0.5                       | 1.0                   | O K                                                                                 |
| 180 min Winter                              | 3.559               | 0.059                     | 0.4                             | 0.0                        | 0.4                       | 0.9                   | O K                                                                                 |
| 240 min Winter                              | 3.552               | 0.052                     | 0.4                             | 0.0                        | 0.4                       | 0.8                   | O K                                                                                 |
| 360 min Winter                              | 3.543               | 0.043                     | 0.3                             | 0.0                        | 0.3                       | 0.6                   | O K                                                                                 |
| 480 min Winter                              | 3.537               | 0.037                     | 0.3                             | 0.0                        | 0.3                       | 0.5                   | O K                                                                                 |
| 600 min Winter                              | 3.533               | 0.033                     | 0.3                             | 0.0                        | 0.3                       | 0.5                   | O K                                                                                 |
| 720 min Winter                              | 3.530               | 0.030                     | 0.2                             | 0.0                        | 0.2                       | 0.4                   | O K                                                                                 |
| 960 min Winter                              | 3.526               | 0.026                     | 0.2                             | 0.0                        | 0.2                       | 0.4                   | O K                                                                                 |
| 1440 min Winter                             | 3.522               | 0.022                     | 0.1                             | 0.0                        | 0.1                       | 0.3                   | O K                                                                                 |
| 2160 min Winter                             | 3.519               | 0.019                     | 0.1                             | 0.0                        | 0.1                       | 0.3                   | O K                                                                                 |
| 2880 min Winter                             | 3.517               | 0.017                     | 0.1                             | 0.0                        | 0.1                       | 0.2                   | O K                                                                                 |
| 4320 min Winter                             | 3.514               | 0.014                     | 0.1                             | 0.0                        | 0.1                       | 0.2                   | O K                                                                                 |
| 5760 min Winter                             | 3.513               | 0.013                     | 0.1                             | 0.0                        | 0.1                       | 0.2                   | O K                                                                                 |
| 7200 min Winter                             | 3.512               | 0.012                     | 0.0                             | 0.0                        | 0.0                       | 0.2                   | O K                                                                                 |
| 8640 min Winter                             | 3.511               | 0.011                     | 0.0                             | 0.0                        | 0.0                       | 0.2                   | O K                                                                                 |
| 10080 min Winter                            | 3.510               | 0.010                     | 0.0                             | 0.0                        | 0.0                       | 0.2                   | O K                                                                                 |
| Storm<br>Event                              | Rain<br>(mm/hr)     | Flooded<br>Volume<br>(m³) | Discharge<br>Volume<br>(m³)     | Overflow<br>Volume<br>(m³) | Time-Peak<br>(mins)       |                       |                                                                                     |
| 15 min Winter                               | 37.154              | 0.0                       | 1.1                             | 0.0                        | 16                        |                       |                                                                                     |
| 30 min Winter                               | 24.581              | 0.0                       | 1.4                             | 0.0                        | 25                        |                       |                                                                                     |
| 60 min Winter                               | 15.691              | 0.0                       | 1.8                             | 0.0                        | 44                        |                       |                                                                                     |
| 120 min Winter                              | 9.821               | 0.0                       | 2.3                             | 0.0                        | 80                        |                       |                                                                                     |
| 180 min Winter                              | 7.430               | 0.0                       | 2.6                             | 0.0                        | 112                       |                       |                                                                                     |
| 240 min Winter                              | 6.089               | 0.0                       | 2.9                             | 0.0                        | 144                       |                       |                                                                                     |
| 360 min Winter                              | 4.578               | 0.0                       | 3.2                             | 0.0                        | 204                       |                       |                                                                                     |
| 480 min Winter                              | 3.735               | 0.0                       | 3.5                             | 0.0                        | 264                       |                       |                                                                                     |
| 600 min Winter                              | 3.190               | 0.0                       | 3.7                             | 0.0                        | 324                       |                       |                                                                                     |
| 720 min Winter                              | 2.803               | 0.0                       | 3.9                             | 0.0                        | 382                       |                       |                                                                                     |
| 960 min Winter                              | 2.286               | 0.0                       | 4.3                             | 0.0                        | 504                       |                       |                                                                                     |
| 1440 min Winter                             | 1.716               | 0.0                       | 4.8                             | 0.0                        | 750                       |                       |                                                                                     |
| 2160 min Winter                             | 1.287               | 0.0                       | 5.4                             | 0.0                        | 1112                      |                       |                                                                                     |
| 2880 min Winter                             | 1.049               | 0.0                       | 5.9                             | 0.0                        | 1484                      |                       |                                                                                     |
| 4320 min Winter                             | 0.787               | 0.0                       | 6.7                             | 0.0                        | 2136                      |                       |                                                                                     |
| 5760 min Winter                             | 0.642               | 0.0                       | 7.2                             | 0.0                        | 2848                      |                       |                                                                                     |
| 7200 min Winter                             | 0.548               | 0.0                       | 7.7                             | 0.0                        | 3672                      |                       |                                                                                     |
| 8640 min Winter                             | 0.481               | 0.0                       | 8.1                             | 0.0                        | 4408                      |                       |                                                                                     |
| 10080 min Winter                            | 0.431               | 0.0                       | 8.5                             | 0.0                        | 5008                      |                       |                                                                                     |
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|                                                    |  |                              |                                    |                                      |                                     |                                                                                     |                                |               |
|----------------------------------------------------|--|------------------------------|------------------------------------|--------------------------------------|-------------------------------------|-------------------------------------------------------------------------------------|--------------------------------|---------------|
| Easy Flood Risk                                    |  |                              |                                    |                                      |                                     | Page 1                                                                              |                                |               |
| 55 Shepherds Lane<br>Dartford<br>DA1 2NL           |  |                              |                                    |                                      |                                     |  |                                |               |
| Date 14/12/2021 13:57<br>File 49Warren.SRCX        |  |                              |                                    | Designed by sheph<br>Checked by      |                                     |                                                                                     |                                |               |
| Innovyze                                           |  |                              |                                    | Source Control 2020.1                |                                     |                                                                                     |                                |               |
| <u>Summary of Results for 5 year Return Period</u> |  |                              |                                    |                                      |                                     |                                                                                     |                                |               |
| <b>Storm<br/>Event</b>                             |  | <b>Max<br/>Level<br/>(m)</b> | <b>Max<br/>Depth<br/>(m)</b>       | <b>Max<br/>Control<br/>(l/s)</b>     | <b>Max<br/>Overflow<br/>(l/s)</b>   | <b>Max<br/>Σ Outflow<br/>(l/s)</b>                                                  | <b>Max<br/>Volume<br/>(m³)</b> | <b>Status</b> |
| 15 min Summer                                      |  | 3.568                        | 0.068                              | 0.5                                  | 0.0                                 | 0.5                                                                                 | 1.0                            | O K           |
| 30 min Summer                                      |  | 3.580                        | 0.080                              | 0.5                                  | 0.0                                 | 0.5                                                                                 | 1.2                            | O K           |
| 60 min Summer                                      |  | 3.587                        | 0.087                              | 0.5                                  | 0.0                                 | 0.5                                                                                 | 1.3                            | O K           |
| 120 min Summer                                     |  | 3.584                        | 0.084                              | 0.5                                  | 0.0                                 | 0.5                                                                                 | 1.3                            | O K           |
| 180 min Summer                                     |  | 3.577                        | 0.077                              | 0.5                                  | 0.0                                 | 0.5                                                                                 | 1.2                            | O K           |
| 240 min Summer                                     |  | 3.570                        | 0.070                              | 0.5                                  | 0.0                                 | 0.5                                                                                 | 1.1                            | O K           |
| 360 min Summer                                     |  | 3.560                        | 0.060                              | 0.4                                  | 0.0                                 | 0.4                                                                                 | 0.9                            | O K           |
| 480 min Summer                                     |  | 3.552                        | 0.052                              | 0.4                                  | 0.0                                 | 0.4                                                                                 | 0.8                            | O K           |
| 600 min Summer                                     |  | 3.547                        | 0.047                              | 0.4                                  | 0.0                                 | 0.4                                                                                 | 0.7                            | O K           |
| 720 min Summer                                     |  | 3.542                        | 0.042                              | 0.3                                  | 0.0                                 | 0.3                                                                                 | 0.6                            | O K           |
| 960 min Summer                                     |  | 3.536                        | 0.036                              | 0.3                                  | 0.0                                 | 0.3                                                                                 | 0.5                            | O K           |
| 1440 min Summer                                    |  | 3.530                        | 0.030                              | 0.2                                  | 0.0                                 | 0.2                                                                                 | 0.4                            | O K           |
| 2160 min Summer                                    |  | 3.525                        | 0.025                              | 0.2                                  | 0.0                                 | 0.2                                                                                 | 0.4                            | O K           |
| 2880 min Summer                                    |  | 3.522                        | 0.022                              | 0.1                                  | 0.0                                 | 0.1                                                                                 | 0.3                            | O K           |
| 4320 min Summer                                    |  | 3.519                        | 0.019                              | 0.1                                  | 0.0                                 | 0.1                                                                                 | 0.3                            | O K           |
| 5760 min Summer                                    |  | 3.517                        | 0.017                              | 0.1                                  | 0.0                                 | 0.1                                                                                 | 0.2                            | O K           |
| 7200 min Summer                                    |  | 3.515                        | 0.015                              | 0.1                                  | 0.0                                 | 0.1                                                                                 | 0.2                            | O K           |
| 8640 min Summer                                    |  | 3.514                        | 0.014                              | 0.1                                  | 0.0                                 | 0.1                                                                                 | 0.2                            | O K           |
| 10080 min Summer                                   |  | 3.513                        | 0.013                              | 0.1                                  | 0.0                                 | 0.1                                                                                 | 0.2                            | O K           |
| <b>Storm<br/>Event</b>                             |  | <b>Rain<br/>(mm/hr)</b>      | <b>Flooded<br/>Volume<br/>(m³)</b> | <b>Discharge<br/>Volume<br/>(m³)</b> | <b>Overflow<br/>Volume<br/>(m³)</b> | <b>Time-Peak<br/>(mins)</b>                                                         |                                |               |
| 15 min Summer                                      |  | 47.938                       | 0.0                                | 1.3                                  | 0.0                                 | 16                                                                                  |                                |               |
| 30 min Summer                                      |  | 31.455                       | 0.0                                | 1.6                                  | 0.0                                 | 25                                                                                  |                                |               |
| 60 min Summer                                      |  | 19.888                       | 0.0                                | 2.1                                  | 0.0                                 | 42                                                                                  |                                |               |
| 120 min Summer                                     |  | 12.307                       | 0.0                                | 2.6                                  | 0.0                                 | 76                                                                                  |                                |               |
| 180 min Summer                                     |  | 9.240                        | 0.0                                | 2.9                                  | 0.0                                 | 108                                                                                 |                                |               |
| 240 min Summer                                     |  | 7.525                        | 0.0                                | 3.2                                  | 0.0                                 | 140                                                                                 |                                |               |
| 360 min Summer                                     |  | 5.626                        | 0.0                                | 3.5                                  | 0.0                                 | 200                                                                                 |                                |               |
| 480 min Summer                                     |  | 4.573                        | 0.0                                | 3.8                                  | 0.0                                 | 262                                                                                 |                                |               |
| 600 min Summer                                     |  | 3.893                        | 0.0                                | 4.1                                  | 0.0                                 | 320                                                                                 |                                |               |
| 720 min Summer                                     |  | 3.412                        | 0.0                                | 4.3                                  | 0.0                                 | 382                                                                                 |                                |               |
| 960 min Summer                                     |  | 2.771                        | 0.0                                | 4.6                                  | 0.0                                 | 500                                                                                 |                                |               |
| 1440 min Summer                                    |  | 2.065                        | 0.0                                | 5.2                                  | 0.0                                 | 736                                                                                 |                                |               |
| 2160 min Summer                                    |  | 1.539                        | 0.0                                | 5.8                                  | 0.0                                 | 1104                                                                                |                                |               |
| 2880 min Summer                                    |  | 1.248                        | 0.0                                | 6.3                                  | 0.0                                 | 1468                                                                                |                                |               |
| 4320 min Summer                                    |  | 0.930                        | 0.0                                | 7.0                                  | 0.0                                 | 2192                                                                                |                                |               |
| 5760 min Summer                                    |  | 0.754                        | 0.0                                | 7.6                                  | 0.0                                 | 2912                                                                                |                                |               |
| 7200 min Summer                                    |  | 0.641                        | 0.0                                | 8.1                                  | 0.0                                 | 3648                                                                                |                                |               |
| 8640 min Summer                                    |  | 0.561                        | 0.0                                | 8.5                                  | 0.0                                 | 4360                                                                                |                                |               |
| 10080 min Summer                                   |  | 0.502                        | 0.0                                | 8.8                                  | 0.0                                 | 5008                                                                                |                                |               |
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|                                                    |                     |                           |                                 |                            |                           |                                                                                     |        |
|----------------------------------------------------|---------------------|---------------------------|---------------------------------|----------------------------|---------------------------|-------------------------------------------------------------------------------------|--------|
| Easy Flood Risk                                    |                     |                           |                                 |                            |                           | Page 2                                                                              |        |
| 55 Shepherds Lane<br>Dartford<br>DA1 2NL           |                     |                           |                                 |                            |                           |  |        |
| Date 14/12/2021 13:57<br>File 49Warren.SRCX        |                     |                           | Designed by sheph<br>Checked by |                            |                           |                                                                                     |        |
| Innovyze                                           |                     |                           | Source Control 2020.1           |                            |                           |                                                                                     |        |
| <u>Summary of Results for 5 year Return Period</u> |                     |                           |                                 |                            |                           |                                                                                     |        |
| Storm<br>Event                                     | Max<br>Level<br>(m) | Max<br>Depth<br>(m)       | Max<br>Control<br>(l/s)         | Max<br>Overflow<br>(l/s)   | Max<br>Σ Outflow<br>(l/s) | Max<br>Volume<br>(m³)                                                               | Status |
| 15 min Winter                                      | 3.577               | 0.077                     | 0.5                             | 0.0                        | 0.5                       | 1.2                                                                                 | O K    |
| 30 min Winter                                      | 3.591               | 0.091                     | 0.5                             | 0.0                        | 0.5                       | 1.4                                                                                 | O K    |
| 60 min Winter                                      | 3.596               | 0.096                     | 0.5                             | 0.0                        | 0.5                       | 1.4                                                                                 | O K    |
| 120 min Winter                                     | 3.588               | 0.088                     | 0.5                             | 0.0                        | 0.5                       | 1.3                                                                                 | O K    |
| 180 min Winter                                     | 3.577               | 0.077                     | 0.5                             | 0.0                        | 0.5                       | 1.1                                                                                 | O K    |
| 240 min Winter                                     | 3.566               | 0.066                     | 0.5                             | 0.0                        | 0.5                       | 1.0                                                                                 | O K    |
| 360 min Winter                                     | 3.553               | 0.053                     | 0.4                             | 0.0                        | 0.4                       | 0.8                                                                                 | O K    |
| 480 min Winter                                     | 3.545               | 0.045                     | 0.3                             | 0.0                        | 0.3                       | 0.7                                                                                 | O K    |
| 600 min Winter                                     | 3.539               | 0.039                     | 0.3                             | 0.0                        | 0.3                       | 0.6                                                                                 | O K    |
| 720 min Winter                                     | 3.535               | 0.035                     | 0.3                             | 0.0                        | 0.3                       | 0.5                                                                                 | O K    |
| 960 min Winter                                     | 3.530               | 0.030                     | 0.2                             | 0.0                        | 0.2                       | 0.4                                                                                 | O K    |
| 1440 min Winter                                    | 3.525               | 0.025                     | 0.2                             | 0.0                        | 0.2                       | 0.4                                                                                 | O K    |
| 2160 min Winter                                    | 3.521               | 0.021                     | 0.1                             | 0.0                        | 0.1                       | 0.3                                                                                 | O K    |
| 2880 min Winter                                    | 3.518               | 0.018                     | 0.1                             | 0.0                        | 0.1                       | 0.3                                                                                 | O K    |
| 4320 min Winter                                    | 3.516               | 0.016                     | 0.1                             | 0.0                        | 0.1                       | 0.2                                                                                 | O K    |
| 5760 min Winter                                    | 3.514               | 0.014                     | 0.1                             | 0.0                        | 0.1                       | 0.2                                                                                 | O K    |
| 7200 min Winter                                    | 3.513               | 0.013                     | 0.1                             | 0.0                        | 0.1                       | 0.2                                                                                 | O K    |
| 8640 min Winter                                    | 3.512               | 0.012                     | 0.0                             | 0.0                        | 0.0                       | 0.2                                                                                 | O K    |
| 10080 min Winter                                   | 3.511               | 0.011                     | 0.0                             | 0.0                        | 0.0                       | 0.2                                                                                 | O K    |
| Storm<br>Event                                     | Rain<br>(mm/hr)     | Flooded<br>Volume<br>(m³) | Discharge<br>Volume<br>(m³)     | Overflow<br>Volume<br>(m³) | Time-Peak<br>(mins)       |                                                                                     |        |
| 15 min Winter                                      | 47.938              | 0.0                       | 1.4                             | 0.0                        | 16                        |                                                                                     |        |
| 30 min Winter                                      | 31.455              | 0.0                       | 1.8                             | 0.0                        | 27                        |                                                                                     |        |
| 60 min Winter                                      | 19.888              | 0.0                       | 2.3                             | 0.0                        | 46                        |                                                                                     |        |
| 120 min Winter                                     | 12.307              | 0.0                       | 2.9                             | 0.0                        | 82                        |                                                                                     |        |
| 180 min Winter                                     | 9.240               | 0.0                       | 3.3                             | 0.0                        | 116                       |                                                                                     |        |
| 240 min Winter                                     | 7.525               | 0.0                       | 3.5                             | 0.0                        | 146                       |                                                                                     |        |
| 360 min Winter                                     | 5.626               | 0.0                       | 4.0                             | 0.0                        | 208                       |                                                                                     |        |
| 480 min Winter                                     | 4.573               | 0.0                       | 4.3                             | 0.0                        | 266                       |                                                                                     |        |
| 600 min Winter                                     | 3.893               | 0.0                       | 4.6                             | 0.0                        | 326                       |                                                                                     |        |
| 720 min Winter                                     | 3.412               | 0.0                       | 4.8                             | 0.0                        | 386                       |                                                                                     |        |
| 960 min Winter                                     | 2.771               | 0.0                       | 5.2                             | 0.0                        | 502                       |                                                                                     |        |
| 1440 min Winter                                    | 2.065               | 0.0                       | 5.8                             | 0.0                        | 734                       |                                                                                     |        |
| 2160 min Winter                                    | 1.539               | 0.0                       | 6.5                             | 0.0                        | 1100                      |                                                                                     |        |
| 2880 min Winter                                    | 1.248               | 0.0                       | 7.0                             | 0.0                        | 1428                      |                                                                                     |        |
| 4320 min Winter                                    | 0.930               | 0.0                       | 7.9                             | 0.0                        | 2232                      |                                                                                     |        |
| 5760 min Winter                                    | 0.754               | 0.0                       | 8.5                             | 0.0                        | 2808                      |                                                                                     |        |
| 7200 min Winter                                    | 0.641               | 0.0                       | 9.0                             | 0.0                        | 3584                      |                                                                                     |        |
| 8640 min Winter                                    | 0.561               | 0.0                       | 9.5                             | 0.0                        | 4376                      |                                                                                     |        |
| 10080 min Winter                                   | 0.502               | 0.0                       | 9.9                             | 0.0                        | 5040                      |                                                                                     |        |
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|                                                     |        |                         |                           |                                 |                            |                                                                                     |                       |               |
|-----------------------------------------------------|--------|-------------------------|---------------------------|---------------------------------|----------------------------|-------------------------------------------------------------------------------------|-----------------------|---------------|
| Easy Flood Risk                                     |        |                         |                           |                                 |                            | Page 1                                                                              |                       |               |
| 55 Shepherds Lane<br>Dartford<br>DA1 2NL            |        |                         |                           |                                 |                            |  |                       |               |
| Date 14/12/2021 13:58<br>File 49Warren.SRCX         |        |                         |                           | Designed by sheph<br>Checked by |                            |                                                                                     |                       |               |
| Innovyze                                            |        |                         |                           | Source Control 2020.1           |                            |                                                                                     |                       |               |
| <u>Summary of Results for 10 year Return Period</u> |        |                         |                           |                                 |                            |                                                                                     |                       |               |
| <b>Storm<br/>Event</b>                              |        | <b>Max<br/>Level</b>    | <b>Max<br/>Depth</b>      | <b>Max<br/>Control</b>          | <b>Max<br/>Overflow</b>    | <b>Max<br/>Σ Outflow</b>                                                            | <b>Max<br/>Volume</b> | <b>Status</b> |
|                                                     |        | <b>(m)</b>              | <b>(m)</b>                | <b>(l/s)</b>                    | <b>(l/s)</b>               | <b>(l/s)</b>                                                                        | <b>(m³)</b>           |               |
| 15 min                                              | Summer | 3.580                   | 0.080                     | 0.5                             | 0.0                        | 0.5                                                                                 | 1.2                   | O K           |
| 30 min                                              | Summer | 3.595                   | 0.095                     | 0.5                             | 0.0                        | 0.5                                                                                 | 1.4                   | O K           |
| 60 min                                              | Summer | 3.604                   | 0.104                     | 0.5                             | 0.0                        | 0.5                                                                                 | 1.6                   | O K           |
| 120 min                                             | Summer | 3.602                   | 0.102                     | 0.5                             | 0.0                        | 0.5                                                                                 | 1.5                   | O K           |
| 180 min                                             | Summer | 3.594                   | 0.094                     | 0.5                             | 0.0                        | 0.5                                                                                 | 1.4                   | O K           |
| 240 min                                             | Summer | 3.586                   | 0.086                     | 0.5                             | 0.0                        | 0.5                                                                                 | 1.3                   | O K           |
| 360 min                                             | Summer | 3.571                   | 0.071                     | 0.5                             | 0.0                        | 0.5                                                                                 | 1.1                   | O K           |
| 480 min                                             | Summer | 3.561                   | 0.061                     | 0.4                             | 0.0                        | 0.4                                                                                 | 0.9                   | O K           |
| 600 min                                             | Summer | 3.554                   | 0.054                     | 0.4                             | 0.0                        | 0.4                                                                                 | 0.8                   | O K           |
| 720 min                                             | Summer | 3.549                   | 0.049                     | 0.4                             | 0.0                        | 0.4                                                                                 | 0.7                   | O K           |
| 960 min                                             | Summer | 3.542                   | 0.042                     | 0.3                             | 0.0                        | 0.3                                                                                 | 0.6                   | O K           |
| 1440 min                                            | Summer | 3.533                   | 0.033                     | 0.3                             | 0.0                        | 0.3                                                                                 | 0.5                   | O K           |
| 2160 min                                            | Summer | 3.527                   | 0.027                     | 0.2                             | 0.0                        | 0.2                                                                                 | 0.4                   | O K           |
| 2880 min                                            | Summer | 3.524                   | 0.024                     | 0.2                             | 0.0                        | 0.2                                                                                 | 0.4                   | O K           |
| 4320 min                                            | Summer | 3.520                   | 0.020                     | 0.1                             | 0.0                        | 0.1                                                                                 | 0.3                   | O K           |
| 5760 min                                            | Summer | 3.518                   | 0.018                     | 0.1                             | 0.0                        | 0.1                                                                                 | 0.3                   | O K           |
| 7200 min                                            | Summer | 3.516                   | 0.016                     | 0.1                             | 0.0                        | 0.1                                                                                 | 0.2                   | O K           |
| 8640 min                                            | Summer | 3.515                   | 0.015                     | 0.1                             | 0.0                        | 0.1                                                                                 | 0.2                   | O K           |
| 10080 min                                           | Summer | 3.514                   | 0.014                     | 0.1                             | 0.0                        | 0.1                                                                                 | 0.2                   | O K           |
|                                                     |        |                         |                           |                                 |                            |                                                                                     |                       |               |
| <b>Storm<br/>Event</b>                              |        | <b>Rain<br/>(mm/hr)</b> | <b>Flooded<br/>Volume</b> | <b>Discharge<br/>Volume</b>     | <b>Overflow<br/>Volume</b> | <b>Time-Peak<br/>(mins)</b>                                                         |                       |               |
|                                                     |        |                         | <b>(m³)</b>               | <b>(m³)</b>                     | <b>(m³)</b>                |                                                                                     |                       |               |
| 15 min                                              | Summer | 55.614                  | 0.0                       | 1.5                             | 0.0                        | 16                                                                                  |                       |               |
| 30 min                                              | Summer | 36.694                  | 0.0                       | 1.9                             | 0.0                        | 26                                                                                  |                       |               |
| 60 min                                              | Summer | 23.276                  | 0.0                       | 2.4                             | 0.0                        | 44                                                                                  |                       |               |
| 120 min                                             | Summer | 14.404                  | 0.0                       | 3.0                             | 0.0                        | 78                                                                                  |                       |               |
| 180 min                                             | Summer | 10.791                  | 0.0                       | 3.4                             | 0.0                        | 110                                                                                 |                       |               |
| 240 min                                             | Summer | 8.764                   | 0.0                       | 3.7                             | 0.0                        | 142                                                                                 |                       |               |
| 360 min                                             | Summer | 6.528                   | 0.0                       | 4.1                             | 0.0                        | 204                                                                                 |                       |               |
| 480 min                                             | Summer | 5.292                   | 0.0                       | 4.4                             | 0.0                        | 262                                                                                 |                       |               |
| 600 min                                             | Summer | 4.495                   | 0.0                       | 4.7                             | 0.0                        | 322                                                                                 |                       |               |
| 720 min                                             | Summer | 3.932                   | 0.0                       | 4.9                             | 0.0                        | 382                                                                                 |                       |               |
| 960 min                                             | Summer | 3.183                   | 0.0                       | 5.3                             | 0.0                        | 502                                                                                 |                       |               |
| 1440 min                                            | Summer | 2.361                   | 0.0                       | 5.9                             | 0.0                        | 738                                                                                 |                       |               |
| 2160 min                                            | Summer | 1.750                   | 0.0                       | 6.6                             | 0.0                        | 1100                                                                                |                       |               |
| 2880 min                                            | Summer | 1.414                   | 0.0                       | 7.1                             | 0.0                        | 1468                                                                                |                       |               |
| 4320 min                                            | Summer | 1.047                   | 0.0                       | 7.9                             | 0.0                        | 2204                                                                                |                       |               |
| 5760 min                                            | Summer | 0.846                   | 0.0                       | 8.5                             | 0.0                        | 2928                                                                                |                       |               |
| 7200 min                                            | Summer | 0.716                   | 0.0                       | 9.0                             | 0.0                        | 3608                                                                                |                       |               |
| 8640 min                                            | Summer | 0.626                   | 0.0                       | 9.5                             | 0.0                        | 4408                                                                                |                       |               |
| 10080 min                                           | Summer | 0.558                   | 0.0                       | 9.8                             | 0.0                        | 5120                                                                                |                       |               |
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|                                                     |                     |                           |                             |                                 |                           |                                                                                     |        |
|-----------------------------------------------------|---------------------|---------------------------|-----------------------------|---------------------------------|---------------------------|-------------------------------------------------------------------------------------|--------|
| Easy Flood Risk                                     |                     |                           |                             |                                 |                           | Page 2                                                                              |        |
| 55 Shepherds Lane<br>Dartford<br>DA1 2NL            |                     |                           |                             | Designed by sheph<br>Checked by |                           |  |        |
| Date 14/12/2021 13:58<br>File 49Warren.SRCX         |                     |                           |                             |                                 |                           |                                                                                     |        |
| Innovyze                                            |                     |                           |                             | Source Control 2020.1           |                           |                                                                                     |        |
| <u>Summary of Results for 10 year Return Period</u> |                     |                           |                             |                                 |                           |                                                                                     |        |
| Storm<br>Event                                      | Max<br>Level<br>(m) | Max<br>Depth<br>(m)       | Max<br>Control<br>(l/s)     | Max<br>Overflow<br>(l/s)        | Max<br>Σ Outflow<br>(l/s) | Max<br>Volume<br>(m³)                                                               | Status |
| 15 min Winter                                       | 3.591               | 0.091                     | 0.5                         | 0.0                             | 0.5                       | 1.4                                                                                 | O K    |
| 30 min Winter                                       | 3.608               | 0.108                     | 0.5                         | 0.0                             | 0.5                       | 1.6                                                                                 | O K    |
| 60 min Winter                                       | 3.616               | 0.116                     | 0.5                         | 0.0                             | 0.5                       | 1.7                                                                                 | O K    |
| 120 min Winter                                      | 3.609               | 0.109                     | 0.5                         | 0.0                             | 0.5                       | 1.6                                                                                 | O K    |
| 180 min Winter                                      | 3.596               | 0.096                     | 0.5                         | 0.0                             | 0.5                       | 1.4                                                                                 | O K    |
| 240 min Winter                                      | 3.582               | 0.082                     | 0.5                         | 0.0                             | 0.5                       | 1.2                                                                                 | O K    |
| 360 min Winter                                      | 3.563               | 0.063                     | 0.4                         | 0.0                             | 0.4                       | 0.9                                                                                 | O K    |
| 480 min Winter                                      | 3.552               | 0.052                     | 0.4                         | 0.0                             | 0.4                       | 0.8                                                                                 | O K    |
| 600 min Winter                                      | 3.545               | 0.045                     | 0.3                         | 0.0                             | 0.3                       | 0.7                                                                                 | O K    |
| 720 min Winter                                      | 3.540               | 0.040                     | 0.3                         | 0.0                             | 0.3                       | 0.6                                                                                 | O K    |
| 960 min Winter                                      | 3.533               | 0.033                     | 0.3                         | 0.0                             | 0.3                       | 0.5                                                                                 | O K    |
| 1440 min Winter                                     | 3.527               | 0.027                     | 0.2                         | 0.0                             | 0.2                       | 0.4                                                                                 | O K    |
| 2160 min Winter                                     | 3.522               | 0.022                     | 0.1                         | 0.0                             | 0.1                       | 0.3                                                                                 | O K    |
| 2880 min Winter                                     | 3.520               | 0.020                     | 0.1                         | 0.0                             | 0.1                       | 0.3                                                                                 | O K    |
| 4320 min Winter                                     | 3.517               | 0.017                     | 0.1                         | 0.0                             | 0.1                       | 0.2                                                                                 | O K    |
| 5760 min Winter                                     | 3.515               | 0.015                     | 0.1                         | 0.0                             | 0.1                       | 0.2                                                                                 | O K    |
| 7200 min Winter                                     | 3.514               | 0.014                     | 0.1                         | 0.0                             | 0.1                       | 0.2                                                                                 | O K    |
| 8640 min Winter                                     | 3.513               | 0.013                     | 0.1                         | 0.0                             | 0.1                       | 0.2                                                                                 | O K    |
| 10080 min Winter                                    | 3.512               | 0.012                     | 0.0                         | 0.0                             | 0.0                       | 0.2                                                                                 | O K    |
| Storm<br>Event                                      | Rain<br>(mm/hr)     | Flooded<br>Volume<br>(m³) | Discharge<br>Volume<br>(m³) | Overflow<br>Volume<br>(m³)      | Time-Peak<br>(mins)       |                                                                                     |        |
| 15 min Winter                                       | 55.614              | 0.0                       | 1.6                         | 0.0                             | 16                        |                                                                                     |        |
| 30 min Winter                                       | 36.694              | 0.0                       | 2.2                         | 0.0                             | 29                        |                                                                                     |        |
| 60 min Winter                                       | 23.276              | 0.0                       | 2.7                         | 0.0                             | 46                        |                                                                                     |        |
| 120 min Winter                                      | 14.404              | 0.0                       | 3.4                         | 0.0                             | 84                        |                                                                                     |        |
| 180 min Winter                                      | 10.791              | 0.0                       | 3.8                         | 0.0                             | 118                       |                                                                                     |        |
| 240 min Winter                                      | 8.764               | 0.0                       | 4.1                         | 0.0                             | 150                       |                                                                                     |        |
| 360 min Winter                                      | 6.528               | 0.0                       | 4.6                         | 0.0                             | 208                       |                                                                                     |        |
| 480 min Winter                                      | 5.292               | 0.0                       | 5.0                         | 0.0                             | 270                       |                                                                                     |        |
| 600 min Winter                                      | 4.495               | 0.0                       | 5.3                         | 0.0                             | 328                       |                                                                                     |        |
| 720 min Winter                                      | 3.932               | 0.0                       | 5.5                         | 0.0                             | 390                       |                                                                                     |        |
| 960 min Winter                                      | 3.183               | 0.0                       | 6.0                         | 0.0                             | 504                       |                                                                                     |        |
| 1440 min Winter                                     | 2.361               | 0.0                       | 6.7                         | 0.0                             | 748                       |                                                                                     |        |
| 2160 min Winter                                     | 1.750               | 0.0                       | 7.4                         | 0.0                             | 1124                      |                                                                                     |        |
| 2880 min Winter                                     | 1.414               | 0.0                       | 8.0                         | 0.0                             | 1460                      |                                                                                     |        |
| 4320 min Winter                                     | 1.047               | 0.0                       | 8.9                         | 0.0                             | 2180                      |                                                                                     |        |
| 5760 min Winter                                     | 0.846               | 0.0                       | 9.5                         | 0.0                             | 2904                      |                                                                                     |        |
| 7200 min Winter                                     | 0.716               | 0.0                       | 10.1                        | 0.0                             | 3672                      |                                                                                     |        |
| 8640 min Winter                                     | 0.626               | 0.0                       | 10.6                        | 0.0                             | 4480                      |                                                                                     |        |
| 10080 min Winter                                    | 0.558               | 0.0                       | 11.0                        | 0.0                             | 5088                      |                                                                                     |        |
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|                                                     |  |                         |                           |                                 |                            |                             |                                                                                     |               |
|-----------------------------------------------------|--|-------------------------|---------------------------|---------------------------------|----------------------------|-----------------------------|-------------------------------------------------------------------------------------|---------------|
| Easy Flood Risk                                     |  |                         |                           |                                 |                            |                             | Page 1                                                                              |               |
| 55 Shepherds Lane<br>Dartford<br>DA1 2NL            |  |                         |                           |                                 |                            |                             |  |               |
| Date 14/12/2021 13:59<br>File 49Warren.SRCX         |  |                         |                           | Designed by sheph<br>Checked by |                            |                             |                                                                                     |               |
| Innovyze                                            |  |                         |                           | Source Control 2020.1           |                            |                             |                                                                                     |               |
| <u>Summary of Results for 30 year Return Period</u> |  |                         |                           |                                 |                            |                             |                                                                                     |               |
| <b>Storm<br/>Event</b>                              |  | <b>Max<br/>Level</b>    | <b>Max<br/>Depth</b>      | <b>Max<br/>Control</b>          | <b>Max<br/>Overflow</b>    | <b>Max<br/>Σ Outflow</b>    | <b>Max<br/>Volume</b>                                                               | <b>Status</b> |
|                                                     |  | <b>(m)</b>              | <b>(m)</b>                | <b>(l/s)</b>                    | <b>(l/s)</b>               | <b>(l/s)</b>                | <b>(m³)</b>                                                                         |               |
| 15 min Summer                                       |  | 3.604                   | 0.104                     | 0.5                             | 0.0                        | 0.5                         | 1.6                                                                                 | O K           |
| 30 min Summer                                       |  | 3.626                   | 0.126                     | 0.5                             | 0.0                        | 0.5                         | 1.9                                                                                 | O K           |
| 60 min Summer                                       |  | 3.640                   | 0.140                     | 0.5                             | 0.0                        | 0.5                         | 2.1                                                                                 | O K           |
| 120 min Summer                                      |  | 3.640                   | 0.140                     | 0.5                             | 0.0                        | 0.5                         | 2.1                                                                                 | O K           |
| 180 min Summer                                      |  | 3.631                   | 0.131                     | 0.5                             | 0.0                        | 0.5                         | 2.0                                                                                 | O K           |
| 240 min Summer                                      |  | 3.620                   | 0.120                     | 0.5                             | 0.0                        | 0.5                         | 1.8                                                                                 | O K           |
| 360 min Summer                                      |  | 3.600                   | 0.100                     | 0.5                             | 0.0                        | 0.5                         | 1.5                                                                                 | O K           |
| 480 min Summer                                      |  | 3.584                   | 0.084                     | 0.5                             | 0.0                        | 0.5                         | 1.3                                                                                 | O K           |
| 600 min Summer                                      |  | 3.572                   | 0.072                     | 0.5                             | 0.0                        | 0.5                         | 1.1                                                                                 | O K           |
| 720 min Summer                                      |  | 3.563                   | 0.063                     | 0.4                             | 0.0                        | 0.4                         | 0.9                                                                                 | O K           |
| 960 min Summer                                      |  | 3.552                   | 0.052                     | 0.4                             | 0.0                        | 0.4                         | 0.8                                                                                 | O K           |
| 1440 min Summer                                     |  | 3.540                   | 0.040                     | 0.3                             | 0.0                        | 0.3                         | 0.6                                                                                 | O K           |
| 2160 min Summer                                     |  | 3.531                   | 0.031                     | 0.2                             | 0.0                        | 0.2                         | 0.5                                                                                 | O K           |
| 2880 min Summer                                     |  | 3.527                   | 0.027                     | 0.2                             | 0.0                        | 0.2                         | 0.4                                                                                 | O K           |
| 4320 min Summer                                     |  | 3.522                   | 0.022                     | 0.1                             | 0.0                        | 0.1                         | 0.3                                                                                 | O K           |
| 5760 min Summer                                     |  | 3.520                   | 0.020                     | 0.1                             | 0.0                        | 0.1                         | 0.3                                                                                 | O K           |
| 7200 min Summer                                     |  | 3.518                   | 0.018                     | 0.1                             | 0.0                        | 0.1                         | 0.3                                                                                 | O K           |
| 8640 min Summer                                     |  | 3.516                   | 0.016                     | 0.1                             | 0.0                        | 0.1                         | 0.2                                                                                 | O K           |
| 10080 min Summer                                    |  | 3.515                   | 0.015                     | 0.1                             | 0.0                        | 0.1                         | 0.2                                                                                 | O K           |
|                                                     |  |                         |                           |                                 |                            |                             |                                                                                     |               |
| <b>Storm<br/>Event</b>                              |  | <b>Rain<br/>(mm/hr)</b> | <b>Flooded<br/>Volume</b> | <b>Discharge<br/>Volume</b>     | <b>Overflow<br/>Volume</b> | <b>Time-Peak<br/>(mins)</b> |                                                                                     |               |
|                                                     |  |                         | <b>(m³)</b>               | <b>(m³)</b>                     | <b>(m³)</b>                |                             |                                                                                     |               |
| 15 min Summer                                       |  | 70.373                  | 0.0                       | 1.8                             | 0.0                        | 16                          |                                                                                     |               |
| 30 min Summer                                       |  | 46.843                  | 0.0                       | 2.5                             | 0.0                        | 29                          |                                                                                     |               |
| 60 min Summer                                       |  | 29.868                  | 0.0                       | 3.1                             | 0.0                        | 46                          |                                                                                     |               |
| 120 min Summer                                      |  | 18.484                  | 0.0                       | 3.9                             | 0.0                        | 80                          |                                                                                     |               |
| 180 min Summer                                      |  | 13.799                  | 0.0                       | 4.3                             | 0.0                        | 114                         |                                                                                     |               |
| 240 min Summer                                      |  | 11.157                  | 0.0                       | 4.7                             | 0.0                        | 148                         |                                                                                     |               |
| 360 min Summer                                      |  | 8.261                   | 0.0                       | 5.2                             | 0.0                        | 210                         |                                                                                     |               |
| 480 min Summer                                      |  | 6.668                   | 0.0                       | 5.6                             | 0.0                        | 270                         |                                                                                     |               |
| 600 min Summer                                      |  | 5.644                   | 0.0                       | 5.9                             | 0.0                        | 328                         |                                                                                     |               |
| 720 min Summer                                      |  | 4.923                   | 0.0                       | 6.2                             | 0.0                        | 384                         |                                                                                     |               |
| 960 min Summer                                      |  | 3.965                   | 0.0                       | 6.7                             | 0.0                        | 504                         |                                                                                     |               |
| 1440 min Summer                                     |  | 2.919                   | 0.0                       | 7.3                             | 0.0                        | 738                         |                                                                                     |               |
| 2160 min Summer                                     |  | 2.146                   | 0.0                       | 8.1                             | 0.0                        | 1104                        |                                                                                     |               |
| 2880 min Summer                                     |  | 1.724                   | 0.0                       | 8.7                             | 0.0                        | 1468                        |                                                                                     |               |
| 4320 min Summer                                     |  | 1.264                   | 0.0                       | 9.5                             | 0.0                        | 2160                        |                                                                                     |               |
| 5760 min Summer                                     |  | 1.014                   | 0.0                       | 10.2                            | 0.0                        | 2896                        |                                                                                     |               |
| 7200 min Summer                                     |  | 0.854                   | 0.0                       | 10.8                            | 0.0                        | 3656                        |                                                                                     |               |
| 8640 min Summer                                     |  | 0.743                   | 0.0                       | 11.2                            | 0.0                        | 4400                        |                                                                                     |               |
| 10080 min Summer                                    |  | 0.660                   | 0.0                       | 11.6                            | 0.0                        | 5136                        |                                                                                     |               |
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|                                                     |                     |                           |                             |                                                                                     |                           |                       |        |
|-----------------------------------------------------|---------------------|---------------------------|-----------------------------|-------------------------------------------------------------------------------------|---------------------------|-----------------------|--------|
| Easy Flood Risk                                     |                     |                           |                             |                                                                                     |                           |                       | Page 2 |
| 55 Shepherds Lane<br>Dartford<br>DA1 2NL            |                     |                           |                             |  |                           |                       |        |
| Date 14/12/2021 13:59<br>File 49Warren.SRCX         |                     |                           |                             |                                                                                     |                           |                       |        |
| Innovyze                                            |                     |                           |                             |                                                                                     |                           |                       |        |
|                                                     |                     |                           |                             | Source Control 2020.1                                                               |                           |                       |        |
| <u>Summary of Results for 30 year Return Period</u> |                     |                           |                             |                                                                                     |                           |                       |        |
| Storm<br>Event                                      | Max<br>Level<br>(m) | Max<br>Depth<br>(m)       | Max<br>Control<br>(l/s)     | Max<br>Overflow<br>(l/s)                                                            | Max<br>Σ Outflow<br>(l/s) | Max<br>Volume<br>(m³) | Status |
| 15 min Winter                                       | 3.618               | 0.118                     | 0.5                         | 0.0                                                                                 | 0.5                       | 1.8                   | O K    |
| 30 min Winter                                       | 3.645               | 0.145                     | 0.5                         | 0.0                                                                                 | 0.5                       | 2.2                   | O K    |
| 60 min Winter                                       | 3.658               | 0.158                     | 0.5                         | 0.0                                                                                 | 0.5                       | 2.4                   | O K    |
| 120 min Winter                                      | 3.654               | 0.154                     | 0.5                         | 0.0                                                                                 | 0.5                       | 2.3                   | O K    |
| 180 min Winter                                      | 3.639               | 0.139                     | 0.5                         | 0.0                                                                                 | 0.5                       | 2.1                   | O K    |
| 240 min Winter                                      | 3.621               | 0.121                     | 0.5                         | 0.0                                                                                 | 0.5                       | 1.8                   | O K    |
| 360 min Winter                                      | 3.591               | 0.091                     | 0.5                         | 0.0                                                                                 | 0.5                       | 1.4                   | O K    |
| 480 min Winter                                      | 3.570               | 0.070                     | 0.5                         | 0.0                                                                                 | 0.5                       | 1.1                   | O K    |
| 600 min Winter                                      | 3.559               | 0.059                     | 0.4                         | 0.0                                                                                 | 0.4                       | 0.9                   | O K    |
| 720 min Winter                                      | 3.551               | 0.051                     | 0.4                         | 0.0                                                                                 | 0.4                       | 0.8                   | O K    |
| 960 min Winter                                      | 3.541               | 0.041                     | 0.3                         | 0.0                                                                                 | 0.3                       | 0.6                   | O K    |
| 1440 min Winter                                     | 3.531               | 0.031                     | 0.2                         | 0.0                                                                                 | 0.2                       | 0.5                   | O K    |
| 2160 min Winter                                     | 3.525               | 0.025                     | 0.2                         | 0.0                                                                                 | 0.2                       | 0.4                   | O K    |
| 2880 min Winter                                     | 3.522               | 0.022                     | 0.1                         | 0.0                                                                                 | 0.1                       | 0.3                   | O K    |
| 4320 min Winter                                     | 3.518               | 0.018                     | 0.1                         | 0.0                                                                                 | 0.1                       | 0.3                   | O K    |
| 5760 min Winter                                     | 3.516               | 0.016                     | 0.1                         | 0.0                                                                                 | 0.1                       | 0.2                   | O K    |
| 7200 min Winter                                     | 3.515               | 0.015                     | 0.1                         | 0.0                                                                                 | 0.1                       | 0.2                   | O K    |
| 8640 min Winter                                     | 3.514               | 0.014                     | 0.1                         | 0.0                                                                                 | 0.1                       | 0.2                   | O K    |
| 10080 min Winter                                    | 3.513               | 0.013                     | 0.1                         | 0.0                                                                                 | 0.1                       | 0.2                   | O K    |
|                                                     |                     |                           |                             |                                                                                     |                           |                       |        |
| Storm<br>Event                                      | Rain<br>(mm/hr)     | Flooded<br>Volume<br>(m³) | Discharge<br>Volume<br>(m³) | Overflow<br>Volume<br>(m³)                                                          | Time-Peak<br>(mins)       |                       |        |
| 15 min Winter                                       | 70.373              | 0.0                       | 2.1                         | 0.0                                                                                 | 17                        |                       |        |
| 30 min Winter                                       | 46.843              | 0.0                       | 2.7                         | 0.0                                                                                 | 30                        |                       |        |
| 60 min Winter                                       | 29.868              | 0.0                       | 3.5                         | 0.0                                                                                 | 50                        |                       |        |
| 120 min Winter                                      | 18.484              | 0.0                       | 4.3                         | 0.0                                                                                 | 88                        |                       |        |
| 180 min Winter                                      | 13.799              | 0.0                       | 4.9                         | 0.0                                                                                 | 124                       |                       |        |
| 240 min Winter                                      | 11.157              | 0.0                       | 5.2                         | 0.0                                                                                 | 158                       |                       |        |
| 360 min Winter                                      | 8.261               | 0.0                       | 5.8                         | 0.0                                                                                 | 220                       |                       |        |
| 480 min Winter                                      | 6.668               | 0.0                       | 6.3                         | 0.0                                                                                 | 276                       |                       |        |
| 600 min Winter                                      | 5.644               | 0.0                       | 6.6                         | 0.0                                                                                 | 332                       |                       |        |
| 720 min Winter                                      | 4.923               | 0.0                       | 6.9                         | 0.0                                                                                 | 392                       |                       |        |
| 960 min Winter                                      | 3.965               | 0.0                       | 7.5                         | 0.0                                                                                 | 510                       |                       |        |
| 1440 min Winter                                     | 2.919               | 0.0                       | 8.2                         | 0.0                                                                                 | 750                       |                       |        |
| 2160 min Winter                                     | 2.146               | 0.0                       | 9.1                         | 0.0                                                                                 | 1104                      |                       |        |
| 2880 min Winter                                     | 1.724               | 0.0                       | 9.7                         | 0.0                                                                                 | 1456                      |                       |        |
| 4320 min Winter                                     | 1.264               | 0.0                       | 10.7                        | 0.0                                                                                 | 2208                      |                       |        |
| 5760 min Winter                                     | 1.014               | 0.0                       | 11.4                        | 0.0                                                                                 | 2936                      |                       |        |
| 7200 min Winter                                     | 0.854               | 0.0                       | 12.0                        | 0.0                                                                                 | 3568                      |                       |        |
| 8640 min Winter                                     | 0.743               | 0.0                       | 12.6                        | 0.0                                                                                 | 4392                      |                       |        |
| 10080 min Winter                                    | 0.660               | 0.0                       | 13.0                        | 0.0                                                                                 | 5144                      |                       |        |
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|                                                     |  |                              |                                    |                                      |                                     |                                    |                                                                                     |               |
|-----------------------------------------------------|--|------------------------------|------------------------------------|--------------------------------------|-------------------------------------|------------------------------------|-------------------------------------------------------------------------------------|---------------|
| Easy Flood Risk                                     |  |                              |                                    |                                      |                                     |                                    | Page 1                                                                              |               |
| 55 Shepherds Lane<br>Dartford<br>DA1 2NL            |  |                              |                                    |                                      |                                     |                                    |  |               |
| Date 14/12/2021 14:00<br>File 49Warren.SRCX         |  |                              |                                    | Designed by sheph<br>Checked by      |                                     |                                    |                                                                                     |               |
| Innovyze                                            |  |                              |                                    | Source Control 2020.1                |                                     |                                    |                                                                                     |               |
| <u>Summary of Results for 50 year Return Period</u> |  |                              |                                    |                                      |                                     |                                    |                                                                                     |               |
| <b>Storm<br/>Event</b>                              |  | <b>Max<br/>Level<br/>(m)</b> | <b>Max<br/>Depth<br/>(m)</b>       | <b>Max<br/>Control<br/>(l/s)</b>     | <b>Max<br/>Overflow<br/>(l/s)</b>   | <b>Max<br/>Σ Outflow<br/>(l/s)</b> | <b>Max<br/>Volume<br/>(m³)</b>                                                      | <b>Status</b> |
| 15 min Summer                                       |  | 3.617                        | 0.117                              | 0.5                                  | 0.0                                 | 0.5                                | 1.8                                                                                 | O K           |
| 30 min Summer                                       |  | 3.644                        | 0.144                              | 0.5                                  | 0.0                                 | 0.5                                | 2.2                                                                                 | O K           |
| 60 min Summer                                       |  | 3.661                        | 0.161                              | 0.5                                  | 0.0                                 | 0.5                                | 2.4                                                                                 | O K           |
| 120 min Summer                                      |  | 3.662                        | 0.162                              | 0.5                                  | 0.0                                 | 0.5                                | 2.4                                                                                 | O K           |
| 180 min Summer                                      |  | 3.653                        | 0.153                              | 0.5                                  | 0.0                                 | 0.5                                | 2.3                                                                                 | O K           |
| 240 min Summer                                      |  | 3.641                        | 0.141                              | 0.5                                  | 0.0                                 | 0.5                                | 2.1                                                                                 | O K           |
| 360 min Summer                                      |  | 3.618                        | 0.118                              | 0.5                                  | 0.0                                 | 0.5                                | 1.8                                                                                 | O K           |
| 480 min Summer                                      |  | 3.599                        | 0.099                              | 0.5                                  | 0.0                                 | 0.5                                | 1.5                                                                                 | O K           |
| 600 min Summer                                      |  | 3.584                        | 0.084                              | 0.5                                  | 0.0                                 | 0.5                                | 1.3                                                                                 | O K           |
| 720 min Summer                                      |  | 3.573                        | 0.073                              | 0.5                                  | 0.0                                 | 0.5                                | 1.1                                                                                 | O K           |
| 960 min Summer                                      |  | 3.559                        | 0.059                              | 0.4                                  | 0.0                                 | 0.4                                | 0.9                                                                                 | O K           |
| 1440 min Summer                                     |  | 3.544                        | 0.044                              | 0.3                                  | 0.0                                 | 0.3                                | 0.7                                                                                 | O K           |
| 2160 min Summer                                     |  | 3.534                        | 0.034                              | 0.3                                  | 0.0                                 | 0.3                                | 0.5                                                                                 | O K           |
| 2880 min Summer                                     |  | 3.529                        | 0.029                              | 0.2                                  | 0.0                                 | 0.2                                | 0.4                                                                                 | O K           |
| 4320 min Summer                                     |  | 3.524                        | 0.024                              | 0.2                                  | 0.0                                 | 0.2                                | 0.4                                                                                 | O K           |
| 5760 min Summer                                     |  | 3.521                        | 0.021                              | 0.1                                  | 0.0                                 | 0.1                                | 0.3                                                                                 | O K           |
| 7200 min Summer                                     |  | 3.519                        | 0.019                              | 0.1                                  | 0.0                                 | 0.1                                | 0.3                                                                                 | O K           |
| 8640 min Summer                                     |  | 3.517                        | 0.017                              | 0.1                                  | 0.0                                 | 0.1                                | 0.3                                                                                 | O K           |
| 10080 min Summer                                    |  | 3.516                        | 0.016                              | 0.1                                  | 0.0                                 | 0.1                                | 0.2                                                                                 | O K           |
|                                                     |  |                              |                                    |                                      |                                     |                                    |                                                                                     |               |
| <b>Storm<br/>Event</b>                              |  | <b>Rain<br/>(mm/hr)</b>      | <b>Flooded<br/>Volume<br/>(m³)</b> | <b>Discharge<br/>Volume<br/>(m³)</b> | <b>Overflow<br/>Volume<br/>(m³)</b> | <b>Time-Peak<br/>(mins)</b>        |                                                                                     |               |
| 15 min Summer                                       |  | 78.513                       | 0.0                                | 2.1                                  | 0.0                                 | 17                                 |                                                                                     |               |
| 30 min Summer                                       |  | 52.475                       | 0.0                                | 2.7                                  | 0.0                                 | 30                                 |                                                                                     |               |
| 60 min Summer                                       |  | 33.540                       | 0.0                                | 3.5                                  | 0.0                                 | 48                                 |                                                                                     |               |
| 120 min Summer                                      |  | 20.756                       | 0.0                                | 4.4                                  | 0.0                                 | 82                                 |                                                                                     |               |
| 180 min Summer                                      |  | 15.471                       | 0.0                                | 4.9                                  | 0.0                                 | 116                                |                                                                                     |               |
| 240 min Summer                                      |  | 12.482                       | 0.0                                | 5.2                                  | 0.0                                 | 150                                |                                                                                     |               |
| 360 min Summer                                      |  | 9.217                        | 0.0                                | 5.8                                  | 0.0                                 | 214                                |                                                                                     |               |
| 480 min Summer                                      |  | 7.425                        | 0.0                                | 6.2                                  | 0.0                                 | 274                                |                                                                                     |               |
| 600 min Summer                                      |  | 6.274                        | 0.0                                | 6.6                                  | 0.0                                 | 332                                |                                                                                     |               |
| 720 min Summer                                      |  | 5.465                        | 0.0                                | 6.9                                  | 0.0                                 | 390                                |                                                                                     |               |
| 960 min Summer                                      |  | 4.392                        | 0.0                                | 7.4                                  | 0.0                                 | 508                                |                                                                                     |               |
| 1440 min Summer                                     |  | 3.222                        | 0.0                                | 8.1                                  | 0.0                                 | 748                                |                                                                                     |               |
| 2160 min Summer                                     |  | 2.360                        | 0.0                                | 8.9                                  | 0.0                                 | 1104                               |                                                                                     |               |
| 2880 min Summer                                     |  | 1.890                        | 0.0                                | 9.5                                  | 0.0                                 | 1468                               |                                                                                     |               |
| 4320 min Summer                                     |  | 1.380                        | 0.0                                | 10.4                                 | 0.0                                 | 2188                               |                                                                                     |               |
| 5760 min Summer                                     |  | 1.103                        | 0.0                                | 11.1                                 | 0.0                                 | 2888                               |                                                                                     |               |
| 7200 min Summer                                     |  | 0.927                        | 0.0                                | 11.7                                 | 0.0                                 | 3672                               |                                                                                     |               |
| 8640 min Summer                                     |  | 0.804                        | 0.0                                | 12.2                                 | 0.0                                 | 4360                               |                                                                                     |               |
| 10080 min Summer                                    |  | 0.714                        | 0.0                                | 12.6                                 | 0.0                                 | 5120                               |                                                                                     |               |
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|                                                     |  |                     |                                 |                             |                            |                                                                                     |                       |        |
|-----------------------------------------------------|--|---------------------|---------------------------------|-----------------------------|----------------------------|-------------------------------------------------------------------------------------|-----------------------|--------|
| Easy Flood Risk                                     |  |                     |                                 |                             |                            | Page 2                                                                              |                       |        |
| 55 Shepherds Lane<br>Dartford<br>DA1 2NL            |  |                     |                                 |                             |                            |  |                       |        |
| Date 14/12/2021 14:00<br>File 49Warren.SRCX         |  |                     | Designed by sheph<br>Checked by |                             |                            |                                                                                     |                       |        |
| Innovyze                                            |  |                     | Source Control 2020.1           |                             |                            |                                                                                     |                       |        |
| <u>Summary of Results for 50 year Return Period</u> |  |                     |                                 |                             |                            |                                                                                     |                       |        |
| Storm<br>Event                                      |  | Max<br>Level<br>(m) | Max<br>Depth<br>(m)             | Max<br>Control<br>(l/s)     | Max<br>Overflow<br>(l/s)   | Max<br>Outflow<br>(l/s)                                                             | Max<br>Volume<br>(m³) | Status |
| 15 min Winter                                       |  | 3.633               | 0.133                           | 0.5                         | 0.0                        | 0.5                                                                                 | 2.0                   | O K    |
| 30 min Winter                                       |  | 3.665               | 0.165                           | 0.5                         | 0.0                        | 0.5                                                                                 | 2.5                   | O K    |
| 60 min Winter                                       |  | 3.683               | 0.183                           | 0.5                         | 0.0                        | 0.5                                                                                 | 2.7                   | O K    |
| 120 min Winter                                      |  | 3.681               | 0.181                           | 0.5                         | 0.0                        | 0.5                                                                                 | 2.7                   | O K    |
| 180 min Winter                                      |  | 3.665               | 0.165                           | 0.5                         | 0.0                        | 0.5                                                                                 | 2.5                   | O K    |
| 240 min Winter                                      |  | 3.646               | 0.146                           | 0.5                         | 0.0                        | 0.5                                                                                 | 2.2                   | O K    |
| 360 min Winter                                      |  | 3.611               | 0.111                           | 0.5                         | 0.0                        | 0.5                                                                                 | 1.7                   | O K    |
| 480 min Winter                                      |  | 3.585               | 0.085                           | 0.5                         | 0.0                        | 0.5                                                                                 | 1.3                   | O K    |
| 600 min Winter                                      |  | 3.568               | 0.068                           | 0.5                         | 0.0                        | 0.5                                                                                 | 1.0                   | O K    |
| 720 min Winter                                      |  | 3.558               | 0.058                           | 0.4                         | 0.0                        | 0.4                                                                                 | 0.9                   | O K    |
| 960 min Winter                                      |  | 3.546               | 0.046                           | 0.3                         | 0.0                        | 0.3                                                                                 | 0.7                   | O K    |
| 1440 min Winter                                     |  | 3.534               | 0.034                           | 0.3                         | 0.0                        | 0.3                                                                                 | 0.5                   | O K    |
| 2160 min Winter                                     |  | 3.527               | 0.027                           | 0.2                         | 0.0                        | 0.2                                                                                 | 0.4                   | O K    |
| 2880 min Winter                                     |  | 3.523               | 0.023                           | 0.2                         | 0.0                        | 0.2                                                                                 | 0.3                   | O K    |
| 4320 min Winter                                     |  | 3.519               | 0.019                           | 0.1                         | 0.0                        | 0.1                                                                                 | 0.3                   | O K    |
| 5760 min Winter                                     |  | 3.517               | 0.017                           | 0.1                         | 0.0                        | 0.1                                                                                 | 0.3                   | O K    |
| 7200 min Winter                                     |  | 3.516               | 0.016                           | 0.1                         | 0.0                        | 0.1                                                                                 | 0.2                   | O K    |
| 8640 min Winter                                     |  | 3.514               | 0.014                           | 0.1                         | 0.0                        | 0.1                                                                                 | 0.2                   | O K    |
| 10080 min Winter                                    |  | 3.514               | 0.014                           | 0.1                         | 0.0                        | 0.1                                                                                 | 0.2                   | O K    |
| Storm<br>Event                                      |  | Rain<br>(mm/hr)     | Flooded<br>Volume<br>(m³)       | Discharge<br>Volume<br>(m³) | Overflow<br>Volume<br>(m³) | Time-Peak<br>(mins)                                                                 |                       |        |
| 15 min Winter                                       |  | 78.513              | 0.0                             | 2.3                         | 0.0                        | 17                                                                                  |                       |        |
| 30 min Winter                                       |  | 52.475              | 0.0                             | 3.1                         | 0.0                        | 30                                                                                  |                       |        |
| 60 min Winter                                       |  | 33.540              | 0.0                             | 3.9                         | 0.0                        | 52                                                                                  |                       |        |
| 120 min Winter                                      |  | 20.756              | 0.0                             | 4.9                         | 0.0                        | 90                                                                                  |                       |        |
| 180 min Winter                                      |  | 15.471              | 0.0                             | 5.5                         | 0.0                        | 126                                                                                 |                       |        |
| 240 min Winter                                      |  | 12.482              | 0.0                             | 5.9                         | 0.0                        | 160                                                                                 |                       |        |
| 360 min Winter                                      |  | 9.217               | 0.0                             | 6.5                         | 0.0                        | 226                                                                                 |                       |        |
| 480 min Winter                                      |  | 7.425               | 0.0                             | 7.0                         | 0.0                        | 284                                                                                 |                       |        |
| 600 min Winter                                      |  | 6.274               | 0.0                             | 7.4                         | 0.0                        | 338                                                                                 |                       |        |
| 720 min Winter                                      |  | 5.465               | 0.0                             | 7.7                         | 0.0                        | 396                                                                                 |                       |        |
| 960 min Winter                                      |  | 4.392               | 0.0                             | 8.3                         | 0.0                        | 512                                                                                 |                       |        |
| 1440 min Winter                                     |  | 3.222               | 0.0                             | 9.1                         | 0.0                        | 738                                                                                 |                       |        |
| 2160 min Winter                                     |  | 2.360               | 0.0                             | 10.0                        | 0.0                        | 1108                                                                                |                       |        |
| 2880 min Winter                                     |  | 1.890               | 0.0                             | 10.7                        | 0.0                        | 1472                                                                                |                       |        |
| 4320 min Winter                                     |  | 1.380               | 0.0                             | 11.7                        | 0.0                        | 2204                                                                                |                       |        |
| 5760 min Winter                                     |  | 1.103               | 0.0                             | 12.4                        | 0.0                        | 2880                                                                                |                       |        |
| 7200 min Winter                                     |  | 0.927               | 0.0                             | 13.1                        | 0.0                        | 3672                                                                                |                       |        |
| 8640 min Winter                                     |  | 0.804               | 0.0                             | 13.6                        | 0.0                        | 4352                                                                                |                       |        |
| 10080 min Winter                                    |  | 0.714               | 0.0                             | 14.1                        | 0.0                        | 5104                                                                                |                       |        |
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|                                                      |  |                      |                            |                                 |                             |                                                                                     |                        |               |
|------------------------------------------------------|--|----------------------|----------------------------|---------------------------------|-----------------------------|-------------------------------------------------------------------------------------|------------------------|---------------|
| Easy Flood Risk                                      |  |                      |                            |                                 |                             | Page 1                                                                              |                        |               |
| 55 Shepherds Lane<br>Dartford<br>DA1 2NL             |  |                      |                            |                                 |                             |  |                        |               |
| Date 14/12/2021 14:01<br>File 49Warren.SRCX          |  |                      |                            | Designed by sheph<br>Checked by |                             |                                                                                     |                        |               |
| Innovyze                                             |  |                      |                            | Source Control 2020.1           |                             |                                                                                     |                        |               |
| <u>Summary of Results for 100 year Return Period</u> |  |                      |                            |                                 |                             |                                                                                     |                        |               |
| <b>Storm Event</b>                                   |  | <b>Max Level (m)</b> | <b>Max Depth (m)</b>       | <b>Max Control (l/s)</b>        | <b>Max Overflow (l/s)</b>   | <b>Max Outflow (l/s)</b>                                                            | <b>Max Volume (m³)</b> | <b>Status</b> |
| 15 min Summer                                        |  | 3.638                | 0.138                      | 0.5                             | 0.0                         | 0.5                                                                                 | 2.1                    | O K           |
| 30 min Summer                                        |  | 3.673                | 0.173                      | 0.5                             | 0.0                         | 0.5                                                                                 | 2.6                    | O K           |
| 60 min Summer                                        |  | 3.695                | 0.195                      | 0.5                             | 0.0                         | 0.5                                                                                 | 2.9                    | O K           |
| 120 min Summer                                       |  | 3.699                | 0.199                      | 0.5                             | 0.0                         | 0.5                                                                                 | 3.0                    | O K           |
| 180 min Summer                                       |  | 3.690                | 0.190                      | 0.5                             | 0.0                         | 0.5                                                                                 | 2.8                    | O K           |
| 240 min Summer                                       |  | 3.676                | 0.176                      | 0.5                             | 0.0                         | 0.5                                                                                 | 2.6                    | O K           |
| 360 min Summer                                       |  | 3.650                | 0.150                      | 0.5                             | 0.0                         | 0.5                                                                                 | 2.2                    | O K           |
| 480 min Summer                                       |  | 3.627                | 0.127                      | 0.5                             | 0.0                         | 0.5                                                                                 | 1.9                    | O K           |
| 600 min Summer                                       |  | 3.608                | 0.108                      | 0.5                             | 0.0                         | 0.5                                                                                 | 1.6                    | O K           |
| 720 min Summer                                       |  | 3.592                | 0.092                      | 0.5                             | 0.0                         | 0.5                                                                                 | 1.4                    | O K           |
| 960 min Summer                                       |  | 3.571                | 0.071                      | 0.5                             | 0.0                         | 0.5                                                                                 | 1.1                    | O K           |
| 1440 min Summer                                      |  | 3.551                | 0.051                      | 0.4                             | 0.0                         | 0.4                                                                                 | 0.8                    | O K           |
| 2160 min Summer                                      |  | 3.538                | 0.038                      | 0.3                             | 0.0                         | 0.3                                                                                 | 0.6                    | O K           |
| 2880 min Summer                                      |  | 3.532                | 0.032                      | 0.2                             | 0.0                         | 0.2                                                                                 | 0.5                    | O K           |
| 4320 min Summer                                      |  | 3.525                | 0.025                      | 0.2                             | 0.0                         | 0.2                                                                                 | 0.4                    | O K           |
| 5760 min Summer                                      |  | 3.522                | 0.022                      | 0.1                             | 0.0                         | 0.1                                                                                 | 0.3                    | O K           |
| 7200 min Summer                                      |  | 3.520                | 0.020                      | 0.1                             | 0.0                         | 0.1                                                                                 | 0.3                    | O K           |
| 8640 min Summer                                      |  | 3.518                | 0.018                      | 0.1                             | 0.0                         | 0.1                                                                                 | 0.3                    | O K           |
| 10080 min Summer                                     |  | 3.517                | 0.017                      | 0.1                             | 0.0                         | 0.1                                                                                 | 0.3                    | O K           |
| <b>Storm Event</b>                                   |  | <b>Rain (mm/hr)</b>  | <b>Flooded Volume (m³)</b> | <b>Discharge Volume (m³)</b>    | <b>Overflow Volume (m³)</b> | <b>Time-Peak (mins)</b>                                                             |                        |               |
| 15 min Summer                                        |  | 91.083               | 0.0                        | 2.4                             | 0.0                         | 17                                                                                  |                        |               |
| 30 min Summer                                        |  | 61.215               | 0.0                        | 3.2                             | 0.0                         | 31                                                                                  |                        |               |
| 60 min Summer                                        |  | 39.255               | 0.0                        | 4.1                             | 0.0                         | 52                                                                                  |                        |               |
| 120 min Summer                                       |  | 24.293               | 0.0                        | 5.1                             | 0.0                         | 86                                                                                  |                        |               |
| 180 min Summer                                       |  | 18.068               | 0.0                        | 5.7                             | 0.0                         | 120                                                                                 |                        |               |
| 240 min Summer                                       |  | 14.537               | 0.0                        | 6.1                             | 0.0                         | 154                                                                                 |                        |               |
| 360 min Summer                                       |  | 10.694               | 0.0                        | 6.7                             | 0.0                         | 218                                                                                 |                        |               |
| 480 min Summer                                       |  | 8.592                | 0.0                        | 7.2                             | 0.0                         | 280                                                                                 |                        |               |
| 600 min Summer                                       |  | 7.244                | 0.0                        | 7.6                             | 0.0                         | 340                                                                                 |                        |               |
| 720 min Summer                                       |  | 6.298                | 0.0                        | 7.9                             | 0.0                         | 398                                                                                 |                        |               |
| 960 min Summer                                       |  | 5.045                | 0.0                        | 8.5                             | 0.0                         | 512                                                                                 |                        |               |
| 1440 min Summer                                      |  | 3.684                | 0.0                        | 9.3                             | 0.0                         | 750                                                                                 |                        |               |
| 2160 min Summer                                      |  | 2.684                | 0.0                        | 10.1                            | 0.0                         | 1104                                                                                |                        |               |
| 2880 min Summer                                      |  | 2.141                | 0.0                        | 10.8                            | 0.0                         | 1468                                                                                |                        |               |
| 4320 min Summer                                      |  | 1.554                | 0.0                        | 11.7                            | 0.0                         | 2200                                                                                |                        |               |
| 5760 min Summer                                      |  | 1.237                | 0.0                        | 12.5                            | 0.0                         | 2912                                                                                |                        |               |
| 7200 min Summer                                      |  | 1.035                | 0.0                        | 13.0                            | 0.0                         | 3576                                                                                |                        |               |
| 8640 min Summer                                      |  | 0.896                | 0.0                        | 13.5                            | 0.0                         | 4400                                                                                |                        |               |
| 10080 min Summer                                     |  | 0.793                | 0.0                        | 14.0                            | 0.0                         | 5088                                                                                |                        |               |
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|                                                      |  |                              |                                    |                                      |                                     |                                                                                     |                                |               |
|------------------------------------------------------|--|------------------------------|------------------------------------|--------------------------------------|-------------------------------------|-------------------------------------------------------------------------------------|--------------------------------|---------------|
| Easy Flood Risk                                      |  |                              |                                    |                                      |                                     | Page 2                                                                              |                                |               |
| 55 Shepherds Lane<br>Dartford<br>DA1 2NL             |  |                              |                                    |                                      |                                     |  |                                |               |
| Date 14/12/2021 14:01<br>File 49Warren.SRCX          |  |                              |                                    | Designed by sheph<br>Checked by      |                                     |                                                                                     |                                |               |
| Innovyze                                             |  |                              |                                    | Source Control 2020.1                |                                     |                                                                                     |                                |               |
| <u>Summary of Results for 100 year Return Period</u> |  |                              |                                    |                                      |                                     |                                                                                     |                                |               |
| <b>Storm<br/>Event</b>                               |  | <b>Max<br/>Level<br/>(m)</b> | <b>Max<br/>Depth<br/>(m)</b>       | <b>Max<br/>Control<br/>(l/s)</b>     | <b>Max<br/>Overflow<br/>(l/s)</b>   | <b>Max<br/>Σ Outflow<br/>(l/s)</b>                                                  | <b>Max<br/>Volume<br/>(m³)</b> | <b>Status</b> |
| 15 min Winter                                        |  | 3.657                        | 0.157                              | 0.5                                  | 0.0                                 | 0.5                                                                                 | 2.3                            | O K           |
| 30 min Winter                                        |  | 3.698                        | 0.198                              | 0.5                                  | 0.0                                 | 0.5                                                                                 | 3.0                            | O K           |
| 60 min Winter                                        |  | 3.724                        | 0.224                              | 0.5                                  | 0.0                                 | 0.5                                                                                 | 3.4                            | O K           |
| 120 min Winter                                       |  | 3.726                        | 0.226                              | 0.5                                  | 0.0                                 | 0.5                                                                                 | 3.4                            | O K           |
| 180 min Winter                                       |  | 3.710                        | 0.210                              | 0.5                                  | 0.0                                 | 0.5                                                                                 | 3.2                            | O K           |
| 240 min Winter                                       |  | 3.689                        | 0.189                              | 0.5                                  | 0.0                                 | 0.5                                                                                 | 2.8                            | O K           |
| 360 min Winter                                       |  | 3.647                        | 0.147                              | 0.5                                  | 0.0                                 | 0.5                                                                                 | 2.2                            | O K           |
| 480 min Winter                                       |  | 3.614                        | 0.114                              | 0.5                                  | 0.0                                 | 0.5                                                                                 | 1.7                            | O K           |
| 600 min Winter                                       |  | 3.588                        | 0.088                              | 0.5                                  | 0.0                                 | 0.5                                                                                 | 1.3                            | O K           |
| 720 min Winter                                       |  | 3.571                        | 0.071                              | 0.5                                  | 0.0                                 | 0.5                                                                                 | 1.1                            | O K           |
| 960 min Winter                                       |  | 3.554                        | 0.054                              | 0.4                                  | 0.0                                 | 0.4                                                                                 | 0.8                            | O K           |
| 1440 min Winter                                      |  | 3.539                        | 0.039                              | 0.3                                  | 0.0                                 | 0.3                                                                                 | 0.6                            | O K           |
| 2160 min Winter                                      |  | 3.530                        | 0.030                              | 0.2                                  | 0.0                                 | 0.2                                                                                 | 0.4                            | O K           |
| 2880 min Winter                                      |  | 3.525                        | 0.025                              | 0.2                                  | 0.0                                 | 0.2                                                                                 | 0.4                            | O K           |
| 4320 min Winter                                      |  | 3.521                        | 0.021                              | 0.1                                  | 0.0                                 | 0.1                                                                                 | 0.3                            | O K           |
| 5760 min Winter                                      |  | 3.518                        | 0.018                              | 0.1                                  | 0.0                                 | 0.1                                                                                 | 0.3                            | O K           |
| 7200 min Winter                                      |  | 3.517                        | 0.017                              | 0.1                                  | 0.0                                 | 0.1                                                                                 | 0.2                            | O K           |
| 8640 min Winter                                      |  | 3.515                        | 0.015                              | 0.1                                  | 0.0                                 | 0.1                                                                                 | 0.2                            | O K           |
| 10080 min Winter                                     |  | 3.514                        | 0.014                              | 0.1                                  | 0.0                                 | 0.1                                                                                 | 0.2                            | O K           |
| <b>Storm<br/>Event</b>                               |  | <b>Rain<br/>(mm/hr)</b>      | <b>Flooded<br/>Volume<br/>(m³)</b> | <b>Discharge<br/>Volume<br/>(m³)</b> | <b>Overflow<br/>Volume<br/>(m³)</b> | <b>Time-Peak<br/>(mins)</b>                                                         |                                |               |
| 15 min Winter                                        |  | 91.083                       | 0.0                                | 2.7                                  | 0.0                                 | 17                                                                                  |                                |               |
| 30 min Winter                                        |  | 61.215                       | 0.0                                | 3.6                                  | 0.0                                 | 31                                                                                  |                                |               |
| 60 min Winter                                        |  | 39.255                       | 0.0                                | 4.6                                  | 0.0                                 | 58                                                                                  |                                |               |
| 120 min Winter                                       |  | 24.293                       | 0.0                                | 5.7                                  | 0.0                                 | 92                                                                                  |                                |               |
| 180 min Winter                                       |  | 18.068                       | 0.0                                | 6.4                                  | 0.0                                 | 130                                                                                 |                                |               |
| 240 min Winter                                       |  | 14.537                       | 0.0                                | 6.8                                  | 0.0                                 | 166                                                                                 |                                |               |
| 360 min Winter                                       |  | 10.694                       | 0.0                                | 7.5                                  | 0.0                                 | 232                                                                                 |                                |               |
| 480 min Winter                                       |  | 8.592                        | 0.0                                | 8.1                                  | 0.0                                 | 294                                                                                 |                                |               |
| 600 min Winter                                       |  | 7.244                        | 0.0                                | 8.5                                  | 0.0                                 | 350                                                                                 |                                |               |
| 720 min Winter                                       |  | 6.298                        | 0.0                                | 8.9                                  | 0.0                                 | 404                                                                                 |                                |               |
| 960 min Winter                                       |  | 5.045                        | 0.0                                | 9.5                                  | 0.0                                 | 512                                                                                 |                                |               |
| 1440 min Winter                                      |  | 3.684                        | 0.0                                | 10.4                                 | 0.0                                 | 750                                                                                 |                                |               |
| 2160 min Winter                                      |  | 2.684                        | 0.0                                | 11.4                                 | 0.0                                 | 1100                                                                                |                                |               |
| 2880 min Winter                                      |  | 2.141                        | 0.0                                | 12.1                                 | 0.0                                 | 1468                                                                                |                                |               |
| 4320 min Winter                                      |  | 1.554                        | 0.0                                | 13.2                                 | 0.0                                 | 2160                                                                                |                                |               |
| 5760 min Winter                                      |  | 1.237                        | 0.0                                | 14.0                                 | 0.0                                 | 2928                                                                                |                                |               |
| 7200 min Winter                                      |  | 1.035                        | 0.0                                | 14.6                                 | 0.0                                 | 3664                                                                                |                                |               |
| 8640 min Winter                                      |  | 0.896                        | 0.0                                | 15.2                                 | 0.0                                 | 4344                                                                                |                                |               |
| 10080 min Winter                                     |  | 0.793                        | 0.0                                | 15.7                                 | 0.0                                 | 5120                                                                                |                                |               |
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