

### Design Settings

|                       |                   |                                      |               |
|-----------------------|-------------------|--------------------------------------|---------------|
| Rainfall Methodology  | FSR               | Maximum Time of Concentration (mins) | 30.00         |
| Return Period (years) | 1                 | Maximum Rainfall (mm/hr)             | 0.0           |
| Additional Flow (%)   | 0                 | Minimum Velocity (m/s)               | 1.00          |
| FSR Region            | England and Wales | Connection Type                      | Level Soffits |
| M5-60 (mm)            | 20.000            | Minimum Backdrop Height (m)          | 9.999         |
| Ratio-R               | 0.400             | Preferred Cover Depth (m)            | 1.200         |
| CV                    | 0.750             | Include Intermediate Ground          | ✓             |
| Time of Entry (mins)  | 5.00              | Enforce best practice design rules   | ✓             |

### Nodes

| Name | Area<br>(ha) | T of E<br>(mins) | Cover<br>Level<br>(m) | Diameter<br>(mm) | Easting<br>(m) | Northing<br>(m) | Depth<br>(m) |
|------|--------------|------------------|-----------------------|------------------|----------------|-----------------|--------------|
| 1    | 0.019        | 5.00             | 101.510               | 1200             | 447836.105     | 298006.451      | 1.793        |
| 2    | 0.060        | 5.00             | 100.770               | 1200             | 447841.544     | 298036.814      | 1.438        |
| 3    | 0.196        | 5.00             | 100.030               | 1200             | 447840.311     | 298067.254      | 1.505        |
| 4    | 0.034        | 5.00             | 99.180                | 1200             | 447838.018     | 298102.555      | 1.505        |
| 5    | 0.039        | 5.00             | 100.330               | 1200             | 447768.594     | 298109.535      | 1.428        |
| 6    | 0.084        | 5.00             | 99.270                | 1200             | 447821.484     | 298105.361      | 1.432        |
| 7    | 0.038        | 5.00             | 99.010                | 1200             | 447832.719     | 298110.966      | 1.520        |
| 8    | 0.025        | 5.00             | 98.620                | 1200             | 447837.557     | 298123.434      | 1.575        |
| 9    | 0.167        | 5.00             | 97.835                | 1200             | 447836.398     | 298140.474      | 1.567        |
| 10   | 0.078        | 5.00             | 96.675                | 1350             | 447840.683     | 298163.292      | 1.537        |
| 11A  | 0.000        | 5.00             | 97.400                | 1350             | 447816.535     | 298167.827      | 2.422        |
| 11   | 0.000        | 5.00             | 96.500                | 1350             | 447789.314     | 298180.519      | 1.878        |
| 12   | 0.040        | 5.00             | 103.050               | 1200             | 447744.479     | 297997.866      | 1.725        |
| 13   | 0.046        | 5.00             | 102.575               | 1200             | 447741.087     | 298021.153      | 1.775        |
| 14   | 0.142        | 5.00             | 101.290               | 1200             | 447731.779     | 298085.047      | 1.971        |
| 15   | 0.000        | 5.00             | 101.120               | 1200             | 447732.570     | 298094.033      | 2.395        |
| 16   | 0.011        | 5.00             | 100.870               | 1200             | 447739.575     | 298105.961      | 2.203        |
| 17   | 0.016        | 5.00             | 100.095               | 1200             | 447731.722     | 298123.693      | 1.945        |
| 18   | 0.089        | 5.00             | 98.210                | 1200             | 447726.082     | 298162.064      | 1.987        |
| 19   | 0.097        | 5.00             | 98.055                | 1200             | 447740.670     | 298164.205      | 2.015        |
| 20   | 0.020        | 5.00             | 96.500                | 1500             | 447742.990     | 298178.673      | 1.900        |
| 21   | 0.000        |                  | 96.500                |                  | 447737.224     | 298183.924      | 2.000        |
| 22   | 0.000        |                  | 96.500                | 3000             | 447730.742     | 298186.896      | 2.050        |
| 23   | 0.000        |                  | 92.520                | 1200             | 447732.063     | 298215.607      | 1.575        |
| 24   | 0.000        |                  | 92.469                | 1200             | 447729.186     | 298222.958      | 1.575        |
| CP1  | 0.075        | 5.00             | 102.500               | 1200             | 447755.022     | 298018.824      | 1.450        |
| S1A  | 0.047        | 5.00             | 101.400               | 1200             | 447827.784     | 298007.966      | 1.450        |
| 22a  | 0.019        | 5.00             | 92.420                | 1350             | 447736.209     | 298216.551      | 1.280        |
| 22b  | 0.023        | 5.00             | 93.200                | 1350             | 447782.426     | 298204.048      | 1.475        |
| 22c  | 0.075        | 5.00             | 95.600                | 1350             | 447827.874     | 298188.909      | 1.475        |

### Links

| Name  | US Node | DS Node | Length (m) | ks (mm) / n | US IL (m) | DS IL (m) | Fall (m) | Slope (1:X) | Dia (mm) | T of C (mins) | Rain (mm/hr) |
|-------|---------|---------|------------|-------------|-----------|-----------|----------|-------------|----------|---------------|--------------|
| 1.030 | S1A     | 1       | 8.458      | 0.600       | 99.950    | 99.717    | 0.233    | 36.3        | 225      | 5.06          | 0.0          |
| 1.000 | 1       | 2       | 30.846     | 0.600       | 99.717    | 99.332    | 0.385    | 80.1        | 225      | 5.42          | 0.0          |
| 1.001 | 2       | 3       | 30.465     | 0.600       | 99.332    | 98.600    | 0.732    | 41.6        | 225      | 5.67          | 0.0          |
| 1.002 | 3       | 4       | 35.375     | 0.600       | 98.525    | 97.675    | 0.850    | 41.6        | 300      | 5.91          | 0.0          |
| 1.003 | 4       | 7       | 9.941      | 0.600       | 97.675    | 97.490    | 0.185    | 53.7        | 300      | 5.98          | 0.0          |
| 2.000 | 5       | 6       | 53.054     | 0.600       | 98.902    | 97.838    | 1.064    | 49.9        | 225      | 5.48          | 0.0          |
| 2.001 | 6       | 7       | 12.556     | 0.600       | 97.838    | 97.565    | 0.273    | 46.0        | 225      | 5.58          | 0.0          |
| 1.004 | 7       | 8       | 13.374     | 0.600       | 97.490    | 97.045    | 0.445    | 30.1        | 300      | 6.06          | 0.0          |
| 1.005 | 8       | 9       | 17.079     | 0.600       | 97.045    | 96.268    | 0.777    | 22.0        | 300      | 6.15          | 0.0          |
| 1.006 | 9       | 10      | 23.217     | 0.600       | 96.268    | 95.213    | 1.055    | 22.0        | 300      | 6.26          | 0.0          |
| 4.001 | 10      | 11A     | 24.570     | 0.600       | 95.138    | 94.978    | 0.160    | 153.6       | 375      | 6.54          | 0.0          |
| 4.002 | 11A     | 11      | 30.034     | 0.600       | 94.978    | 94.622    | 0.356    | 84.4        | 375      | 6.80          | 0.0          |
| 1.008 | 11      | 21      | 52.201     | 0.600       | 94.622    | 94.500    | 0.122    | 427.9       | 450      | 7.69          | 0.0          |
| 3.000 | 12      | 13      | 23.533     | 0.600       | 101.325   | 100.800   | 0.525    | 44.8        | 225      | 5.20          | 0.0          |
| 5.002 | CP1     | 13      | 14.128     | 0.600       | 101.050   | 100.800   | 0.250    | 56.5        | 225      | 5.14          | 0.0          |
| 3.001 | 13      | 14      | 64.568     | 0.600       | 100.800   | 99.319    | 1.481    | 43.6        | 225      | 5.74          | 0.0          |
| 3.002 | 14      | 15      | 9.021      | 0.600       | 99.319    | 98.800    | 0.519    | 17.4        | 225      | 5.79          | 0.0          |
| 3.003 | 15      | 16      | 13.833     | 0.600       | 98.725    | 98.667    | 0.058    | 238.5       | 225      | 6.06          | 0.0          |
| 3.004 | 16      | 17      | 19.393     | 0.600       | 98.667    | 98.150    | 0.517    | 37.5        | 225      | 6.21          | 0.0          |
| 3.005 | 17      | 18      | 38.783     | 0.600       | 98.150    | 96.223    | 1.927    | 20.1        | 300      | 6.40          | 0.0          |
| 3.006 | 18      | 19      | 14.744     | 0.600       | 96.223    | 96.040    | 0.183    | 80.6        | 300      | 6.54          | 0.0          |
| 3.007 | 19      | 20      | 14.653     | 0.600       | 96.040    | 94.600    | 1.440    | 10.2        | 300      | 6.59          | 0.0          |
| 3.008 | 20      | 21      | 7.799      | 0.600       | 94.600    | 94.500    | 0.100    | 78.0        | 600      | 6.63          | 0.0          |
| 1.009 | 21      | 22      | 7.131      | 0.600       | 94.500    | 94.450    | 0.050    | 142.6       | 450      | 7.76          | 0.0          |

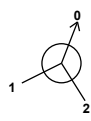
| Name  | Vel (m/s) | Cap (l/s) | Flow (l/s) | US Depth (m) | DS Depth (m) | Σ Area (ha) | Σ Add Inflow (l/s) | Pro Depth (mm) | Pro Velocity (m/s) |
|-------|-----------|-----------|------------|--------------|--------------|-------------|--------------------|----------------|--------------------|
| 1.030 | 2.178     | 86.6      | 0.0        | 1.225        | 1.568        | 0.047       | 0.0                | 0              | 0.000              |
| 1.000 | 1.462     | 58.1      | 0.0        | 1.568        | 1.213        | 0.066       | 0.0                | 0              | 0.000              |
| 1.001 | 2.033     | 80.8      | 0.0        | 1.213        | 1.205        | 0.126       | 0.0                | 0              | 0.000              |
| 1.002 | 2.444     | 172.7     | 0.0        | 1.205        | 1.205        | 0.322       | 0.0                | 0              | 0.000              |
| 1.003 | 2.149     | 151.9     | 0.0        | 1.205        | 1.220        | 0.356       | 0.0                | 0              | 0.000              |
| 2.000 | 1.856     | 73.8      | 0.0        | 1.203        | 1.207        | 0.039       | 0.0                | 0              | 0.000              |
| 2.001 | 1.934     | 76.9      | 0.0        | 1.207        | 1.220        | 0.123       | 0.0                | 0              | 0.000              |
| 1.004 | 2.878     | 203.4     | 0.0        | 1.220        | 1.275        | 0.517       | 0.0                | 0              | 0.000              |
| 1.005 | 3.367     | 238.0     | 0.0        | 1.275        | 1.267        | 0.542       | 0.0                | 0              | 0.000              |
| 1.006 | 3.366     | 237.9     | 0.0        | 1.267        | 1.162        | 0.709       | 0.0                | 0              | 0.000              |
| 4.001 | 1.459     | 161.2     | 0.0        | 1.162        | 2.047        | 0.787       | 0.0                | 0              | 0.000              |
| 4.002 | 1.973     | 218.0     | 0.0        | 2.047        | 1.503        | 0.787       | 0.0                | 0              | 0.000              |
| 1.008 | 0.976     | 155.3     | 0.0        | 1.428        | 1.550        | 0.787       | 0.0                | 0              | 0.000              |
| 3.000 | 1.959     | 77.9      | 0.0        | 1.500        | 1.550        | 0.040       | 0.0                | 0              | 0.000              |
| 5.002 | 1.743     | 69.3      | 0.0        | 1.225        | 1.550        | 0.075       | 0.0                | 0              | 0.000              |
| 3.001 | 1.986     | 79.0      | 0.0        | 1.550        | 1.746        | 0.161       | 0.0                | 0              | 0.000              |
| 3.002 | 3.153     | 125.4     | 0.0        | 1.746        | 2.095        | 0.303       | 0.0                | 0              | 0.000              |
| 3.003 | 0.842     | 33.5      | 0.0        | 2.170        | 1.978        | 0.303       | 0.0                | 0              | 0.000              |
| 3.004 | 2.142     | 85.2      | 0.0        | 1.978        | 1.720        | 0.314       | 0.0                | 0              | 0.000              |
| 3.005 | 3.520     | 248.8     | 0.0        | 1.645        | 1.687        | 0.330       | 0.0                | 0              | 0.000              |
| 3.006 | 1.753     | 123.9     | 0.0        | 1.687        | 1.715        | 0.419       | 0.0                | 0              | 0.000              |
| 3.007 | 4.956     | 350.3     | 0.0        | 1.715        | 1.600        | 0.516       | 0.0                | 0              | 0.000              |
| 3.008 | 2.759     | 780.1     | 0.0        | 1.300        | 1.400        | 0.536       | 0.0                | 0              | 0.000              |
| 1.009 | 1.700     | 270.4     | 0.0        | 1.550        | 1.600        | 1.323       | 0.0                | 0              | 0.000              |

### Links

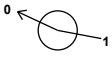
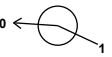
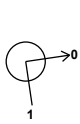
| Name  | US Node | DS Node | Length (m) | ks (mm) / n | US IL (m) | DS IL (m) | Fall (m) | Slope (1:X) | Dia (mm) | T of C (mins) | Rain (mm/hr) |
|-------|---------|---------|------------|-------------|-----------|-----------|----------|-------------|----------|---------------|--------------|
| 1.010 | 22      | 23      | 28.741     | 0.600       | 94.450    | 90.945    | 3.505    | 8.2         | 225      | 7.86          | 0.0          |
| 1.011 | 23      | 24      | 7.894      | 0.600       | 90.945    | 90.894    | 0.051    | 154.8       | 225      | 7.99          | 0.0          |
| 5.11  | 22c     | 22b     | 47.903     | 0.600       | 94.125    | 91.725    | 2.400    | 20.0        | 225      | 5.27          | 0.0          |
| 5.12  | 22b     | 22a     | 47.878     | 0.600       | 91.725    | 91.140    | 0.585    | 81.8        | 225      | 5.82          | 0.0          |
| 5.13  | 22a     | 23      | 4.252      | 0.600       | 91.140    | 90.945    | 0.195    | 21.8        | 225      | 5.85          | 0.0          |

| Name  | Vel (m/s) | Cap (l/s) | Flow (l/s) | US Depth (m) | DS Depth (m) | Σ Area (ha) | Σ Add Inflow (l/s) | Pro Depth (mm) | Pro Velocity (m/s) |
|-------|-----------|-----------|------------|--------------|--------------|-------------|--------------------|----------------|--------------------|
| 1.010 | 4.597     | 182.8     | 0.0        | 1.825        | 1.350        | 1.323       | 0.0                | 0              | 0.000              |
| 1.011 | 1.048     | 41.7      | 0.0        | 1.350        | 1.350        | 1.440       | 0.0                | 0              | 0.000              |
| 5.11  | 2.942     | 117.0     | 0.0        | 1.250        | 1.250        | 0.075       | 0.0                | 0              | 0.000              |
| 5.12  | 1.446     | 57.5      | 0.0        | 1.250        | 1.055        | 0.098       | 0.0                | 0              | 0.000              |
| 5.13  | 2.814     | 111.9     | 0.0        | 1.055        | 1.350        | 0.117       | 0.0                | 0              | 0.000              |

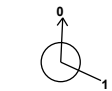
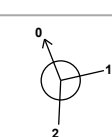
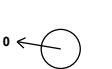
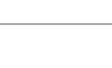
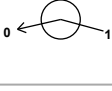
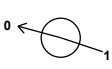
### Manhole Schedule

| Node | Easting (m) | Northing (m) | CL (m)  | Depth (m) | Dia (mm) | Connections                                                                          | Link | IL (m) | Dia (mm) |     |
|------|-------------|--------------|---------|-----------|----------|--------------------------------------------------------------------------------------|------|--------|----------|-----|
| 1    | 447836.105  | 298006.451   | 101.510 | 1.793     | 1200     |   | 1    | 1.030  | 99.717   | 225 |
|      |             |              |         |           |          |                                                                                      | 0    | 1.000  | 99.717   | 225 |
| 2    | 447841.544  | 298036.814   | 100.770 | 1.438     | 1200     |  | 1    | 1.000  | 99.332   | 225 |
|      |             |              |         |           |          |                                                                                      | 0    | 1.001  | 99.332   | 225 |
| 3    | 447840.311  | 298067.254   | 100.030 | 1.505     | 1200     |  | 1    | 1.001  | 98.600   | 225 |
|      |             |              |         |           |          |                                                                                      | 0    | 1.002  | 98.525   | 300 |
| 4    | 447838.018  | 298102.555   | 99.180  | 1.505     | 1200     |  | 1    | 1.002  | 97.675   | 300 |
|      |             |              |         |           |          |                                                                                      | 0    | 1.003  | 97.675   | 300 |
| 5    | 447768.594  | 298109.535   | 100.330 | 1.428     | 1200     |  |      |        |          |     |
|      |             |              |         |           |          |                                                                                      | 0    | 2.000  | 98.902   | 225 |
| 6    | 447821.484  | 298105.361   | 99.270  | 1.432     | 1200     |  | 1    | 2.000  | 97.838   | 225 |
|      |             |              |         |           |          |                                                                                      | 0    | 2.001  | 97.838   | 225 |
| 7    | 447832.719  | 298110.966   | 99.010  | 1.520     | 1200     |  | 1    | 2.001  | 97.565   | 225 |
|      |             |              |         |           |          |                                                                                      | 2    | 1.003  | 97.490   | 300 |
|      |             |              |         |           |          |                                                                                      | 0    | 1.004  | 97.490   | 300 |
| 8    | 447837.557  | 298123.434   | 98.620  | 1.575     | 1200     |  | 1    | 1.004  | 97.045   | 300 |
|      |             |              |         |           |          |                                                                                      | 0    | 1.005  | 97.045   | 300 |

**Manhole Schedule**

| Node | Easting (m) | Northing (m) | CL (m)  | Depth (m) | Dia (mm) | Connections                                                                            | Link  | IL (m)  | Dia (mm) |
|------|-------------|--------------|---------|-----------|----------|----------------------------------------------------------------------------------------|-------|---------|----------|
| 9    | 447836.398  | 298140.474   | 97.835  | 1.567     | 1200     |  1   | 1.005 | 96.268  | 300      |
| 10   | 447840.683  | 298163.292   | 96.675  | 1.537     | 1350     | 0                                                                                      | 1.006 | 96.268  | 300      |
|      |             |              |         |           |          |  1   | 1.006 | 95.213  | 300      |
| 11A  | 447816.535  | 298167.827   | 97.400  | 2.422     | 1350     | 0                                                                                      | 4.001 | 95.138  | 375      |
|      |             |              |         |           |          |  1   | 4.001 | 94.978  | 375      |
| 11   | 447789.314  | 298180.519   | 96.500  | 1.878     | 1350     | 0                                                                                      | 4.002 | 94.978  | 375      |
|      |             |              |         |           |          |  1   | 4.002 | 94.622  | 375      |
| 12   | 447744.479  | 297997.866   | 103.050 | 1.725     | 1200     | 0                                                                                      | 1.008 | 94.622  | 450      |
|      |             |              |         |           |          |  0   | 3.000 | 101.325 | 225      |
| 13   | 447741.087  | 298021.153   | 102.575 | 1.775     | 1200     | 1                                                                                      | 5.002 | 100.800 | 225      |
|      |             |              |         |           |          |  2 | 3.000 | 100.800 | 225      |
| 14   | 447731.779  | 298085.047   | 101.290 | 1.971     | 1200     | 0                                                                                      | 3.001 | 100.800 | 225      |
|      |             |              |         |           |          |  1 | 3.001 | 99.319  | 225      |
| 15   | 447732.570  | 298094.033   | 101.120 | 2.395     | 1200     | 0                                                                                      | 3.002 | 99.319  | 225      |
|      |             |              |         |           |          |  1 | 3.002 | 98.800  | 225      |
| 16   | 447739.575  | 298105.961   | 100.870 | 2.203     | 1200     | 0                                                                                      | 3.003 | 98.725  | 225      |
|      |             |              |         |           |          |  1 | 3.003 | 98.667  | 225      |
| 17   | 447731.722  | 298123.693   | 100.095 | 1.945     | 1200     | 0                                                                                      | 3.004 | 98.667  | 225      |
|      |             |              |         |           |          |  1 | 3.004 | 98.150  | 225      |
| 18   | 447726.082  | 298162.064   | 98.210  | 1.987     | 1200     | 0                                                                                      | 3.005 | 98.150  | 300      |
|      |             |              |         |           |          |  1 | 3.005 | 96.223  | 300      |
| 19   | 447740.670  | 298164.205   | 98.055  | 2.015     | 1200     | 0                                                                                      | 3.006 | 96.223  | 300      |
|      |             |              |         |           |          |  1 | 3.006 | 96.040  | 300      |
| 20   | 447742.990  | 298178.673   | 96.500  | 1.900     | 1500     | 0                                                                                      | 3.007 | 96.040  | 300      |
|      |             |              |         |           |          |  1 | 3.007 | 94.600  | 300      |
|      |             |              |         |           |          | 0                                                                                      | 3.008 | 94.600  | 600      |

**Manhole Schedule**

| Node | Easting<br>(m) | Northing<br>(m) | CL<br>(m) | Depth<br>(m) | Dia<br>(mm) | Connections                                                                                     | Link                                                           | IL<br>(m) | Dia<br>(mm) |
|------|----------------|-----------------|-----------|--------------|-------------|-------------------------------------------------------------------------------------------------|----------------------------------------------------------------|-----------|-------------|
| 21   | 447737.224     | 298183.924      | 96.500    | 2.000        |             | <div></div>   | 1 3.008 94.500 600<br>2 1.008 94.500 450<br>0 1.009 94.500 450 |           |             |
| 22   | 447730.742     | 298186.896      | 96.500    | 2.050        | 3000        | <div></div>   | 1 1.009 94.450 450<br>0 1.010 94.450 225                       |           |             |
| 23   | 447732.063     | 298215.607      | 92.520    | 1.575        | 1200        | <div></div>   | 1 5.13 90.945 225<br>2 1.010 90.945 225<br>0 1.011 90.945 225  |           |             |
| 24   | 447729.186     | 298222.958      | 92.469    | 1.575        | 1200        | <div></div>   | 1 1.011 90.894 225                                             |           |             |
| CP1  | 447755.022     | 298018.824      | 102.500   | 1.450        | 1200        | <div></div>   | 0 5.002 101.050 225                                            |           |             |
| S1A  | 447827.784     | 298007.966      | 101.400   | 1.450        | 1200        | <div></div>  | 0 1.030 99.950 225                                             |           |             |
| 22a  | 447736.209     | 298216.551      | 92.420    | 1.280        | 1350        | <div></div> | 1 5.12 91.140 225<br>0 5.13 91.140 225                         |           |             |
| 22b  | 447782.426     | 298204.048      | 93.200    | 1.475        | 1350        | <div></div> | 1 5.11 91.725 225<br>0 5.12 91.725 225                         |           |             |
| 22c  | 447827.874     | 298188.909      | 95.600    | 1.475        | 1350        | <div></div> | 0 5.11 94.125 225                                              |           |             |

**Node 22 Depth/Area Storage Structure**

|                             |         |               |      |                           |        |
|-----------------------------|---------|---------------|------|---------------------------|--------|
| Base Inf Coefficient (m/hr) | 0.01152 | Safety Factor | 2.0  | Invert Level (m)          | 94.500 |
| Side Inf Coefficient (m/hr) | 0.00000 | Porosity      | 1.00 | Time to half empty (mins) |        |

| Depth<br>(m) | Area<br>(m <sup>2</sup> ) | Inf Area<br>(m <sup>2</sup> ) | Depth<br>(m) | Area<br>(m <sup>2</sup> ) | Inf Area<br>(m <sup>2</sup> ) |
|--------------|---------------------------|-------------------------------|--------------|---------------------------|-------------------------------|
| 0.000        | 127.2                     | 140.0                         | 2.000        | 927.3                     | 942.0                         |

**Results for 1 year +5% A Critical Storm Duration. Lowest mass balance: 98.82%**

| Node Event        | US Node | Peak (mins) | Level (m) | Depth (m) | Inflow (l/s) | Node Vol (m³) | Flood (m³) | Status     |
|-------------------|---------|-------------|-----------|-----------|--------------|---------------|------------|------------|
| 15 minute winter  | 1       | 10          | 99.778    | 0.061     | 9.7          | 0.0831        | 0.0000     | OK         |
| 15 minute winter  | 2       | 11          | 99.406    | 0.074     | 18.5         | 0.1487        | 0.0000     | OK         |
| 15 minute winter  | 3       | 10          | 98.630    | 0.105     | 46.8         | 0.4064        | 0.0000     | OK         |
| 15 minute winter  | 4       | 11          | 97.810    | 0.135     | 51.2         | 0.2169        | 0.0000     | OK         |
| 15 minute winter  | 5       | 10          | 98.944    | 0.042     | 5.8          | 0.0714        | 0.0000     | OK         |
| 15 minute winter  | 6       | 10          | 97.916    | 0.078     | 18.0         | 0.1834        | 0.0000     | OK         |
| 15 minute winter  | 7       | 11          | 97.630    | 0.140     | 73.9         | 0.2313        | 0.0000     | OK         |
| 15 minute winter  | 8       | 11          | 97.169    | 0.124     | 77.7         | 0.1819        | 0.0000     | OK         |
| 15 minute winter  | 9       | 11          | 96.409    | 0.141     | 101.2        | 0.4757        | 0.0000     | OK         |
| 15 minute winter  | 10      | 11          | 95.385    | 0.247     | 112.6        | 0.6164        | 0.0000     | OK         |
| 15 minute winter  | 11A     | 11          | 95.187    | 0.209     | 113.3        | 0.2988        | 0.0000     | OK         |
| 120 minute winter | 11      | 100         | 94.952    | 0.330     | 38.0         | 0.4716        | 0.0000     | OK         |
| 15 minute winter  | 12      | 10          | 101.367   | 0.042     | 5.9          | 0.0672        | 0.0000     | OK         |
| 15 minute winter  | 13      | 11          | 100.883   | 0.083     | 23.6         | 0.1387        | 0.0000     | OK         |
| 15 minute winter  | 14      | 10          | 99.416    | 0.097     | 44.0         | 0.2563        | 0.0000     | OK         |
| 15 minute winter  | 15      | 11          | 98.937    | 0.212     | 43.4         | 0.2403        | 0.0000     | OK         |
| 15 minute winter  | 16      | 11          | 98.798    | 0.131     | 45.3         | 0.1617        | 0.0000     | OK         |
| 15 minute winter  | 17      | 11          | 98.238    | 0.088     | 47.6         | 0.1152        | 0.0000     | OK         |
| 15 minute winter  | 18      | 11          | 96.389    | 0.166     | 60.1         | 0.3429        | 0.0000     | OK         |
| 15 minute winter  | 19      | 11          | 96.133    | 0.093     | 73.5         | 0.1983        | 0.0000     | OK         |
| 120 minute winter | 20      | 94          | 94.955    | 0.355     | 62.4         | 0.7048        | 0.0000     | OK         |
| 120 minute winter | 21      | 96          | 94.955    | 0.455     | 106.2        | 0.0000        | 0.0000     | SURCHARGED |
| 120 minute winter | 22      | 100         | 94.951    | 0.501     | 83.0         | 101.7946      | 0.0000     | SURCHARGED |
| 15 minute winter  | 23      | 12          | 91.098    | 0.153     | 28.8         | 0.1734        | 0.0000     | OK         |

| Link Event (Upstream Depth) | US Node | Link         | DS Node | Outflow (l/s) | Velocity (m/s) | Flow/Cap | Link Vol (m³) | Discharge Vol (m³) |
|-----------------------------|---------|--------------|---------|---------------|----------------|----------|---------------|--------------------|
| 15 minute winter            | 1       | 1.000        | 2       | 9.6           | 0.955          | 0.165    | 0.3096        |                    |
| 15 minute winter            | 2       | 1.001        | 3       | 18.1          | 1.624          | 0.224    | 0.3401        |                    |
| 15 minute winter            | 3       | 1.002        | 4       | 46.2          | 1.759          | 0.268    | 0.9315        |                    |
| 15 minute winter            | 4       | 1.003        | 7       | 51.0          | 1.622          | 0.336    | 0.3127        |                    |
| 15 minute winter            | 5       | 2.000        | 6       | 5.6           | 0.667          | 0.076    | 0.4564        |                    |
| 15 minute winter            | 6       | 2.001        | 7       | 17.6          | 1.514          | 0.229    | 0.1458        |                    |
| 15 minute winter            | 7       | 1.004        | 8       | 74.2          | 2.487          | 0.365    | 0.3990        |                    |
| 15 minute winter            | 8       | 1.005        | 9       | 77.9          | 2.593          | 0.327    | 0.5134        |                    |
| 15 minute winter            | 9       | 1.006        | 10      | 101.7         | 2.738          | 0.428    | 0.8626        |                    |
| 15 minute winter            | 10      | 4.001        | 11A     | 113.3         | 1.617          | 0.703    | 1.7193        |                    |
| 15 minute winter            | 11A     | 4.002        | 11      | 113.3         | 1.472          | 0.520    | 2.2964        |                    |
| 120 minute winter           | 11      | 1.008        | 21      | 38.0          | 0.586          | 0.245    | 7.3804        |                    |
| 15 minute winter            | 12      | 3.000        | 13      | 5.8           | 0.656          | 0.075    | 0.2145        |                    |
| 15 minute winter            | 13      | 3.001        | 14      | 23.1          | 1.572          | 0.292    | 0.9543        |                    |
| 15 minute winter            | 14      | 3.002        | 15      | 43.4          | 2.351          | 0.346    | 0.1874        |                    |
| 15 minute winter            | 15      | 3.003        | 16      | 43.8          | 1.347          | 1.308    | 0.4344        |                    |
| 15 minute winter            | 16      | 3.004        | 17      | 45.4          | 2.370          | 0.534    | 0.3722        |                    |
| 15 minute winter            | 17      | 3.005        | 18      | 47.7          | 1.682          | 0.192    | 1.1081        |                    |
| 15 minute winter            | 18      | 3.006        | 19      | 60.0          | 2.073          | 0.485    | 0.4298        |                    |
| 15 minute winter            | 19      | 3.007        | 20      | 73.6          | 2.646          | 0.210    | 0.4740        |                    |
| 120 minute winter           | 20      | 3.008        | 21      | 68.2          | 0.756          | 0.087    | 1.5594        |                    |
| 120 minute winter           | 21      | 1.009        | 22      | 83.0          | 0.774          | 0.307    | 1.1298        |                    |
| 120 minute winter           | 22      | 1.010        | 23      | 14.0          | 1.340          | 0.077    | 0.3718        |                    |
| 120 minute winter           | 22      | Infiltration |         | 0.2           |                |          |               |                    |
| 15 minute winter            | 23      | 1.011        | 24      | 29.0          | 1.073          | 0.696    | 0.2132        | 96.2               |

**Results for 1 year +5% A Critical Storm Duration. Lowest mass balance: 98.82%**

| Node Event       | US Node | Peak (mins) | Level (m) | Depth (m) | Inflow (l/s) | Node Vol (m³) | Flood (m³) | Status |
|------------------|---------|-------------|-----------|-----------|--------------|---------------|------------|--------|
| 15 minute winter | 24      | 12          | 91.031    | 0.137     | 29.0         | 0.0000        | 0.0000     | OK     |
| 15 minute winter | CP1     | 10          | 101.111   | 0.061     | 11.1         | 0.1348        | 0.0000     | OK     |
| 15 minute winter | S1A     | 10          | 99.993    | 0.043     | 7.0          | 0.0779        | 0.0000     | OK     |
| 15 minute winter | 22a     | 11          | 91.206    | 0.066     | 16.8         | 0.1154        | 0.0000     | OK     |
| 15 minute winter | 22b     | 11          | 91.804    | 0.079     | 14.3         | 0.1384        | 0.0000     | OK     |
| 15 minute winter | 22c     | 10          | 94.171    | 0.046     | 11.1         | 0.1159        | 0.0000     | OK     |

| Link Event (Upstream Depth) | US Node | Link  | DS Node | Outflow (l/s) | Velocity (m/s) | Flow/Cap | Link Vol (m³) | Discharge Vol (m³) |
|-----------------------------|---------|-------|---------|---------------|----------------|----------|---------------|--------------------|
| 15 minute winter            | CP1     | 5.002 | 13      | 11.0          | 1.011          | 0.159    | 0.1543        |                    |
| 15 minute winter            | S1A     | 1.030 | 1       | 6.9           | 0.998          | 0.080    | 0.0594        |                    |
| 15 minute winter            | 22a     | 5.13  | 23      | 16.8          | 1.008          | 0.150    | 0.0797        |                    |
| 15 minute winter            | 22b     | 5.12  | 22a     | 14.2          | 1.286          | 0.246    | 0.5286        |                    |
| 15 minute winter            | 22c     | 5.11  | 22b     | 10.9          | 1.225          | 0.094    | 0.4343        |                    |

**Results for 30 year +5% A Critical Storm Duration. Lowest mass balance: 98.82%**

| Node Event        | US Node | Peak (mins) | Level (m) | Depth (m) | Inflow (l/s) | Node Vol (m³) | Flood (m³) | Status     |
|-------------------|---------|-------------|-----------|-----------|--------------|---------------|------------|------------|
| 15 minute winter  | 1       | 10          | 99.818    | 0.101     | 23.9         | 0.1362        | 0.0000     | OK         |
| 15 minute winter  | 2       | 10          | 99.457    | 0.125     | 45.4         | 0.2505        | 0.0000     | OK         |
| 15 minute winter  | 3       | 11          | 98.720    | 0.195     | 115.5        | 0.7557        | 0.0000     | OK         |
| 15 minute winter  | 4       | 12          | 98.299    | 0.624     | 127.0        | 1.0017        | 0.0000     | SURCHARGED |
| 15 minute winter  | 5       | 10          | 98.968    | 0.066     | 14.2         | 0.1123        | 0.0000     | OK         |
| 15 minute winter  | 6       | 12          | 98.207    | 0.369     | 44.4         | 0.8729        | 0.0000     | SURCHARGED |
| 15 minute winter  | 7       | 12          | 98.142    | 0.652     | 160.6        | 1.0796        | 0.0000     | SURCHARGED |
| 15 minute winter  | 8       | 12          | 97.775    | 0.730     | 165.4        | 1.0686        | 0.0000     | SURCHARGED |
| 15 minute winter  | 9       | 12          | 97.298    | 1.030     | 219.7        | 3.4713        | 0.0000     | SURCHARGED |
| 15 minute winter  | 10      | 12          | 96.281    | 1.143     | 228.2        | 2.8550        | 0.0000     | SURCHARGED |
| 15 minute winter  | 11A     | 13          | 95.877    | 0.899     | 223.8        | 1.2861        | 0.0000     | SURCHARGED |
| 180 minute winter | 11      | 176         | 95.499    | 0.877     | 63.1         | 1.2548        | 0.0000     | SURCHARGED |
| 15 minute winter  | 12      | 10          | 101.390   | 0.065     | 14.5         | 0.1055        | 0.0000     | OK         |
| 15 minute winter  | 13      | 11          | 100.948   | 0.148     | 58.0         | 0.2484        | 0.0000     | OK         |
| 15 minute winter  | 14      | 12          | 100.136   | 0.817     | 107.4        | 2.1594        | 0.0000     | SURCHARGED |
| 15 minute winter  | 15      | 12          | 99.724    | 0.999     | 89.9         | 1.1294        | 0.0000     | SURCHARGED |
| 15 minute winter  | 16      | 12          | 99.167    | 0.500     | 92.4         | 0.6177        | 0.0000     | SURCHARGED |
| 15 minute winter  | 17      | 12          | 98.278    | 0.128     | 95.9         | 0.1670        | 0.0000     | OK         |
| 15 minute winter  | 18      | 11          | 96.500    | 0.277     | 123.1        | 0.5730        | 0.0000     | OK         |
| 15 minute winter  | 19      | 11          | 96.183    | 0.143     | 154.9        | 0.3059        | 0.0000     | OK         |
| 180 minute winter | 20      | 180         | 95.499    | 0.899     | 44.9         | 1.7869        | 0.0000     | SURCHARGED |
| 180 minute winter | 21      | 180         | 95.499    | 0.999     | 125.7        | 0.0000        | 0.0000     | SURCHARGED |
| 180 minute winter | 22      | 180         | 95.499    | 1.049     | 106.1        | 334.0739      | 0.0000     | SURCHARGED |
| 15 minute winter  | 23      | 11          | 91.227    | 0.282     | 54.5         | 0.3193        | 0.0000     | SURCHARGED |

| Link Event<br>(Upstream Depth) | US Node | Link         | DS Node | Outflow (l/s) | Velocity (m/s) | Flow/Cap | Link Vol (m³) | Discharge Vol (m³) |
|--------------------------------|---------|--------------|---------|---------------|----------------|----------|---------------|--------------------|
| 15 minute winter               | 1       | 1.000        | 2       | 23.6          | 1.186          | 0.406    | 0.6133        |                    |
| 15 minute winter               | 2       | 1.001        | 3       | 44.5          | 2.028          | 0.550    | 0.6709        |                    |
| 15 minute winter               | 3       | 1.002        | 4       | 114.6         | 2.001          | 0.663    | 2.1052        |                    |
| 15 minute winter               | 4       | 1.003        | 7       | 116.4         | 1.794          | 0.766    | 0.7000        |                    |
| 15 minute winter               | 5       | 2.000        | 6       | 13.9          | 0.811          | 0.189    | 1.3060        |                    |
| 15 minute winter               | 6       | 2.001        | 7       | 47.5          | 1.563          | 0.618    | 0.4994        |                    |
| 15 minute winter               | 7       | 1.004        | 8       | 157.0         | 2.799          | 0.772    | 0.9418        |                    |
| 15 minute winter               | 8       | 1.005        | 9       | 162.6         | 2.777          | 0.683    | 1.2027        |                    |
| 15 minute winter               | 9       | 1.006        | 10      | 202.7         | 2.879          | 0.852    | 1.6349        |                    |
| 15 minute winter               | 10      | 4.001        | 11A     | 223.8         | 2.029          | 1.388    | 2.7100        |                    |
| 15 minute winter               | 11A     | 4.002        | 11      | 222.8         | 2.020          | 1.022    | 3.3127        |                    |
| 180 minute winter              | 11      | 1.008        | 21      | 62.3          | 0.555          | 0.401    | 8.2709        |                    |
| 15 minute winter               | 12      | 3.000        | 13      | 14.4          | 0.819          | 0.185    | 0.4354        |                    |
| 15 minute winter               | 13      | 3.001        | 14      | 55.8          | 1.638          | 0.706    | 2.1799        |                    |
| 15 minute winter               | 14      | 3.002        | 15      | 89.9          | 2.283          | 0.717    | 0.3588        |                    |
| 15 minute winter               | 15      | 3.003        | 16      | 89.3          | 2.246          | 2.668    | 0.5502        |                    |
| 15 minute winter               | 16      | 3.004        | 17      | 91.4          | 2.578          | 1.073    | 0.6117        |                    |
| 15 minute winter               | 17      | 3.005        | 18      | 95.8          | 2.004          | 0.385    | 1.8725        |                    |
| 15 minute winter               | 18      | 3.006        | 19      | 122.1         | 2.364          | 0.986    | 0.7443        |                    |
| 15 minute winter               | 19      | 3.007        | 20      | 154.5         | 2.862          | 0.441    | 0.7581        |                    |
| 180 minute winter              | 20      | 3.008        | 21      | 81.9          | 0.680          | 0.105    | 2.1968        |                    |
| 180 minute winter              | 21      | 1.009        | 22      | 106.1         | 0.918          | 0.392    | 1.1299        |                    |
| 180 minute winter              | 22      | 1.010        | 23      | 14.0          | 1.341          | 0.077    | 0.4242        |                    |
| 180 minute winter              | 22      | Infiltration |         | 0.2           |                |          |               |                    |
| 15 minute winter               | 23      | 1.011        | 24      | 54.1          | 1.368          | 1.298    | 0.2996        | 218.9              |

**Results for 30 year +5% A Critical Storm Duration. Lowest mass balance: 98.82%**

| Node Event       | US Node | Peak (mins) | Level (m) | Depth (m) | Inflow (l/s) | Node Vol (m³) | Flood (m³) | Status |
|------------------|---------|-------------|-----------|-----------|--------------|---------------|------------|--------|
| 15 minute winter | 24      | 11          | 91.086    | 0.192     | 54.1         | 0.0000        | 0.0000     | OK     |
| 15 minute winter | CP1     | 10          | 101.153   | 0.103     | 27.2         | 0.2287        | 0.0000     | OK     |
| 15 minute winter | S1A     | 10          | 100.021   | 0.071     | 17.1         | 0.1278        | 0.0000     | OK     |
| 15 minute winter | 22a     | 11          | 91.274    | 0.134     | 41.5         | 0.2331        | 0.0000     | OK     |
| 15 minute winter | 22b     | 10          | 91.855    | 0.130     | 35.3         | 0.2282        | 0.0000     | OK     |
| 15 minute winter | 22c     | 10          | 94.198    | 0.073     | 27.2         | 0.1827        | 0.0000     | OK     |

| Link Event (Upstream Depth) | US Node | Link  | DS Node | Outflow (l/s) | Velocity (m/s) | Flow/Cap | Link Vol (m³) | Discharge Vol (m³) |
|-----------------------------|---------|-------|---------|---------------|----------------|----------|---------------|--------------------|
| 15 minute winter            | CP1     | 5.002 | 13      | 26.9          | 1.228          | 0.389    | 0.3160        |                    |
| 15 minute winter            | S1A     | 1.030 | 1       | 17.0          | 1.228          | 0.196    | 0.1175        |                    |
| 15 minute winter            | 22a     | 5.13  | 23      | 40.7          | 1.134          | 0.364    | 0.1368        |                    |
| 15 minute winter            | 22b     | 5.12  | 22a     | 35.0          | 1.511          | 0.608    | 1.1493        |                    |
| 15 minute winter            | 22c     | 5.11  | 22b     | 26.9          | 1.556          | 0.230    | 0.8351        |                    |

**Results for 100 year +40% CC +5% A Critical Storm Duration. Lowest mass balance: 98.82%**

| Node Event        | US Node | Peak (mins) | Level (m) | Depth (m) | Inflow (l/s) | Node Vol (m³) | Flood (m³) | Status     |
|-------------------|---------|-------------|-----------|-----------|--------------|---------------|------------|------------|
| 15 minute winter  | 1       | 12          | 100.726   | 1.009     | 40.5         | 1.3657        | 0.0000     | SURCHARGED |
| 15 minute winter  | 2       | 12          | 100.575   | 1.243     | 78.0         | 2.4944        | 0.0000     | FLOOD RISK |
| 15 minute winter  | 3       | 11          | 100.030   | 1.505     | 178.4        | 5.8183        | 1.8728     | FLOOD      |
| 15 minute winter  | 4       | 10          | 99.180    | 1.505     | 176.8        | 2.4155        | 14.8547    | FLOOD      |
| 15 minute winter  | 5       | 11          | 99.455    | 0.553     | 25.9         | 0.9422        | 0.0000     | SURCHARGED |
| 15 minute winter  | 6       | 11          | 99.270    | 1.432     | 80.8         | 3.3838        | 1.1042     | FLOOD      |
| 15 minute winter  | 7       | 10          | 99.010    | 1.520     | 198.9        | 2.5171        | 4.0643     | FLOOD      |
| 15 minute winter  | 8       | 10          | 98.528    | 1.483     | 187.7        | 2.1707        | 0.0000     | FLOOD RISK |
| 15 minute winter  | 9       | 10          | 97.835    | 1.567     | 298.3        | 5.2792        | 15.2243    | FLOOD      |
| 30 minute winter  | 10      | 17          | 96.675    | 1.537     | 256.3        | 3.8379        | 11.5097    | FLOOD      |
| 60 minute winter  | 11A     | 42          | 96.367    | 1.389     | 220.3        | 1.9882        | 0.0000     | SURCHARGED |
| 240 minute winter | 11      | 256         | 96.102    | 1.480     | 95.2         | 2.1184        | 0.0000     | SURCHARGED |
| 15 minute winter  | 12      | 12          | 102.520   | 1.195     | 26.4         | 1.9337        | 0.0000     | SURCHARGED |
| 15 minute winter  | 13      | 12          | 102.468   | 1.668     | 80.4         | 2.7947        | 0.0000     | FLOOD RISK |
| 15 minute winter  | 14      | 11          | 101.290   | 1.971     | 151.6        | 5.2113        | 4.1076     | FLOOD      |
| 15 minute winter  | 15      | 12          | 100.630   | 1.905     | 120.5        | 2.1545        | 0.0000     | SURCHARGED |
| 15 minute winter  | 16      | 12          | 99.728    | 1.061     | 120.6        | 1.3113        | 0.0000     | SURCHARGED |
| 15 minute winter  | 17      | 11          | 98.302    | 0.152     | 129.4        | 0.1982        | 0.0000     | OK         |
| 15 minute winter  | 18      | 11          | 96.891    | 0.668     | 184.6        | 1.3838        | 0.0000     | SURCHARGED |
| 15 minute winter  | 19      | 11          | 96.286    | 0.246     | 242.7        | 0.5277        | 0.0000     | OK         |
| 240 minute winter | 20      | 240         | 96.101    | 1.501     | 66.2         | 2.9847        | 0.0000     | SURCHARGED |
| 360 minute winter | 21      | 352         | 96.102    | 1.602     | 117.1        | 0.0000        | 0.0000     | SURCHARGED |
| 240 minute winter | 22      | 240         | 96.101    | 1.651     | 159.8        | 728.2621      | 0.0000     | SURCHARGED |
| 15 minute winter  | 23      | 12          | 91.407    | 0.462     | 80.2         | 0.5227        | 0.0000     | SURCHARGED |

| Link Event (Upstream Depth) | US Node | Link         | DS Node | Outflow (l/s) | Velocity (m/s) | Flow/Cap | Link Vol (m³) | Discharge Vol (m³) |
|-----------------------------|---------|--------------|---------|---------------|----------------|----------|---------------|--------------------|
| 15 minute winter            | 1       | 1.000        | 2       | 40.7          | 1.246          | 0.700    | 1.2268        |                    |
| 15 minute winter            | 2       | 1.001        | 3       | 63.6          | 1.959          | 0.787    | 1.2116        |                    |
| 15 minute winter            | 3       | 1.002        | 4       | 155.8         | 2.212          | 0.902    | 2.4911        |                    |
| 15 minute winter            | 4       | 1.003        | 7       | 126.3         | 1.794          | 0.832    | 0.7000        |                    |
| 15 minute winter            | 5       | 2.000        | 6       | 28.7          | 0.821          | 0.388    | 2.1100        |                    |
| 15 minute winter            | 6       | 2.001        | 7       | 63.3          | 1.593          | 0.824    | 0.4994        |                    |
| 15 minute winter            | 7       | 1.004        | 8       | 175.2         | 2.783          | 0.861    | 0.9418        |                    |
| 15 minute winter            | 8       | 1.005        | 9       | 188.1         | 2.699          | 0.790    | 1.2027        |                    |
| 15 minute winter            | 9       | 1.006        | 10      | 221.2         | 3.141          | 0.930    | 1.6349        |                    |
| 30 minute winter            | 10      | 4.001        | 11A     | 239.3         | 2.170          | 1.485    | 2.7100        |                    |
| 60 minute winter            | 11A     | 4.002        | 11      | 218.4         | 1.980          | 1.002    | 3.3127        |                    |
| 240 minute winter           | 11      | 1.008        | 21      | 94.8          | 0.598          | 0.610    | 8.2709        |                    |
| 15 minute winter            | 12      | 3.000        | 13      | 23.8          | 0.851          | 0.306    | 0.9359        |                    |
| 15 minute winter            | 13      | 3.001        | 14      | 66.6          | 1.676          | 0.844    | 2.5679        |                    |
| 15 minute winter            | 14      | 3.002        | 15      | 120.5         | 3.029          | 0.961    | 0.3588        |                    |
| 15 minute winter            | 15      | 3.003        | 16      | 114.2         | 2.872          | 3.411    | 0.5502        |                    |
| 15 minute winter            | 16      | 3.004        | 17      | 119.7         | 3.213          | 1.405    | 0.6624        |                    |
| 15 minute winter            | 17      | 3.005        | 18      | 129.3         | 2.132          | 0.520    | 2.0602        |                    |
| 15 minute winter            | 18      | 3.006        | 19      | 182.4         | 2.624          | 1.472    | 0.9755        |                    |
| 15 minute winter            | 19      | 3.007        | 20      | 241.5         | 3.475          | 0.689    | 0.9695        |                    |
| 240 minute winter           | 20      | 3.008        | 21      | 65.3          | 0.653          | 0.084    | 2.1968        |                    |
| 360 minute winter           | 21      | 1.009        | 22      | 116.9         | 0.778          | 0.432    | 1.1299        |                    |
| 240 minute winter           | 22      | 1.010        | 23      | 14.0          | 1.332          | 0.077    | 0.4512        |                    |
| 240 minute winter           | 22      | Infiltration |         | 0.2           |                |          |               |                    |
| 15 minute winter            | 23      | 1.011        | 24      | 80.5          | 2.024          | 1.931    | 0.3108        | 233.4              |

**Results for 100 year +40% CC +5% A Critical Storm Duration. Lowest mass balance: 98.82%**

| Node Event       | US Node | Peak (mins) | Level (m) | Depth (m) | Inflow (l/s) | Node Vol (m³) | Flood (m³) | Status     |
|------------------|---------|-------------|-----------|-----------|--------------|---------------|------------|------------|
| 15 minute summer | 24      | 12          | 91.107    | 0.213     | 77.8         | 0.0000        | 0.0000     | OK         |
| 15 minute winter | CP1     | 12          | 102.500   | 1.450     | 49.5         | 3.2147        | 1.2298     | FLOOD      |
| 15 minute winter | S1A     | 12          | 100.753   | 0.803     | 32.5         | 1.4542        | 0.0000     | SURCHARGED |
| 15 minute winter | 22a     | 12          | 91.550    | 0.410     | 67.2         | 0.7143        | 0.0000     | SURCHARGED |
| 15 minute winter | 22b     | 12          | 92.178    | 0.453     | 64.3         | 0.7968        | 0.0000     | SURCHARGED |
| 15 minute winter | 22c     | 10          | 94.226    | 0.101     | 49.5         | 0.2529        | 0.0000     | OK         |

| Link Event (Upstream Depth) | US Node | Link  | DS Node | Outflow (l/s) | Velocity (m/s) | Flow/Cap | Link Vol (m³) | Discharge Vol (m³) |
|-----------------------------|---------|-------|---------|---------------|----------------|----------|---------------|--------------------|
| 15 minute winter            | CP1     | 5.002 | 13      | 36.9          | 1.268          | 0.532    | 0.5619        |                    |
| 15 minute winter            | S1A     | 1.030 | 1       | 28.7          | 1.364          | 0.331    | 0.3364        |                    |
| 15 minute winter            | 22a     | 5.13  | 23      | 66.2          | 1.666          | 0.592    | 0.1691        |                    |
| 15 minute winter            | 22b     | 5.12  | 22a     | 55.9          | 1.514          | 0.973    | 1.9042        |                    |
| 15 minute winter            | 22c     | 5.11  | 22b     | 49.1          | 1.765          | 0.420    | 1.3669        |                    |