

### Simulation Settings

|                      |          |                            |        |                         |   |
|----------------------|----------|----------------------------|--------|-------------------------|---|
| Rainfall Methodology | FEH-22   | Analysis Speed             | Normal | Starting Level (m)      |   |
| Rainfall Events      | Singular | Skip Steady State          | ✓      | Check Discharge Rate(s) | x |
| Summer CV            | 0.750    | Drain Down Time (mins)     | 400    | Check Discharge Volume  | x |
| Winter CV            | 0.840    | Additional Storage (m³/ha) | 20.0   |                         |   |

### Storm Durations

15 | 30 | 60 | 120 | 180 | 240 | 360 | 480 | 600 | 720 | 960 | 1440

| Return Period<br>(years) | Climate Change<br>(CC %) | Additional Area<br>(A %) | Additional Flow<br>(Q %) |
|--------------------------|--------------------------|--------------------------|--------------------------|
| 1                        | 0                        | 0                        | 0                        |
| 30                       | 0                        | 0                        | 0                        |
| 100                      | 50                       | 0                        | 0                        |

### Node Soak 1 Soakaway Storage Structure

|                             |         |                           |        |                 |       |
|-----------------------------|---------|---------------------------|--------|-----------------|-------|
| Base Inf Coefficient (m/hr) | 0.05000 | Invert Level (m)          | 64.329 | Depth (m)       | 0.400 |
| Side Inf Coefficient (m/hr) | 0.05000 | Time to half empty (mins) | 360    | Inf Depth (m)   |       |
| Safety Factor               | 2.0     | Pit Width (m)             | 2.000  | Number Required | 1     |
| Porosity                    | 0.96    | Pit Length (m)            | 5.000  |                 |       |

### Node Soak 2 Soakaway Storage Structure

|                             |         |                           |        |                 |       |
|-----------------------------|---------|---------------------------|--------|-----------------|-------|
| Base Inf Coefficient (m/hr) | 0.05000 | Invert Level (m)          | 64.114 | Depth (m)       | 0.400 |
| Side Inf Coefficient (m/hr) | 0.05000 | Time to half empty (mins) | 360    | Inf Depth (m)   |       |
| Safety Factor               | 2.0     | Pit Width (m)             | 2.000  | Number Required | 1     |
| Porosity                    | 0.96    | Pit Length (m)            | 5.000  |                 |       |

### Node Soak 3 Soakaway Storage Structure

|                             |         |                           |        |                 |       |
|-----------------------------|---------|---------------------------|--------|-----------------|-------|
| Base Inf Coefficient (m/hr) | 0.05000 | Invert Level (m)          | 63.867 | Depth (m)       | 0.400 |
| Side Inf Coefficient (m/hr) | 0.05000 | Time to half empty (mins) | 360    | Inf Depth (m)   |       |
| Safety Factor               | 2.0     | Pit Width (m)             | 2.000  | Number Required | 1     |
| Porosity                    | 0.96    | Pit Length (m)            | 5.000  |                 |       |

### Node Common Soakaway Soakaway Storage Structure

|                             |         |                           |        |                 |       |
|-----------------------------|---------|---------------------------|--------|-----------------|-------|
| Base Inf Coefficient (m/hr) | 0.05000 | Invert Level (m)          | 64.182 | Depth (m)       | 0.400 |
| Side Inf Coefficient (m/hr) | 0.05000 | Time to half empty (mins) | 403    | Inf Depth (m)   |       |
| Safety Factor               | 2.0     | Pit Width (m)             | 35.000 | Number Required | 1     |
| Porosity                    | 0.96    | Pit Length (m)            | 3.000  |                 |       |

### Node Perm 2 Soakaway Storage Structure

|                             |         |                           |        |                 |   |
|-----------------------------|---------|---------------------------|--------|-----------------|---|
| Base Inf Coefficient (m/hr) | 0.05000 | Invert Level (m)          | 64.037 | Depth (m)       |   |
| Side Inf Coefficient (m/hr) | 0.00000 | Time to half empty (mins) | 149    | Inf Depth (m)   |   |
| Safety Factor               | 2.0     | Pit Width (m)             | 10.000 | Number Required | 1 |
| Porosity                    | 0.30    | Pit Length (m)            | 10.000 |                 |   |

**Results for 1 year Critical Storm Duration. Lowest mass balance: 100.00%**

| Node Event       | US Node  | Peak (mins) | Level (m) | Depth (m) | Inflow (l/s) | Node Vol (m³) | Flood (m³) | Status |
|------------------|----------|-------------|-----------|-----------|--------------|---------------|------------|--------|
| 15 minute winter | DWP 61   | 10          | 65.009    | 0.026     | 0.9          | 0.0063        | 0.0000     | OK     |
| 15 minute winter | SWIC 61  | 10          | 64.958    | 0.026     | 0.9          | 0.0041        | 0.0000     | OK     |
| 15 minute summer | DWP 67   | 1           | 65.296    | 0.000     | 0.0          | 0.0000        | 0.0000     | OK     |
| 15 minute winter | J61      | 11          | 64.926    | 0.025     | 0.9          | 0.0000        | 0.0000     | OK     |
| 15 minute summer | DWP 66   | 1           | 65.063    | 0.000     | 0.0          | 0.0000        | 0.0000     | OK     |
| 15 minute winter | J62      | 11          | 64.871    | 0.026     | 0.9          | 0.0000        | 0.0000     | OK     |
| 15 minute winter | SWIC 62  | 11          | 64.835    | 0.025     | 0.9          | 0.0040        | 0.0000     | OK     |
| 15 minute winter | DWP 57   | 10          | 65.100    | 0.024     | 0.7          | 0.0047        | 0.0000     | OK     |
| 15 minute summer | DWP 51   | 1           | 65.058    | 0.000     | 0.0          | 0.0000        | 0.0000     | OK     |
| 15 minute winter | SWIC 53  | 10          | 65.045    | 0.012     | 0.7          | 0.0018        | 0.0000     | OK     |
| 15 minute summer | DWP 65   | 1           | 65.080    | 0.000     | 0.0          | 0.0000        | 0.0000     | OK     |
| 15 minute winter | SWIC 63  | 11          | 64.760    | 0.035     | 1.5          | 0.0055        | 0.0000     | OK     |
| 15 minute summer | DWP 64   | 1           | 65.103    | 0.000     | 0.0          | 0.0000        | 0.0000     | OK     |
| 15 minute winter | SWIC 64  | 11          | 64.611    | 0.034     | 1.5          | 0.0053        | 0.0000     | OK     |
| 15 minute summer | DWP 63   | 1           | 65.165    | 0.000     | 0.0          | 0.0000        | 0.0000     | OK     |
| 15 minute winter | DWP 62   | 11          | 64.985    | 0.024     | 0.7          | 0.0047        | 0.0000     | OK     |
| 15 minute winter | SWIC 65  | 11          | 64.949    | 0.016     | 0.7          | 0.0025        | 0.0000     | OK     |
| 15 minute winter | Common 6 | 12          | 64.526    | 0.041     | 2.2          | 0.0000        | 0.0000     | OK     |
| 15 minute winter | DWP 45   | 10          | 65.209    | 0.023     | 0.7          | 0.0043        | 0.0000     | OK     |
| 15 minute winter | SWIC 41  | 11          | 65.187    | 0.022     | 0.7          | 0.0035        | 0.0000     | OK     |
| 15 minute summer | DWP 46   | 1           | 65.134    | 0.000     | 0.0          | 0.0000        | 0.0000     | OK     |
| 15 minute summer | DWP 41   | 1           | 65.106    | 0.000     | 0.0          | 0.0000        | 0.0000     | OK     |
| 15 minute winter | SWIC 42  | 11          | 65.078    | 0.023     | 0.7          | 0.0037        | 0.0000     | OK     |
| 15 minute summer | DWP 56   | 1           | 65.096    | 0.000     | 0.0          | 0.0000        | 0.0000     | OK     |
| 15 minute winter | SWIC 51  | 11          | 65.047    | 0.023     | 0.7          | 0.0036        | 0.0000     | OK     |

  

| Link Event<br>(Upstream Depth) | US Node  | Link   | DS Node        | Outflow (l/s) | Velocity (m/s) | Flow/Cap | Link Vol (m³) |
|--------------------------------|----------|--------|----------------|---------------|----------------|----------|---------------|
| 15 minute winter               | DWP 61   | 1.000  | SWIC 61        | 0.9           | 0.539          | 0.143    | 0.0081        |
| 15 minute winter               | SWIC 61  | 1.001  | J61            | 0.9           | 0.540          | 0.140    | 0.0049        |
| 15 minute summer               | DWP 67   | 2.000  | J61            | 0.0           | 0.000          | 0.000    | 0.0032        |
| 15 minute winter               | J61      | 1.002  | J62            | 0.9           | 0.540          | 0.142    | 0.0088        |
| 15 minute summer               | DWP 66   | 3.000  | J62            | 0.0           | 0.000          | 0.000    | 0.0033        |
| 15 minute winter               | J62      | 1.003  | SWIC 62        | 0.9           | 0.544          | 0.142    | 0.0054        |
| 15 minute winter               | SWIC 62  | 1.004  | SWIC 63        | 0.9           | 0.435          | 0.141    | 0.0166        |
| 15 minute winter               | DWP 57   | 4.000  | SWIC 53        | 0.7           | 0.703          | 0.110    | 0.0042        |
| 15 minute summer               | DWP 51   | 5.000  | SWIC 53        | 0.0           | 0.000          | 0.000    | 0.0006        |
| 15 minute winter               | SWIC 53  | 4.001  | SWIC 63        | 0.7           | 0.978          | 0.028    | 0.0030        |
| 15 minute summer               | DWP 65   | 6.000  | SWIC 63        | 0.0           | 0.000          | 0.000    | 0.0041        |
| 15 minute winter               | SWIC 63  | 1.005  | SWIC 64        | 1.5           | 0.636          | 0.247    | 0.0345        |
| 15 minute summer               | DWP 64   | 7.000  | SWIC 64        | 0.0           | 0.000          | 0.000    | 0.0058        |
| 15 minute winter               | SWIC 64  | 1.006  | Common 6       | 1.5           | 0.556          | 0.242    | 0.0242        |
| 15 minute summer               | DWP 63   | 8.000  | SWIC 65        | 0.0           | 0.000          | 0.000    | 0.0026        |
| 15 minute winter               | DWP 62   | 9.000  | SWIC 65        | 0.7           | 0.636          | 0.115    | 0.0031        |
| 15 minute winter               | SWIC 65  | 8.001  | Common 6       | 0.7           | 0.697          | 0.053    | 0.0182        |
| 15 minute winter               | Common 6 | 1.007  | Common Collect | 2.1           | 0.709          | 0.352    | 0.0460        |
| 15 minute winter               | DWP 45   | 10.000 | SWIC 41        | 0.7           | 0.500          | 0.109    | 0.0027        |
| 15 minute winter               | SWIC 41  | 10.001 | SWIC 42        | 0.7           | 0.491          | 0.108    | 0.0146        |
| 15 minute summer               | DWP 46   | 11.000 | SWIC 42        | 0.0           | 0.000          | 0.000    | 0.0035        |
| 15 minute summer               | DWP 41   | 12.000 | SWIC 42        | 0.0           | 0.000          | 0.000    | 0.0021        |
| 15 minute winter               | SWIC 42  | 10.002 | SWIC 51        | 0.7           | 0.521          | 0.109    | 0.0041        |
| 15 minute summer               | DWP 56   | 13.000 | SWIC 51        | 0.0           | 0.000          | 0.000    | 0.0024        |
| 15 minute winter               | SWIC 51  | 10.003 | J51            | 0.7           | 0.562          | 0.107    | 0.0040        |

**Results for 1 year Critical Storm Duration. Lowest mass balance: 100.00%**

| Node Event       | US Node  | Peak (mins) | Level (m) | Depth (m) | Inflow (l/s) | Node Vol (m³) | Flood (m³) | Status |
|------------------|----------|-------------|-----------|-----------|--------------|---------------|------------|--------|
| 15 minute summer | DWP 55   | 1           | 65.093    | 0.000     | 0.0          | 0.0000        | 0.0000     | OK     |
| 15 minute winter | J51      | 11          | 65.014    | 0.022     | 0.7          | 0.0000        | 0.0000     | OK     |
| 15 minute winter | DWP 52   | 11          | 65.045    | 0.022     | 0.6          | 0.0040        | 0.0000     | OK     |
| 15 minute summer | SWIC 54  | 11          | 65.018    | 0.022     | 0.6          | 0.0034        | 0.0000     | OK     |
| 15 minute summer | DWP 53   | 1           | 64.997    | 0.000     | 0.0          | 0.0000        | 0.0000     | OK     |
| 15 minute summer | J52      | 11          | 64.942    | 0.020     | 0.6          | 0.0000        | 0.0000     | OK     |
| 15 minute summer | DWP 42   | 1           | 64.965    | 0.000     | 0.0          | 0.0000        | 0.0000     | OK     |
| 15 minute summer | DWP 54   | 1           | 64.983    | 0.000     | 0.0          | 0.0000        | 0.0000     | OK     |
| 15 minute winter | SWIC 52  | 11          | 64.900    | 0.033     | 1.8          | 0.0108        | 0.0000     | OK     |
| 15 minute winter | Common 5 | 11          | 64.774    | 0.024     | 1.8          | 0.0000        | 0.0000     | OK     |
| 15 minute summer | DWP 16   | 1           | 64.935    | 0.000     | 0.0          | 0.0000        | 0.0000     | OK     |
| 15 minute summer | DWP 11   | 1           | 64.960    | 0.000     | 0.0          | 0.0000        | 0.0000     | OK     |
| 15 minute winter | SWIC 14  | 10          | 64.888    | 0.021     | 0.7          | 0.0064        | 0.0000     | OK     |
| 15 minute summer | DWP 15   | 1           | 64.877    | 0.000     | 0.0          | 0.0000        | 0.0000     | OK     |
| 15 minute summer | SWIC 15  | 1           | 64.864    | 0.000     | 0.0          | 0.0000        | 0.0000     | OK     |
| 15 minute winter | Common 1 | 11          | 64.759    | 0.018     | 0.7          | 0.0000        | 0.0000     | OK     |
| 15 minute summer | DWP 43   | 1           | 64.940    | 0.000     | 0.0          | 0.0000        | 0.0000     | OK     |
| 15 minute summer | DWP 44   | 1           | 64.952    | 0.000     | 0.0          | 0.0000        | 0.0000     | OK     |
| 15 minute summer | SWIC 43  | 1           | 64.889    | 0.000     | 0.0          | 0.0000        | 0.0000     | OK     |
| 15 minute summer | Common 4 | 1           | 64.750    | 0.000     | 0.0          | 0.0000        | 0.0000     | OK     |
| 15 minute summer | DWP 35   | 1           | 64.718    | 0.000     | 0.0          | 0.0000        | 0.0000     | OK     |
| 15 minute summer | SWIC 32  | 1           | 64.698    | 0.000     | 0.0          | 0.0000        | 0.0000     | OK     |
| 15 minute winter | DWP 31   | 10          | 64.801    | 0.018     | 0.8          | 0.0038        | 0.0000     | OK     |
| 15 minute summer | DWP 36   | 1           | 64.768    | 0.000     | 0.0          | 0.0000        | 0.0000     | OK     |
| 15 minute winter | SWIC 33  | 10          | 64.654    | 0.025     | 0.8          | 0.0039        | 0.0000     | OK     |

  

| Link Event (Upstream Depth) | US Node  | Link   | DS Node        | Outflow (l/s) | Velocity (m/s) | Flow/Cap | Link Vol (m³) |
|-----------------------------|----------|--------|----------------|---------------|----------------|----------|---------------|
| 15 minute summer            | DWP 55   | 14.000 | J51            | 0.0           | 0.000          | 0.000    | 0.0012        |
| 15 minute winter            | J51      | 10.004 | SWIC 52        | 0.6           | 0.372          | 0.105    | 0.0218        |
| 15 minute winter            | DWP 52   | 15.000 | SWIC 54        | 0.6           | 0.479          | 0.099    | 0.0033        |
| 15 minute summer            | SWIC 54  | 15.001 | J52            | 0.6           | 0.511          | 0.099    | 0.0087        |
| 15 minute summer            | DWP 53   | 16.000 | J52            | 0.0           | 0.000          | 0.000    | 0.0013        |
| 15 minute summer            | J52      | 15.002 | SWIC 52        | 0.6           | 0.379          | 0.087    | 0.0071        |
| 15 minute summer            | DWP 42   | 17.000 | SWIC 52        | 0.0           | 0.000          | 0.000    | 0.0043        |
| 15 minute summer            | DWP 54   | 18.000 | SWIC 52        | 0.0           | 0.000          | 0.000    | 0.0034        |
| 15 minute winter            | SWIC 52  | 10.005 | Common 5       | 1.8           | 0.992          | 0.214    | 0.0108        |
| 15 minute winter            | Common 5 | 10.006 | Common Collect | 1.8           | 1.252          | 0.128    | 0.0112        |
| 15 minute summer            | DWP 16   | 19.000 | SWIC 14        | 0.0           | 0.000          | 0.000    | 0.0037        |
| 15 minute summer            | DWP 11   | 20.000 | SWIC 14        | 0.0           | 0.000          | 0.000    | 0.0020        |
| 15 minute winter            | SWIC 14  | 19.001 | Common 1       | 0.7           | 0.648          | 0.089    | 0.0083        |
| 15 minute summer            | DWP 15   | 21.000 | SWIC 15        | 0.0           | 0.000          | 0.000    | 0.0000        |
| 15 minute summer            | SWIC 15  | 21.001 | Common 1       | 0.0           | 0.000          | 0.000    | 0.0053        |
| 15 minute winter            | Common 1 | 19.002 | Common Collect | 0.7           | 0.710          | 0.067    | 0.0145        |
| 15 minute summer            | DWP 43   | 22.000 | SWIC 43        | 0.0           | 0.000          | 0.000    | 0.0000        |
| 15 minute summer            | DWP 44   | 23.000 | SWIC 43        | 0.0           | 0.000          | 0.000    | 0.0000        |
| 15 minute summer            | SWIC 43  | 22.001 | Common 4       | 0.0           | 0.000          | 0.000    | 0.0000        |
| 15 minute summer            | Common 4 | 22.002 | Common Collect | 0.0           | 0.000          | 0.000    | 0.0000        |
| 15 minute summer            | DWP 35   | 24.000 | SWIC 32        | 0.0           | 0.000          | 0.000    | 0.0000        |
| 15 minute summer            | SWIC 32  | 24.001 | SWIC 33        | 0.0           | 0.000          | 0.000    | 0.0049        |
| 15 minute winter            | DWP 31   | 25.000 | SWIC 33        | 0.8           | 0.641          | 0.069    | 0.0055        |
| 15 minute summer            | DWP 36   | 26.000 | SWIC 33        | 0.0           | 0.000          | 0.000    | 0.0019        |
| 15 minute winter            | SWIC 33  | 24.002 | Common 3       | 0.8           | 0.593          | 0.124    | 0.0104        |

**Results for 1 year Critical Storm Duration. Lowest mass balance: 100.00%**

| Node Event        | US Node         | Peak (mins) | Level (m) | Depth (m) | Inflow (l/s) | Node Vol (m³) | Flood (m³) | Status |
|-------------------|-----------------|-------------|-----------|-----------|--------------|---------------|------------|--------|
| 15 minute winter  | Common 3        | 11          | 64.567    | 0.020     | 0.8          | 0.0000        | 0.0000     | OK     |
| 15 minute winter  | DWP 26          | 10          | 64.759    | 0.025     | 0.8          | 0.0048        | 0.0000     | OK     |
| 15 minute summer  | DWP 25          | 1           | 64.767    | 0.000     | 0.0          | 0.0000        | 0.0000     | OK     |
| 15 minute winter  | SWIC 25         | 10          | 64.717    | 0.022     | 0.8          | 0.0036        | 0.0000     | OK     |
| 15 minute summer  | DWP 21          | 1           | 64.779    | 0.000     | 0.0          | 0.0000        | 0.0000     | OK     |
| 15 minute summer  | DWP 27          | 1           | 64.827    | 0.000     | 0.0          | 0.0000        | 0.0000     | OK     |
| 15 minute summer  | SWIC 24         | 1           | 64.741    | 0.000     | 0.0          | 0.0000        | 0.0000     | OK     |
| 15 minute winter  | Common 2        | 11          | 64.515    | 0.014     | 0.8          | 0.0000        | 0.0000     | OK     |
| 15 minute winter  | Common Collect  | 11          | 64.271    | 0.065     | 6.1          | 0.0000        | 0.0000     | OK     |
| 360 minute winter | Common Soakaway | 264         | 64.243    | 0.061     | 1.8          | 6.1374        | 0.0000     | OK     |
| 15 minute winter  | DWP 14          | 10          | 64.539    | 0.018     | 0.7          | 0.0036        | 0.0000     | OK     |
| 15 minute summer  | SWIC 12         | 10          | 64.513    | 0.022     | 0.7          | 0.0036        | 0.0000     | OK     |
| 15 minute summer  | DWP 13          | 1           | 64.580    | 0.000     | 0.0          | 0.0000        | 0.0000     | OK     |
| 15 minute winter  | J11             | 11          | 64.437    | 0.023     | 0.7          | 0.0000        | 0.0000     | OK     |
| 15 minute summer  | DWP 12          | 1           | 64.667    | 0.000     | 0.0          | 0.0000        | 0.0000     | OK     |
| 15 minute summer  | SWIC 11         | 11          | 64.403    | 0.024     | 0.7          | 0.0039        | 0.0000     | OK     |
| 360 minute winter | Soak 1          | 264         | 64.398    | 0.069     | 0.2          | 0.6599        | 0.0000     | OK     |
| 15 minute summer  | DWP 22          | 1           | 64.461    | 0.000     | 0.0          | 0.0000        | 0.0000     | OK     |
| 15 minute winter  | SWIC 21         | 10          | 64.424    | 0.024     | 0.7          | 0.0081        | 0.0000     | OK     |
| 15 minute summer  | DWP 23          | 1           | 64.399    | 0.000     | 0.0          | 0.0000        | 0.0000     | OK     |
| 15 minute summer  | DWP 24          | 1           | 64.373    | 0.000     | 0.0          | 0.0000        | 0.0000     | OK     |
| 15 minute winter  | SWIC 23         | 10          | 64.310    | 0.016     | 0.7          | 0.0026        | 0.0000     | OK     |
| 360 minute winter | Soak 2          | 264         | 64.182    | 0.068     | 0.2          | 0.6533        | 0.0000     | OK     |
| 15 minute summer  | DWP 34          | 1           | 64.088    | 0.000     | 0.0          | 0.0000        | 0.0000     | OK     |
| 15 minute summer  | SWIC 01         | 1           | 64.019    | 0.000     | 0.0          | 0.0000        | 0.0000     | OK     |

| Link Event<br>(Upstream Depth) | US Node         | Link         | DS Node         | Outflow (l/s) | Velocity (m/s) | Flow/Cap | Link Vol (m³) |
|--------------------------------|-----------------|--------------|-----------------|---------------|----------------|----------|---------------|
| 15 minute winter               | Common 3        | 24.003       | Common Collect  | 0.8           | 0.708          | 0.083    | 0.0102        |
| 15 minute winter               | DWP 26          | 27.000       | SWIC 25         | 0.8           | 0.546          | 0.127    | 0.0055        |
| 15 minute summer               | DWP 25          | 28.000       | SWIC 25         | 0.0           | 0.000          | 0.000    | 0.0008        |
| 15 minute winter               | SWIC 25         | 27.001       | Common 2        | 0.8           | 0.773          | 0.096    | 0.0115        |
| 15 minute summer               | DWP 21          | 29.000       | SWIC 24         | 0.0           | 0.000          | 0.000    | 0.0000        |
| 15 minute summer               | DWP 27          | 30.000       | SWIC 24         | 0.0           | 0.000          | 0.000    | 0.0000        |
| 15 minute summer               | SWIC 24         | 29.001       | Common 2        | 0.0           | 0.000          | 0.000    | 0.0000        |
| 15 minute winter               | Common 2        | 27.002       | Common Collect  | 0.8           | 1.141          | 0.042    | 0.0013        |
| 15 minute winter               | Common Collect  | 1.008        | Common Soakaway | 6.1           | 1.495          | 0.199    | 0.0348        |
| 360 minute winter              | Common Soakaway | Infiltration |                 | 0.8           |                |          |               |
| 15 minute winter               | DWP 14          | 31.000       | SWIC 12         | 0.7           | 0.590          | 0.067    | 0.0012        |
| 15 minute summer               | SWIC 12         | 31.001       | J11             | 0.7           | 0.502          | 0.108    | 0.0101        |
| 15 minute summer               | DWP 13          | 32.000       | J11             | 0.0           | 0.000          | 0.000    | 0.0009        |
| 15 minute winter               | J11             | 31.002       | SWIC 11         | 0.7           | 0.509          | 0.109    | 0.0047        |
| 15 minute summer               | DWP 12          | 33.000       | SWIC 11         | 0.0           | 0.000          | 0.000    | 0.0009        |
| 15 minute summer               | SWIC 11         | 31.003       | Soak 1          | 0.7           | 0.863          | 0.110    | 0.0048        |
| 360 minute winter              | Soak 1          | Infiltration |                 | 0.1           |                |          |               |
| 15 minute summer               | DWP 22          | 34.000       | SWIC 21         | 0.0           | 0.000          | 0.000    | 0.0015        |
| 15 minute winter               | SWIC 21         | 34.001       | SWIC 23         | 0.7           | 0.596          | 0.110    | 0.0118        |
| 15 minute summer               | DWP 23          | 35.000       | SWIC 23         | 0.0           | 0.000          | 0.000    | 0.0021        |
| 15 minute summer               | DWP 24          | 36.000       | SWIC 23         | 0.0           | 0.000          | 0.000    | 0.0009        |
| 15 minute winter               | SWIC 23         | 34.002       | Soak 2          | 0.7           | 1.182          | 0.050    | 0.0040        |
| 360 minute winter              | Soak 2          | Infiltration |                 | 0.1           |                |          |               |
| 15 minute summer               | DWP 34          | 37.000       | SWIC 01         | 0.0           | 0.000          | 0.000    | 0.0000        |
| 15 minute summer               | SWIC 01         | 37.001       | J31             | 0.0           | 0.000          | 0.000    | 0.0000        |

**Results for 1 year Critical Storm Duration. Lowest mass balance: 100.00%**

| Node Event        | US<br>Node | Peak<br>(mins) | Level<br>(m) | Depth<br>(m) | Inflow<br>(l/s) | Node<br>Vol (m³) | Flood<br>(m³) | Status |
|-------------------|------------|----------------|--------------|--------------|-----------------|------------------|---------------|--------|
| 15 minute summer  | DWP 33     | 1              | 64.312       | 0.000        | 0.0             | 0.0000           | 0.0000        | OK     |
| 15 minute summer  | J31        | 1              | 63.963       | 0.000        | 0.0             | 0.0000           | 0.0000        | OK     |
| 15 minute summer  | DWP 32     | 1              | 64.368       | 0.000        | 0.0             | 0.0000           | 0.0000        | OK     |
| 360 minute winter | SWIC 34    | 264            | 63.944       | 0.030        | 0.2             | 0.0085           | 0.0000        | OK     |
| 360 minute winter | Soak 3     | 264            | 63.944       | 0.077        | 0.2             | 0.7401           | 0.0000        | OK     |
| 15 minute winter  | Perm 1     | 11             | 64.077       | 0.027        | 1.0             | 0.0078           | 0.0000        | OK     |
| 180 minute winter | Perm 2     | 116            | 64.056       | 0.019        | 0.4             | 0.5616           | 0.0000        | OK     |

| Link Event<br>(Upstream Depth) | US<br>Node | Link         | DS<br>Node | Outflow<br>(l/s) | Velocity<br>(m/s) | Flow/Cap | Link<br>Vol (m³) |
|--------------------------------|------------|--------------|------------|------------------|-------------------|----------|------------------|
| 15 minute summer               | DWP 33     | 38.000       | J31        | 0.0              | 0.000             | 0.000    | 0.0000           |
| 15 minute summer               | J31        | 37.002       | SWIC 34    | 0.0              | 0.000             | 0.000    | 0.0035           |
| 15 minute summer               | DWP 32     | 39.000       | SWIC 34    | 0.0              | 0.000             | 0.000    | 0.0012           |
| 360 minute winter              | SWIC 34    | 37.003       | Soak 3     | 0.2              | 0.508             | 0.033    | 0.0195           |
| 360 minute winter              | Soak 3     | Infiltration |            | 0.1              |                   |          |                  |
| 15 minute winter               | Perm 1     | 40.000       | Perm 2     | 1.0              | 1.222             | 0.161    | 0.0012           |
| 180 minute winter              | Perm 2     | Infiltration |            | 0.3              |                   |          |                  |

**Results for 30 year Critical Storm Duration. Lowest mass balance: 99.46%**

| Node Event       | US Node  | Peak (mins) | Level (m) | Depth (m) | Inflow (l/s) | Node Vol (m³) | Flood (m³) | Status |
|------------------|----------|-------------|-----------|-----------|--------------|---------------|------------|--------|
| 15 minute winter | DWP 61   | 10          | 65.027    | 0.044     | 2.3          | 0.0106        | 0.0000     | OK     |
| 15 minute winter | SWIC 61  | 10          | 64.976    | 0.044     | 2.3          | 0.0070        | 0.0000     | OK     |
| 15 minute summer | DWP 67   | 1           | 65.296    | 0.000     | 0.0          | 0.0000        | 0.0000     | OK     |
| 15 minute winter | J61      | 11          | 64.943    | 0.042     | 2.2          | 0.0000        | 0.0000     | OK     |
| 15 minute summer | DWP 66   | 1           | 65.063    | 0.000     | 0.0          | 0.0000        | 0.0000     | OK     |
| 15 minute winter | J62      | 11          | 64.889    | 0.044     | 2.2          | 0.0000        | 0.0000     | OK     |
| 15 minute winter | SWIC 62  | 11          | 64.852    | 0.042     | 2.2          | 0.0067        | 0.0000     | OK     |
| 15 minute winter | DWP 57   | 10          | 65.116    | 0.040     | 1.8          | 0.0076        | 0.0000     | OK     |
| 15 minute summer | DWP 51   | 1           | 65.058    | 0.000     | 0.0          | 0.0000        | 0.0000     | OK     |
| 15 minute winter | SWIC 53  | 10          | 65.052    | 0.019     | 1.8          | 0.0030        | 0.0000     | OK     |
| 15 minute summer | DWP 65   | 1           | 65.080    | 0.000     | 0.0          | 0.0000        | 0.0000     | OK     |
| 15 minute winter | SWIC 63  | 11          | 64.786    | 0.061     | 4.0          | 0.0098        | 0.0000     | OK     |
| 15 minute summer | DWP 64   | 1           | 65.103    | 0.000     | 0.0          | 0.0000        | 0.0000     | OK     |
| 15 minute winter | SWIC 64  | 11          | 64.637    | 0.060     | 4.0          | 0.0096        | 0.0000     | OK     |
| 15 minute summer | DWP 63   | 1           | 65.165    | 0.000     | 0.0          | 0.0000        | 0.0000     | OK     |
| 15 minute winter | DWP 62   | 10          | 65.000    | 0.039     | 1.9          | 0.0078        | 0.0000     | OK     |
| 15 minute winter | SWIC 65  | 10          | 64.958    | 0.025     | 1.9          | 0.0040        | 0.0000     | OK     |
| 15 minute winter | Common 6 | 11          | 64.562    | 0.077     | 5.7          | 0.0000        | 0.0000     | OK     |
| 15 minute winter | DWP 45   | 10          | 65.225    | 0.039     | 1.8          | 0.0073        | 0.0000     | OK     |
| 15 minute winter | SWIC 41  | 10          | 65.203    | 0.038     | 1.8          | 0.0060        | 0.0000     | OK     |
| 15 minute summer | DWP 46   | 1           | 65.134    | 0.000     | 0.0          | 0.0000        | 0.0000     | OK     |
| 15 minute summer | DWP 41   | 1           | 65.106    | 0.000     | 0.0          | 0.0000        | 0.0000     | OK     |
| 15 minute winter | SWIC 42  | 11          | 65.095    | 0.040     | 1.8          | 0.0064        | 0.0000     | OK     |
| 15 minute summer | DWP 56   | 1           | 65.096    | 0.000     | 0.0          | 0.0000        | 0.0000     | OK     |
| 15 minute winter | SWIC 51  | 11          | 65.062    | 0.038     | 1.8          | 0.0061        | 0.0000     | OK     |

  

| Link Event (Upstream Depth) | US Node  | Link   | DS Node        | Outflow (l/s) | Velocity (m/s) | Flow/Cap | Link Vol (m³) |
|-----------------------------|----------|--------|----------------|---------------|----------------|----------|---------------|
| 15 minute winter            | DWP 61   | 1.000  | SWIC 61        | 2.3           | 0.686          | 0.371    | 0.0165        |
| 15 minute winter            | SWIC 61  | 1.001  | J61            | 2.2           | 0.697          | 0.367    | 0.0098        |
| 15 minute summer            | DWP 67   | 2.000  | J61            | 0.0           | 0.000          | 0.000    | 0.0066        |
| 15 minute winter            | J61      | 1.002  | J62            | 2.2           | 0.697          | 0.363    | 0.0176        |
| 15 minute summer            | DWP 66   | 3.000  | J62            | 0.0           | 0.000          | 0.000    | 0.0068        |
| 15 minute winter            | J62      | 1.003  | SWIC 62        | 2.2           | 0.698          | 0.365    | 0.0109        |
| 15 minute winter            | SWIC 62  | 1.004  | SWIC 63        | 2.2           | 0.550          | 0.369    | 0.0342        |
| 15 minute winter            | DWP 57   | 4.000  | SWIC 53        | 1.8           | 0.936          | 0.293    | 0.0083        |
| 15 minute summer            | DWP 51   | 5.000  | SWIC 53        | 0.0           | 0.000          | 0.000    | 0.0012        |
| 15 minute winter            | SWIC 53  | 4.001  | SWIC 63        | 1.8           | 1.083          | 0.075    | 0.0062        |
| 15 minute summer            | DWP 65   | 6.000  | SWIC 63        | 0.0           | 0.000          | 0.000    | 0.0088        |
| 15 minute winter            | SWIC 63  | 1.005  | SWIC 64        | 4.0           | 0.801          | 0.658    | 0.0731        |
| 15 minute summer            | DWP 64   | 7.000  | SWIC 64        | 0.0           | 0.000          | 0.000    | 0.0125        |
| 15 minute winter            | SWIC 64  | 1.006  | Common 6       | 4.0           | 0.694          | 0.656    | 0.0521        |
| 15 minute summer            | DWP 63   | 8.000  | SWIC 65        | 0.0           | 0.000          | 0.000    | 0.0053        |
| 15 minute winter            | DWP 62   | 9.000  | SWIC 65        | 1.9           | 0.848          | 0.307    | 0.0061        |
| 15 minute winter            | SWIC 65  | 8.001  | Common 6       | 1.8           | 0.803          | 0.140    | 0.0385        |
| 15 minute winter            | Common 6 | 1.007  | Common Collect | 5.7           | 0.883          | 0.939    | 0.0987        |
| 15 minute winter            | DWP 45   | 10.000 | SWIC 41        | 1.8           | 0.641          | 0.291    | 0.0057        |
| 15 minute winter            | SWIC 41  | 10.001 | SWIC 42        | 1.8           | 0.631          | 0.289    | 0.0303        |
| 15 minute summer            | DWP 46   | 11.000 | SWIC 42        | 0.0           | 0.000          | 0.000    | 0.0076        |
| 15 minute summer            | DWP 41   | 12.000 | SWIC 42        | 0.0           | 0.000          | 0.000    | 0.0046        |
| 15 minute winter            | SWIC 42  | 10.002 | SWIC 51        | 1.8           | 0.622          | 0.288    | 0.0086        |
| 15 minute summer            | DWP 56   | 13.000 | SWIC 51        | 0.0           | 0.000          | 0.000    | 0.0052        |
| 15 minute winter            | SWIC 51  | 10.003 | J51            | 1.8           | 0.658          | 0.289    | 0.0084        |

**Results for 30 year Critical Storm Duration. Lowest mass balance: 99.46%**

| Node Event       | US Node  | Peak (mins) | Level (m) | Depth (m) | Inflow (l/s) | Node Vol (m³) | Flood (m³) | Status |
|------------------|----------|-------------|-----------|-----------|--------------|---------------|------------|--------|
| 15 minute summer | DWP 55   | 1           | 65.093    | 0.000     | 0.0          | 0.0000        | 0.0000     | OK     |
| 15 minute winter | J51      | 11          | 65.029    | 0.037     | 1.8          | 0.0000        | 0.0000     | OK     |
| 15 minute winter | DWP 52   | 10          | 65.061    | 0.038     | 1.7          | 0.0069        | 0.0000     | OK     |
| 15 minute winter | SWIC 54  | 10          | 65.033    | 0.037     | 1.7          | 0.0058        | 0.0000     | OK     |
| 15 minute summer | DWP 53   | 1           | 64.997    | 0.000     | 0.0          | 0.0000        | 0.0000     | OK     |
| 15 minute winter | J52      | 11          | 64.955    | 0.033     | 1.7          | 0.0000        | 0.0000     | OK     |
| 15 minute summer | DWP 42   | 1           | 64.965    | 0.000     | 0.0          | 0.0000        | 0.0000     | OK     |
| 15 minute summer | DWP 54   | 1           | 64.983    | 0.000     | 0.0          | 0.0000        | 0.0000     | OK     |
| 15 minute winter | SWIC 52  | 11          | 64.926    | 0.059     | 5.1          | 0.0193        | 0.0000     | OK     |
| 15 minute winter | Common 5 | 11          | 64.792    | 0.042     | 5.1          | 0.0000        | 0.0000     | OK     |
| 15 minute summer | DWP 16   | 1           | 64.935    | 0.000     | 0.0          | 0.0000        | 0.0000     | OK     |
| 15 minute summer | DWP 11   | 1           | 64.960    | 0.000     | 0.0          | 0.0000        | 0.0000     | OK     |
| 15 minute winter | SWIC 14  | 10          | 64.900    | 0.033     | 1.7          | 0.0102        | 0.0000     | OK     |
| 15 minute summer | DWP 15   | 1           | 64.877    | 0.000     | 0.0          | 0.0000        | 0.0000     | OK     |
| 15 minute summer | SWIC 15  | 1           | 64.864    | 0.000     | 0.0          | 0.0000        | 0.0000     | OK     |
| 15 minute winter | Common 1 | 10          | 64.769    | 0.028     | 1.7          | 0.0000        | 0.0000     | OK     |
| 15 minute summer | DWP 43   | 1           | 64.940    | 0.000     | 0.0          | 0.0000        | 0.0000     | OK     |
| 15 minute summer | DWP 44   | 1           | 64.952    | 0.000     | 0.0          | 0.0000        | 0.0000     | OK     |
| 15 minute summer | SWIC 43  | 1           | 64.889    | 0.000     | 0.0          | 0.0000        | 0.0000     | OK     |
| 15 minute summer | Common 4 | 1           | 64.750    | 0.000     | 0.0          | 0.0000        | 0.0000     | OK     |
| 15 minute summer | DWP 35   | 1           | 64.718    | 0.000     | 0.0          | 0.0000        | 0.0000     | OK     |
| 15 minute summer | SWIC 32  | 1           | 64.698    | 0.000     | 0.0          | 0.0000        | 0.0000     | OK     |
| 15 minute winter | DWP 31   | 10          | 64.812    | 0.029     | 2.0          | 0.0061        | 0.0000     | OK     |
| 15 minute summer | DWP 36   | 1           | 64.768    | 0.000     | 0.0          | 0.0000        | 0.0000     | OK     |
| 15 minute winter | SWIC 33  | 10          | 64.669    | 0.040     | 2.0          | 0.0064        | 0.0000     | OK     |

| Link Event<br>(Upstream Depth) | US Node  | Link   | DS Node        | Outflow (l/s) | Velocity (m/s) | Flow/Cap | Link Vol (m³) |
|--------------------------------|----------|--------|----------------|---------------|----------------|----------|---------------|
| 15 minute summer               | DWP 55   | 14.000 | J51            | 0.0           | 0.000          | 0.000    | 0.0024        |
| 15 minute winter               | J51      | 10.004 | SWIC 52        | 1.8           | 0.482          | 0.291    | 0.0460        |
| 15 minute winter               | DWP 52   | 15.000 | SWIC 54        | 1.7           | 0.633          | 0.276    | 0.0071        |
| 15 minute winter               | SWIC 54  | 15.001 | J52            | 1.7           | 0.680          | 0.274    | 0.0180        |
| 15 minute summer               | DWP 53   | 16.000 | J52            | 0.0           | 0.000          | 0.000    | 0.0026        |
| 15 minute winter               | J52      | 15.002 | SWIC 52        | 1.7           | 0.472          | 0.242    | 0.0152        |
| 15 minute summer               | DWP 42   | 17.000 | SWIC 52        | 0.0           | 0.000          | 0.000    | 0.0089        |
| 15 minute summer               | DWP 54   | 18.000 | SWIC 52        | 0.0           | 0.000          | 0.000    | 0.0071        |
| 15 minute winter               | SWIC 52  | 10.005 | Common 5       | 5.1           | 1.307          | 0.598    | 0.0229        |
| 15 minute winter               | Common 5 | 10.006 | Common Collect | 5.2           | 1.672          | 0.360    | 0.0234        |
| 15 minute summer               | DWP 16   | 19.000 | SWIC 14        | 0.0           | 0.000          | 0.000    | 0.0074        |
| 15 minute summer               | DWP 11   | 20.000 | SWIC 14        | 0.0           | 0.000          | 0.000    | 0.0039        |
| 15 minute winter               | SWIC 14  | 19.001 | Common 1       | 1.7           | 0.834          | 0.221    | 0.0161        |
| 15 minute summer               | DWP 15   | 21.000 | SWIC 15        | 0.0           | 0.000          | 0.000    | 0.0000        |
| 15 minute summer               | SWIC 15  | 21.001 | Common 1       | 0.0           | 0.000          | 0.000    | 0.0106        |
| 15 minute winter               | Common 1 | 19.002 | Common Collect | 1.6           | 0.930          | 0.168    | 0.0279        |
| 15 minute summer               | DWP 43   | 22.000 | SWIC 43        | 0.0           | 0.000          | 0.000    | 0.0000        |
| 15 minute summer               | DWP 44   | 23.000 | SWIC 43        | 0.0           | 0.000          | 0.000    | 0.0000        |
| 15 minute summer               | SWIC 43  | 22.001 | Common 4       | 0.0           | 0.000          | 0.000    | 0.0000        |
| 15 minute summer               | Common 4 | 22.002 | Common Collect | 0.0           | 0.000          | 0.000    | 0.0000        |
| 15 minute summer               | DWP 35   | 24.000 | SWIC 32        | 0.0           | 0.000          | 0.000    | 0.0000        |
| 15 minute summer               | SWIC 32  | 24.001 | SWIC 33        | 0.0           | 0.000          | 0.000    | 0.0098        |
| 15 minute winter               | DWP 31   | 25.000 | SWIC 33        | 2.0           | 0.831          | 0.177    | 0.0108        |
| 15 minute summer               | DWP 36   | 26.000 | SWIC 33        | 0.0           | 0.000          | 0.000    | 0.0039        |
| 15 minute winter               | SWIC 33  | 24.002 | Common 3       | 2.0           | 0.777          | 0.324    | 0.0206        |

**Results for 30 year Critical Storm Duration. Lowest mass balance: 99.46%**

| Node Event        | US Node         | Peak (mins) | Level (m) | Depth (m) | Inflow (l/s) | Node Vol (m³) | Flood (m³) | Status     |
|-------------------|-----------------|-------------|-----------|-----------|--------------|---------------|------------|------------|
| 15 minute winter  | Common 3        | 10          | 64.578    | 0.031     | 2.0          | 0.0000        | 0.0000     | OK         |
| 15 minute winter  | DWP 26          | 10          | 64.775    | 0.041     | 2.0          | 0.0080        | 0.0000     | OK         |
| 15 minute summer  | DWP 25          | 1           | 64.767    | 0.000     | 0.0          | 0.0000        | 0.0000     | OK         |
| 15 minute winter  | SWIC 25         | 10          | 64.732    | 0.037     | 2.0          | 0.0058        | 0.0000     | OK         |
| 15 minute summer  | DWP 21          | 1           | 64.779    | 0.000     | 0.0          | 0.0000        | 0.0000     | OK         |
| 15 minute summer  | DWP 27          | 1           | 64.827    | 0.000     | 0.0          | 0.0000        | 0.0000     | OK         |
| 15 minute summer  | SWIC 24         | 1           | 64.741    | 0.000     | 0.0          | 0.0000        | 0.0000     | OK         |
| 15 minute winter  | Common 2        | 10          | 64.523    | 0.022     | 2.0          | 0.0000        | 0.0000     | OK         |
| 360 minute winter | Common Collect  | 288         | 64.343    | 0.137     | 3.1          | 0.0000        | 0.0000     | OK         |
| 360 minute winter | Common Soakaway | 288         | 64.343    | 0.161     | 3.1          | 16.1828       | 0.0000     | OK         |
| 15 minute winter  | DWP 14          | 10          | 64.553    | 0.032     | 1.8          | 0.0062        | 0.0000     | OK         |
| 15 minute winter  | SWIC 12         | 10          | 64.529    | 0.038     | 1.8          | 0.0060        | 0.0000     | OK         |
| 15 minute summer  | DWP 13          | 1           | 64.580    | 0.000     | 0.0          | 0.0000        | 0.0000     | OK         |
| 480 minute winter | J11             | 408         | 64.491    | 0.077     | 0.4          | 0.0000        | 0.0000     | OK         |
| 15 minute summer  | DWP 12          | 1           | 64.667    | 0.000     | 0.0          | 0.0000        | 0.0000     | OK         |
| 480 minute winter | SWIC 11         | 408         | 64.491    | 0.112     | 0.4          | 0.0178        | 0.0000     | SURCHARGED |
| 480 minute winter | Soak 1          | 408         | 64.491    | 0.162     | 0.5          | 1.5575        | 0.0000     | OK         |
| 15 minute summer  | DWP 22          | 1           | 64.461    | 0.000     | 0.0          | 0.0000        | 0.0000     | OK         |
| 15 minute winter  | SWIC 21         | 10          | 64.439    | 0.039     | 1.7          | 0.0132        | 0.0000     | OK         |
| 15 minute summer  | DWP 23          | 1           | 64.399    | 0.000     | 0.0          | 0.0000        | 0.0000     | OK         |
| 15 minute summer  | DWP 24          | 1           | 64.373    | 0.000     | 0.0          | 0.0000        | 0.0000     | OK         |
| 15 minute winter  | SWIC 23         | 10          | 64.318    | 0.024     | 1.7          | 0.0038        | 0.0000     | OK         |
| 240 minute winter | Soak 2          | 208         | 64.284    | 0.170     | 0.4          | 1.6367        | 0.0000     | OK         |
| 15 minute summer  | DWP 34          | 1           | 64.088    | 0.000     | 0.0          | 0.0000        | 0.0000     | OK         |
| 480 minute winter | SWIC 01         | 440         | 64.043    | 0.024     | 0.0          | 0.0038        | 0.0000     | OK         |

| Link Event<br>(Upstream Depth) | US Node         | Link         | DS Node         | Outflow (l/s) | Velocity (m/s) | Flow/Cap | Link Vol (m³) |
|--------------------------------|-----------------|--------------|-----------------|---------------|----------------|----------|---------------|
| 15 minute winter               | Common 3        | 24.003       | Common Collect  | 2.0           | 0.928          | 0.213    | 0.0200        |
| 15 minute winter               | DWP 26          | 27.000       | SWIC 25         | 2.0           | 0.707          | 0.327    | 0.0109        |
| 15 minute summer               | DWP 25          | 28.000       | SWIC 25         | 0.0           | 0.000          | 0.000    | 0.0015        |
| 15 minute winter               | SWIC 25         | 27.001       | Common 2        | 2.0           | 1.020          | 0.251    | 0.0226        |
| 15 minute summer               | DWP 21          | 29.000       | SWIC 24         | 0.0           | 0.000          | 0.000    | 0.0000        |
| 15 minute summer               | DWP 27          | 30.000       | SWIC 24         | 0.0           | 0.000          | 0.000    | 0.0000        |
| 15 minute summer               | SWIC 24         | 29.001       | Common 2        | 0.0           | 0.000          | 0.000    | 0.0000        |
| 15 minute winter               | Common 2        | 27.002       | Common Collect  | 2.0           | 1.508          | 0.108    | 0.0025        |
| 360 minute winter              | Common Collect  | 1.008        | Common Soakaway | 3.1           | 0.726          | 0.100    | 0.1883        |
| 360 minute winter              | Common Soakaway | Infiltration |                 | 0.8           |                |          |               |
| 15 minute winter               | DWP 14          | 31.000       | SWIC 12         | 1.8           | 0.736          | 0.176    | 0.0026        |
| 15 minute winter               | SWIC 12         | 31.001       | J11             | 1.8           | 0.649          | 0.291    | 0.0208        |
| 15 minute summer               | DWP 13          | 32.000       | J11             | 0.0           | 0.000          | 0.000    | 0.0018        |
| 480 minute winter              | J11             | 31.002       | SWIC 11         | 0.4           | 0.356          | 0.060    | 0.0244        |
| 15 minute summer               | DWP 12          | 33.000       | SWIC 11         | 0.0           | 0.000          | 0.000    | 0.0016        |
| 480 minute winter              | SWIC 11         | 31.003       | Soak 1          | 0.5           | 0.441          | 0.086    | 0.0383        |
| 480 minute winter              | Soak 1          | Infiltration |                 | 0.1           |                |          |               |
| 15 minute summer               | DWP 22          | 34.000       | SWIC 21         | 0.0           | 0.000          | 0.000    | 0.0030        |
| 15 minute winter               | SWIC 21         | 34.001       | SWIC 23         | 1.7           | 0.797          | 0.276    | 0.0223        |
| 15 minute summer               | DWP 23          | 35.000       | SWIC 23         | 0.0           | 0.000          | 0.000    | 0.0037        |
| 15 minute summer               | DWP 24          | 36.000       | SWIC 23         | 0.0           | 0.000          | 0.000    | 0.0015        |
| 15 minute winter               | SWIC 23         | 34.002       | Soak 2          | 1.7           | 1.301          | 0.127    | 0.0128        |
| 240 minute winter              | Soak 2          | Infiltration |                 | 0.1           |                |          |               |
| 15 minute summer               | DWP 34          | 37.000       | SWIC 01         | 0.0           | 0.000          | 0.000    | 0.0000        |
| 480 minute winter              | SWIC 01         | 37.001       | J31             | 0.0           | -0.004         | -0.002   | 0.0226        |

**Results for 30 year Critical Storm Duration. Lowest mass balance: 99.46%**

| Node Event        | US<br>Node | Peak<br>(mins) | Level<br>(m) | Depth<br>(m) | Inflow<br>(l/s) | Node<br>Vol (m³) | Flood<br>(m³) | Status     |
|-------------------|------------|----------------|--------------|--------------|-----------------|------------------|---------------|------------|
| 15 minute summer  | DWP 33     | 1              | 64.312       | 0.000        | 0.0             | 0.0000           | 0.0000        | OK         |
| 480 minute winter | J31        | 440            | 64.043       | 0.080        | 0.0             | 0.0000           | 0.0000        | OK         |
| 15 minute summer  | DWP 32     | 1              | 64.368       | 0.000        | 0.0             | 0.0000           | 0.0000        | OK         |
| 480 minute winter | SWIC 34    | 440            | 64.043       | 0.129        | 0.3             | 0.0367           | 0.0000        | SURCHARGED |
| 480 minute winter | Soak 3     | 440            | 64.043       | 0.176        | 0.3             | 1.6901           | 0.0000        | OK         |
| 15 minute winter  | Perm 1     | 10             | 64.096       | 0.046        | 2.7             | 0.0131           | 0.0000        | OK         |
| 60 minute winter  | Perm 2     | 45             | 64.081       | 0.044        | 1.6             | 1.3243           | 0.0000        | OK         |

| Link Event<br>(Upstream Depth) | US<br>Node | Link         | DS<br>Node | Outflow<br>(l/s) | Velocity<br>(m/s) | Flow/Cap | Link<br>Vol (m³) |
|--------------------------------|------------|--------------|------------|------------------|-------------------|----------|------------------|
| 15 minute summer               | DWP 33     | 38.000       | J31        | 0.0              | 0.000             | 0.000    | 0.0000           |
| 480 minute winter              | J31        | 37.002       | SWIC 34    | 0.0              | -0.014            | -0.004   | 0.0352           |
| 15 minute summer               | DWP 32     | 39.000       | SWIC 34    | 0.0              | 0.000             | 0.000    | 0.0023           |
| 480 minute winter              | SWIC 34    | 37.003       | Soak 3     | 0.3              | 0.508             | 0.045    | 0.0361           |
| 480 minute winter              | Soak 3     | Infiltration |            | 0.1              |                   |          |                  |
| 15 minute winter               | Perm 1     | 40.000       | Perm 2     | 2.7              | 1.387             | 0.429    | 0.0029           |
| 60 minute winter               | Perm 2     | Infiltration |            | 0.6              |                   |          |                  |

**Results for 100 year +50% CC Critical Storm Duration. Lowest mass balance: 99.62%**

| Node Event       | US Node  | Peak (mins) | Level (m) | Depth (m) | Inflow (l/s) | Node Vol (m³) | Flood (m³) | Status     |
|------------------|----------|-------------|-----------|-----------|--------------|---------------|------------|------------|
| 15 minute winter | DWP 61   | 10          | 65.047    | 0.064     | 4.2          | 0.0155        | 0.0000     | OK         |
| 15 minute winter | SWIC 61  | 10          | 64.996    | 0.064     | 4.2          | 0.0102        | 0.0000     | OK         |
| 15 minute summer | DWP 67   | 1           | 65.296    | 0.000     | 0.0          | 0.0000        | 0.0000     | OK         |
| 15 minute winter | J61      | 13          | 64.970    | 0.069     | 4.1          | 0.0000        | 0.0000     | OK         |
| 15 minute summer | DWP 66   | 1           | 65.063    | 0.000     | 0.0          | 0.0000        | 0.0000     | OK         |
| 15 minute winter | J62      | 13          | 64.963    | 0.118     | 4.2          | 0.0000        | 0.0000     | SURCHARGED |
| 15 minute winter | SWIC 62  | 13          | 64.952    | 0.142     | 3.9          | 0.0225        | 0.0000     | SURCHARGED |
| 15 minute winter | DWP 57   | 10          | 65.131    | 0.055     | 3.3          | 0.0106        | 0.0000     | OK         |
| 15 minute winter | DWP 51   | 11          | 65.058    | 0.000     | 0.0          | 0.0000        | 0.0000     | OK         |
| 15 minute winter | SWIC 53  | 10          | 65.058    | 0.025     | 3.3          | 0.0040        | 0.0000     | OK         |
| 15 minute summer | DWP 65   | 1           | 65.080    | 0.000     | 0.0          | 0.0000        | 0.0000     | OK         |
| 15 minute winter | SWIC 63  | 12          | 64.924    | 0.199     | 6.4          | 0.0316        | 0.0000     | SURCHARGED |
| 15 minute summer | DWP 64   | 1           | 65.103    | 0.000     | 0.0          | 0.0000        | 0.0000     | OK         |
| 15 minute winter | SWIC 64  | 13          | 64.779    | 0.201     | 5.9          | 0.0320        | 0.0000     | SURCHARGED |
| 15 minute summer | DWP 63   | 1           | 65.165    | 0.000     | 0.0          | 0.0000        | 0.0000     | OK         |
| 15 minute winter | DWP 62   | 10          | 65.016    | 0.055     | 3.5          | 0.0109        | 0.0000     | OK         |
| 15 minute winter | SWIC 65  | 10          | 64.968    | 0.035     | 3.5          | 0.0056        | 0.0000     | OK         |
| 15 minute winter | Common 6 | 12          | 64.692    | 0.207     | 8.3          | 0.0000        | 0.0000     | SURCHARGED |
| 15 minute winter | DWP 45   | 10          | 65.242    | 0.056     | 3.3          | 0.0106        | 0.0000     | OK         |
| 15 minute winter | SWIC 41  | 10          | 65.219    | 0.054     | 3.3          | 0.0086        | 0.0000     | OK         |
| 15 minute summer | DWP 46   | 1           | 65.134    | 0.000     | 0.0          | 0.0000        | 0.0000     | OK         |
| 15 minute winter | DWP 41   | 11          | 65.113    | 0.007     | 0.1          | 0.0000        | 0.0000     | OK         |
| 15 minute winter | SWIC 42  | 11          | 65.113    | 0.058     | 3.2          | 0.0092        | 0.0000     | OK         |
| 15 minute summer | DWP 56   | 1           | 65.096    | 0.000     | 0.0          | 0.0000        | 0.0000     | OK         |
| 15 minute winter | SWIC 51  | 11          | 65.078    | 0.054     | 3.2          | 0.0086        | 0.0000     | OK         |

| Link Event<br>(Upstream Depth) | US Node  | Link   | DS Node        | Outflow (l/s) | Velocity (m/s) | Flow/Cap | Link Vol (m³) |
|--------------------------------|----------|--------|----------------|---------------|----------------|----------|---------------|
| 15 minute winter               | DWP 61   | 1.000  | SWIC 61        | 4.2           | 0.784          | 0.682    | 0.0265        |
| 15 minute winter               | SWIC 61  | 1.001  | J61            | 4.1           | 0.803          | 0.680    | 0.0164        |
| 15 minute summer               | DWP 67   | 2.000  | J61            | 0.0           | 0.000          | 0.000    | 0.0106        |
| 15 minute winter               | J61      | 1.002  | J62            | 4.2           | 0.791          | 0.685    | 0.0375        |
| 15 minute summer               | DWP 66   | 3.000  | J62            | 0.0           | 0.000          | 0.000    | 0.0166        |
| 15 minute winter               | J62      | 1.003  | SWIC 62        | 3.9           | 0.789          | 0.638    | 0.0267        |
| 15 minute winter               | SWIC 62  | 1.004  | SWIC 63        | 3.5           | 0.579          | 0.578    | 0.0656        |
| 15 minute winter               | DWP 57   | 4.000  | SWIC 53        | 3.3           | 1.108          | 0.538    | 0.0127        |
| 15 minute winter               | DWP 51   | 5.000  | SWIC 53        | 0.0           | -0.003         | 0.000    | 0.0019        |
| 15 minute winter               | SWIC 53  | 4.001  | SWIC 63        | 3.3           | 1.205          | 0.137    | 0.0096        |
| 15 minute summer               | DWP 65   | 6.000  | SWIC 63        | 0.0           | 0.000          | 0.000    | 0.0142        |
| 15 minute winter               | SWIC 63  | 1.005  | SWIC 64        | 5.9           | 0.831          | 0.977    | 0.1147        |
| 15 minute summer               | DWP 64   | 7.000  | SWIC 64        | 0.0           | 0.000          | 0.000    | 0.0205        |
| 15 minute winter               | SWIC 64  | 1.006  | Common 6       | 5.8           | 0.743          | 0.960    | 0.0716        |
| 15 minute summer               | DWP 63   | 8.000  | SWIC 65        | 0.0           | 0.000          | 0.000    | 0.0081        |
| 15 minute winter               | DWP 62   | 9.000  | SWIC 65        | 3.5           | 1.009          | 0.569    | 0.0095        |
| 15 minute winter               | SWIC 65  | 8.001  | Common 6       | 3.4           | 0.833          | 0.261    | 0.0496        |
| 15 minute winter               | Common 6 | 1.007  | Common Collect | 8.2           | 1.043          | 1.347    | 0.1165        |
| 15 minute winter               | DWP 45   | 10.000 | SWIC 41        | 3.3           | 0.736          | 0.534    | 0.0091        |
| 15 minute winter               | SWIC 41  | 10.001 | SWIC 42        | 3.2           | 0.729          | 0.531    | 0.0484        |
| 15 minute summer               | DWP 46   | 11.000 | SWIC 42        | 0.0           | 0.000          | 0.000    | 0.0122        |
| 15 minute winter               | DWP 41   | 12.000 | SWIC 42        | -0.1          | -0.031         | -0.008   | 0.0081        |
| 15 minute winter               | SWIC 42  | 10.002 | SWIC 51        | 3.2           | 0.713          | 0.526    | 0.0136        |
| 15 minute summer               | DWP 56   | 13.000 | SWIC 51        | 0.0           | 0.000          | 0.000    | 0.0081        |
| 15 minute winter               | SWIC 51  | 10.003 | J51            | 3.2           | 0.765          | 0.524    | 0.0131        |

**Results for 100 year +50% CC Critical Storm Duration. Lowest mass balance: 99.62%**

| Node Event       | US Node  | Peak (mins) | Level (m) | Depth (m) | Inflow (l/s) | Node Vol (m³) | Flood (m³) | Status     |
|------------------|----------|-------------|-----------|-----------|--------------|---------------|------------|------------|
| 15 minute summer | DWP 55   | 1           | 65.093    | 0.000     | 0.0          | 0.0000        | 0.0000     | OK         |
| 15 minute winter | J51      | 11          | 65.044    | 0.052     | 3.2          | 0.0000        | 0.0000     | OK         |
| 15 minute winter | DWP 52   | 10          | 65.078    | 0.055     | 3.2          | 0.0100        | 0.0000     | OK         |
| 15 minute winter | SWIC 54  | 10          | 65.048    | 0.052     | 3.2          | 0.0083        | 0.0000     | OK         |
| 15 minute summer | DWP 53   | 1           | 64.997    | 0.000     | 0.0          | 0.0000        | 0.0000     | OK         |
| 15 minute winter | J52      | 12          | 64.981    | 0.059     | 3.1          | 0.0000        | 0.0000     | OK         |
| 15 minute winter | DWP 42   | 12          | 64.978    | 0.013     | 0.1          | 0.0000        | 0.0000     | OK         |
| 15 minute summer | DWP 54   | 1           | 64.983    | 0.000     | 0.0          | 0.0000        | 0.0000     | OK         |
| 15 minute winter | SWIC 52  | 12          | 64.977    | 0.110     | 9.5          | 0.0361        | 0.0000     | SURCHARGED |
| 15 minute winter | Common 5 | 10          | 64.808    | 0.058     | 9.1          | 0.0000        | 0.0000     | OK         |
| 15 minute summer | DWP 16   | 1           | 64.935    | 0.000     | 0.0          | 0.0000        | 0.0000     | OK         |
| 15 minute summer | DWP 11   | 1           | 64.960    | 0.000     | 0.0          | 0.0000        | 0.0000     | OK         |
| 15 minute winter | SWIC 14  | 10          | 64.914    | 0.047     | 3.2          | 0.0145        | 0.0000     | OK         |
| 15 minute summer | DWP 15   | 1           | 64.877    | 0.000     | 0.0          | 0.0000        | 0.0000     | OK         |
| 15 minute summer | SWIC 15  | 1           | 64.864    | 0.000     | 0.0          | 0.0000        | 0.0000     | OK         |
| 15 minute winter | Common 1 | 10          | 64.780    | 0.039     | 3.2          | 0.0000        | 0.0000     | OK         |
| 15 minute summer | DWP 43   | 1           | 64.940    | 0.000     | 0.0          | 0.0000        | 0.0000     | OK         |
| 15 minute summer | DWP 44   | 1           | 64.952    | 0.000     | 0.0          | 0.0000        | 0.0000     | OK         |
| 15 minute summer | SWIC 43  | 1           | 64.889    | 0.000     | 0.0          | 0.0000        | 0.0000     | OK         |
| 15 minute summer | Common 4 | 1           | 64.750    | 0.000     | 0.0          | 0.0000        | 0.0000     | OK         |
| 15 minute summer | DWP 35   | 1           | 64.718    | 0.000     | 0.0          | 0.0000        | 0.0000     | OK         |
| 15 minute summer | SWIC 32  | 1           | 64.698    | 0.000     | 0.0          | 0.0000        | 0.0000     | OK         |
| 15 minute winter | DWP 31   | 10          | 64.822    | 0.039     | 3.7          | 0.0084        | 0.0000     | OK         |
| 15 minute summer | DWP 36   | 1           | 64.768    | 0.000     | 0.0          | 0.0000        | 0.0000     | OK         |
| 15 minute winter | SWIC 33  | 10          | 64.686    | 0.057     | 3.7          | 0.0091        | 0.0000     | OK         |

| Link Event<br>(Upstream Depth) | US Node  | Link   | DS Node        | Outflow (l/s) | Velocity (m/s) | Flow/Cap | Link Vol (m³) |
|--------------------------------|----------|--------|----------------|---------------|----------------|----------|---------------|
| 15 minute summer               | DWP 55   | 14.000 | J51            | 0.0           | 0.000          | 0.000    | 0.0038        |
| 15 minute winter               | J51      | 10.004 | SWIC 52        | 3.2           | 0.519          | 0.528    | 0.0737        |
| 15 minute winter               | DWP 52   | 15.000 | SWIC 54        | 3.2           | 0.740          | 0.521    | 0.0114        |
| 15 minute winter               | SWIC 54  | 15.001 | J52            | 3.1           | 0.804          | 0.517    | 0.0326        |
| 15 minute summer               | DWP 53   | 16.000 | J52            | 0.0           | 0.000          | 0.000    | 0.0042        |
| 15 minute winter               | J52      | 15.002 | SWIC 52        | 3.1           | 0.527          | 0.452    | 0.0271        |
| 15 minute winter               | DWP 42   | 17.000 | SWIC 52        | 0.2           | 0.043          | 0.022    | 0.0163        |
| 15 minute summer               | DWP 54   | 18.000 | SWIC 52        | 0.0           | 0.000          | 0.000    | 0.0118        |
| 15 minute winter               | SWIC 52  | 10.005 | Common 5       | 9.1           | 1.433          | 1.058    | 0.0362        |
| 15 minute winter               | Common 5 | 10.006 | Common Collect | 9.1           | 1.926          | 0.635    | 0.0359        |
| 15 minute summer               | DWP 16   | 19.000 | SWIC 14        | 0.0           | 0.000          | 0.000    | 0.0119        |
| 15 minute summer               | DWP 11   | 20.000 | SWIC 14        | 0.0           | 0.000          | 0.000    | 0.0063        |
| 15 minute winter               | SWIC 14  | 19.001 | Common 1       | 3.2           | 0.990          | 0.416    | 0.0256        |
| 15 minute summer               | DWP 15   | 21.000 | SWIC 15        | 0.0           | 0.000          | 0.000    | 0.0000        |
| 15 minute summer               | SWIC 15  | 21.001 | Common 1       | 0.0           | 0.000          | 0.000    | 0.0168        |
| 15 minute winter               | Common 1 | 19.002 | Common Collect | 3.1           | 1.109          | 0.317    | 0.0441        |
| 15 minute summer               | DWP 43   | 22.000 | SWIC 43        | 0.0           | 0.000          | 0.000    | 0.0000        |
| 15 minute summer               | DWP 44   | 23.000 | SWIC 43        | 0.0           | 0.000          | 0.000    | 0.0000        |
| 15 minute summer               | SWIC 43  | 22.001 | Common 4       | 0.0           | 0.000          | 0.000    | 0.0000        |
| 15 minute summer               | Common 4 | 22.002 | Common Collect | 0.0           | 0.000          | 0.000    | 0.0095        |
| 15 minute summer               | DWP 35   | 24.000 | SWIC 32        | 0.0           | 0.000          | 0.000    | 0.0000        |
| 15 minute summer               | SWIC 32  | 24.001 | SWIC 33        | 0.0           | 0.000          | 0.000    | 0.0154        |
| 15 minute winter               | DWP 31   | 25.000 | SWIC 33        | 3.7           | 0.979          | 0.328    | 0.0170        |
| 15 minute summer               | DWP 36   | 26.000 | SWIC 33        | 0.0           | 0.000          | 0.000    | 0.0061        |
| 15 minute winter               | SWIC 33  | 24.002 | Common 3       | 3.6           | 0.916          | 0.600    | 0.0322        |

**Results for 100 year +50% CC Critical Storm Duration. Lowest mass balance: 99.62%**

| Node Event        | US Node         | Peak (mins) | Level (m) | Depth (m) | Inflow (l/s) | Node Vol (m³) | Flood (m³) | Status     |
|-------------------|-----------------|-------------|-----------|-----------|--------------|---------------|------------|------------|
| 15 minute winter  | Common 3        | 10          | 64.591    | 0.044     | 3.6          | 0.0000        | 0.0000     | OK         |
| 15 minute winter  | DWP 26          | 10          | 64.793    | 0.059     | 3.8          | 0.0116        | 0.0000     | OK         |
| 15 minute summer  | DWP 25          | 1           | 64.767    | 0.000     | 0.0          | 0.0000        | 0.0000     | OK         |
| 15 minute winter  | SWIC 25         | 10          | 64.747    | 0.052     | 3.7          | 0.0083        | 0.0000     | OK         |
| 15 minute summer  | DWP 21          | 1           | 64.779    | 0.000     | 0.0          | 0.0000        | 0.0000     | OK         |
| 15 minute summer  | DWP 27          | 1           | 64.827    | 0.000     | 0.0          | 0.0000        | 0.0000     | OK         |
| 15 minute summer  | SWIC 24         | 1           | 64.741    | 0.000     | 0.0          | 0.0000        | 0.0000     | OK         |
| 720 minute winter | Common 2        | 510         | 64.568    | 0.067     | 1.6          | 0.0000        | 0.0000     | OK         |
| 720 minute winter | Common Collect  | 525         | 64.560    | 0.354     | 3.9          | 0.0000        | 0.0000     | SURCHARGED |
| 960 minute winter | Common Soakaway | 690         | 64.555    | 0.373     | 3.8          | 37.5537       | 0.0000     | OK         |
| 600 minute winter | DWP 14          | 450         | 64.672    | 0.151     | 0.5          | 0.0291        | 0.0000     | SURCHARGED |
| 600 minute winter | SWIC 12         | 450         | 64.672    | 0.181     | 1.5          | 0.0287        | 0.0000     | SURCHARGED |
| 600 minute winter | DWP 13          | 450         | 64.672    | 0.092     | 0.1          | 0.0000        | 0.0000     | OK         |
| 600 minute winter | J11             | 450         | 64.672    | 0.258     | 0.5          | 0.0000        | 0.0000     | SURCHARGED |
| 600 minute winter | DWP 12          | 450         | 64.672    | 0.005     | 0.0          | 0.0000        | 0.0000     | OK         |
| 600 minute winter | SWIC 11         | 450         | 64.672    | 0.293     | 1.1          | 0.0465        | 0.0000     | SURCHARGED |
| 600 minute winter | Soak 1          | 450         | 64.672    | 0.343     | 0.4          | 3.2887        | 0.0000     | OK         |
| 720 minute winter | DWP 22          | 510         | 64.476    | 0.015     | 0.0          | 0.0000        | 0.0000     | OK         |
| 720 minute winter | SWIC 21         | 510         | 64.476    | 0.076     | 0.4          | 0.0257        | 0.0000     | OK         |
| 720 minute winter | DWP 23          | 510         | 64.476    | 0.077     | 0.0          | 0.0000        | 0.0000     | OK         |
| 720 minute winter | DWP 24          | 525         | 64.475    | 0.102     | 0.0          | 0.0000        | 0.0000     | SURCHARGED |
| 720 minute winter | SWIC 23         | 510         | 64.475    | 0.181     | 0.4          | 0.0289        | 0.0000     | SURCHARGED |
| 720 minute winter | Soak 2          | 510         | 64.476    | 0.362     | 0.4          | 3.4706        | 0.0000     | OK         |
| 960 minute winter | DWP 34          | 675         | 64.231    | 0.143     | 0.0          | 0.0000        | 0.0000     | SURCHARGED |
| 960 minute winter | SWIC 01         | 675         | 64.231    | 0.212     | 0.0          | 0.0336        | 0.0000     | SURCHARGED |

| Link Event<br>(Upstream Depth) | US Node         | Link         | DS Node         | Outflow (l/s) | Velocity (m/s) | Flow/Cap | Link Vol (m³) |
|--------------------------------|-----------------|--------------|-----------------|---------------|----------------|----------|---------------|
| 15 minute winter               | Common 3        | 24.003       | Common Collect  | 3.6           | 1.098          | 0.395    | 0.0313        |
| 15 minute winter               | DWP 26          | 27.000       | SWIC 25         | 3.7           | 0.836          | 0.620    | 0.0174        |
| 15 minute summer               | DWP 25          | 28.000       | SWIC 25         | 0.0           | 0.000          | 0.000    | 0.0024        |
| 15 minute winter               | SWIC 25         | 27.001       | Common 2        | 3.7           | 1.210          | 0.474    | 0.0358        |
| 15 minute summer               | DWP 21          | 29.000       | SWIC 24         | 0.0           | 0.000          | 0.000    | 0.0000        |
| 15 minute summer               | DWP 27          | 30.000       | SWIC 24         | 0.0           | 0.000          | 0.000    | 0.0000        |
| 15 minute summer               | SWIC 24         | 29.001       | Common 2        | 0.0           | 0.000          | 0.000    | 0.0000        |
| 720 minute winter              | Common 2        | 27.002       | Common Collect  | 1.9           | 0.938          | 0.104    | 0.0129        |
| 720 minute winter              | Common Collect  | 1.008        | Common Soakaway | 3.8           | 0.744          | 0.124    | 0.2698        |
| 960 minute winter              | Common Soakaway | Infiltration |                 | 0.9           |                |          |               |
| 600 minute winter              | DWP 14          | 31.000       | SWIC 12         | 1.5           | 0.512          | 0.145    | 0.0085        |
| 600 minute winter              | SWIC 12         | 31.001       | J11             | 0.5           | 0.401          | 0.077    | 0.0599        |
| 600 minute winter              | DWP 13          | 32.000       | J11             | -0.1          | -0.021         | -0.004   | 0.0105        |
| 600 minute winter              | J11             | 31.002       | SWIC 11         | 1.1           | 0.352          | 0.174    | 0.0267        |
| 600 minute winter              | DWP 12          | 33.000       | SWIC 11         | 0.0           | -0.006         | -0.001   | 0.0050        |
| 600 minute winter              | SWIC 11         | 31.003       | Soak 1          | 0.4           | 0.497          | 0.066    | 0.0383        |
| 600 minute winter              | Soak 1          | Infiltration |                 | 0.1           |                |          |               |
| 720 minute winter              | DWP 22          | 34.000       | SWIC 21         | 0.0           | 0.008          | -0.002   | 0.0079        |
| 720 minute winter              | SWIC 21         | 34.001       | SWIC 23         | 0.4           | 0.528          | 0.067    | 0.0742        |
| 720 minute winter              | DWP 23          | 35.000       | SWIC 23         | 0.0           | -0.005         | 0.004    | 0.0367        |
| 720 minute winter              | DWP 24          | 36.000       | SWIC 23         | 0.0           | 0.007          | 0.004    | 0.0167        |
| 720 minute winter              | SWIC 23         | 34.002       | Soak 2          | 0.4           | 0.667          | 0.030    | 0.0305        |
| 720 minute winter              | Soak 2          | Infiltration |                 | 0.1           |                |          |               |
| 960 minute winter              | DWP 34          | 37.000       | SWIC 01         | 0.0           | 0.008          | -0.002   | 0.0087        |
| 960 minute winter              | SWIC 01         | 37.001       | J31             | 0.0           | -0.007         | 0.008    | 0.0433        |

**Results for 100 year +50% CC Critical Storm Duration. Lowest mass balance: 99.62%**

| Node Event        | US<br>Node | Peak<br>(mins) | Level<br>(m) | Depth<br>(m) | Inflow<br>(l/s) | Node<br>Vol (m³) | Flood<br>(m³) | Status     |
|-------------------|------------|----------------|--------------|--------------|-----------------|------------------|---------------|------------|
| 15 minute summer  | DWP 33     | 1              | 64.312       | 0.000        | 0.0             | 0.0000           | 0.0000        | OK         |
| 960 minute winter | J31        | 690            | 64.231       | 0.268        | 0.1             | 0.0000           | 0.0000        | SURCHARGED |
| 15 minute summer  | DWP 32     | 1              | 64.368       | 0.000        | 0.0             | 0.0000           | 0.0000        | OK         |
| 960 minute winter | SWIC 34    | 675            | 64.231       | 0.317        | 0.4             | 0.0899           | 0.0000        | SURCHARGED |
| 960 minute winter | Soak 3     | 675            | 64.231       | 0.364        | 0.3             | 3.4905           | 0.0000        | OK         |
| 60 minute winter  | Perm 1     | 49             | 64.133       | 0.083        | 3.0             | 0.0238           | 0.0000        | OK         |
| 60 minute winter  | Perm 2     | 49             | 64.133       | 0.096        | 3.0             | 2.8807           | 0.0000        | OK         |

| Link Event<br>(Upstream Depth) | US<br>Node | Link         | DS<br>Node | Outflow<br>(l/s) | Velocity<br>(m/s) | Flow/Cap | Link<br>Vol (m³) |
|--------------------------------|------------|--------------|------------|------------------|-------------------|----------|------------------|
| 15 minute summer               | DWP 33     | 38.000       | J31        | 0.0              | 0.000             | 0.000    | 0.0018           |
| 960 minute winter              | J31        | 37.002       | SWIC 34    | -0.1             | -0.009            | -0.011   | 0.0379           |
| 15 minute summer               | DWP 32     | 39.000       | SWIC 34    | 0.0              | 0.000             | 0.000    | 0.0056           |
| 960 minute winter              | SWIC 34    | 37.003       | Soak 3     | 0.3              | 0.436             | 0.053    | 0.0361           |
| 960 minute winter              | Soak 3     | Infiltration |            | 0.1              |                   |          |                  |
| 60 minute winter               | Perm 1     | 40.000       | Perm 2     | 3.0              | 1.099             | 0.477    | 0.0090           |
| 60 minute winter               | Perm 2     | Infiltration |            | 0.7              |                   |          |                  |