

Design Settings

| | | | |
|-----------------------|-------------------|--------------------------------------|---------------|
| Rainfall Methodology | FSR | Maximum Time of Concentration (mins) | 30.00 |
| Return Period (years) | 1 | Maximum Rainfall (mm/hr) | 50.0 |
| 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) | 0.200 |
| Ratio-R | 0.400 | Preferred Cover Depth (m) | 1.200 |
| CV | 1.000 | Include Intermediate Ground | ✓ |
| Time of Entry (mins) | 5.00 | Enforce best practice design rules | ✓ |

Nodes

| Name | Area (ha) | T of E (mins) | Cover Level (m) | Diameter (mm) | Depth (m) |
|------|-----------|---------------|-----------------|---------------|-----------|
| 1 | 0.025 | 5.00 | 100.000 | 1200 | 2.000 |

Simulation Settings

| | | | |
|----------------------|-------------------|----------------------------|--------|
| Rainfall Methodology | FSR | Analysis Speed | Normal |
| FSR Region | England and Wales | Skip Steady State | x |
| M5-60 (mm) | 20.000 | Drain Down Time (mins) | 240 |
| Ratio-R | 0.400 | Additional Storage (m³/ha) | 0.0 |
| Summer CV | 1.000 | Check Discharge Rate(s) | x |
| Winter CV | 1.000 | Check Discharge Volume | x |

Storm Durations

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

| Return Period (years) | Climate Change (CC %) | Additional Area (A %) | Additional Flow (Q %) |
|-----------------------|-----------------------|-----------------------|-----------------------|
| 100 | 45 | 0 | 0 |

Node 1 Depth/Area Storage Structure

| | | | | | |
|-----------------------------|---------|---------------|------|---------------------------|--------|
| Base Inf Coefficient (m/hr) | 0.15000 | Safety Factor | 2.0 | Invert Level (m) | 98.000 |
| Side Inf Coefficient (m/hr) | 0.15000 | Porosity | 0.95 | Time to half empty (mins) | |

| Depth (m) | Area (m²) | Inf Area (m²) | Depth (m) | Area (m²) | Inf Area (m²) | Depth (m) | Area (m²) | Inf Area (m²) |
|-----------|-----------|---------------|-----------|-----------|---------------|-----------|-----------|---------------|
| 0.000 | 20.0 | 0.0 | 1.600 | 20.0 | 0.0 | 1.601 | 0.0 | 0.0 |

Results for 100 year +45% CC Critical Storm Duration. Lowest mass balance: 100.00%

| Node Event | US Node | Peak (mins) | Level (m) | Depth (m) | Inflow (l/s) | Node Vol (m ³) | Flood (m ³) | Status |
|--------------------|---------|-------------|-----------|-----------|--------------|----------------------------|-------------------------|--------|
| 1440 minute winter | 1 | 1440 | 99.520 | 1.520 | 0.9 | 30.5998 | 0.0000 | OK |

| Link Event | US Node | Link | Outflow (l/s) |
|--------------------|---------|--------------|---------------|
| 1440 minute winter | 1 | Infiltration | 0.0 |

Results for 100 year +45% CC 15 minute summer. 255 minute analysis at 1 minute timestep. Mass balance: 100.00%

| Node Event | US Node | Peak (mins) | Level (m) | Depth (m) | Inflow (l/s) | Node Vol (m ³) | Flood (m ³) | Status |
|------------------|---------|-------------|-----------|-----------|--------------|----------------------------|-------------------------|--------|
| 15 minute summer | 1 | 21 | 98.443 | 0.443 | 20.6 | 8.9204 | 0.0000 | OK |

| Link Event | US Node | Link | Outflow (l/s) |
|------------------|---------|--------------|---------------|
| 15 minute summer | 1 | Infiltration | 0.0 |

Results for 100 year +45% CC 15 minute winter. 255 minute analysis at 1 minute timestep. Mass balance: 100.00%

| Node Event | US Node | Peak (mins) | Level (m) | Depth (m) | Inflow (l/s) | Node Vol (m ³) | Flood (m ³) | Status |
|------------------|---------|-------------|-----------|-----------|--------------|----------------------------|-------------------------|--------|
| 15 minute winter | 1 | 21 | 98.443 | 0.443 | 19.4 | 8.9140 | 0.0000 | OK |

| Link Event | US Node | Link | Outflow (l/s) |
|------------------|---------|--------------|---------------|
| 15 minute winter | 1 | Infiltration | 0.0 |

Results for 100 year +45% CC 30 minute summer. 270 minute analysis at 1 minute timestep. Mass balance: 100.00%

| Node Event | US Node | Peak (mins) | Level (m) | Depth (m) | Inflow (l/s) | Node Vol (m ³) | Flood (m ³) | Status |
|------------------|---------|-------------|-----------|-----------|--------------|----------------------------|-------------------------|--------|
| 30 minute summer | 1 | 36 | 98.582 | 0.582 | 18.6 | 11.7247 | 0.0000 | OK |

| Link Event | US Node | Link | Outflow (l/s) |
|------------------|---------|--------------|---------------|
| 30 minute summer | 1 | Infiltration | 0.0 |

Results for 100 year +45% CC 30 minute winter. 270 minute analysis at 1 minute timestep. Mass balance: 100.00%

| Node Event | US Node | Peak (mins) | Level (m) | Depth (m) | Inflow (l/s) | Node Vol (m ³) | Flood (m ³) | Status |
|------------------|---------|-------------|-----------|-----------|--------------|----------------------------|-------------------------|--------|
| 30 minute winter | 1 | 36 | 98.584 | 0.584 | 15.0 | 11.7543 | 0.0000 | OK |

| Link Event | US Node | Link | Outflow (l/s) |
|------------------|---------|--------------|---------------|
| 30 minute winter | 1 | Infiltration | 0.0 |

Results for 100 year +45% CC 60 minute summer. 300 minute analysis at 1 minute timestep. Mass balance: 100.00%

| Node Event | US Node | Peak (mins) | Level (m) | Depth (m) | Inflow (l/s) | Node Vol (m ³) | Flood (m ³) | Status |
|------------------|---------|-------------|-----------|-----------|--------------|----------------------------|-------------------------|--------|
| 60 minute summer | 1 | 66 | 98.729 | 0.729 | 13.9 | 14.6795 | 0.0000 | OK |

| Link Event | US Node | Link | Outflow (l/s) |
|------------------|---------|--------------|---------------|
| 60 minute summer | 1 | Infiltration | 0.0 |

Results for 100 year +45% CC 60 minute winter. 300 minute analysis at 1 minute timestep. Mass balance: 100.00%

| Node Event | US Node | Peak (mins) | Level (m) | Depth (m) | Inflow (l/s) | Node Vol (m ³) | Flood (m ³) | Status |
|------------------|---------|-------------|-----------|-----------|--------------|----------------------------|-------------------------|--------|
| 60 minute winter | 1 | 66 | 98.730 | 0.730 | 10.0 | 14.6971 | 0.0000 | OK |

| Link Event | US Node | Link | Outflow (l/s) |
|------------------|---------|--------------|---------------|
| 60 minute winter | 1 | Infiltration | 0.0 |

Results for 100 year +45% CC 120 minute summer. 360 minute analysis at 2 minute timestep. Mass balance: 100.00%

| Node Event | US Node | Peak (mins) | Level (m) | Depth (m) | Inflow (l/s) | Node Vol (m ³) | Flood (m ³) | Status |
|-------------------|---------|-------------|-----------|-----------|--------------|----------------------------|-------------------------|--------|
| 120 minute summer | 1 | 128 | 98.880 | 0.880 | 8.9 | 17.7185 | 0.0000 | OK |

| Link Event | US Node | Link | Outflow (l/s) |
|-------------------|---------|--------------|---------------|
| 120 minute summer | 1 | Infiltration | 0.0 |

Results for 100 year +45% CC 120 minute winter. 360 minute analysis at 2 minute timestep. Mass balance: 100.00%

| Node Event | US Node | Peak (mins) | Level (m) | Depth (m) | Inflow (l/s) | Node Vol (m ³) | Flood (m ³) | Status |
|-------------------|---------|-------------|-----------|-----------|--------------|----------------------------|-------------------------|--------|
| 120 minute winter | 1 | 126 | 98.881 | 0.881 | 6.1 | 17.7301 | 0.0000 | OK |

| Link Event | US Node | Link | Outflow (l/s) |
|-------------------|---------|--------------|---------------|
| 120 minute winter | 1 | Infiltration | 0.0 |

Results for 100 year +45% CC 180 minute summer. 420 minute analysis at 4 minute timestep. Mass balance: 100.00%

| Node Event | US Node | Peak (mins) | Level (m) | Depth (m) | Inflow (l/s) | Node Vol (m ³) | Flood (m ³) | Status |
|-------------------|---------|-------------|-----------|-----------|--------------|----------------------------|-------------------------|--------|
| 180 minute summer | 1 | 192 | 98.964 | 0.964 | 6.6 | 19.4045 | 0.0000 | OK |

| Link Event | US Node | Link | Outflow (l/s) |
|-------------------|---------|--------------|---------------|
| 180 minute summer | 1 | Infiltration | 0.0 |

Results for 100 year +45% CC 180 minute winter. 420 minute analysis at 4 minute timestep. Mass balance: 100.00%

| Node Event | US Node | Peak (mins) | Level (m) | Depth (m) | Inflow (l/s) | Node Vol (m ³) | Flood (m ³) | Status |
|-------------------|---------|-------------|-----------|-----------|--------------|----------------------------|-------------------------|--------|
| 180 minute winter | 1 | 188 | 98.970 | 0.970 | 4.5 | 19.5241 | 0.0000 | OK |

| Link Event | US Node | Link | Outflow (l/s) |
|-------------------|---------|--------------|---------------|
| 180 minute winter | 1 | Infiltration | 0.0 |

Results for 100 year +45% CC 240 minute summer. 480 minute analysis at 4 minute timestep. Mass balance: 100.00%

| Node Event | US Node | Peak (mins) | Level (m) | Depth (m) | Inflow (l/s) | Node Vol (m ³) | Flood (m ³) | Status |
|-------------------|---------|-------------|-----------|-----------|--------------|----------------------------|-------------------------|--------|
| 240 minute summer | 1 | 248 | 99.030 | 1.030 | 5.5 | 20.7363 | 0.0000 | OK |

| Link Event | US Node | Link | Outflow (l/s) |
|-------------------|---------|--------------|---------------|
| 240 minute summer | 1 | Infiltration | 0.0 |

Results for 100 year +45% CC 240 minute winter. 480 minute analysis at 4 minute timestep. Mass balance: 100.00%

| Node Event | US Node | Peak (mins) | Level (m) | Depth (m) | Inflow (l/s) | Node Vol (m ³) | Flood (m ³) | Status |
|-------------------|---------|-------------|-----------|-----------|--------------|----------------------------|-------------------------|--------|
| 240 minute winter | 1 | 248 | 99.032 | 1.032 | 3.6 | 20.7721 | 0.0000 | OK |

| Link Event | US Node | Link | Outflow (l/s) |
|-------------------|---------|--------------|---------------|
| 240 minute winter | 1 | Infiltration | 0.0 |

Results for 100 year +45% CC 360 minute summer. 600 minute analysis at 8 minute timestep. Mass balance: 100.00%

| Node Event | US Node | Peak (mins) | Level (m) | Depth (m) | Inflow (l/s) | Node Vol (m ³) | Flood (m ³) | Status |
|-------------------|---------|-------------|-----------|-----------|--------------|----------------------------|-------------------------|--------|
| 360 minute summer | 1 | 368 | 99.129 | 1.129 | 4.1 | 22.7285 | 0.0000 | OK |

| Link Event | US Node | Link | Outflow (l/s) |
|-------------------|---------|--------------|---------------|
| 360 minute summer | 1 | Infiltration | 0.0 |

Results for 100 year +45% CC 360 minute winter. 600 minute analysis at 8 minute timestep. Mass balance: 100.00%

| Node Event | US Node | Peak (mins) | Level (m) | Depth (m) | Inflow (l/s) | Node Vol (m ³) | Flood (m ³) | Status |
|-------------------|---------|-------------|-----------|-----------|--------------|----------------------------|-------------------------|--------|
| 360 minute winter | 1 | 376 | 99.129 | 1.129 | 2.6 | 22.7281 | 0.0000 | OK |

| Link Event | US Node | Link | Outflow (l/s) |
|-------------------|---------|--------------|---------------|
| 360 minute winter | 1 | Infiltration | 0.0 |

Results for 100 year +45% CC 480 minute summer. 720 minute analysis at 8 minute timestep. Mass balance: 100.00%

| Node Event | US Node | Peak (mins) | Level (m) | Depth (m) | Inflow (l/s) | Node Vol (m ³) | Flood (m ³) | Status |
|-------------------|---------|-------------|-----------|-----------|--------------|----------------------------|-------------------------|--------|
| 480 minute summer | 1 | 496 | 99.193 | 1.193 | 3.2 | 24.0245 | 0.0000 | OK |

| Link Event | US Node | Link | Outflow (l/s) |
|-------------------|---------|--------------|---------------|
| 480 minute summer | 1 | Infiltration | 0.0 |

Results for 100 year +45% CC 480 minute winter. 720 minute analysis at 8 minute timestep. Mass balance: 100.00%

| Node Event | US Node | Peak (mins) | Level (m) | Depth (m) | Inflow (l/s) | Node Vol (m ³) | Flood (m ³) | Status |
|-------------------|---------|-------------|-----------|-----------|--------------|----------------------------|-------------------------|--------|
| 480 minute winter | 1 | 488 | 99.196 | 1.196 | 2.1 | 24.0721 | 0.0000 | OK |

| Link Event | US Node | Link | Outflow (l/s) |
|-------------------|---------|--------------|---------------|
| 480 minute winter | 1 | Infiltration | 0.0 |

Results for 100 year +45% CC 600 minute summer. 840 minute analysis at 15 minute timestep. Mass balance: 100.00%

| Node Event | US Node | Peak (mins) | Level (m) | Depth (m) | Inflow (l/s) | Node Vol (m ³) | Flood (m ³) | Status |
|-------------------|---------|-------------|-----------|-----------|--------------|----------------------------|-------------------------|--------|
| 600 minute summer | 1 | 615 | 99.256 | 1.256 | 2.6 | 25.2903 | 0.0000 | OK |

| Link Event | US Node | Link | Outflow (l/s) |
|-------------------|---------|--------------|---------------|
| 600 minute summer | 1 | Infiltration | 0.0 |

Results for 100 year +45% CC 600 minute winter. 840 minute analysis at 15 minute timestep. Mass balance: 100.00%

| Node Event | US Node | Peak (mins) | Level (m) | Depth (m) | Inflow (l/s) | Node Vol (m ³) | Flood (m ³) | Status |
|-------------------|---------|-------------|-----------|-----------|--------------|----------------------------|-------------------------|--------|
| 600 minute winter | 1 | 615 | 99.259 | 1.259 | 1.7 | 25.3351 | 0.0000 | OK |

| Link Event | US Node | Link | Outflow (l/s) |
|-------------------|---------|--------------|---------------|
| 600 minute winter | 1 | Infiltration | 0.0 |

Results for 100 year +45% CC 720 minute summer. 960 minute analysis at 15 minute timestep. Mass balance: 100.00%

| Node Event | US Node | Peak (mins) | Level (m) | Depth (m) | Inflow (l/s) | Node Vol (m ³) | Flood (m ³) | Status |
|-------------------|---------|-------------|-----------|-----------|--------------|----------------------------|-------------------------|--------|
| 720 minute summer | 1 | 735 | 99.292 | 1.292 | 2.3 | 26.0103 | 0.0000 | OK |

| Link Event | US Node | Link | Outflow (l/s) |
|-------------------|---------|--------------|---------------|
| 720 minute summer | 1 | Infiltration | 0.0 |

Results for 100 year +45% CC 720 minute winter. 960 minute analysis at 15 minute timestep. Mass balance: 100.00%

| Node Event | US Node | Peak (mins) | Level (m) | Depth (m) | Inflow (l/s) | Node Vol (m ³) | Flood (m ³) | Status |
|-------------------|---------|-------------|-----------|-----------|--------------|----------------------------|-------------------------|--------|
| 720 minute winter | 1 | 735 | 99.330 | 1.330 | 1.5 | 26.7751 | 0.0000 | OK |

| Link Event | US Node | Link | Outflow (l/s) |
|-------------------|---------|--------------|---------------|
| 720 minute winter | 1 | Infiltration | 0.0 |

Results for 100 year +45% CC 960 minute summer. 1200 minute analysis at 15 minute timestep. Mass balance: 100.00%

| Node Event | US Node | Peak (mins) | Level (m) | Depth (m) | Inflow (l/s) | Node Vol (m ³) | Flood (m ³) | Status |
|-------------------|---------|-------------|-----------|-----------|--------------|----------------------------|-------------------------|--------|
| 960 minute summer | 1 | 975 | 99.381 | 1.381 | 1.8 | 27.8103 | 0.0000 | OK |

| Link Event | US Node | Link | Outflow (l/s) |
|-------------------|---------|--------------|---------------|
| 960 minute summer | 1 | Infiltration | 0.0 |

Results for 100 year +45% CC 960 minute winter. 1200 minute analysis at 15 minute timestep. Mass balance: 100.00%

| Node Event | US Node | Peak (mins) | Level (m) | Depth (m) | Inflow (l/s) | Node Vol (m ³) | Flood (m ³) | Status |
|-------------------|---------|-------------|-----------|-----------|--------------|----------------------------|-------------------------|--------|
| 960 minute winter | 1 | 960 | 99.368 | 1.368 | 1.2 | 27.5399 | 0.0000 | OK |

| Link Event | US Node | Link | Outflow (l/s) |
|-------------------|---------|--------------|---------------|
| 960 minute winter | 1 | Infiltration | 0.0 |

Results for 100 year +45% CC 1440 minute summer. 1680 minute analysis at 30 minute timestep. Mass balance: 100.00%

| Node Event | US Node | Peak (mins) | Level (m) | Depth (m) | Inflow (l/s) | Node Vol (m ³) | Flood (m ³) | Status |
|--------------------|---------|-------------|-----------|-----------|--------------|----------------------------|-------------------------|--------|
| 1440 minute summer | 1 | 1470 | 99.480 | 1.480 | 1.3 | 29.7900 | 0.0000 | OK |

| Link Event | US Node | Link | Outflow (l/s) |
|--------------------|---------|--------------|---------------|
| 1440 minute summer | 1 | Infiltration | 0.0 |

Results for 100 year +45% CC 1440 minute winter. 1680 minute analysis at 30 minute timestep. Mass balance: 100.00%

| Node Event | US Node | Peak (mins) | Level (m) | Depth (m) | Inflow (l/s) | Node Vol (m ³) | Flood (m ³) | Status |
|--------------------|---------|-------------|-----------|-----------|--------------|----------------------------|-------------------------|--------|
| 1440 minute winter | 1 | 1440 | 99.520 | 1.520 | 0.9 | 30.5998 | 0.0000 | OK |

| Link Event | US Node | Link | Outflow (l/s) |
|--------------------|---------|--------------|---------------|
| 1440 minute winter | 1 | Infiltration | 0.0 |