

### Design Settings

|                                      |        |                                    |               |
|--------------------------------------|--------|------------------------------------|---------------|
| Rainfall Methodology                 | FEH-22 | Minimum Velocity (m/s)             | 1.00          |
| Return Period (years)                | 100    | Connection Type                    | Level Soffits |
| Additional Flow (%)                  | 10     | Minimum Backdrop Height (m)        | 0.200         |
| CV                                   | 1.000  | Preferred Cover Depth (m)          | 1.200         |
| Time of Entry (mins)                 | 5.00   | Include Intermediate Ground        | ✓             |
| Maximum Time of Concentration (mins) | 30.00  | Enforce best practice design rules | ✓             |
| Maximum Rainfall (mm/hr)             | 50.0   |                                    |               |

### Nodes

| Name   | Area<br>(ha) | Cover<br>Level<br>(m) | Easting<br>(m) | Northing<br>(m) | Depth<br>(m) |
|--------|--------------|-----------------------|----------------|-----------------|--------------|
| Type C | 0.005        | 13.000                | 17.233         | 60.999          | 3.000        |

### Simulation Settings

|                      |          |                            |          |                         |   |
|----------------------|----------|----------------------------|----------|-------------------------|---|
| Rainfall Methodology | FEH-22   | Analysis Speed             | Detailed | Starting Level (m)      |   |
| Rainfall Events      | Singular | Skip Steady State          | x        | Check Discharge Rate(s) | x |
| Summer CV            | 1.000    | Drain Down Time (mins)     | 1440     | Check Discharge Volume  | x |
| Winter CV            | 1.000    | Additional Storage (m³/ha) | 0.0      |                         |   |

### Storm Durations

|    |    |    |     |     |     |     |     |     |     |     |      |      |
|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|
| 15 | 30 | 60 | 120 | 180 | 240 | 360 | 480 | 600 | 720 | 960 | 1440 | 2160 |
|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|

| Return Period<br>(years) | Climate Change<br>(CC %) | Additional Area<br>(A %) | Additional Flow<br>(Q %) |
|--------------------------|--------------------------|--------------------------|--------------------------|
| 2                        | 0                        | 0                        | 0                        |
| 10                       | 0                        | 0                        | 0                        |
| 30                       | 40                       | 10                       | 0                        |
| 100                      | 45                       | 10                       | 0                        |

### Node Type C Soakaway Storage Structure

|                             |         |                           |        |                 |       |
|-----------------------------|---------|---------------------------|--------|-----------------|-------|
| Base Inf Coefficient (m/hr) | 0.00000 | Invert Level (m)          | 10.000 | Depth (m)       | 2.000 |
| Side Inf Coefficient (m/hr) | 0.01910 | Time to half empty (mins) | 2558   | Inf Depth (m)   | 2.000 |
| Safety Factor               | 2.0     | Pit Width (m)             | 2.000  | Number Required | 1     |
| Porosity                    | 0.95    | Pit Length (m)            | 1.500  |                 |       |

**Results for 2 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 (m <sup>3</sup> ) | Flood<br>(m <sup>3</sup> ) | Status |
|-------------------|------------|----------------|--------------|--------------|-----------------|-------------------------------|----------------------------|--------|
| 960 minute winter | Type C     | 615            | 10.481       | 0.481        | 0.1             | 1.3698                        | 0.0000                     | OK     |

| Link Event<br>(Upstream Depth) | US<br>Node | Link         | Outflow<br>(l/s) |
|--------------------------------|------------|--------------|------------------|
| 960 minute winter              | Type C     | Infiltration | 0.0              |

**Results for 10 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 |
|--------------------|------------|----------------|--------------|--------------|-----------------|------------------|---------------|--------|
| 1440 minute winter | Type C     | 960            | 10.810       | 0.810        | 0.1             | 2.3098           | 0.0000        | OK     |

| Link Event<br>(Upstream Depth) | US<br>Node | Link         | Outflow<br>(l/s) |
|--------------------------------|------------|--------------|------------------|
| 1440 minute winter             | Type C     | Infiltration | 0.0              |

**Results for 30 year +40% CC +10% A 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 (m <sup>3</sup> ) | Flood<br>(m <sup>3</sup> ) | Status |
|-------------------|------------|----------------|--------------|--------------|-----------------|-------------------------------|----------------------------|--------|
| 720 minute winter | Type C     | 675            | 11.739       | 1.739        | 0.3             | 4.9567                        | 0.0000                     | OK     |

| Link Event<br>(Upstream Depth) | US<br>Node | Link         | Outflow<br>(l/s) |
|--------------------------------|------------|--------------|------------------|
| 720 minute winter              | Type C     | Infiltration | 0.0              |

**Results for 100 year +45% CC +10% A 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 (m <sup>3</sup> ) | Flood<br>(m <sup>3</sup> ) | Status |
|-------------------|------------|----------------|--------------|--------------|-----------------|-------------------------------|----------------------------|--------|
| 720 minute summer | Type C     | 735            | 12.871       | 2.871        | 0.6             | 5.7014                        | 0.0000                     | OK     |

| Link Event<br>(Upstream Depth) | US<br>Node | Link         | Outflow<br>(l/s) |
|--------------------------------|------------|--------------|------------------|
| 720 minute summer              | Type C     | Infiltration | 0.0              |