

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)
S1	0.017	5.00	9.300	1500	1.050

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)	20.0
Summer CV	0.750	Check Discharge Rate(s)	x
Winter CV	0.840	Check Discharge Volume	x

Storm Durations

15	30	60	120	180	240	360	480	600	720	960	1440
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Return Period (years)	Climate Change (CC %)	Additional Area (A %)	Additional Flow (Q %)
1	0	0	0
30	0	0	0
100	45	0	0

Node S1 Online Orifice Control

Flap Valve	x	Design Depth (m)	0.800	Discharge Coefficient	0.600
Replaces Downstream Link	✓	Design Flow (l/s)	0.5		
Invert Level (m)	8.250	Diameter (m)	0.016		

Node S1 Depth/Area Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Safety Factor	2.0	Invert Level (m)	8.250
Side Inf Coefficient (m/hr)	0.00000	Porosity	1.00	Time to half empty (mins)	240

Depth (m)	Area (m²)	Inf Area (m²)	Depth (m)	Area (m²)	Inf Area (m²)	Depth (m)	Area (m²)	Inf Area (m²)
0.000	16.0	0.0	0.500	16.0	0.0	0.501	0.0	0.0

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 (m ³)	Flood (m ³)	Status
240 minute winter	S1	176	8.344	0.094	0.5	1.7082	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	Outflow (l/s)	Discharge Vol (m ³)
240 minute winter	S1	Orifice	0.2	2.6

Results for 30 year 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
240 minute winter	S1	184	8.484	0.234	1.1	4.2308	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	Outflow (l/s)	Discharge Vol (m ³)
240 minute winter	S1	Orifice	0.3	5.0

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
240 minute winter	S1	220	8.733	0.483	2.1	8.7319	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	Outflow (l/s)	Discharge Vol (m ³)
240 minute winter	S1	Orifice	0.4	7.8

Results for 1 year 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	S1	19	8.301	0.051	2.3	0.9309	0.0000	OK

Link Event	US Node	Link	Outflow (l/s)	Discharge Vol (m ³)
15 minute summer	S1	Orifice	0.1	0.9

Results for 1 year 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	S1	19	8.308	0.058	2.4	1.0510	0.0000	OK

Link Event	US Node	Link	Outflow (l/s)	Discharge Vol (m ³)
15 minute winter	S1	Orifice	0.1	1.0

Results for 1 year 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	S1	32	8.314	0.064	2.0	1.1622	0.0000	OK

Link Event	US Node	Link	Outflow (l/s)	Discharge Vol (m ³)
30 minute summer	S1	Orifice	0.1	1.1

Results for 1 year 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	S1	32	8.322	0.072	1.8	1.2959	0.0000	OK

Link Event	US Node	Link	Outflow (l/s)	Discharge Vol (m ³)
30 minute winter	S1	Orifice	0.1	1.3

Results for 1 year 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	S1	61	8.326	0.076	1.5	1.3714	0.0000	OK

Link Event	US Node	Link	Outflow (l/s)	Discharge Vol (m ³)
60 minute summer	S1	Orifice	0.1	1.5

Results for 1 year 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	S1	60	8.332	0.082	1.2	1.4862	0.0000	OK

Link Event	US Node	Link	Outflow (l/s)	Discharge Vol (m ³)
60 minute winter	S1	Orifice	0.1	1.6

Results for 1 year 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	S1	94	8.330	0.080	1.0	1.4470	0.0000	OK

Link Event	US Node	Link	Outflow (l/s)	Discharge Vol (m ³)
120 minute summer	S1	Orifice	0.1	1.8

Results for 1 year 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	S1	98	8.340	0.090	0.8	1.6282	0.0000	OK

Link Event	US Node	Link	Outflow (l/s)	Discharge Vol (m ³)
120 minute winter	S1	Orifice	0.2	2.0

Results for 1 year 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	S1	132	8.332	0.082	0.8	1.4809	0.0000	OK

Link Event	US Node	Link	Outflow (l/s)	Discharge Vol (m ³)
180 minute summer	S1	Orifice	0.1	2.1

Results for 1 year 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	S1	136	8.341	0.091	0.6	1.6480	0.0000	OK

Link Event	US Node	Link	Outflow (l/s)	Discharge Vol (m ³)
180 minute winter	S1	Orifice	0.2	2.3

Results for 1 year 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	S1	164	8.335	0.085	0.7	1.5364	0.0000	OK

Link Event	US Node	Link	Outflow (l/s)	Discharge Vol (m ³)
240 minute summer	S1	Orifice	0.1	2.5

Results for 1 year 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	S1	176	8.344	0.094	0.5	1.7082	0.0000	OK

Link Event	US Node	Link	Outflow (l/s)	Discharge Vol (m ³)
240 minute winter	S1	Orifice	0.2	2.6

Results for 1 year 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	S1	232	8.330	0.080	0.5	1.4538	0.0000	OK

Link Event	US Node	Link	Outflow (l/s)	Discharge Vol (m ³)
360 minute summer	S1	Orifice	0.1	2.6

Results for 1 year 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	S1	248	8.340	0.090	0.4	1.6198	0.0000	OK

Link Event	US Node	Link	Outflow (l/s)	Discharge Vol (m ³)
360 minute winter	S1	Orifice	0.2	3.2

Results for 1 year 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	S1	304	8.329	0.079	0.4	1.4255	0.0000	OK

Link Event	US Node	Link	Outflow (l/s)	Discharge Vol (m ³)
480 minute summer	S1	Orifice	0.1	2.7

Results for 1 year 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	S1	320	8.335	0.085	0.3	1.5338	0.0000	OK

Link Event	US Node	Link	Outflow (l/s)	Discharge Vol (m ³)
480 minute winter	S1	Orifice	0.1	3.5

Results for 1 year 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	S1	375	8.324	0.074	0.3	1.3478	0.0000	OK

Link Event	US Node	Link	Outflow (l/s)	Discharge Vol (m ³)
600 minute summer	S1	Orifice	0.1	2.6

Results for 1 year 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	S1	390	8.318	0.068	0.2	1.2366	0.0000	OK

Link Event	US Node	Link	Outflow (l/s)	Discharge Vol (m ³)
600 minute winter	S1	Orifice	0.1	3.0

Results for 1 year 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	S1	435	8.318	0.068	0.3	1.2299	0.0000	OK

Link Event	US Node	Link	Outflow (l/s)	Discharge Vol (m ³)
720 minute summer	S1	Orifice	0.1	2.7

Results for 1 year 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	S1	450	8.319	0.069	0.2	1.2517	0.0000	OK

Link Event	US Node	Link	Outflow (l/s)	Discharge Vol (m ³)
720 minute winter	S1	Orifice	0.1	3.2

Results for 1 year 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	S1	555	8.311	0.061	0.2	1.1111	0.0000	OK

Link Event	US Node	Link	Outflow (l/s)	Discharge Vol (m ³)
960 minute summer	S1	Orifice	0.1	2.7

Results for 1 year 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	S1	555	8.315	0.065	0.2	1.1701	0.0000	OK

Link Event	US Node	Link	Outflow (l/s)	Discharge Vol (m ³)
960 minute winter	S1	Orifice	0.1	3.4

Results for 1 year 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	S1	780	8.300	0.050	0.2	0.8974	0.0000	OK

Link Event	US Node	Link	Outflow (l/s)	Discharge Vol (m ³)
1440 minute summer	S1	Orifice	0.1	2.9

Results for 1 year 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	S1	990	8.291	0.041	0.1	0.7335	0.0000	OK

Link Event	US Node	Link	Outflow (l/s)	Discharge Vol (m ³)
1440 minute winter	S1	Orifice	0.1	3.2

Results for 30 year 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	S1	19	8.377	0.127	5.6	2.2977	0.0000	OK

Link Event	US Node	Link	Outflow (l/s)	Discharge Vol (m ³)
15 minute summer	S1	Orifice	0.2	1.9

Results for 30 year 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	S1	19	8.392	0.142	5.9	2.5772	0.0000	OK

Link Event	US Node	Link	Outflow (l/s)	Discharge Vol (m ³)
15 minute winter	S1	Orifice	0.2	2.1

Results for 30 year 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	S1	33	8.411	0.161	5.0	2.9214	0.0000	OK

Link Event	US Node	Link	Outflow (l/s)	Discharge Vol (m ³)
30 minute summer	S1	Orifice	0.2	2.4

Results for 30 year 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	S1	33	8.432	0.182	4.5	3.2881	0.0000	OK

Link Event	US Node	Link	Outflow (l/s)	Discharge Vol (m ³)
30 minute winter	S1	Orifice	0.2	2.6

Results for 30 year 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	S1	62	8.439	0.189	3.7	3.4222	0.0000	OK

Link Event	US Node	Link	Outflow (l/s)	Discharge Vol (m ³)
60 minute summer	S1	Orifice	0.2	2.9

Results for 30 year 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	S1	61	8.462	0.212	3.0	3.8274	0.0000	OK

Link Event	US Node	Link	Outflow (l/s)	Discharge Vol (m ³)
60 minute winter	S1	Orifice	0.2	3.2

Results for 30 year 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	S1	110	8.455	0.205	2.4	3.7102	0.0000	OK

Link Event	US Node	Link	Outflow (l/s)	Discharge Vol (m ³)
120 minute summer	S1	Orifice	0.2	3.6

Results for 30 year 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	S1	116	8.477	0.227	1.8	4.1151	0.0000	OK

Link Event	US Node	Link	Outflow (l/s)	Discharge Vol (m ³)
120 minute winter	S1	Orifice	0.3	3.9

Results for 30 year 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	S1	144	8.458	0.208	1.8	3.7588	0.0000	OK

Link Event	US Node	Link	Outflow (l/s)	Discharge Vol (m ³)
180 minute summer	S1	Orifice	0.2	4.2

Results for 30 year 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	S1	148	8.483	0.233	1.4	4.2199	0.0000	OK

Link Event	US Node	Link	Outflow (l/s)	Discharge Vol (m ³)
180 minute winter	S1	Orifice	0.3	4.5

Results for 30 year 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	S1	176	8.454	0.204	1.5	3.6861	0.0000	OK

Link Event	US Node	Link	Outflow (l/s)	Discharge Vol (m ³)
240 minute summer	S1	Orifice	0.2	4.6

Results for 30 year 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	S1	184	8.484	0.234	1.1	4.2308	0.0000	OK

Link Event	US Node	Link	Outflow (l/s)	Discharge Vol (m ³)
240 minute winter	S1	Orifice	0.3	5.0

Results for 30 year 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	S1	248	8.450	0.200	1.1	3.6152	0.0000	OK

Link Event	US Node	Link	Outflow (l/s)	Discharge Vol (m ³)
360 minute summer	S1	Orifice	0.2	5.3

Results for 30 year 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	S1	264	8.465	0.215	0.8	3.8974	0.0000	OK

Link Event	US Node	Link	Outflow (l/s)	Discharge Vol (m ³)
360 minute winter	S1	Orifice	0.2	5.6

Results for 30 year 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	S1	312	8.438	0.188	0.9	3.3988	0.0000	OK

Link Event	US Node	Link	Outflow (l/s)	Discharge Vol (m ³)
480 minute summer	S1	Orifice	0.2	6.0

Results for 30 year 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	S1	344	8.459	0.209	0.6	3.7901	0.0000	OK

Link Event	US Node	Link	Outflow (l/s)	Discharge Vol (m ³)
480 minute winter	S1	Orifice	0.2	6.5

Results for 30 year 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	S1	390	8.442	0.192	0.7	3.4656	0.0000	OK

Link Event	US Node	Link	Outflow (l/s)	Discharge Vol (m ³)
600 minute summer	S1	Orifice	0.2	6.9

Results for 30 year 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	S1	420	8.451	0.201	0.5	3.6278	0.0000	OK

Link Event	US Node	Link	Outflow (l/s)	Discharge Vol (m ³)
600 minute winter	S1	Orifice	0.2	7.2

Results for 30 year 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	S1	450	8.430	0.180	0.6	3.2495	0.0000	OK

Link Event	US Node	Link	Outflow (l/s)	Discharge Vol (m ³)
720 minute summer	S1	Orifice	0.2	7.5

Results for 30 year 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	S1	480	8.439	0.189	0.5	3.4164	0.0000	OK

Link Event	US Node	Link	Outflow (l/s)	Discharge Vol (m ³)
720 minute winter	S1	Orifice	0.2	7.7

Results for 30 year 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	S1	570	8.408	0.158	0.5	2.8614	0.0000	OK

Link Event	US Node	Link	Outflow (l/s)	Discharge Vol (m ³)
960 minute summer	S1	Orifice	0.2	7.6

Results for 30 year 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	S1	600	8.422	0.172	0.4	3.1199	0.0000	OK

Link Event	US Node	Link	Outflow (l/s)	Discharge Vol (m ³)
960 minute winter	S1	Orifice	0.2	9.0

Results for 30 year 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	S1	870	8.387	0.137	0.4	2.4840	0.0000	OK

Link Event	US Node	Link	Outflow (l/s)	Discharge Vol (m ³)
1440 minute summer	S1	Orifice	0.2	7.2

Results for 30 year 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	S1	930	8.384	0.134	0.3	2.4260	0.0000	OK

Link Event	US Node	Link	Outflow (l/s)	Discharge Vol (m ³)
1440 minute winter	S1	Orifice	0.2	8.6

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	S1	19	8.491	0.241	10.5	4.3599	0.0000	OK

Link Event	US Node	Link	Outflow (l/s)	Discharge Vol (m ³)
15 minute summer	S1	Orifice	0.3	3.0

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	S1	19	8.522	0.272	11.1	4.9119	0.0000	OK

Link Event	US Node	Link	Outflow (l/s)	Discharge Vol (m ³)
15 minute winter	S1	Orifice	0.3	3.3

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	S1	34	8.561	0.311	9.5	5.6253	0.0000	OK

Link Event	US Node	Link	Outflow (l/s)	Discharge Vol (m ³)
30 minute summer	S1	Orifice	0.3	3.7

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	S1	33	8.601	0.351	8.6	6.3422	0.0000	OK

Link Event	US Node	Link	Outflow (l/s)	Discharge Vol (m ³)
30 minute winter	S1	Orifice	0.3	4.0

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	S1	63	8.623	0.373	7.1	6.7501	0.0000	OK

Link Event	US Node	Link	Outflow (l/s)	Discharge Vol (m ³)
60 minute summer	S1	Orifice	0.3	4.5

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	S1	62	8.670	0.420	5.7	7.5905	0.0000	OK

Link Event	US Node	Link	Outflow (l/s)	Discharge Vol (m ³)
60 minute winter	S1	Orifice	0.3	4.9

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	S1	122	8.664	0.414	4.5	7.4832	0.0000	OK

Link Event	US Node	Link	Outflow (l/s)	Discharge Vol (m ³)
120 minute summer	S1	Orifice	0.3	5.6

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	S1	118	8.719	0.469	3.5	8.4873	0.0000	OK

Link Event	US Node	Link	Outflow (l/s)	Discharge Vol (m ³)
120 minute winter	S1	Orifice	0.4	6.0

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	S1	164	8.671	0.421	3.3	7.6241	0.0000	OK

Link Event	US Node	Link	Outflow (l/s)	Discharge Vol (m ³)
180 minute summer	S1	Orifice	0.3	6.4

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	S1	172	8.733	0.483	2.6	8.7303	0.0000	OK

Link Event	US Node	Link	Outflow (l/s)	Discharge Vol (m ³)
180 minute winter	S1	Orifice	0.4	6.9

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	S1	196	8.669	0.419	2.8	7.5849	0.0000	OK

Link Event	US Node	Link	Outflow (l/s)	Discharge Vol (m ³)
240 minute summer	S1	Orifice	0.3	7.2

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	S1	220	8.733	0.483	2.1	8.7319	0.0000	OK

Link Event	US Node	Link	Outflow (l/s)	Discharge Vol (m ³)
240 minute winter	S1	Orifice	0.4	7.8

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	S1	264	8.669	0.419	2.1	7.5890	0.0000	OK

Link Event	US Node	Link	Outflow (l/s)	Discharge Vol (m ³)
360 minute summer	S1	Orifice	0.3	8.6

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	S1	272	8.724	0.474	1.5	8.5716	0.0000	OK

Link Event	US Node	Link	Outflow (l/s)	Discharge Vol (m ³)
360 minute winter	S1	Orifice	0.4	9.4

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	S1	328	8.649	0.399	1.6	7.2245	0.0000	OK

Link Event	US Node	Link	Outflow (l/s)	Discharge Vol (m ³)
480 minute summer	S1	Orifice	0.3	9.7

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	S1	352	8.705	0.455	1.2	8.2263	0.0000	OK

Link Event	US Node	Link	Outflow (l/s)	Discharge Vol (m ³)
480 minute winter	S1	Orifice	0.4	10.6

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	S1	405	8.645	0.395	1.3	7.1418	0.0000	OK

Link Event	US Node	Link	Outflow (l/s)	Discharge Vol (m ³)
600 minute summer	S1	Orifice	0.3	10.7

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	S1	435	8.686	0.436	1.0	7.8918	0.0000	OK

Link Event	US Node	Link	Outflow (l/s)	Discharge Vol (m ³)
600 minute winter	S1	Orifice	0.3	11.8

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	S1	465	8.630	0.380	1.2	6.8782	0.0000	OK

Link Event	US Node	Link	Outflow (l/s)	Discharge Vol (m ³)
720 minute summer	S1	Orifice	0.3	11.5

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	S1	510	8.668	0.418	0.9	7.5665	0.0000	OK

Link Event	US Node	Link	Outflow (l/s)	Discharge Vol (m ³)
720 minute winter	S1	Orifice	0.3	13.0

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	S1	600	8.595	0.345	0.9	6.2414	0.0000	OK

Link Event	US Node	Link	Outflow (l/s)	Discharge Vol (m ³)
960 minute summer	S1	Orifice	0.3	13.1

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	S1	645	8.623	0.373	0.7	6.7533	0.0000	OK

Link Event	US Node	Link	Outflow (l/s)	Discharge Vol (m ³)
960 minute winter	S1	Orifice	0.3	14.3

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	S1	870	8.579	0.329	0.7	5.9535	0.0000	OK

Link Event	US Node	Link	Outflow (l/s)	Discharge Vol (m ³)
1440 minute summer	S1	Orifice	0.3	16.5

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	S1	960	8.557	0.307	0.5	5.5629	0.0000	OK

Link Event	US Node	Link	Outflow (l/s)	Discharge Vol (m ³)
1440 minute winter	S1	Orifice	0.3	16.9