

Design Settings

Rainfall Methodology	FSR	Maximum Time of Concentration (mins)	30.00
Return Period (years)	2	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)	1.000
Ratio-R	0.200	Preferred Cover Depth (m)	0.600
CV	0.750	Include Intermediate Ground	✓
Time of Entry (mins)	5.00	Enforce best practice design rules	✓

Adoptable Manhole Type

Max Width (mm)	Diameter (mm)	Max Width (mm)	Diameter (mm)	Max Width (mm)	Diameter (mm)	Max Width (mm)	Diameter (mm)
374	1200	499	1350	749	1500	900	1800

>900 Link+900 mm

Max Depth (m)	Diameter (mm)	Max Depth (m)	Diameter (mm)
1.500	1050	99.999	1200

Circular Default Sewer Type Link Type

Shape Circular | Barrels 1 | Auto Increment (mm) 75 | Follow Ground x

Available Diameters (mm)

100 | 150

Nodes

Name	Area (ha)	T of E (mins)	Cover Level (m)	Diameter (mm)	Easting (m)	Northing (m)	Depth (m)
1	0.016	5.00	101.900	260	1562.726	-70.260	0.700
2	0.000		99.350	900	1566.692	-61.331	1.508
3	0.016	5.00	101.900	260	1591.913	-81.410	0.700
4	0.000		99.350	900	1595.580	-71.165	1.513
5		5.00	101.900	260	1577.177	-75.231	0.700
6	0.018	5.00	99.000	1200	1583.254	-63.284	1.200
7			99.000	1200	1585.611	-58.433	1.443

Links

Name	US Node	DS Node	Length (m)	ks (mm) / n	US IL (m)	DS IL (m)	Fall (m)	Slope (1:X)	Dia (mm)	T of C (mins)	Rain (mm/hr)
1.000	1	2	9.770	0.600	101.200	98.342	2.858	3.4	100	5.04	49.0
1.001	2	6	16.677	0.600	97.842	97.800	0.042	400.0	600	5.27	48.3
2.000	3	4	10.881	0.600	101.200	98.337	2.863	3.8	100	5.05	49.0
2.001	4	6	14.630	0.600	97.837	97.800	0.037	400.0	600	5.25	48.4
3.000	5	6	13.404	0.600	101.200	98.250	2.950	4.5	100	5.06	49.0
1.002	6	7	5.393	0.600	97.800	97.557	0.243	22.2	150	5.31	48.2

Name	Vel (m/s)	Cap (l/s)	Flow (l/s)	US Depth (m)	DS Depth (m)	Σ Area (ha)	Σ Add Inflow (l/s)	Pro Depth (mm)	Pro Velocity (m/s)
1.000	4.213	33.1	2.1	0.600	0.908	0.016	0.0	18	2.392
1.001	1.211	342.4	2.1	0.908	0.600	0.016	0.0	33	0.342
2.000	3.995	31.4	2.1	0.600	0.913	0.016	0.0	18	2.268
2.001	1.211	342.4	2.1	0.913	0.600	0.016	0.0	33	0.342
3.000	3.653	28.7	0.0	0.600	0.650	0.000	0.0	0	0.000
1.002	2.147	37.9	6.5	1.050	1.293	0.050	0.0	42	1.609

Pipeline Schedule

Link	Length (m)	Slope (1:X)	Dia (mm)	Link Type	US CL (m)	US IL (m)	US Depth (m)	DS CL (m)	DS IL (m)	DS Depth (m)
1.000	9.770	3.4	100	Circular_Default Sewer Type	101.900	101.200	0.600	99.350	98.342	0.908
1.001	16.677	400.0	600	Circular_Default Sewer Type	99.350	97.842	0.908	99.000	97.800	0.600
2.000	10.881	3.8	100	Circular_Default Sewer Type	101.900	101.200	0.600	99.350	98.337	0.913
2.001	14.630	400.0	600	Circular_Default Sewer Type	99.350	97.837	0.913	99.000	97.800	0.600
3.000	13.404	4.5	100	Circular_Default Sewer Type	101.900	101.200	0.600	99.000	98.250	0.650
1.002	5.393	22.2	150	Circular_Default Sewer Type	99.000	97.800	1.050	99.000	97.557	1.293

Link	US Node	Dia (mm)	Node Type	MH Type	DS Node	Dia (mm)	Node Type	MH Type
1.000	1	260	Manhole	Adoptable	2	900	Manhole	Adoptable
1.001	2	900	Manhole	Adoptable	6	1200	Manhole	Adoptable
2.000	3	260	Manhole	Adoptable	4	900	Manhole	Adoptable
2.001	4	900	Manhole	Adoptable	6	1200	Manhole	Adoptable
3.000	5	260	Manhole	Adoptable	6	1200	Manhole	Adoptable
1.002	6	1200	Manhole	Adoptable	7	1200	Manhole	Adoptable

Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)
1	1562.726	-70.260	101.900	0.700	260				
						0	1.000	101.200	100
2	1566.692	-61.331	99.350	1.508	900		1	1.000	98.342
						0	1.001	97.842	600
3	1591.913	-81.410	101.900	0.700	260				
						0	2.000	101.200	100
4	1595.580	-71.165	99.350	1.513	900		1	2.000	98.337
						0	2.001	97.837	600
5	1577.177	-75.231	101.900	0.700	260				
						0	3.000	101.200	100
6	1583.254	-63.284	99.000	1.200	1200		1	3.000	98.250
						2	2.001	97.800	600
						3	1.001	97.800	600
						0	1.002	97.800	150
7	1585.611	-58.433	99.000	1.443	1200		1	1.002	97.557
									150

Node 6 Online Hydro-Brake® Control

Flap Valve	x	Objective (HE)	Minimise upstream storage
Replaces Downstream Link	✓	Sump Available	✓
Invert Level (m)	97.800	Product Number	CTL-SHE-0105-5000-1050-5000
Design Depth (m)	1.050	Min Outlet Diameter (m)	0.150
Design Flow (l/s)	5.0	Min Node Diameter (mm)	1200

Other (defaults)

Entry Loss (manhole)	0.250	Entry Loss (junction)	0.000	Apply Recommended Losses	x
Exit Loss (manhole)	0.250	Exit Loss (junction)	0.000	Flood Risk (m)	0.300

Approval Settings

Node Size	✓	Backdrops	✓	Maximum Surcharged Depth (m)	0.100
Node Losses	✓	Minimum Backdrop Height (m)	1.000	Flooding	✓
Link Size	✓	Maximum Backdrop Height (m)	1.500	Return Period (years)	30
Minimum Diameter (mm)	150	Full Bore Velocity	✓	Time to Half Empty	✓
Link Length	✓	Minimum Full Bore Velocity (m/s)	1.000	Return Period (years)	2
Maximum Length (m)	100.000	Maximum Full Bore Velocity (m/s)	3.000	Discharge Rates	✓
Coordinates	✓	Proportional Velocity	✓	1 year (l/s)	5.0
Accuracy (m)	1.000	Return Period (years)	2	2 year (l/s)	5.0
Crossings	✓	Minimum Proportional Velocity (m/s)	0.750	30 year (l/s)	5.0
Cover Depth	✓	Maximum Proportional Velocity (m/s)	3.000	100 year (l/s)	5.0
Minimum Cover Depth (m)	0.600	Surcharged Depth	✓	Discharge Volume	x
Maximum Cover Depth (m)	3.000	Return Period (years)	2		

Approval Results

The network has been designed for a 1 in 2 year storm using FSR rainfall
 It contains 7 nodes (1 outfall) and 6 links
 The total impermeable area is 0.050 ha
 1 online control has been defined
 No additional storage is present
 Simulations have been completed using FSR summer and winter storms from 15 to 1440 minute duration

6 manholes are smaller than that required by the library

Node	Required Dia (mm)	Actual Dia (mm)
1	1200	260
2	1500	900
3	1200	260
4	1500	900
5	1200	260
6	1500	1200

4 connections have combined exit and entry losses less than the recommended total

Node	US Link	DS Link	US Exit Loss	DS Entry Loss	Angle (degrees)	Recommended Node Losses
2	1.000	1.001	0.250	0.250	73	0.900
4	2.000	2.001	0.250	0.250	77	0.900
6	2.001	1.002	0.250	0.250	83	0.900
6	1.001	1.002	0.250	0.250	71	0.900

3 circular links have diameters < 150mm

US Node	DS Node	Link	Dia (mm)
1	2	1.000	100
3	4	2.000	100
5	6	3.000	100

No links have lengths > 100.000m

No links have lengths that differ from their coordinated length by more than 1.000m

2 links cross one or more other links

US Node	DS Node	Link	Network	Link	Easting (m)	Northing (m)
2	6	1.001	Foul Network 1	1.001	1582.064	-63.144
5	6	3.000	Foul Network 1	2.000	1582.297	-65.165

No links have cover depth outside the range 0.600-3.000m

1 node has backdrops outside the range 1.000-1.500m

Node	US Link	DS Link	Backdrop (m)
6	3.000	1.002	0.400

3 links have full bore velocity outside the range 1.000-3.000m/s

US Node	DS Node	Link	Velocity (m/s)
1	2	1.000	4.213
3	4	2.000	3.995
5	6	3.000	3.653

2 links have peak proportional velocity outside the range 0.750-3.000m/s during the 2 year return period

US Node	DS Node	Link	Velocity (m/s)	Event
2	6	1.001	0.126	2 year 15 minute summer
4	6	2.001	0.124	2 year 15 minute winter

No links have a surcharged depth greater than 0.100m during the 2 year return period

No nodes flood during the 30 year return period

No infiltrating structures failed to half empty in 1440 minutes during the 2 year return period

No outfalls have a discharge rate greater than 5.0l/s during the 1 year return period

No outfalls have a discharge rate greater than 5.0l/s during the 2 year return period

No outfalls have a discharge rate greater than 5.0l/s during the 30 year return period

No outfalls have a discharge rate greater than 5.0l/s during the 100 year return period

The discharge volume test has not been completed

Rainfall

Event	Peak Intensity (mm/hr)	Average Intensity (mm/hr)	Event	Peak Intensity (mm/hr)	Average Intensity (mm/hr)
1 year 15 minute summer	87.087	24.643	2 year 240 minute winter	19.398	7.716
1 year 15 minute winter	61.114	24.643	2 year 360 minute summer	23.988	6.173
1 year 30 minute summer	63.071	17.847	2 year 360 minute winter	15.593	6.173
1 year 30 minute winter	44.260	17.847	2 year 480 minute summer	19.942	5.270
1 year 60 minute summer	48.435	12.800	2 year 480 minute winter	13.249	5.270
1 year 60 minute winter	32.179	12.800	2 year 600 minute summer	17.030	4.658
1 year 120 minute summer	34.536	9.127	2 year 600 minute winter	11.636	4.658
1 year 120 minute winter	22.945	9.127	2 year 720 minute summer	15.715	4.212
1 year 180 minute summer	28.902	7.437	2 year 720 minute winter	10.561	4.212
1 year 180 minute winter	18.787	7.437	2 year 960 minute summer	13.650	3.594
1 year 240 minute summer	24.203	6.396	2 year 960 minute winter	9.042	3.594
1 year 240 minute winter	16.080	6.396	2 year 1440 minute summer	10.717	2.872
1 year 360 minute summer	20.119	5.177	2 year 1440 minute winter	7.203	2.872
1 year 360 minute winter	13.078	5.177	30 year 15 minute summer	212.586	60.154
1 year 480 minute summer	16.882	4.461	30 year 15 minute winter	149.183	60.154
1 year 480 minute winter	11.216	4.461	30 year 30 minute summer	155.010	43.862
1 year 600 minute summer	14.510	3.969	30 year 30 minute winter	108.779	43.862
1 year 600 minute winter	9.914	3.969	30 year 60 minute summer	116.589	30.811
1 year 720 minute summer	13.463	3.608	30 year 60 minute winter	77.459	30.811
1 year 720 minute winter	9.048	3.608	30 year 120 minute summer	78.946	20.863
1 year 960 minute summer	11.804	3.108	30 year 120 minute winter	52.450	20.863
1 year 960 minute winter	7.819	3.108	30 year 180 minute summer	63.479	16.335
1 year 1440 minute summer	9.385	2.515	30 year 180 minute winter	41.263	16.335
1 year 1440 minute winter	6.307	2.515	30 year 240 minute summer	51.899	13.715
2 year 15 minute summer	112.777	31.912	30 year 240 minute winter	34.480	13.715
2 year 15 minute winter	79.142	31.912	30 year 360 minute summer	41.522	10.685
2 year 30 minute summer	81.416	23.038	30 year 360 minute winter	26.991	10.685
2 year 30 minute winter	57.134	23.038	30 year 480 minute summer	33.795	8.931
2 year 60 minute summer	61.301	16.200	30 year 480 minute winter	22.452	8.931
2 year 60 minute winter	40.727	16.200	30 year 600 minute summer	28.377	7.762
2 year 120 minute summer	42.559	11.247	30 year 600 minute winter	19.389	7.762
2 year 120 minute winter	28.275	11.247	30 year 720 minute summer	25.804	6.916
2 year 180 minute summer	35.121	9.038	30 year 720 minute winter	17.342	6.916
2 year 180 minute winter	22.829	9.038	30 year 960 minute summer	21.860	5.756
2 year 240 minute summer	29.197	7.716	30 year 960 minute winter	14.481	5.756

Rainfall

Event	Peak Intensity (mm/hr)	Average Intensity (mm/hr)	Event	Peak Intensity (mm/hr)	Average Intensity (mm/hr)
30 year 1440 minute summer	16.557	4.437	100 year +40% CC 240 minute winter	62.077	24.692
30 year 1440 minute winter	11.127	4.437	100 year +40% CC 360 minute summer	73.898	19.016
100 year +40% CC 15 minute summer	383.043	108.388	100 year +40% CC 360 minute winter	48.036	19.016
100 year +40% CC 15 minute winter	268.802	108.388	100 year +40% CC 480 minute summer	59.596	15.750
100 year +40% CC 30 minute summer	283.016	80.084	100 year +40% CC 480 minute winter	39.594	15.750
100 year +40% CC 30 minute winter	198.608	80.084	100 year +40% CC 600 minute summer	49.658	13.583
100 year +40% CC 60 minute summer	214.603	56.713	100 year +40% CC 600 minute winter	33.930	13.583
100 year +40% CC 60 minute winter	142.577	56.713	100 year +40% CC 720 minute summer	44.855	12.022
100 year +40% CC 120 minute summer	144.655	38.228	100 year +40% CC 720 minute winter	30.145	12.022
100 year +40% CC 120 minute winter	96.105	38.228	100 year +40% CC 960 minute summer	37.573	9.894
100 year +40% CC 180 minute summer	115.119	29.624	100 year +40% CC 960 minute winter	24.889	9.894
100 year +40% CC 180 minute winter	74.831	29.624	100 year +40% CC 1440 minute summer	27.987	7.501
100 year +40% CC 240 minute summer	93.436	24.692	100 year +40% CC 1440 minute winter	18.809	7.501

Results for 1 year Critical Storm Duration. Lowest mass balance: 98.66%

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	10	101.216	0.016	1.8	0.0082	0.0000	OK
30 minute winter	2	21	97.902	0.060	1.5	0.0382	0.0000	OK
15 minute winter	3	10	101.217	0.017	1.8	0.0084	0.0000	OK
15 minute winter	4	13	97.903	0.066	1.8	0.0418	0.0000	OK
15 minute summer	5	1	101.200	0.000	0.0	0.0000	0.0000	OK
15 minute winter	6	13	97.902	0.102	4.6	0.1466	0.0000	OK
15 minute summer	7	1	97.557	0.000	3.4	0.0000	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
15 minute winter	1	1.000	2	1.8	2.231	0.054	0.0078	
30 minute winter	2	1.001	6	1.2	0.104	0.004	0.3866	
15 minute winter	3	2.000	4	1.8	2.147	0.057	0.0091	
15 minute winter	4	2.001	6	1.4	0.127	0.004	0.3546	
15 minute summer	5	3.000	6	0.0	0.000	0.000	0.0000	
15 minute winter	6	Hydro-Brake®	7	3.6				2.6

Results for 2 year Critical Storm Duration. Lowest mass balance: 98.66%

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	10	101.218	0.018	2.3	0.0093	0.0000	OK
30 minute winter	2	21	97.926	0.084	2.0	0.0532	0.0000	OK
15 minute winter	3	10	101.219	0.019	2.3	0.0095	0.0000	OK
30 minute winter	4	21	97.926	0.089	2.0	0.0563	0.0000	OK
15 minute summer	5	1	101.200	0.000	0.0	0.0000	0.0000	OK
30 minute winter	6	21	97.926	0.126	5.1	0.1797	0.0000	OK
15 minute summer	7	1	97.557	0.000	4.1	0.0000	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
15 minute winter	1	1.000	2	2.3	2.396	0.069	0.0093	
30 minute winter	2	1.001	6	1.5	0.105	0.004	0.5543	
15 minute winter	3	2.000	4	2.3	2.307	0.073	0.0108	
30 minute winter	4	2.001	6	1.5	0.107	0.004	0.5012	
15 minute summer	5	3.000	6	0.0	0.000	0.000	0.0000	
30 minute winter	6	Hydro-Brake®	7	4.3				4.8

Results for 30 year Critical Storm Duration. Lowest mass balance: 98.66%

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	10	101.225	0.025	4.4	0.0129	0.0000	OK
30 minute winter	2	24	98.052	0.210	3.8	0.1334	0.0000	OK
15 minute winter	3	10	101.226	0.026	4.4	0.0133	0.0000	OK
30 minute winter	4	24	98.052	0.215	3.8	0.1364	0.0000	OK
15 minute summer	5	1	101.200	0.000	0.0	0.0000	0.0000	OK
30 minute winter	6	24	98.052	0.252	8.2	0.3603	0.0000	SURCHARGED
15 minute summer	7	1	97.557	0.000	4.8	0.0000	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
15 minute winter	1	1.000	2	4.4	2.881	0.132	0.0148	
30 minute winter	2	1.001	6	1.9	0.119	0.006	1.6663	
15 minute winter	3	2.000	4	4.4	2.774	0.139	0.0171	
30 minute winter	4	2.001	6	2.1	0.123	0.006	1.4816	
15 minute summer	5	3.000	6	0.0	0.000	0.000	0.0000	
30 minute winter	6	Hydro-Brake®	7	4.9				9.2

Results for 100 year +40% CC Critical Storm Duration. Lowest mass balance: 98.66%

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	10	101.235	0.035	7.9	0.0177	0.0000	OK
60 minute winter	2	47	98.563	0.721	5.2	0.4589	0.0000	SURCHARGED
15 minute winter	3	10	101.236	0.035	7.9	0.0181	0.0000	OK
60 minute winter	4	47	98.563	0.726	5.2	0.4616	0.0000	SURCHARGED
15 minute summer	5	1	101.200	0.000	0.0	0.0000	0.0000	OK
60 minute winter	6	47	98.561	0.761	10.4	1.0896	0.0000	SURCHARGED
15 minute summer	7	1	97.557	0.000	5.0	0.0000	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
15 minute winter	1	1.000	2	7.9	3.381	0.238	0.0227	
60 minute winter	2	1.001	6	2.7	0.127	0.008	4.6975	
15 minute winter	3	2.000	4	7.9	3.256	0.250	0.0263	
60 minute winter	4	2.001	6	2.5	0.130	0.007	4.1209	
15 minute summer	5	3.000	6	0.0	0.000	0.000	0.0000	
60 minute winter	6	Hydro-Brake®	7	5.0				23.8

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	1	10	101.216	0.016	1.7	0.0080	0.0000	OK
15 minute summer	2	13	97.896	0.054	1.7	0.0345	0.0000	OK
15 minute summer	3	10	101.216	0.016	1.7	0.0082	0.0000	OK
15 minute summer	4	12	97.896	0.059	1.7	0.0374	0.0000	OK
15 minute summer	5	1	101.200	0.000	0.0	0.0000	0.0000	OK
15 minute summer	6	13	97.897	0.097	4.4	0.1382	0.0000	OK
15 minute summer	7	1	97.557	0.000	3.4	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
15 minute summer	1	1.000	2	1.7	2.196	0.051	0.0075	
15 minute summer	2	1.001	6	1.3	0.120	0.004	0.3484	
15 minute summer	3	2.000	4	1.7	2.113	0.054	0.0087	
15 minute summer	4	2.001	6	1.5	0.122	0.005	0.3171	
15 minute summer	5	3.000	6	0.0	0.000	0.000	0.0000	
15 minute summer	6	Hydro-Brake®	7	3.4				2.3

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	1	10	101.216	0.016	1.8	0.0082	0.0000	OK
15 minute winter	2	12	97.902	0.060	1.8	0.0382	0.0000	OK
15 minute winter	3	10	101.217	0.017	1.8	0.0084	0.0000	OK
15 minute winter	4	13	97.903	0.066	1.8	0.0418	0.0000	OK
15 minute winter	5	1	101.200	0.000	0.0	0.0000	0.0000	OK
15 minute winter	6	13	97.902	0.102	4.6	0.1466	0.0000	OK
15 minute winter	7	1	97.557	0.000	3.6	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
15 minute winter	1	1.000	2	1.8	2.231	0.054	0.0078	
15 minute winter	2	1.001	6	1.3	0.125	0.004	0.3866	
15 minute winter	3	2.000	4	1.8	2.147	0.057	0.0091	
15 minute winter	4	2.001	6	1.4	0.127	0.004	0.3546	
15 minute winter	5	3.000	6	0.0	0.000	0.000	0.0000	
15 minute winter	6	Hydro-Brake®	7	3.6				2.6

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	1	18	101.216	0.016	1.7	0.0080	0.0000	OK
30 minute summer	2	20	97.902	0.060	1.7	0.0380	0.0000	OK
30 minute summer	3	18	101.216	0.016	1.7	0.0082	0.0000	OK
30 minute summer	4	20	97.902	0.065	1.7	0.0413	0.0000	OK
30 minute summer	5	1	101.200	0.000	0.0	0.0000	0.0000	OK
30 minute summer	6	20	97.902	0.102	4.2	0.1455	0.0000	OK
30 minute summer	7	1	97.557	0.000	3.6	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
30 minute summer	1	1.000	2	1.7	2.199	0.051	0.0076	
30 minute summer	2	1.001	6	1.3	0.109	0.004	0.3836	
30 minute summer	3	2.000	4	1.7	2.117	0.054	0.0087	
30 minute summer	4	2.001	6	1.3	0.111	0.004	0.3502	
30 minute summer	5	3.000	6	0.0	0.000	0.000	0.0000	
30 minute summer	6	Hydro-Brake®	7	3.6				3.3

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	1	18	101.215	0.015	1.5	0.0076	0.0000	OK
30 minute winter	2	21	97.902	0.060	1.5	0.0382	0.0000	OK
30 minute winter	3	18	101.215	0.015	1.5	0.0077	0.0000	OK
30 minute winter	4	21	97.902	0.065	1.5	0.0416	0.0000	OK
30 minute winter	5	1	101.200	0.000	0.0	0.0000	0.0000	OK
30 minute winter	6	21	97.902	0.102	4.1	0.1462	0.0000	OK
30 minute winter	7	1	97.557	0.000	3.6	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
30 minute winter	1	1.000	2	1.5	2.119	0.045	0.0069	
30 minute winter	2	1.001	6	1.2	0.104	0.004	0.3866	
30 minute winter	3	2.000	4	1.5	2.042	0.048	0.0080	
30 minute winter	4	2.001	6	1.3	0.106	0.004	0.3531	
30 minute winter	5	3.000	6	0.0	0.000	0.000	0.0000	
30 minute winter	6	Hydro-Brake®	7	3.6				3.7

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	1	33	101.214	0.014	1.4	0.0073	0.0000	OK
60 minute summer	2	36	97.899	0.057	1.4	0.0360	0.0000	OK
60 minute summer	3	33	101.215	0.015	1.4	0.0075	0.0000	OK
60 minute summer	4	36	97.899	0.062	1.4	0.0392	0.0000	OK
60 minute summer	5	1	101.200	0.000	0.0	0.0000	0.0000	OK
60 minute summer	6	36	97.898	0.098	3.9	0.1408	0.0000	OK
60 minute summer	7	1	97.557	0.000	3.5	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
60 minute summer	1	1.000	2	1.4	2.076	0.042	0.0066	
60 minute summer	2	1.001	6	1.2	0.095	0.003	0.3622	
60 minute summer	3	2.000	4	1.4	2.000	0.045	0.0076	
60 minute summer	4	2.001	6	1.2	0.087	0.004	0.3307	
60 minute summer	5	3.000	6	0.0	0.000	0.000	0.0000	
60 minute summer	6	Hydro-Brake®	7	3.5				4.8

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	1	33	101.213	0.013	1.2	0.0068	0.0000	OK
60 minute winter	2	36	97.891	0.049	1.2	0.0312	0.0000	OK
60 minute winter	3	33	101.214	0.014	1.2	0.0069	0.0000	OK
60 minute winter	4	36	97.891	0.054	1.2	0.0343	0.0000	OK
60 minute winter	5	1	101.200	0.000	0.0	0.0000	0.0000	OK
60 minute winter	6	36	97.891	0.091	3.4	0.1301	0.0000	OK
60 minute winter	7	1	97.557	0.000	3.2	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
60 minute winter	1	1.000	2	1.2	1.985	0.036	0.0059	
60 minute winter	2	1.001	6	1.0	0.102	0.003	0.3135	
60 minute winter	3	2.000	4	1.2	1.911	0.038	0.0068	
60 minute winter	4	2.001	6	1.1	0.104	0.003	0.2868	
60 minute winter	5	3.000	6	0.0	0.000	0.000	0.0000	
60 minute winter	6	Hydro-Brake®	7	3.2				5.3

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	1	64	101.213	0.013	1.1	0.0065	0.0000	OK
120 minute summer	2	66	97.887	0.045	1.1	0.0286	0.0000	OK
120 minute summer	3	64	101.213	0.013	1.1	0.0067	0.0000	OK
120 minute summer	4	66	97.887	0.050	1.1	0.0318	0.0000	OK
120 minute summer	5	2	101.200	0.000	0.0	0.0000	0.0000	OK
120 minute summer	6	66	97.887	0.087	3.2	0.1242	0.0000	OK
120 minute summer	7	2	97.557	0.000	3.0	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
120 minute summer	1	1.000	2	1.1	1.933	0.033	0.0056	
120 minute summer	2	1.001	6	1.0	0.091	0.003	0.2882	
120 minute summer	3	2.000	4	1.1	1.862	0.035	0.0064	
120 minute summer	4	2.001	6	1.0	0.092	0.003	0.2644	
120 minute summer	5	3.000	6	0.0	0.000	0.000	0.0000	
120 minute summer	6	Hydro-Brake®	7	3.0				6.7

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	1	58	101.211	0.011	0.8	0.0056	0.0000	OK
120 minute winter	2	66	97.876	0.034	0.8	0.0215	0.0000	OK
120 minute winter	3	58	101.211	0.011	0.8	0.0057	0.0000	OK
120 minute winter	4	66	97.876	0.039	0.8	0.0247	0.0000	OK
120 minute winter	5	2	101.200	0.000	0.0	0.0000	0.0000	OK
120 minute winter	6	66	97.875	0.075	2.5	0.1080	0.0000	OK
120 minute winter	7	2	97.557	0.000	2.5	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
120 minute winter	1	1.000	2	0.8	1.757	0.024	0.0044	
120 minute winter	2	1.001	6	0.8	0.091	0.002	0.2223	
120 minute winter	3	2.000	4	0.8	1.692	0.025	0.0051	
120 minute winter	4	2.001	6	0.8	0.092	0.002	0.2048	
120 minute winter	5	3.000	6	0.0	0.000	0.000	0.0000	
120 minute winter	6	Hydro-Brake®	7	2.5				7.8

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	1	96	101.212	0.012	0.9	0.0059	0.0000	OK
180 minute summer	2	100	97.879	0.037	0.9	0.0237	0.0000	OK
180 minute summer	3	96	101.212	0.012	0.9	0.0060	0.0000	OK
180 minute summer	4	100	97.879	0.042	0.9	0.0269	0.0000	OK
180 minute summer	5	4	101.200	0.000	0.0	0.0000	0.0000	OK
180 minute summer	6	100	97.879	0.079	2.7	0.1130	0.0000	OK
180 minute summer	7	4	97.557	0.000	2.6	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
180 minute summer	1	1.000	2	0.9	1.819	0.027	0.0048	
180 minute summer	2	1.001	6	0.9	0.077	0.003	0.2416	
180 minute summer	3	2.000	4	0.9	1.752	0.029	0.0056	
180 minute summer	4	2.001	6	0.9	0.075	0.003	0.2226	
180 minute summer	5	3.000	6	0.0	0.000	0.000	0.0000	
180 minute summer	6	Hydro-Brake®	7	2.6				8.4

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	1	92	101.210	0.010	0.7	0.0052	0.0000	OK
180 minute winter	2	96	97.868	0.026	0.7	0.0168	0.0000	OK
180 minute winter	3	92	101.211	0.011	0.7	0.0054	0.0000	OK
180 minute winter	4	96	97.868	0.031	0.7	0.0199	0.0000	OK
180 minute winter	5	4	101.200	0.000	0.0	0.0000	0.0000	OK
180 minute winter	6	96	97.868	0.068	2.1	0.0971	0.0000	OK
180 minute winter	7	4	97.557	0.000	2.1	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
180 minute winter	1	1.000	2	0.7	1.688	0.021	0.0041	
180 minute winter	2	1.001	6	0.7	0.078	0.002	0.1806	
180 minute winter	3	2.000	4	0.7	1.625	0.022	0.0047	
180 minute winter	4	2.001	6	0.7	0.071	0.002	0.1681	
180 minute winter	5	3.000	6	0.0	0.000	0.000	0.0000	
180 minute winter	6	Hydro-Brake®	7	2.1				9.1

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	1	124	101.211	0.011	0.8	0.0056	0.0000	OK
240 minute summer	2	128	97.874	0.032	0.8	0.0201	0.0000	OK
240 minute summer	3	124	101.211	0.011	0.8	0.0057	0.0000	OK
240 minute summer	4	128	97.873	0.036	0.8	0.0232	0.0000	OK
240 minute summer	5	4	101.200	0.000	0.0	0.0000	0.0000	OK
240 minute summer	6	128	97.873	0.073	2.4	0.1046	0.0000	OK
240 minute summer	7	4	97.557	0.000	2.3	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
240 minute summer	1	1.000	2	0.8	1.757	0.024	0.0044	
240 minute summer	2	1.001	6	0.8	0.079	0.002	0.2092	
240 minute summer	3	2.000	4	0.8	1.692	0.025	0.0051	
240 minute summer	4	2.001	6	0.8	0.075	0.002	0.1932	
240 minute summer	5	3.000	6	0.0	0.000	0.000	0.0000	
240 minute summer	6	Hydro-Brake®	7	2.3				9.7

Results for 1 year 240 minute winter. 480 minute analysis at 4 minute timestep. Mass balance: 99.62%

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	120	101.210	0.010	0.6	0.0049	0.0000	OK
240 minute winter	2	124	97.863	0.021	0.6	0.0132	0.0000	OK
240 minute winter	3	120	101.210	0.010	0.6	0.0050	0.0000	OK
240 minute winter	4	124	97.863	0.026	0.6	0.0162	0.0000	OK
240 minute winter	5	4	101.200	0.000	0.0	0.0000	0.0000	OK
240 minute winter	6	124	97.862	0.062	1.9	0.0887	0.0000	OK
240 minute winter	7	4	97.557	0.000	1.8	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
240 minute winter	1	1.000	2	0.6	1.613	0.018	0.0036	
240 minute winter	2	1.001	6	0.6	0.077	0.002	0.1517	
240 minute winter	3	2.000	4	0.6	1.552	0.019	0.0042	
240 minute winter	4	2.001	6	0.6	0.075	0.002	0.1410	
240 minute winter	5	3.000	6	0.0	0.000	0.000	0.0000	
240 minute winter	6	Hydro-Brake®	7	1.8				10.6

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	1	184	101.210	0.010	0.7	0.0052	0.0000	OK
360 minute summer	2	184	97.867	0.025	0.7	0.0160	0.0000	OK
360 minute summer	3	184	101.211	0.011	0.7	0.0054	0.0000	OK
360 minute summer	4	184	97.867	0.030	0.7	0.0191	0.0000	OK
360 minute summer	5	8	101.200	0.000	0.0	0.0000	0.0000	OK
360 minute summer	6	184	97.867	0.067	2.1	0.0953	0.0000	OK
360 minute summer	7	8	97.557	0.000	2.0	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
360 minute summer	1	1.000	2	0.7	1.687	0.021	0.0040	
360 minute summer	2	1.001	6	0.7	0.074	0.002	0.1739	
360 minute summer	3	2.000	4	0.7	1.624	0.022	0.0047	
360 minute summer	4	2.001	6	0.7	0.074	0.002	0.1619	
360 minute summer	5	3.000	6	0.0	0.000	0.000	0.0000	
360 minute summer	6	Hydro-Brake®	7	2.0				12.5

Results for 1 year 360 minute winter. 600 minute analysis at 8 minute timestep. Mass balance: 99.49%

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	184	101.209	0.009	0.5	0.0045	0.0000	OK
360 minute winter	2	184	97.859	0.017	0.5	0.0110	0.0000	OK
360 minute winter	3	184	101.209	0.009	0.5	0.0046	0.0000	OK
360 minute winter	4	184	97.855	0.018	0.5	0.0113	0.0000	OK
360 minute winter	5	8	101.200	0.000	0.0	0.0000	0.0000	OK
360 minute winter	6	184	97.854	0.054	1.5	0.0771	0.0000	OK
360 minute winter	7	8	97.557	0.000	1.4	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
360 minute winter	1	1.000	2	0.5	1.529	0.015	0.0032	
360 minute winter	2	1.001	6	0.5	0.080	0.001	0.1216	
360 minute winter	3	2.000	4	0.5	1.473	0.016	0.0037	
360 minute winter	4	2.001	6	0.5	0.081	0.001	0.1074	
360 minute winter	5	3.000	6	0.0	0.000	0.000	0.0000	
360 minute winter	6	Hydro-Brake®	7	1.4				12.9

Results for 1 year 480 minute summer. 720 minute analysis at 8 minute timestep. Mass balance: 99.78%

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	248	101.210	0.010	0.6	0.0049	0.0000	OK
480 minute summer	2	248	97.861	0.019	0.6	0.0120	0.0000	OK
480 minute summer	3	248	101.210	0.010	0.6	0.0050	0.0000	OK
480 minute summer	4	248	97.861	0.024	0.6	0.0151	0.0000	OK
480 minute summer	5	8	101.200	0.000	0.0	0.0000	0.0000	OK
480 minute summer	6	248	97.860	0.060	1.8	0.0860	0.0000	OK
480 minute summer	7	8	97.557	0.000	1.7	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
480 minute summer	1	1.000	2	0.6	1.613	0.018	0.0036	
480 minute summer	2	1.001	6	0.6	0.077	0.002	0.1428	
480 minute summer	3	2.000	4	0.6	1.552	0.019	0.0042	
480 minute summer	4	2.001	6	0.6	0.072	0.002	0.1329	
480 minute summer	5	3.000	6	0.0	0.000	0.000	0.0000	
480 minute summer	6	Hydro-Brake®	7	1.7				14.6

Results for 1 year 480 minute winter. 720 minute analysis at 8 minute timestep. Mass balance: 99.27%

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	232	101.208	0.008	0.4	0.0040	0.0000	OK
480 minute winter	2	232	97.858	0.016	0.4	0.0100	0.0000	OK
480 minute winter	3	232	101.208	0.008	0.4	0.0041	0.0000	OK
480 minute winter	4	232	97.853	0.016	0.4	0.0100	0.0000	OK
480 minute winter	5	8	101.200	0.000	0.0	0.0000	0.0000	OK
480 minute winter	6	232	97.850	0.050	1.3	0.0711	0.0000	OK
480 minute winter	7	8	97.557	0.000	1.2	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
480 minute winter	1	1.000	2	0.4	1.424	0.012	0.0027	
480 minute winter	2	1.001	6	0.4	0.071	0.001	0.1077	
480 minute winter	3	2.000	4	0.4	1.373	0.013	0.0032	
480 minute winter	4	2.001	6	0.4	0.071	0.001	0.0945	
480 minute winter	5	3.000	6	0.0	0.000	0.000	0.0000	
480 minute winter	6	Hydro-Brake®	7	1.2				15.2

Results for 1 year 600 minute summer. 840 minute analysis at 15 minute timestep. Mass balance: 99.49%

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	315	101.209	0.009	0.5	0.0045	0.0000	OK
600 minute summer	2	315	97.859	0.017	0.5	0.0110	0.0000	OK
600 minute summer	3	315	101.209	0.009	0.5	0.0046	0.0000	OK
600 minute summer	4	315	97.855	0.018	0.5	0.0113	0.0000	OK
600 minute summer	5	15	101.200	0.000	0.0	0.0000	0.0000	OK
600 minute summer	6	315	97.854	0.054	1.5	0.0771	0.0000	OK
600 minute summer	7	15	97.557	0.000	1.4	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
600 minute summer	1	1.000	2	0.5	1.529	0.015	0.0032	
600 minute summer	2	1.001	6	0.5	0.074	0.001	0.1216	
600 minute summer	3	2.000	4	0.5	1.472	0.016	0.0037	
600 minute summer	4	2.001	6	0.5	0.071	0.001	0.1073	
600 minute summer	5	3.000	6	0.0	0.000	0.000	0.0000	
600 minute summer	6	Hydro-Brake®	7	1.4				15.0

Results for 1 year 600 minute winter. 840 minute analysis at 15 minute timestep. Mass balance: 99.05%

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	300	101.208	0.008	0.4	0.0040	0.0000	OK
600 minute winter	2	300	97.858	0.016	0.4	0.0099	0.0000	OK
600 minute winter	3	300	101.208	0.008	0.4	0.0041	0.0000	OK
600 minute winter	4	300	97.853	0.016	0.4	0.0099	0.0000	OK
600 minute winter	5	15	101.200	0.000	0.0	0.0000	0.0000	OK
600 minute winter	6	300	97.847	0.047	1.2	0.0678	0.0000	OK
600 minute winter	7	15	97.557	0.000	1.1	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
600 minute winter	1	1.000	2	0.4	1.423	0.012	0.0027	
600 minute winter	2	1.001	6	0.4	0.070	0.001	0.1014	
600 minute winter	3	2.000	4	0.4	1.371	0.013	0.0032	
600 minute winter	4	2.001	6	0.4	0.070	0.001	0.0889	
600 minute winter	5	3.000	6	0.0	0.000	0.000	0.0000	
600 minute winter	6	Hydro-Brake®	7	1.1				17.8

Results for 1 year 720 minute summer. 960 minute analysis at 15 minute timestep. Mass balance: 99.30%

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	360	101.208	0.008	0.4	0.0040	0.0000	OK
720 minute summer	2	360	97.858	0.016	0.4	0.0100	0.0000	OK
720 minute summer	3	360	101.208	0.008	0.4	0.0041	0.0000	OK
720 minute summer	4	360	97.853	0.016	0.4	0.0100	0.0000	OK
720 minute summer	5	15	101.200	0.000	0.0	0.0000	0.0000	OK
720 minute summer	6	360	97.850	0.050	1.3	0.0711	0.0000	OK
720 minute summer	7	15	97.557	0.000	1.2	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
720 minute summer	1	1.000	2	0.4	1.424	0.012	0.0027	
720 minute summer	2	1.001	6	0.4	0.070	0.001	0.1077	
720 minute summer	3	2.000	4	0.4	1.373	0.013	0.0032	
720 minute summer	4	2.001	6	0.4	0.070	0.001	0.0945	
720 minute summer	5	3.000	6	0.0	0.000	0.000	0.0000	
720 minute summer	6	Hydro-Brake®	7	1.2				15.8

Results for 1 year 720 minute winter. 960 minute analysis at 15 minute timestep. Mass balance: 99.18%

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	345	101.207	0.007	0.3	0.0035	0.0000	OK
720 minute winter	2	405	97.856	0.014	0.3	0.0089	0.0000	OK
720 minute winter	3	345	101.207	0.007	0.3	0.0036	0.0000	OK
720 minute winter	4	405	97.851	0.014	0.3	0.0089	0.0000	OK
720 minute winter	5	15	101.200	0.000	0.0	0.0000	0.0000	OK
720 minute winter	6	345	97.843	0.043	1.0	0.0613	0.0000	OK
720 minute winter	7	15	97.557	0.000	1.0	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
720 minute winter	1	1.000	2	0.3	1.304	0.009	0.0022	
720 minute winter	2	1.001	6	0.3	0.067	0.001	0.0865	
720 minute winter	3	2.000	4	0.3	1.255	0.010	0.0026	
720 minute winter	4	2.001	6	0.3	0.067	0.001	0.0758	
720 minute winter	5	3.000	6	0.0	0.000	0.000	0.0000	
720 minute winter	6	Hydro-Brake®	7	1.0				19.1

Results for 1 year 960 minute summer. 1200 minute analysis at 15 minute timestep. Mass balance: 99.62%

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	480	101.208	0.008	0.4	0.0040	0.0000	OK
960 minute summer	2	480	97.858	0.016	0.4	0.0099	0.0000	OK
960 minute summer	3	480	101.208	0.008	0.4	0.0041	0.0000	OK
960 minute summer	4	480	97.853	0.016	0.4	0.0099	0.0000	OK
960 minute summer	5	15	101.200	0.000	0.0	0.0000	0.0000	OK
960 minute summer	6	480	97.847	0.047	1.2	0.0678	0.0000	OK
960 minute summer	7	15	97.557	0.000	1.1	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
960 minute summer	1	1.000	2	0.4	1.423	0.012	0.0027	
960 minute summer	2	1.001	6	0.4	0.070	0.001	0.1013	
960 minute summer	3	2.000	4	0.4	1.371	0.013	0.0032	
960 minute summer	4	2.001	6	0.4	0.070	0.001	0.0889	
960 minute summer	5	3.000	6	0.0	0.000	0.000	0.0000	
960 minute summer	6	Hydro-Brake®	7	1.1				17.2

Results for 1 year 960 minute winter. 1200 minute analysis at 15 minute timestep. Mass balance: 98.77%

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	450	101.207	0.007	0.3	0.0035	0.0000	OK
960 minute winter	2	450	97.856	0.014	0.3	0.0088	0.0000	OK
960 minute winter	3	450	101.207	0.007	0.3	0.0036	0.0000	OK
960 minute winter	4	450	97.851	0.014	0.3	0.0088	0.0000	OK
960 minute winter	5	15	101.200	0.000	0.0	0.0000	0.0000	OK
960 minute winter	6	450	97.841	0.040	0.9	0.0580	0.0000	OK
960 minute winter	7	15	97.557	0.000	0.9	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
960 minute winter	1	1.000	2	0.3	1.304	0.009	0.0022	
960 minute winter	2	1.001	6	0.3	0.067	0.001	0.0802	
960 minute winter	3	2.000	4	0.3	1.255	0.010	0.0026	
960 minute winter	4	2.001	6	0.3	0.067	0.001	0.0703	
960 minute winter	5	3.000	6	0.0	0.000	0.000	0.0000	
960 minute winter	6	Hydro-Brake®	7	0.9				22.2

Results for 1 year 1440 minute summer. 1680 minute analysis at 30 minute timestep. Mass balance: 99.14%

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	720	101.207	0.007	0.3	0.0035	0.0000	OK
1440 minute summer	2	780	97.856	0.014	0.3	0.0089	0.0000	OK
1440 minute summer	3	720	101.207	0.007	0.3	0.0036	0.0000	OK
1440 minute summer	4	780	97.851	0.014	0.3	0.0089	0.0000	OK
1440 minute summer	5	30	101.200	0.000	0.0	0.0000	0.0000	OK
1440 minute summer	6	720	97.843	0.043	1.0	0.0612	0.0000	OK
1440 minute summer	7	30	97.557	0.000	1.0	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
1440 minute summer	1	1.000	2	0.3	1.304	0.009	0.0022	
1440 minute summer	2	1.001	6	0.3	0.067	0.001	0.0864	
1440 minute summer	3	2.000	4	0.3	1.255	0.010	0.0026	
1440 minute summer	4	2.001	6	0.3	0.067	0.001	0.0758	
1440 minute summer	5	3.000	6	0.0	0.000	0.000	0.0000	
1440 minute summer	6	Hydro-Brake®	7	1.0				19.4

Results for 1 year 1440 minute winter. 1680 minute analysis at 30 minute timestep. Mass balance: 99.00%

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	690	101.206	0.006	0.2	0.0029	0.0000	OK
1440 minute winter	2	810	97.854	0.012	0.2	0.0074	0.0000	OK
1440 minute winter	3	690	101.206	0.006	0.2	0.0030	0.0000	OK
1440 minute winter	4	810	97.849	0.012	0.2	0.0074	0.0000	OK
1440 minute winter	5	30	101.200	0.000	0.0	0.0000	0.0000	OK
1440 minute winter	6	690	97.835	0.035	0.7	0.0502	0.0000	OK
1440 minute winter	7	30	97.557	0.000	0.7	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
1440 minute winter	1	1.000	2	0.2	1.151	0.006	0.0017	
1440 minute winter	2	1.001	6	0.2	0.061	0.001	0.0646	
1440 minute winter	3	2.000	4	0.2	1.108	0.006	0.0020	
1440 minute winter	4	2.001	6	0.2	0.061	0.001	0.0567	
1440 minute winter	5	3.000	6	0.0	0.000	0.000	0.0000	
1440 minute winter	6	Hydro-Brake®	7	0.7				22.2

Results for 2 year 15 minute summer. 1455 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	10	101.218	0.018	2.2	0.0091	0.0000	OK
15 minute summer	2	13	97.917	0.075	2.2	0.0477	0.0000	OK
15 minute summer	3	10	101.218	0.018	2.2	0.0093	0.0000	OK
15 minute summer	4	13	97.917	0.080	2.2	0.0509	0.0000	OK
15 minute summer	5	1	101.200	0.000	0.0	0.0000	0.0000	OK
15 minute summer	6	13	97.917	0.117	5.0	0.1669	0.0000	OK
15 minute summer	7	1	97.557	0.000	4.1	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
15 minute summer	1	1.000	2	2.2	2.366	0.066	0.0090	
15 minute summer	2	1.001	6	1.7	0.126	0.005	0.4894	
15 minute summer	3	2.000	4	2.2	2.277	0.070	0.0105	
15 minute summer	4	2.001	6	1.7	0.120	0.005	0.4439	
15 minute summer	5	3.000	6	0.0	0.000	0.000	0.0000	
15 minute summer	6	Hydro-Brake®	7	4.1				3.0

Results for 2 year 15 minute winter. 1455 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	10	101.218	0.018	2.3	0.0093	0.0000	OK
15 minute winter	2	13	97.924	0.082	2.3	0.0521	0.0000	OK
15 minute winter	3	10	101.219	0.019	2.3	0.0095	0.0000	OK
15 minute winter	4	13	97.923	0.086	2.3	0.0544	0.0000	OK
15 minute winter	5	1	101.200	0.000	0.0	0.0000	0.0000	OK
15 minute winter	6	13	97.924	0.124	5.8	0.1771	0.0000	OK
15 minute winter	7	1	97.557	0.000	4.3	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
15 minute winter	1	1.000	2	2.3	2.396	0.069	0.0093	
15 minute winter	2	1.001	6	1.7	0.121	0.005	0.5406	
15 minute winter	3	2.000	4	2.3	2.307	0.073	0.0108	
15 minute winter	4	2.001	6	1.6	0.124	0.005	0.4855	
15 minute winter	5	3.000	6	0.0	0.000	0.000	0.0000	
15 minute winter	6	Hydro-Brake®	7	4.3				3.3

Results for 2 year 30 minute summer. 1470 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	18	101.218	0.018	2.2	0.0091	0.0000	OK
30 minute summer	2	21	97.925	0.083	2.2	0.0528	0.0000	OK
30 minute summer	3	18	101.218	0.018	2.2	0.0094	0.0000	OK
30 minute summer	4	21	97.924	0.087	2.2	0.0556	0.0000	OK
30 minute summer	5	1	101.200	0.000	0.0	0.0000	0.0000	OK
30 minute summer	6	21	97.925	0.125	5.4	0.1783	0.0000	OK
30 minute summer	7	1	97.557	0.000	4.3	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
30 minute summer	1	1.000	2	2.2	2.369	0.066	0.0091	
30 minute summer	2	1.001	6	1.5	0.110	0.004	0.5477	
30 minute summer	3	2.000	4	2.2	2.281	0.070	0.0105	
30 minute summer	4	2.001	6	1.6	0.113	0.005	0.4944	
30 minute summer	5	3.000	6	0.0	0.000	0.000	0.0000	
30 minute summer	6	Hydro-Brake®	7	4.3				4.3

Results for 2 year 30 minute winter. 1470 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	18	101.217	0.017	2.0	0.0087	0.0000	OK
30 minute winter	2	21	97.926	0.084	2.0	0.0532	0.0000	OK
30 minute winter	3	18	101.218	0.018	2.0	0.0089	0.0000	OK
30 minute winter	4	21	97.926	0.089	2.0	0.0563	0.0000	OK
30 minute winter	5	1	101.200	0.000	0.0	0.0000	0.0000	OK
30 minute winter	6	21	97.926	0.126	5.1	0.1797	0.0000	OK
30 minute winter	7	1	97.557	0.000	4.3	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
30 minute winter	1	1.000	2	2.0	2.304	0.060	0.0085	
30 minute winter	2	1.001	6	1.5	0.105	0.004	0.5543	
30 minute winter	3	2.000	4	2.0	2.218	0.064	0.0098	
30 minute winter	4	2.001	6	1.5	0.107	0.004	0.5012	
30 minute winter	5	3.000	6	0.0	0.000	0.000	0.0000	
30 minute winter	6	Hydro-Brake®	7	4.3				4.8

Results for 2 year 60 minute summer. 1500 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	33	101.216	0.016	1.8	0.0083	0.0000	OK
60 minute summer	2	36	97.919	0.077	1.8	0.0491	0.0000	OK
60 minute summer	3	33	101.217	0.017	1.8	0.0085	0.0000	OK
60 minute summer	4	36	97.919	0.082	1.8	0.0521	0.0000	OK
60 minute summer	5	1	101.200	0.000	0.0	0.0000	0.0000	OK
60 minute summer	6	36	97.919	0.119	4.8	0.1704	0.0000	OK
60 minute summer	7	1	97.557	0.000	4.2	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
60 minute summer	1	1.000	2	1.8	2.235	0.054	0.0079	
60 minute summer	2	1.001	6	1.4	0.096	0.004	0.5056	
60 minute summer	3	2.000	4	1.8	2.152	0.057	0.0091	
60 minute summer	4	2.001	6	1.4	0.098	0.004	0.4580	
60 minute summer	5	3.000	6	0.0	0.000	0.000	0.0000	
60 minute summer	6	Hydro-Brake®	7	4.2				6.0

Results for 2 year 60 minute winter. 1500 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	33	101.215	0.015	1.5	0.0076	0.0000	OK
60 minute winter	2	36	97.911	0.069	1.5	0.0440	0.0000	OK
60 minute winter	3	33	101.215	0.015	1.5	0.0077	0.0000	OK
60 minute winter	4	36	97.911	0.074	1.5	0.0472	0.0000	OK
60 minute winter	5	1	101.200	0.000	0.0	0.0000	0.0000	OK
60 minute winter	6	36	97.911	0.111	4.2	0.1590	0.0000	OK
60 minute winter	7	1	97.557	0.000	3.9	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
60 minute winter	1	1.000	2	1.5	2.119	0.045	0.0069	
60 minute winter	2	1.001	6	1.3	0.109	0.004	0.4488	
60 minute winter	3	2.000	4	1.5	2.042	0.048	0.0080	
60 minute winter	4	2.001	6	1.3	0.111	0.004	0.4079	
60 minute winter	5	3.000	6	0.0	0.000	0.000	0.0000	
60 minute winter	6	Hydro-Brake®	7	3.9				6.9

Results for 2 year 120 minute summer. 1560 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	64	101.214	0.014	1.4	0.0073	0.0000	OK
120 minute summer	2	68	97.903	0.061	1.4	0.0386	0.0000	OK
120 minute summer	3	64	101.215	0.015	1.4	0.0075	0.0000	OK
120 minute summer	4	68	97.903	0.066	1.4	0.0418	0.0000	OK
120 minute summer	5	2	101.200	0.000	0.0	0.0000	0.0000	OK
120 minute summer	6	66	97.903	0.103	3.9	0.1468	0.0000	OK
120 minute summer	7	2	97.557	0.000	3.6	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
120 minute summer	1	1.000	2	1.4	2.076	0.042	0.0066	
120 minute summer	2	1.001	6	1.2	0.091	0.003	0.3898	
120 minute summer	3	2.000	4	1.4	2.000	0.045	0.0076	
120 minute summer	4	2.001	6	1.2	0.092	0.004	0.3550	
120 minute summer	5	3.000	6	0.0	0.000	0.000	0.0000	
120 minute summer	6	Hydro-Brake®	7	3.6				8.4

Results for 2 year 120 minute winter. 1560 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	60	101.212	0.012	1.0	0.0062	0.0000	OK
120 minute winter	2	66	97.888	0.046	1.0	0.0293	0.0000	OK
120 minute winter	3	60	101.213	0.012	1.0	0.0064	0.0000	OK
120 minute winter	4	66	97.888	0.051	1.0	0.0324	0.0000	OK
120 minute winter	5	2	101.200	0.000	0.0	0.0000	0.0000	OK
120 minute winter	6	66	97.888	0.088	3.1	0.1257	0.0000	OK
120 minute winter	7	2	97.557	0.000	3.0	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
120 minute winter	1	1.000	2	1.0	1.878	0.030	0.0052	
120 minute winter	2	1.001	6	1.0	0.092	0.003	0.2947	
120 minute winter	3	2.000	4	1.0	1.809	0.032	0.0060	
120 minute winter	4	2.001	6	1.0	0.094	0.003	0.2701	
120 minute winter	5	3.000	6	0.0	0.000	0.000	0.0000	
120 minute winter	6	Hydro-Brake®	7	3.0				9.5

Results for 2 year 180 minute summer. 1620 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	96	101.213	0.013	1.1	0.0065	0.0000	OK
180 minute summer	2	96	97.889	0.047	1.1	0.0301	0.0000	OK
180 minute summer	3	96	101.213	0.013	1.1	0.0067	0.0000	OK
180 minute summer	4	96	97.889	0.052	1.1	0.0333	0.0000	OK
180 minute summer	5	4	101.200	0.000	0.0	0.0000	0.0000	OK
180 minute summer	6	96	97.889	0.089	3.2	0.1275	0.0000	OK
180 minute summer	7	4	97.557	0.000	3.1	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
180 minute summer	1	1.000	2	1.1	1.933	0.033	0.0056	
180 minute summer	2	1.001	6	1.0	0.078	0.003	0.3027	
180 minute summer	3	2.000	4	1.1	1.862	0.035	0.0064	
180 minute summer	4	2.001	6	1.0	0.076	0.003	0.2771	
180 minute summer	5	3.000	6	0.0	0.000	0.000	0.0000	
180 minute summer	6	Hydro-Brake®	7	3.1				9.9

Results for 2 year 180 minute winter. 1620 minute analysis at 4 minute timestep. Mass balance: 99.29%

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	88	101.211	0.011	0.8	0.0056	0.0000	OK
180 minute winter	2	92	97.874	0.032	0.8	0.0204	0.0000	OK
180 minute winter	3	88	101.211	0.011	0.8	0.0057	0.0000	OK
180 minute winter	4	92	97.874	0.037	0.8	0.0235	0.0000	OK
180 minute winter	5	4	101.200	0.000	0.0	0.0000	0.0000	OK
180 minute winter	6	92	97.874	0.074	2.4	0.1054	0.0000	OK
180 minute winter	7	4	97.557	0.000	2.4	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
180 minute winter	1	1.000	2	0.8	1.757	0.024	0.0044	
180 minute winter	2	1.001	6	0.8	0.076	0.002	0.2125	
180 minute winter	3	2.000	4	0.8	1.692	0.025	0.0051	
180 minute winter	4	2.001	6	0.8	0.075	0.002	0.1961	
180 minute winter	5	3.000	6	0.0	0.000	0.000	0.0000	
180 minute winter	6	Hydro-Brake®	7	2.4				11.3

Results for 2 year 240 minute summer. 1680 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	124	101.212	0.012	1.0	0.0062	0.0000	OK
240 minute summer	2	128	97.883	0.041	1.0	0.0263	0.0000	OK
240 minute summer	3	124	101.212	0.012	1.0	0.0063	0.0000	OK
240 minute summer	4	128	97.883	0.046	1.0	0.0294	0.0000	OK
240 minute summer	5	4	101.200	0.000	0.0	0.0000	0.0000	OK
240 minute summer	6	128	97.883	0.083	2.9	0.1187	0.0000	OK
240 minute summer	7	4	97.557	0.000	2.8	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
240 minute summer	1	1.000	2	1.0	1.876	0.030	0.0052	
240 minute summer	2	1.001	6	0.9	0.078	0.003	0.2651	
240 minute summer	3	2.000	4	1.0	1.807	0.032	0.0060	
240 minute summer	4	2.001	6	0.9	0.075	0.003	0.2441	
240 minute summer	5	3.000	6	0.0	0.000	0.000	0.0000	
240 minute summer	6	Hydro-Brake®	7	2.8				11.4

Results for 2 year 240 minute winter. 1680 minute analysis at 4 minute timestep. Mass balance: 99.28%

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	116	101.210	0.010	0.7	0.0052	0.0000	OK
240 minute winter	2	120	97.868	0.026	0.7	0.0168	0.0000	OK
240 minute winter	3	116	101.211	0.011	0.7	0.0054	0.0000	OK
240 minute winter	4	120	97.868	0.031	0.7	0.0199	0.0000	OK
240 minute winter	5	4	101.200	0.000	0.0	0.0000	0.0000	OK
240 minute winter	6	120	97.868	0.068	2.1	0.0971	0.0000	OK
240 minute winter	7	4	97.557	0.000	2.1	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
240 minute winter	1	1.000	2	0.7	1.688	0.021	0.0041	
240 minute winter	2	1.001	6	0.7	0.077	0.002	0.1805	
240 minute winter	3	2.000	4	0.7	1.625	0.022	0.0047	
240 minute winter	4	2.001	6	0.7	0.075	0.002	0.1680	
240 minute winter	5	3.000	6	0.0	0.000	0.000	0.0000	
240 minute winter	6	Hydro-Brake®	7	2.1				12.4

Results for 2 year 360 minute summer. 1800 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	184	101.211	0.011	0.8	0.0056	0.0000	OK
360 minute summer	2	192	97.873	0.031	0.8	0.0198	0.0000	OK
360 minute summer	3	184	101.211	0.011	0.8	0.0057	0.0000	OK
360 minute summer	4	192	97.873	0.036	0.8	0.0229	0.0000	OK
360 minute summer	5	8	101.200	0.000	0.0	0.0000	0.0000	OK
360 minute summer	6	192	97.873	0.073	2.4	0.1043	0.0000	OK
360 minute summer	7	8	97.557	0.000	2.3	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
360 minute summer	1	1.000	2	0.8	1.756	0.024	0.0044	
360 minute summer	2	1.001	6	0.8	0.077	0.002	0.2077	
360 minute summer	3	2.000	4	0.8	1.691	0.025	0.0051	
360 minute summer	4	2.001	6	0.8	0.074	0.002	0.1919	
360 minute summer	5	3.000	6	0.0	0.000	0.000	0.0000	
360 minute summer	6	Hydro-Brake [®]	7	2.3				14.4

Results for 2 year 360 minute winter. 1800 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	184	101.210	0.010	0.6	0.0049	0.0000	OK
360 minute winter	2	192	97.863	0.021	0.6	0.0132	0.0000	OK
360 minute winter	3	184	101.210	0.010	0.6	0.0050	0.0000	OK
360 minute winter	4	192	97.863	0.025	0.6	0.0162	0.0000	OK
360 minute winter	5	8	101.200	0.000	0.0	0.0000	0.0000	OK
360 minute winter	6	192	97.862	0.062	1.9	0.0887	0.0000	OK
360 minute winter	7	8	97.557	0.000	1.8	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
360 minute winter	1	1.000	2	0.6	1.613	0.018	0.0036	
360 minute winter	2	1.001	6	0.6	0.080	0.002	0.1518	
360 minute winter	3	2.000	4	0.6	1.552	0.019	0.0042	
360 minute winter	4	2.001	6	0.6	0.081	0.002	0.1411	
360 minute winter	5	3.000	6	0.0	0.000	0.000	0.0000	
360 minute winter	6	Hydro-Brake®	7	1.8				15.4

Results for 2 year 480 minute summer. 1920 minute analysis at 8 minute timestep. Mass balance: 99.77%

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	248	101.210	0.010	0.7	0.0052	0.0000	OK
480 minute summer	2	248	97.867	0.025	0.7	0.0156	0.0000	OK
480 minute summer	3	248	101.211	0.011	0.7	0.0054	0.0000	OK
480 minute summer	4	248	97.866	0.029	0.7	0.0187	0.0000	OK
480 minute summer	5	8	101.200	0.000	0.0	0.0000	0.0000	OK
480 minute summer	6	248	97.866	0.066	2.0	0.0943	0.0000	OK
480 minute summer	7	8	97.557	0.000	2.0	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
480 minute summer	1	1.000	2	0.7	1.688	0.021	0.0041	
480 minute summer	2	1.001	6	0.7	0.076	0.002	0.1706	
480 minute summer	3	2.000	4	0.7	1.625	0.022	0.0047	
480 minute summer	4	2.001	6	0.7	0.070	0.002	0.1587	
480 minute summer	5	3.000	6	0.0	0.000	0.000	0.0000	
480 minute summer	6	Hydro-Brake®	7	2.0				17.0

Results for 2 year 480 minute winter. 1920 minute analysis at 8 minute timestep. Mass balance: 99.54%

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	240	101.209	0.009	0.5	0.0045	0.0000	OK
480 minute winter	2	240	97.859	0.017	0.5	0.0111	0.0000	OK
480 minute winter	3	240	101.209	0.009	0.5	0.0046	0.0000	OK
480 minute winter	4	240	97.857	0.020	0.5	0.0125	0.0000	OK
480 minute winter	5	8	101.200	0.000	0.0	0.0000	0.0000	OK
480 minute winter	6	240	97.856	0.056	1.6	0.0800	0.0000	OK
480 minute winter	7	8	97.557	0.000	1.5	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
480 minute winter	1	1.000	2	0.5	1.529	0.015	0.0032	
480 minute winter	2	1.001	6	0.5	0.080	0.001	0.1279	
480 minute winter	3	2.000	4	0.5	1.473	0.016	0.0037	
480 minute winter	4	2.001	6	0.5	0.081	0.001	0.1155	
480 minute winter	5	3.000	6	0.0	0.000	0.000	0.0000	
480 minute winter	6	Hydro-Brake®	7	1.5				17.5

Results for 2 year 600 minute summer. 2040 minute analysis at 15 minute timestep. Mass balance: 99.50%

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	315	101.210	0.010	0.6	0.0049	0.0000	OK
600 minute summer	2	315	97.861	0.019	0.6	0.0120	0.0000	OK
600 minute summer	3	315	101.210	0.010	0.6	0.0050	0.0000	OK
600 minute summer	4	315	97.861	0.024	0.6	0.0151	0.0000	OK
600 minute summer	5	15	101.200	0.000	0.0	0.0000	0.0000	OK
600 minute summer	6	315	97.860	0.060	1.8	0.0859	0.0000	OK
600 minute summer	7	15	97.557	0.000	1.7	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
600 minute summer	1	1.000	2	0.6	1.612	0.018	0.0036	
600 minute summer	2	1.001	6	0.6	0.075	0.002	0.1428	
600 minute summer	3	2.000	4	0.6	1.552	0.019	0.0042	
600 minute summer	4	2.001	6	0.6	0.071	0.002	0.1329	
600 minute summer	5	3.000	6	0.0	0.000	0.000	0.0000	
600 minute summer	6	Hydro-Brake®	7	1.7				19.2

Results for 2 year 600 minute winter. 2040 minute analysis at 15 minute timestep. Mass balance: 98.88%

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	285	101.208	0.008	0.4	0.0040	0.0000	OK
600 minute winter	2	285	97.858	0.016	0.4	0.0100	0.0000	OK
600 minute winter	3	285	101.208	0.008	0.4	0.0041	0.0000	OK
600 minute winter	4	285	97.853	0.016	0.4	0.0100	0.0000	OK
600 minute winter	5	15	101.200	0.000	0.0	0.0000	0.0000	OK
600 minute winter	6	285	97.850	0.050	1.3	0.0712	0.0000	OK
600 minute winter	7	15	97.557	0.000	1.2	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
600 minute winter	1	1.000	2	0.4	1.424	0.012	0.0027	
600 minute winter	2	1.001	6	0.4	0.070	0.001	0.1078	
600 minute winter	3	2.000	4	0.4	1.373	0.013	0.0032	
600 minute winter	4	2.001	6	0.4	0.070	0.001	0.0946	
600 minute winter	5	3.000	6	0.0	0.000	0.000	0.0000	
600 minute winter	6	Hydro-Brake®	7	1.2				19.6

Results for 2 year 720 minute summer. 2160 minute analysis at 15 minute timestep. Mass balance: 99.58%

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	360	101.209	0.009	0.5	0.0045	0.0000	OK
720 minute summer	2	360	97.859	0.017	0.5	0.0110	0.0000	OK
720 minute summer	3	360	101.209	0.009	0.5	0.0046	0.0000	OK
720 minute summer	4	360	97.857	0.020	0.5	0.0125	0.0000	OK
720 minute summer	5	15	101.200	0.000	0.0	0.0000	0.0000	OK
720 minute summer	6	360	97.856	0.056	1.6	0.0800	0.0000	OK
720 minute summer	7	15	97.557	0.000	1.5	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
720 minute summer	1	1.000	2	0.5	1.528	0.015	0.0032	
720 minute summer	2	1.001	6	0.5	0.071	0.001	0.1277	
720 minute summer	3	2.000	4	0.5	1.472	0.016	0.0037	
720 minute summer	4	2.001	6	0.5	0.070	0.001	0.1155	
720 minute summer	5	3.000	6	0.0	0.000	0.000	0.0000	
720 minute summer	6	Hydro-Brake®	7	1.5				20.4

Results for 2 year 720 minute winter. 2160 minute analysis at 15 minute timestep. Mass balance: 98.74%

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	330	101.208	0.008	0.4	0.0040	0.0000	OK
720 minute winter	2	330	97.858	0.016	0.4	0.0099	0.0000	OK
720 minute winter	3	330	101.208	0.008	0.4	0.0041	0.0000	OK
720 minute winter	4	330	97.853	0.016	0.4	0.0099	0.0000	OK
720 minute winter	5	15	101.200	0.000	0.0	0.0000	0.0000	OK
720 minute winter	6	330	97.847	0.047	1.2	0.0678	0.0000	OK
720 minute winter	7	15	97.557	0.000	1.1	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
720 minute winter	1	1.000	2	0.4	1.423	0.012	0.0027	
720 minute winter	2	1.001	6	0.4	0.070	0.001	0.1013	
720 minute winter	3	2.000	4	0.4	1.371	0.013	0.0032	
720 minute winter	4	2.001	6	0.4	0.070	0.001	0.0889	
720 minute winter	5	3.000	6	0.0	0.000	0.000	0.0000	
720 minute winter	6	Hydro-Brake®	7	1.1				21.9

Results for 2 year 960 minute summer. 2400 minute analysis at 15 minute timestep. Mass balance: 99.57%

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	495	101.209	0.009	0.5	0.0045	0.0000	OK
960 minute summer	2	495	97.859	0.017	0.5	0.0110	0.0000	OK
960 minute summer	3	495	101.209	0.009	0.5	0.0046	0.0000	OK
960 minute summer	4	495	97.855	0.018	0.5	0.0113	0.0000	OK
960 minute summer	5	15	101.200	0.000	0.0	0.0000	0.0000	OK
960 minute summer	6	495	97.854	0.054	1.5	0.0771	0.0000	OK
960 minute summer	7	15	97.557	0.000	1.4	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
960 minute summer	1	1.000	2	0.5	1.528	0.015	0.0032	
960 minute summer	2	1.001	6	0.5	0.073	0.001	0.1216	
960 minute summer	3	2.000	4	0.5	1.472	0.016	0.0037	
960 minute summer	4	2.001	6	0.5	0.071	0.001	0.1074	
960 minute summer	5	3.000	6	0.0	0.000	0.000	0.0000	
960 minute summer	6	Hydro-Brake®	7	1.4				21.7

Results for 2 year 960 minute winter. 2400 minute analysis at 15 minute timestep. Mass balance: 99.03%

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	450	101.207	0.007	0.3	0.0035	0.0000	OK
960 minute winter	2	540	97.856	0.014	0.3	0.0089	0.0000	OK
960 minute winter	3	450	101.207	0.007	0.3	0.0036	0.0000	OK
960 minute winter	4	540	97.851	0.014	0.3	0.0089	0.0000	OK
960 minute winter	5	15	101.200	0.000	0.0	0.0000	0.0000	OK
960 minute winter	6	450	97.843	0.043	1.0	0.0613	0.0000	OK
960 minute winter	7	15	97.557	0.000	1.0	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
960 minute winter	1	1.000	2	0.3	1.304	0.009	0.0022	
960 minute winter	2	1.001	6	0.3	0.067	0.001	0.0865	
960 minute winter	3	2.000	4	0.3	1.255	0.010	0.0026	
960 minute winter	4	2.001	6	0.3	0.067	0.001	0.0758	
960 minute winter	5	3.000	6	0.0	0.000	0.000	0.0000	
960 minute winter	6	Hydro-Brake®	7	1.0				25.2

Results for 2 year 1440 minute summer. 2880 minute analysis at 30 minute timestep. Mass balance: 99.38%

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	750	101.208	0.008	0.4	0.0040	0.0000	OK
1440 minute summer	2	750	97.858	0.016	0.4	0.0100	0.0000	OK
1440 minute summer	3	750	101.208	0.008	0.4	0.0041	0.0000	OK
1440 minute summer	4	750	97.853	0.016	0.4	0.0100	0.0000	OK
1440 minute summer	5	30	101.200	0.000	0.0	0.0000	0.0000	OK
1440 minute summer	6	750	97.847	0.047	1.2	0.0679	0.0000	OK
1440 minute summer	7	30	97.557	0.000	1.1	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
1440 minute summer	1	1.000	2	0.4	1.423	0.012	0.0027	
1440 minute summer	2	1.001	6	0.4	0.070	0.001	0.1014	
1440 minute summer	3	2.000	4	0.4	1.371	0.013	0.0032	
1440 minute summer	4	2.001	6	0.4	0.070	0.001	0.0890	
1440 minute summer	5	3.000	6	0.0	0.000	0.000	0.0000	
1440 minute summer	6	Hydro-Brake®	7	1.1				22.6

Results for 2 year 1440 minute winter. 2880 minute analysis at 30 minute timestep. Mass balance: 99.07%

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	720	101.207	0.007	0.3	0.0035	0.0000	OK
1440 minute winter	2	720	97.856	0.014	0.3	0.0088	0.0000	OK
1440 minute winter	3	720	101.207	0.007	0.3	0.0036	0.0000	OK
1440 minute winter	4	720	97.851	0.014	0.3	0.0088	0.0000	OK
1440 minute winter	5	30	101.200	0.000	0.0	0.0000	0.0000	OK
1440 minute winter	6	720	97.840	0.040	0.9	0.0579	0.0000	OK
1440 minute winter	7	30	97.557	0.000	0.9	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
1440 minute winter	1	1.000	2	0.3	1.302	0.009	0.0022	
1440 minute winter	2	1.001	6	0.3	0.066	0.001	0.0801	
1440 minute winter	3	2.000	4	0.3	1.254	0.010	0.0026	
1440 minute winter	4	2.001	6	0.3	0.066	0.001	0.0702	
1440 minute winter	5	3.000	6	0.0	0.000	0.000	0.0000	
1440 minute winter	6	Hydro-Brake®	7	0.9				28.6

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	1	10	101.225	0.025	4.2	0.0126	0.0000	OK
15 minute summer	2	14	98.007	0.165	4.2	0.1052	0.0000	OK
15 minute summer	3	10	101.225	0.025	4.2	0.0129	0.0000	OK
15 minute summer	4	14	98.008	0.171	4.2	0.1087	0.0000	OK
15 minute summer	5	1	101.200	0.000	0.0	0.0000	0.0000	OK
15 minute summer	6	14	98.007	0.207	9.3	0.2968	0.0000	SURCHARGED
15 minute summer	7	1	97.557	0.000	4.8	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
15 minute summer	1	1.000	2	4.2	2.846	0.126	0.0144	
15 minute summer	2	1.001	6	2.3	0.142	0.007	1.2460	
15 minute summer	3	2.000	4	4.2	2.740	0.133	0.0166	
15 minute summer	4	2.001	6	2.6	0.145	0.008	1.1146	
15 minute summer	5	3.000	6	0.0	0.000	0.000	0.0000	
15 minute summer	6	Hydro-Brake®	7	4.8				5.7

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	1	10	101.225	0.025	4.4	0.0129	0.0000	OK
15 minute winter	2	14	98.026	0.184	4.4	0.1170	0.0000	OK
15 minute winter	3	10	101.226	0.026	4.4	0.0133	0.0000	OK
15 minute winter	4	15	98.025	0.188	4.4	0.1196	0.0000	OK
15 minute winter	5	1	101.200	0.000	0.0	0.0000	0.0000	OK
15 minute winter	6	14	98.025	0.225	8.8	0.3215	0.0000	SURCHARGED
15 minute winter	7	1	97.557	0.000	4.9	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
15 minute winter	1	1.000	2	4.4	2.881	0.132	0.0148	
15 minute winter	2	1.001	6	2.6	0.140	0.008	1.4129	
15 minute winter	3	2.000	4	4.4	2.774	0.139	0.0171	
15 minute winter	4	2.001	6	2.4	0.144	0.007	1.2557	
15 minute winter	5	3.000	6	0.0	0.000	0.000	0.0000	
15 minute winter	6	Hydro-Brake®	7	4.9				6.3

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	1	18	101.225	0.025	4.2	0.0127	0.0000	OK
30 minute summer	2	22	98.034	0.192	4.2	0.1223	0.0000	OK
30 minute summer	3	18	101.225	0.025	4.2	0.0130	0.0000	OK
30 minute summer	4	22	98.034	0.197	4.2	0.1255	0.0000	OK
30 minute summer	5	1	101.200	0.000	0.0	0.0000	0.0000	OK
30 minute summer	6	22	98.034	0.234	8.9	0.3354	0.0000	SURCHARGED
30 minute summer	7	1	97.557	0.000	4.9	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
30 minute summer	1	1.000	2	4.2	2.849	0.127	0.0144	
30 minute summer	2	1.001	6	1.9	0.121	0.006	1.4989	
30 minute summer	3	2.000	4	4.2	2.743	0.134	0.0167	
30 minute summer	4	2.001	6	2.2	0.124	0.007	1.3356	
30 minute summer	5	3.000	6	0.0	0.000	0.000	0.0000	
30 minute summer	6	Hydro-Brake®	7	4.9				8.2

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	1	18	101.224	0.024	3.8	0.0120	0.0000	OK
30 minute winter	2	24	98.052	0.210	3.8	0.1334	0.0000	OK
30 minute winter	3	18	101.224	0.024	3.8	0.0123	0.0000	OK
30 minute winter	4	24	98.052	0.215	3.8	0.1364	0.0000	OK
30 minute winter	5	1	101.200	0.000	0.0	0.0000	0.0000	OK
30 minute winter	6	24	98.052	0.252	8.2	0.3603	0.0000	SURCHARGED
30 minute winter	7	1	97.557	0.000	4.9	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
30 minute winter	1	1.000	2	3.8	2.770	0.115	0.0134	
30 minute winter	2	1.001	6	1.9	0.119	0.006	1.6663	
30 minute winter	3	2.000	4	3.8	2.668	0.121	0.0155	
30 minute winter	4	2.001	6	2.1	0.123	0.006	1.4816	
30 minute winter	5	3.000	6	0.0	0.000	0.000	0.0000	
30 minute winter	6	Hydro-Brake®	7	4.9				9.2

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	1	33	101.223	0.023	3.5	0.0115	0.0000	OK
60 minute summer	2	39	98.039	0.197	3.5	0.1254	0.0000	OK
60 minute summer	3	33	101.223	0.023	3.5	0.0118	0.0000	OK
60 minute summer	4	39	98.039	0.202	3.5	0.1286	0.0000	OK
60 minute summer	5	1	101.200	0.000	0.0	0.0000	0.0000	OK
60 minute summer	6	39	98.039	0.239	7.8	0.3423	0.0000	SURCHARGED
60 minute summer	7	1	97.557	0.000	4.9	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
60 minute summer	1	1.000	2	3.5	2.708	0.106	0.0126	
60 minute summer	2	1.001	6	1.9	0.113	0.006	1.5447	
60 minute summer	3	2.000	4	3.5	2.607	0.112	0.0146	
60 minute summer	4	2.001	6	2.0	0.116	0.006	1.3760	
60 minute summer	5	3.000	6	0.0	0.000	0.000	0.0000	
60 minute summer	6	Hydro-Brake®	7	4.9				11.5

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	1	32	101.220	0.020	2.8	0.0103	0.0000	OK
60 minute winter	2	42	98.042	0.200	2.8	0.1269	0.0000	OK
60 minute winter	3	32	101.221	0.021	2.8	0.0105	0.0000	OK
60 minute winter	4	42	98.042	0.205	2.8	0.1301	0.0000	OK
60 minute winter	5	1	101.200	0.000	0.0	0.0000	0.0000	OK
60 minute winter	6	41	98.041	0.241	6.8	0.3455	0.0000	SURCHARGED
60 minute winter	7	1	97.557	0.000	4.9	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
60 minute winter	1	1.000	2	2.8	2.541	0.085	0.0108	
60 minute winter	2	1.001	6	1.8	0.110	0.005	1.5668	
60 minute winter	3	2.000	4	2.8	2.447	0.089	0.0125	
60 minute winter	4	2.001	6	1.9	0.112	0.005	1.3952	
60 minute winter	5	3.000	6	0.0	0.000	0.000	0.0000	
60 minute winter	6	Hydro-Brake®	7	4.9				12.9

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	1	64	101.219	0.019	2.5	0.0097	0.0000	OK
120 minute summer	2	72	98.006	0.164	2.5	0.1041	0.0000	OK
120 minute summer	3	64	101.220	0.020	2.5	0.0100	0.0000	OK
120 minute summer	4	72	98.006	0.169	2.5	0.1072	0.0000	OK
120 minute summer	5	2	101.200	0.000	0.0	0.0000	0.0000	OK
120 minute summer	6	72	98.006	0.206	6.3	0.2942	0.0000	SURCHARGED
120 minute summer	7	2	97.557	0.000	4.8	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
120 minute summer	1	1.000	2	2.5	2.458	0.076	0.0099	
120 minute summer	2	1.001	6	1.7	0.094	0.005	1.2297	
120 minute summer	3	2.000	4	2.5	2.368	0.080	0.0115	
120 minute summer	4	2.001	6	1.8	0.096	0.005	1.0982	
120 minute summer	5	3.000	6	0.0	0.000	0.000	0.0000	
120 minute summer	6	Hydro-Brake®	7	4.8				15.6

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	1	62	101.217	0.017	1.9	0.0085	0.0000	OK
120 minute winter	2	74	97.976	0.134	1.9	0.0854	0.0000	OK
120 minute winter	3	62	101.217	0.017	1.9	0.0087	0.0000	OK
120 minute winter	4	74	97.976	0.139	1.9	0.0886	0.0000	OK
120 minute winter	5	2	101.200	0.000	0.0	0.0000	0.0000	OK
120 minute winter	6	74	97.976	0.176	5.3	0.2523	0.0000	SURCHARGED
120 minute winter	7	2	97.557	0.000	4.7	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
120 minute winter	1	1.000	2	1.9	2.270	0.057	0.0082	
120 minute winter	2	1.001	6	1.6	0.082	0.005	0.9670	
120 minute winter	3	2.000	4	1.9	2.186	0.061	0.0095	
120 minute winter	4	2.001	6	1.6	0.083	0.005	0.8667	
120 minute winter	5	3.000	6	0.0	0.000	0.000	0.0000	
120 minute winter	6	Hydro-Brake®	7	4.7				17.5

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	1	96	101.217	0.017	2.0	0.0087	0.0000	OK
180 minute summer	2	104	97.970	0.128	2.0	0.0812	0.0000	OK
180 minute summer	3	96	101.218	0.018	2.0	0.0089	0.0000	OK
180 minute summer	4	104	97.970	0.133	2.0	0.0844	0.0000	OK
180 minute summer	5	4	101.200	0.000	0.0	0.0000	0.0000	OK
180 minute summer	6	104	97.970	0.170	5.4	0.2429	0.0000	SURCHARGED
180 minute summer	7	4	97.557	0.000	4.7	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
180 minute summer	1	1.000	2	2.0	2.304	0.060	0.0085	
180 minute summer	2	1.001	6	1.6	0.102	0.005	0.9101	
180 minute summer	3	2.000	4	2.0	2.218	0.064	0.0098	
180 minute summer	4	2.001	6	1.6	0.103	0.005	0.8162	
180 minute summer	5	3.000	6	0.0	0.000	0.000	0.0000	
180 minute summer	6	Hydro-Brake®	7	4.7				18.4

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	1	92	101.215	0.015	1.5	0.0076	0.0000	OK
180 minute winter	2	100	97.929	0.087	1.5	0.0553	0.0000	OK
180 minute winter	3	92	101.215	0.015	1.5	0.0077	0.0000	OK
180 minute winter	4	100	97.929	0.092	1.5	0.0585	0.0000	OK
180 minute winter	5	4	101.200	0.000	0.0	0.0000	0.0000	OK
180 minute winter	6	100	97.929	0.129	4.5	0.1844	0.0000	OK
180 minute winter	7	4	97.557	0.000	4.4	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
180 minute winter	1	1.000	2	1.5	2.119	0.045	0.0069	
180 minute winter	2	1.001	6	1.4	0.086	0.004	0.5787	
180 minute winter	3	2.000	4	1.5	2.042	0.048	0.0080	
180 minute winter	4	2.001	6	1.4	0.087	0.004	0.5230	
180 minute winter	5	3.000	6	0.0	0.000	0.000	0.0000	
180 minute winter	6	Hydro-Brake®	7	4.4				20.5

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	1	124	101.216	0.016	1.7	0.0080	0.0000	OK
240 minute summer	2	132	97.939	0.097	1.7	0.0618	0.0000	OK
240 minute summer	3	124	101.216	0.016	1.7	0.0082	0.0000	OK
240 minute summer	4	132	97.939	0.102	1.7	0.0649	0.0000	OK
240 minute summer	5	4	101.200	0.000	0.0	0.0000	0.0000	OK
240 minute summer	6	132	97.939	0.139	4.8	0.1990	0.0000	OK
240 minute summer	7	4	97.557	0.000	4.5	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
240 minute summer	1	1.000	2	1.7	2.199	0.051	0.0075	
240 minute summer	2	1.001	6	1.5	0.077	0.004	0.6577	
240 minute summer	3	2.000	4	1.7	2.116	0.054	0.0087	
240 minute summer	4	2.001	6	1.5	0.074	0.004	0.5931	
240 minute summer	5	3.000	6	0.0	0.000	0.000	0.0000	
240 minute summer	6	Hydro-Brake®	7	4.5				20.6

Results for 30 year 240 minute winter. 480 minute analysis at 4 minute timestep. Mass balance: 99.81%

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	124	101.214	0.014	1.3	0.0070	0.0000	OK
240 minute winter	2	124	97.908	0.066	1.3	0.0417	0.0000	OK
240 minute winter	3	124	101.214	0.014	1.3	0.0072	0.0000	OK
240 minute winter	4	124	97.908	0.071	1.3	0.0448	0.0000	OK
240 minute winter	5	4	101.200	0.000	0.0	0.0000	0.0000	OK
240 minute winter	6	124	97.907	0.107	3.9	0.1537	0.0000	OK
240 minute winter	7	4	97.557	0.000	3.8	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
240 minute winter	1	1.000	2	1.3	2.032	0.039	0.0063	
240 minute winter	2	1.001	6	1.2	0.076	0.004	0.4223	
240 minute winter	3	2.000	4	1.3	1.956	0.041	0.0072	
240 minute winter	4	2.001	6	1.3	0.075	0.004	0.3846	
240 minute winter	5	3.000	6	0.0	0.000	0.000	0.0000	
240 minute winter	6	Hydro-Brake®	7	3.8				22.9

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	1	184	101.214	0.014	1.4	0.0073	0.0000	OK
360 minute summer	2	192	97.912	0.070	1.4	0.0443	0.0000	OK
360 minute summer	3	184	101.215	0.015	1.4	0.0075	0.0000	OK
360 minute summer	4	192	97.912	0.075	1.4	0.0474	0.0000	OK
360 minute summer	5	8	101.200	0.000	0.0	0.0000	0.0000	OK
360 minute summer	6	192	97.912	0.112	4.1	0.1597	0.0000	OK
360 minute summer	7	8	97.557	0.000	4.0	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
360 minute summer	1	1.000	2	1.4	2.075	0.042	0.0066	
360 minute summer	2	1.001	6	1.3	0.071	0.004	0.4520	
360 minute summer	3	2.000	4	1.4	1.999	0.045	0.0076	
360 minute summer	4	2.001	6	1.3	0.068	0.004	0.4107	
360 minute summer	5	3.000	6	0.0	0.000	0.000	0.0000	
360 minute summer	6	Hydro-Brake®	7	4.0				23.7

Results for 30 year 360 minute winter. 600 minute analysis at 8 minute timestep. Mass balance: 99.50%

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	184	101.212	0.012	1.0	0.0062	0.0000	OK
360 minute winter	2	200	97.886	0.044	1.0	0.0280	0.0000	OK
360 minute winter	3	184	101.213	0.012	1.0	0.0064	0.0000	OK
360 minute winter	4	200	97.886	0.049	1.0	0.0312	0.0000	OK
360 minute winter	5	8	101.200	0.000	0.0	0.0000	0.0000	OK
360 minute winter	6	200	97.886	0.086	3.0	0.1227	0.0000	OK
360 minute winter	7	8	97.557	0.000	2.9	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
360 minute winter	1	1.000	2	1.0	1.878	0.030	0.0052	
360 minute winter	2	1.001	6	1.0	0.080	0.003	0.2821	
360 minute winter	3	2.000	4	1.0	1.809	0.032	0.0060	
360 minute winter	4	2.001	6	1.0	0.081	0.003	0.2590	
360 minute winter	5	3.000	6	0.0	0.000	0.000	0.0000	
360 minute winter	6	Hydro-Brake®	7	2.9				27.1

Results for 30 year 480 minute summer. 720 minute analysis at 8 minute timestep. Mass balance: 99.83%

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	248	101.213	0.013	1.1	0.0065	0.0000	OK
480 minute summer	2	248	97.895	0.053	1.1	0.0336	0.0000	OK
480 minute summer	3	248	101.213	0.013	1.1	0.0067	0.0000	OK
480 minute summer	4	248	97.895	0.058	1.1	0.0368	0.0000	OK
480 minute summer	5	8	101.200	0.000	0.0	0.0000	0.0000	OK
480 minute summer	6	248	97.895	0.095	3.4	0.1355	0.0000	OK
480 minute summer	7	8	97.557	0.000	3.3	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
480 minute summer	1	1.000	2	1.1	1.933	0.033	0.0056	
480 minute summer	2	1.001	6	1.1	0.071	0.003	0.3373	
480 minute summer	3	2.000	4	1.1	1.862	0.035	0.0064	
480 minute summer	4	2.001	6	1.1	0.072	0.003	0.3089	
480 minute summer	5	3.000	6	0.0	0.000	0.000	0.0000	
480 minute summer	6	Hydro-Brake®	7	3.3				26.1

Results for 30 year 480 minute winter. 720 minute analysis at 8 minute timestep. Mass balance: 99.01%

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	232	101.211	0.011	0.8	0.0056	0.0000	OK
480 minute winter	2	232	97.874	0.032	0.8	0.0204	0.0000	OK
480 minute winter	3	232	101.211	0.011	0.8	0.0057	0.0000	OK
480 minute winter	4	232	97.874	0.037	0.8	0.0235	0.0000	OK
480 minute winter	5	8	101.200	0.000	0.0	0.0000	0.0000	OK
480 minute winter	6	232	97.874	0.074	2.4	0.1054	0.0000	OK
480 minute winter	7	8	97.557	0.000	2.4	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
480 minute winter	1	1.000	2	0.8	1.757	0.024	0.0044	
480 minute winter	2	1.001	6	0.8	0.080	0.002	0.2124	
480 minute winter	3	2.000	4	0.8	1.692	0.025	0.0051	
480 minute winter	4	2.001	6	0.8	0.081	0.002	0.1960	
480 minute winter	5	3.000	6	0.0	0.000	0.000	0.0000	
480 minute winter	6	Hydro-Brake®	7	2.4				29.7

Results for 30 year 600 minute summer. 840 minute analysis at 15 minute timestep. Mass balance: 99.53%

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	315	101.212	0.012	0.9	0.0059	0.0000	OK
600 minute summer	2	315	97.882	0.040	0.9	0.0253	0.0000	OK
600 minute summer	3	315	101.212	0.012	0.9	0.0060	0.0000	OK
600 minute summer	4	315	97.882	0.045	0.9	0.0285	0.0000	OK
600 minute summer	5	15	101.200	0.000	0.0	0.0000	0.0000	OK
600 minute summer	6	315	97.882	0.082	2.8	0.1167	0.0000	OK
600 minute summer	7	15	97.557	0.000	2.8	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
600 minute summer	1	1.000	2	0.9	1.819	0.027	0.0048	
600 minute summer	2	1.001	6	0.9	0.074	0.003	0.2564	
600 minute summer	3	2.000	4	0.9	1.752	0.029	0.0056	
600 minute summer	4	2.001	6	0.9	0.071	0.003	0.2364	
600 minute summer	5	3.000	6	0.0	0.000	0.000	0.0000	
600 minute summer	6	Hydro-Brake®	7	2.8				28.7

Results for 30 year 600 minute winter. 840 minute analysis at 15 minute timestep. Mass balance: 98.93%

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	300	101.210	0.010	0.7	0.0052	0.0000	OK
600 minute winter	2	300	97.868	0.026	0.7	0.0168	0.0000	OK
600 minute winter	3	300	101.211	0.011	0.7	0.0054	0.0000	OK
600 minute winter	4	300	97.868	0.031	0.7	0.0199	0.0000	OK
600 minute winter	5	15	101.200	0.000	0.0	0.0000	0.0000	OK
600 minute winter	6	300	97.868	0.068	2.1	0.0971	0.0000	OK
600 minute winter	7	15	97.557	0.000	2.1	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
600 minute winter	1	1.000	2	0.7	1.687	0.021	0.0040	
600 minute winter	2	1.001	6	0.7	0.074	0.002	0.1806	
600 minute winter	3	2.000	4	0.7	1.625	0.022	0.0047	
600 minute winter	4	2.001	6	0.7	0.070	0.002	0.1680	
600 minute winter	5	3.000	6	0.0	0.000	0.000	0.0000	
600 minute winter	6	Hydro-Brake®	7	2.1				31.4

Results for 30 year 720 minute summer. 960 minute analysis at 15 minute timestep. Mass balance: 99.59%

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	375	101.212	0.012	0.9	0.0059	0.0000	OK
720 minute summer	2	375	97.880	0.038	0.9	0.0241	0.0000	OK
720 minute summer	3	375	101.212	0.012	0.9	0.0060	0.0000	OK
720 minute summer	4	375	97.880	0.043	0.9	0.0272	0.0000	OK
720 minute summer	5	15	101.200	0.000	0.0	0.0000	0.0000	OK
720 minute summer	6	375	97.880	0.080	2.7	0.1138	0.0000	OK
720 minute summer	7	15	97.557	0.000	2.7	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
720 minute summer	1	1.000	2	0.9	1.819	0.027	0.0048	
720 minute summer	2	1.001	6	0.9	0.074	0.003	0.2446	
720 minute summer	3	2.000	4	0.9	1.752	0.029	0.0056	
720 minute summer	4	2.001	6	0.9	0.071	0.003	0.2254	
720 minute summer	5	3.000	6	0.0	0.000	0.000	0.0000	
720 minute summer	6	Hydro-Brake®	7	2.7				31.4

Results for 30 year 720 minute winter. 960 minute analysis at 15 minute timestep. Mass balance: 98.66%

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	345	101.210	0.010	0.6	0.0049	0.0000	OK
720 minute winter	2	345	97.863	0.021	0.6	0.0132	0.0000	OK
720 minute winter	3	345	101.210	0.010	0.6	0.0050	0.0000	OK
720 minute winter	4	345	97.863	0.026	0.6	0.0162	0.0000	OK
720 minute winter	5	15	101.200	0.000	0.0	0.0000	0.0000	OK
720 minute winter	6	345	97.862	0.062	1.9	0.0887	0.0000	OK
720 minute winter	7	15	97.557	0.000	1.8	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
720 minute winter	1	1.000	2	0.6	1.612	0.018	0.0036	
720 minute winter	2	1.001	6	0.6	0.073	0.002	0.1518	
720 minute winter	3	2.000	4	0.6	1.552	0.019	0.0042	
720 minute winter	4	2.001	6	0.6	0.071	0.002	0.1411	
720 minute winter	5	3.000	6	0.0	0.000	0.000	0.0000	
720 minute winter	6	Hydro-Brake®	7	1.8				33.4

Results for 30 year 960 minute summer. 1200 minute analysis at 15 minute timestep. Mass balance: 99.62%

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	480	101.210	0.010	0.7	0.0052	0.0000	OK
960 minute summer	2	480	97.868	0.026	0.7	0.0168	0.0000	OK
960 minute summer	3	480	101.211	0.011	0.7	0.0054	0.0000	OK
960 minute summer	4	480	97.868	0.031	0.7	0.0199	0.0000	OK
960 minute summer	5	15	101.200	0.000	0.0	0.0000	0.0000	OK
960 minute summer	6	480	97.868	0.068	2.1	0.0971	0.0000	OK
960 minute summer	7	15	97.557	0.000	2.1	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
960 minute summer	1	1.000	2	0.7	1.687	0.021	0.0040	
960 minute summer	2	1.001	6	0.7	0.075	0.002	0.1805	
960 minute summer	3	2.000	4	0.7	1.624	0.022	0.0047	
960 minute summer	4	2.001	6	0.7	0.071	0.002	0.1679	
960 minute summer	5	3.000	6	0.0	0.000	0.000	0.0000	
960 minute summer	6	Hydro-Brake®	7	2.1				35.5

Results for 30 year 960 minute winter. 1200 minute analysis at 15 minute timestep. Mass balance: 98.73%

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	450	101.209	0.009	0.5	0.0045	0.0000	OK
960 minute winter	2	450	97.859	0.017	0.5	0.0111	0.0000	OK
960 minute winter	3	450	101.209	0.009	0.5	0.0046	0.0000	OK
960 minute winter	4	450	97.857	0.020	0.5	0.0125	0.0000	OK
960 minute winter	5	15	101.200	0.000	0.0	0.0000	0.0000	OK
960 minute winter	6	450	97.856	0.056	1.6	0.0801	0.0000	OK
960 minute winter	7	15	97.557	0.000	1.5	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
960 minute winter	1	1.000	2	0.5	1.529	0.015	0.0032	
960 minute winter	2	1.001	6	0.5	0.073	0.001	0.1280	
960 minute winter	3	2.000	4	0.5	1.473	0.016	0.0037	
960 minute winter	4	2.001	6	0.5	0.071	0.001	0.1155	
960 minute winter	5	3.000	6	0.0	0.000	0.000	0.0000	
960 minute winter	6	Hydro-Brake®	7	1.5				38.0

Results for 30 year 1440 minute summer. 1680 minute analysis at 30 minute timestep. Mass balance: 99.44%

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	720	101.210	0.010	0.6	0.0049	0.0000	OK
1440 minute summer	2	720	97.861	0.019	0.6	0.0120	0.0000	OK
1440 minute summer	3	720	101.210	0.010	0.6	0.0050	0.0000	OK
1440 minute summer	4	720	97.861	0.024	0.6	0.0151	0.0000	OK
1440 minute summer	5	30	101.200	0.000	0.0	0.0000	0.0000	OK
1440 minute summer	6	720	97.860	0.060	1.8	0.0859	0.0000	OK
1440 minute summer	7	30	97.557	0.000	1.7	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
1440 minute summer	1	1.000	2	0.6	1.612	0.018	0.0036	
1440 minute summer	2	1.001	6	0.6	0.074	0.002	0.1427	
1440 minute summer	3	2.000	4	0.6	1.552	0.019	0.0042	
1440 minute summer	4	2.001	6	0.6	0.071	0.002	0.1328	
1440 minute summer	5	3.000	6	0.0	0.000	0.000	0.0000	
1440 minute summer	6	Hydro-Brake®	7	1.7				44.3

Results for 30 year 1440 minute winter. 1680 minute analysis at 30 minute timestep. Mass balance: 99.38%

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	720	101.208	0.008	0.4	0.0040	0.0000	OK
1440 minute winter	2	720	97.858	0.016	0.4	0.0100	0.0000	OK
1440 minute winter	3	720	101.208	0.008	0.4	0.0041	0.0000	OK
1440 minute winter	4	720	97.853	0.016	0.4	0.0100	0.0000	OK
1440 minute winter	5	30	101.200	0.000	0.0	0.0000	0.0000	OK
1440 minute winter	6	720	97.850	0.050	1.3	0.0712	0.0000	OK
1440 minute winter	7	30	97.557	0.000	1.2	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
1440 minute winter	1	1.000	2	0.4	1.424	0.012	0.0027	
1440 minute winter	2	1.001	6	0.4	0.070	0.001	0.1078	
1440 minute winter	3	2.000	4	0.4	1.373	0.013	0.0032	
1440 minute winter	4	2.001	6	0.4	0.070	0.001	0.0945	
1440 minute winter	5	3.000	6	0.0	0.000	0.000	0.0000	
1440 minute winter	6	Hydro-Brake®	7	1.2				45.5

Results for 100 year +40% 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	10	101.234	0.034	7.5	0.0172	0.0000	OK
15 minute summer	2	15	98.176	0.334	7.5	0.2123	0.0000	OK
15 minute summer	3	10	101.235	0.035	7.5	0.0176	0.0000	OK
15 minute summer	4	15	98.177	0.340	7.5	0.2165	0.0000	OK
15 minute summer	5	1	101.200	0.000	0.0	0.0000	0.0000	OK
15 minute summer	6	15	98.176	0.376	14.1	0.5377	0.0000	SURCHARGED
15 minute summer	7	1	97.557	0.000	5.0	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
15 minute summer	1	1.000	2	7.5	3.337	0.226	0.0219	
15 minute summer	2	1.001	6	3.0	0.144	0.009	2.8908	
15 minute summer	3	2.000	4	7.5	3.213	0.238	0.0253	
15 minute summer	4	2.001	6	4.0	0.149	0.012	2.5647	
15 minute summer	5	3.000	6	0.0	0.000	0.000	0.0000	
15 minute summer	6	Hydro-Brake®	7	5.0				10.2

Results for 100 year +40% 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	10	101.235	0.035	7.9	0.0177	0.0000	OK
15 minute winter	2	15	98.224	0.382	7.9	0.2427	0.0000	OK
15 minute winter	3	10	101.236	0.035	7.9	0.0181	0.0000	OK
15 minute winter	4	16	98.224	0.387	7.9	0.2460	0.0000	OK
15 minute winter	5	1	101.200	0.000	0.0	0.0000	0.0000	OK
15 minute winter	6	16	98.225	0.425	16.0	0.6082	0.0000	SURCHARGED
15 minute winter	7	1	97.557	0.000	5.0	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
15 minute winter	1	1.000	2	7.9	3.381	0.238	0.0227	
15 minute winter	2	1.001	6	2.6	0.152	0.008	3.3539	
15 minute winter	3	2.000	4	7.9	3.256	0.250	0.0263	
15 minute winter	4	2.001	6	4.9	0.157	0.014	2.9662	
15 minute winter	5	3.000	6	0.0	0.000	0.000	0.0000	
15 minute winter	6	Hydro-Brake®	7	5.0				11.3

Results for 100 year +40% 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	18	101.234	0.034	7.6	0.0173	0.0000	OK
30 minute summer	2	25	98.268	0.426	7.6	0.2706	0.0000	OK
30 minute summer	3	18	101.235	0.035	7.6	0.0178	0.0000	OK
30 minute summer	4	25	98.268	0.431	7.6	0.2739	0.0000	OK
30 minute summer	5	1	101.200	0.000	0.0	0.0000	0.0000	OK
30 minute summer	6	25	98.268	0.468	14.1	0.6696	0.0000	SURCHARGED
30 minute summer	7	1	97.557	0.000	5.0	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
30 minute summer	1	1.000	2	7.6	3.351	0.230	0.0222	
30 minute summer	2	1.001	6	2.7	0.144	0.008	3.7484	
30 minute summer	3	2.000	4	7.6	3.227	0.242	0.0256	
30 minute summer	4	2.001	6	3.1	0.148	0.009	3.3086	
30 minute summer	5	3.000	6	0.0	0.000	0.000	0.0064	
30 minute summer	6	Hydro-Brake®	7	5.0				15.0

Results for 100 year +40% 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	18	101.232	0.032	6.9	0.0164	0.0000	OK
30 minute winter	2	27	98.345	0.503	6.9	0.3200	0.0000	OK
30 minute winter	3	18	101.233	0.033	6.9	0.0169	0.0000	OK
30 minute winter	4	28	98.345	0.508	6.9	0.3232	0.0000	OK
30 minute winter	5	1	101.200	0.000	0.0	0.0000	0.0000	OK
30 minute winter	6	27	98.345	0.545	13.4	0.7802	0.0000	SURCHARGED
30 minute winter	7	1	97.557	0.000	5.0	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
30 minute winter	1	1.000	2	6.9	3.266	0.209	0.0206	
30 minute winter	2	1.001	6	2.5	0.140	0.007	4.3470	
30 minute winter	3	2.000	4	6.9	3.144	0.220	0.0239	
30 minute winter	4	2.001	6	3.2	0.144	0.009	3.8291	
30 minute winter	5	3.000	6	0.0	0.000	0.000	0.0515	
30 minute winter	6	Hydro-Brake®	7	5.0				16.8

Results for 100 year +40% 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	33	101.231	0.031	6.4	0.0158	0.0000	OK
60 minute summer	2	43	98.342	0.500	6.4	0.3178	0.0000	OK
60 minute summer	3	33	101.232	0.032	6.4	0.0162	0.0000	OK
60 minute summer	4	43	98.342	0.505	6.4	0.3209	0.0000	OK
60 minute summer	5	1	101.200	0.000	0.0	0.0000	0.0000	OK
60 minute summer	6	43	98.342	0.542	12.3	0.7751	0.0000	SURCHARGED
60 minute summer	7	1	97.557	0.000	5.0	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
60 minute summer	1	1.000	2	6.4	3.201	0.193	0.0195	
60 minute summer	2	1.001	6	2.3	0.126	0.007	4.3238	
60 minute summer	3	2.000	4	6.4	3.082	0.204	0.0226	
60 minute summer	4	2.001	6	2.8	0.130	0.008	3.8091	
60 minute summer	5	3.000	6	0.0	0.000	0.000	0.0504	
60 minute summer	6	Hydro-Brake®	7	5.0				21.2

Results for 100 year +40% 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	33	101.228	0.028	5.2	0.0141	0.0000	OK
60 minute winter	2	47	98.563	0.721	5.2	0.4589	0.0000	SURCHARGED
60 minute winter	3	33	101.228	0.028	5.2	0.0145	0.0000	OK
60 minute winter	4	47	98.563	0.726	5.2	0.4616	0.0000	SURCHARGED
60 minute winter	5	1	101.200	0.000	0.0	0.0000	0.0000	OK
60 minute winter	6	47	98.561	0.761	10.4	1.0896	0.0000	SURCHARGED
60 minute winter	7	1	97.557	0.000	5.0	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
60 minute winter	1	1.000	2	5.2	3.024	0.157	0.0430	
60 minute winter	2	1.001	6	2.7	0.127	0.008	4.6975	
60 minute winter	3	2.000	4	5.2	2.912	0.166	0.0481	
60 minute winter	4	2.001	6	2.5	0.130	0.007	4.1209	
60 minute winter	5	3.000	6	0.0	0.000	0.000	0.0524	
60 minute winter	6	Hydro-Brake®	7	5.0				23.8

Results for 100 year +40% 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	64	101.226	0.026	4.6	0.0133	0.0000	OK
120 minute summer	2	78	98.336	0.494	4.6	0.3144	0.0000	OK
120 minute summer	3	64	101.227	0.027	4.6	0.0136	0.0000	OK
120 minute summer	4	78	98.336	0.499	4.6	0.3176	0.0000	OK
120 minute summer	5	2	101.200	0.000	0.0	0.0000	0.0000	OK
120 minute summer	6	78	98.336	0.536	9.6	0.7675	0.0000	SURCHARGED
120 minute summer	7	2	97.557	0.000	5.0	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
120 minute summer	1	1.000	2	4.6	2.922	0.139	0.0154	
120 minute summer	2	1.001	6	2.1	0.106	0.006	4.2872	
120 minute summer	3	2.000	4	4.6	2.815	0.147	0.0178	
120 minute summer	4	2.001	6	2.3	0.108	0.007	3.7777	
120 minute summer	5	3.000	6	0.0	0.000	0.000	0.0481	
120 minute summer	6	Hydro-Brake®	7	5.0				28.5

Results for 100 year +40% 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	64	101.223	0.023	3.6	0.0117	0.0000	OK
120 minute winter	2	86	98.382	0.540	3.6	0.3436	0.0000	OK
120 minute winter	3	64	101.224	0.024	3.6	0.0120	0.0000	OK
120 minute winter	4	86	98.382	0.545	3.6	0.3467	0.0000	OK
120 minute winter	5	2	101.200	0.000	0.0	0.0000	0.0000	OK
120 minute winter	6	86	98.382	0.582	8.0	0.8331	0.0000	SURCHARGED
120 minute winter	7	2	97.557	0.000	5.0	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
120 minute winter	1	1.000	2	3.6	2.729	0.109	0.0178	
120 minute winter	2	1.001	6	1.9	0.115	0.006	4.5577	
120 minute winter	3	2.000	4	3.6	2.627	0.115	0.0227	
120 minute winter	4	2.001	6	2.1	0.117	0.006	4.0108	
120 minute winter	5	3.000	6	0.0	0.000	0.000	0.0524	
120 minute winter	6	Hydro-Brake®	7	5.0				32.1

Results for 100 year +40% CC 180 minute summer. 420 minute analysis at 4 minute timestep. Mass balance: 99.88%

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	96	101.223	0.023	3.6	0.0117	0.0000	OK
180 minute summer	2	112	98.270	0.428	3.6	0.2721	0.0000	OK
180 minute summer	3	96	101.224	0.024	3.6	0.0120	0.0000	OK
180 minute summer	4	112	98.270	0.433	3.6	0.2753	0.0000	OK
180 minute summer	5	4	101.200	0.000	0.0	0.0000	0.0000	OK
180 minute summer	6	112	98.270	0.470	8.0	0.6723	0.0000	SURCHARGED
180 minute summer	7	4	97.557	0.000	5.0	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
180 minute summer	1	1.000	2	3.6	2.729	0.109	0.0129	
180 minute summer	2	1.001	6	1.9	0.093	0.006	3.7668	
180 minute summer	3	2.000	4	3.6	2.627	0.115	0.0149	
180 minute summer	4	2.001	6	2.1	0.095	0.006	3.3242	
180 minute summer	5	3.000	6	0.0	0.000	0.000	0.0074	
180 minute summer	6	Hydro-Brake®	7	5.0				33.3

Results for 100 year +40% CC 180 minute winter. 420 minute analysis at 4 minute timestep. Mass balance: 99.81%

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	96	101.220	0.020	2.8	0.0103	0.0000	OK
180 minute winter	2	120	98.252	0.410	2.8	0.2605	0.0000	OK
180 minute winter	3	96	101.221	0.021	2.8	0.0105	0.0000	OK
180 minute winter	4	120	98.252	0.415	2.8	0.2637	0.0000	OK
180 minute winter	5	4	101.200	0.000	0.0	0.0000	0.0000	OK
180 minute winter	6	120	98.252	0.452	6.8	0.6463	0.0000	SURCHARGED
180 minute winter	7	4	97.557	0.000	5.0	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
180 minute winter	1	1.000	2	2.8	2.541	0.085	0.0108	
180 minute winter	2	1.001	6	1.8	0.102	0.005	3.6071	
180 minute winter	3	2.000	4	2.8	2.447	0.089	0.0125	
180 minute winter	4	2.001	6	1.9	0.103	0.006	3.1846	
180 minute winter	5	3.000	6	0.0	0.000	0.000	0.0002	
180 minute winter	6	Hydro-Brake®	7	5.0				37.4

Results for 100 year +40% CC 240 minute summer. 480 minute analysis at 4 minute timestep. Mass balance: 99.87%

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	124	101.221	0.021	3.1	0.0108	0.0000	OK
240 minute summer	2	144	98.204	0.362	3.1	0.2302	0.0000	OK
240 minute summer	3	124	101.222	0.022	3.1	0.0111	0.0000	OK
240 minute summer	4	144	98.204	0.367	3.1	0.2334	0.0000	OK
240 minute summer	5	4	101.200	0.000	0.0	0.0000	0.0000	OK
240 minute summer	6	144	98.204	0.404	7.3	0.5781	0.0000	SURCHARGED
240 minute summer	7	4	97.557	0.000	5.0	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
240 minute summer	1	1.000	2	3.1	2.614	0.094	0.0116	
240 minute summer	2	1.001	6	1.8	0.099	0.005	3.1647	
240 minute summer	3	2.000	4	3.1	2.518	0.099	0.0134	
240 minute summer	4	2.001	6	2.0	0.101	0.006	2.7976	
240 minute summer	5	3.000	6	0.0	0.000	0.000	0.0000	
240 minute summer	6	Hydro-Brake®	7	5.0				36.8

Results for 100 year +40% CC 240 minute winter. 480 minute analysis at 4 minute timestep. Mass balance: 99.91%

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	124	101.218	0.018	2.3	0.0093	0.0000	OK
240 minute winter	2	152	98.150	0.308	2.3	0.1962	0.0000	OK
240 minute winter	3	124	101.219	0.019	2.3	0.0096	0.0000	OK
240 minute winter	4	152	98.150	0.313	2.3	0.1994	0.0000	OK
240 minute winter	5	4	101.200	0.000	0.0	0.0000	0.0000	OK
240 minute winter	6	152	98.151	0.351	6.1	0.5016	0.0000	SURCHARGED
240 minute winter	7	4	97.557	0.000	5.0	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
240 minute winter	1	1.000	2	2.3	2.399	0.070	0.0094	
240 minute winter	2	1.001	6	1.7	0.078	0.005	2.6422	
240 minute winter	3	2.000	4	2.3	2.310	0.073	0.0108	
240 minute winter	4	2.001	6	1.8	0.079	0.005	2.3397	
240 minute winter	5	3.000	6	0.0	0.000	0.000	0.0000	
240 minute winter	6	Hydro-Brake®	7	5.0				41.4

Results for 100 year +40% 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	184	101.219	0.019	2.5	0.0097	0.0000	OK
360 minute summer	2	200	98.096	0.254	2.5	0.1615	0.0000	OK
360 minute summer	3	184	101.220	0.020	2.5	0.0100	0.0000	OK
360 minute summer	4	200	98.096	0.259	2.5	0.1647	0.0000	OK
360 minute summer	5	8	101.200	0.000	0.0	0.0000	0.0000	OK
360 minute summer	6	200	98.096	0.296	6.3	0.4234	0.0000	SURCHARGED
360 minute summer	7	8	97.557	0.000	5.0	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
360 minute summer	1	1.000	2	2.5	2.456	0.075	0.0099	
360 minute summer	2	1.001	6	1.7	0.077	0.005	2.0996	
360 minute summer	3	2.000	4	2.5	2.366	0.079	0.0115	
360 minute summer	4	2.001	6	1.8	0.071	0.005	1.8635	
360 minute summer	5	3.000	6	0.0	0.000	0.000	0.0000	
360 minute summer	6	Hydro-Brake®	7	5.0				42.4

Results for 100 year +40% 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	184	101.216	0.016	1.8	0.0083	0.0000	OK
360 minute winter	2	208	98.003	0.161	1.8	0.1026	0.0000	OK
360 minute winter	3	184	101.217	0.017	1.8	0.0085	0.0000	OK
360 minute winter	4	208	98.003	0.166	1.8	0.1057	0.0000	OK
360 minute winter	5	8	101.200	0.000	0.0	0.0000	0.0000	OK
360 minute winter	6	208	98.003	0.203	5.2	0.2908	0.0000	SURCHARGED
360 minute winter	7	8	97.557	0.000	4.8	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
360 minute winter	1	1.000	2	1.8	2.235	0.054	0.0079	
360 minute winter	2	1.001	6	1.6	0.074	0.005	1.2079	
360 minute winter	3	2.000	4	1.8	2.151	0.057	0.0091	
360 minute winter	4	2.001	6	1.6	0.074	0.005	1.0792	
360 minute winter	5	3.000	6	0.0	0.000	0.000	0.0000	
360 minute winter	6	Hydro-Brake®	7	4.8				48.0

Results for 100 year +40% 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	248	101.217	0.017	2.0	0.0087	0.0000	OK
480 minute summer	2	264	98.022	0.180	2.0	0.1148	0.0000	OK
480 minute summer	3	248	101.218	0.018	2.0	0.0089	0.0000	OK
480 minute summer	4	264	98.022	0.185	2.0	0.1180	0.0000	OK
480 minute summer	5	8	101.200	0.000	0.0	0.0000	0.0000	OK
480 minute summer	6	264	98.022	0.222	5.5	0.3184	0.0000	SURCHARGED
480 minute summer	7	8	97.557	0.000	4.9	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
480 minute summer	1	1.000	2	2.0	2.304	0.060	0.0085	
480 minute summer	2	1.001	6	1.6	0.073	0.005	1.3864	
480 minute summer	3	2.000	4	2.0	2.218	0.064	0.0098	
480 minute summer	4	2.001	6	1.7	0.071	0.005	1.2363	
480 minute summer	5	3.000	6	0.0	0.000	0.000	0.0000	
480 minute summer	6	Hydro-Brake®	7	4.9				47.0

Results for 100 year +40% CC 480 minute winter. 720 minute analysis at 8 minute timestep. Mass balance: 99.86%

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	248	101.215	0.015	1.5	0.0076	0.0000	OK
480 minute winter	2	256	97.935	0.093	1.5	0.0589	0.0000	OK
480 minute winter	3	248	101.215	0.015	1.5	0.0077	0.0000	OK
480 minute winter	4	256	97.935	0.098	1.5	0.0621	0.0000	OK
480 minute winter	5	8	101.200	0.000	0.0	0.0000	0.0000	OK
480 minute winter	6	256	97.935	0.135	4.6	0.1926	0.0000	OK
480 minute winter	7	8	97.557	0.000	4.5	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
480 minute winter	1	1.000	2	1.5	2.119	0.045	0.0069	
480 minute winter	2	1.001	6	1.4	0.080	0.004	0.6222	
480 minute winter	3	2.000	4	1.5	2.042	0.048	0.0080	
480 minute winter	4	2.001	6	1.4	0.081	0.004	0.5620	
480 minute winter	5	3.000	6	0.0	0.000	0.000	0.0000	
480 minute winter	6	Hydro-Brake®	7	4.5				52.9

Results for 100 year +40% 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	315	101.216	0.016	1.7	0.0080	0.0000	OK
600 minute summer	2	315	97.969	0.127	1.7	0.0809	0.0000	OK
600 minute summer	3	315	101.216	0.016	1.7	0.0082	0.0000	OK
600 minute summer	4	315	97.969	0.132	1.7	0.0840	0.0000	OK
600 minute summer	5	15	101.200	0.000	0.0	0.0000	0.0000	OK
600 minute summer	6	315	97.969	0.169	5.0	0.2420	0.0000	SURCHARGED
600 minute summer	7	15	97.557	0.000	4.7	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
600 minute summer	1	1.000	2	1.7	2.200	0.051	0.0076	
600 minute summer	2	1.001	6	1.5	0.071	0.004	0.9051	
600 minute summer	3	2.000	4	1.7	2.117	0.054	0.0087	
600 minute summer	4	2.001	6	1.6	0.070	0.005	0.8118	
600 minute summer	5	3.000	6	0.0	0.000	0.000	0.0000	
600 minute summer	6	Hydro-Brake®	7	4.7				51.4

Results for 100 year +40% CC 600 minute winter. 840 minute analysis at 15 minute timestep. Mass balance: 99.29%

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	315	101.214	0.014	1.3	0.0070	0.0000	OK
600 minute winter	2	315	97.908	0.066	1.3	0.0417	0.0000	OK
600 minute winter	3	315	101.214	0.014	1.3	0.0072	0.0000	OK
600 minute winter	4	315	97.908	0.070	1.3	0.0448	0.0000	OK
600 minute winter	5	15	101.200	0.000	0.0	0.0000	0.0000	OK
600 minute winter	6	315	97.907	0.107	3.9	0.1537	0.0000	OK
600 minute winter	7	15	97.557	0.000	3.8	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
600 minute winter	1	1.000	2	1.3	2.031	0.039	0.0062	
600 minute winter	2	1.001	6	1.2	0.071	0.004	0.4223	
600 minute winter	3	2.000	4	1.3	1.956	0.041	0.0072	
600 minute winter	4	2.001	6	1.3	0.067	0.004	0.3846	
600 minute winter	5	3.000	6	0.0	0.000	0.000	0.0000	
600 minute winter	6	Hydro-Brake®	7	3.8				56.3

Results for 100 year +40% 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	375	101.215	0.015	1.5	0.0076	0.0000	OK
720 minute summer	2	375	97.936	0.094	1.5	0.0600	0.0000	OK
720 minute summer	3	375	101.215	0.015	1.5	0.0077	0.0000	OK
720 minute summer	4	375	97.936	0.099	1.5	0.0632	0.0000	OK
720 minute summer	5	15	101.200	0.000	0.0	0.0000	0.0000	OK
720 minute summer	6	375	97.936	0.136	4.6	0.1950	0.0000	OK
720 minute summer	7	15	97.557	0.000	4.5	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
720 minute summer	1	1.000	2	1.5	2.119	0.045	0.0069	
720 minute summer	2	1.001	6	1.4	0.077	0.004	0.6359	
720 minute summer	3	2.000	4	1.5	2.042	0.048	0.0080	
720 minute summer	4	2.001	6	1.4	0.070	0.004	0.5741	
720 minute summer	5	3.000	6	0.0	0.000	0.000	0.0000	
720 minute summer	6	Hydro-Brake®	7	4.5				53.8

Results for 100 year +40% CC 720 minute winter. 960 minute analysis at 15 minute timestep. Mass balance: 99.22%

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	360	101.213	0.013	1.1	0.0065	0.0000	OK
720 minute winter	2	360	97.895	0.053	1.1	0.0336	0.0000	OK
720 minute winter	3	360	101.213	0.013	1.1	0.0067	0.0000	OK
720 minute winter	4	360	97.895	0.058	1.1	0.0368	0.0000	OK
720 minute winter	5	15	101.200	0.000	0.0	0.0000	0.0000	OK
720 minute winter	6	360	97.895	0.095	3.4	0.1355	0.0000	OK
720 minute winter	7	15	97.557	0.000	3.3	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
720 minute winter	1	1.000	2	1.1	1.933	0.033	0.0056	
720 minute winter	2	1.001	6	1.1	0.074	0.003	0.3374	
720 minute winter	3	2.000	4	1.1	1.862	0.035	0.0064	
720 minute winter	4	2.001	6	1.1	0.070	0.003	0.3089	
720 minute winter	5	3.000	6	0.0	0.000	0.000	0.0000	
720 minute winter	6	Hydro-Brake®	7	3.3				60.0

Results for 100 year +40% CC 960 minute summer. 1200 minute analysis at 15 minute timestep. Mass balance: 99.59%

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	495	101.214	0.014	1.3	0.0070	0.0000	OK
960 minute summer	2	495	97.907	0.065	1.3	0.0417	0.0000	OK
960 minute summer	3	495	101.214	0.014	1.3	0.0072	0.0000	OK
960 minute summer	4	495	97.907	0.070	1.3	0.0448	0.0000	OK
960 minute summer	5	15	101.200	0.000	0.0	0.0000	0.0000	OK
960 minute summer	6	495	97.907	0.107	3.9	0.1536	0.0000	OK
960 minute summer	7	15	97.557	0.000	3.8	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
960 minute summer	1	1.000	2	1.3	2.032	0.039	0.0063	
960 minute summer	2	1.001	6	1.2	0.071	0.004	0.4221	
960 minute summer	3	2.000	4	1.3	1.956	0.041	0.0072	
960 minute summer	4	2.001	6	1.3	0.070	0.004	0.3844	
960 minute summer	5	3.000	6	0.0	0.000	0.000	0.0000	
960 minute summer	6	Hydro-Brake®	7	3.8				57.7

Results for 100 year +40% CC 960 minute winter. 1200 minute analysis at 15 minute timestep. Mass balance: 98.94%

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	465	101.212	0.012	0.9	0.0059	0.0000	OK
960 minute winter	2	465	97.880	0.038	0.9	0.0241	0.0000	OK
960 minute winter	3	465	101.212	0.012	0.9	0.0060	0.0000	OK
960 minute winter	4	465	97.880	0.043	0.9	0.0272	0.0000	OK
960 minute winter	5	15	101.200	0.000	0.0	0.0000	0.0000	OK
960 minute winter	6	465	97.880	0.080	2.7	0.1138	0.0000	OK
960 minute winter	7	15	97.557	0.000	2.7	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
960 minute winter	1	1.000	2	0.9	1.819	0.027	0.0048	
960 minute winter	2	1.001	6	0.9	0.074	0.003	0.2447	
960 minute winter	3	2.000	4	0.9	1.752	0.029	0.0056	
960 minute winter	4	2.001	6	0.9	0.070	0.003	0.2256	
960 minute winter	5	3.000	6	0.0	0.000	0.000	0.0000	
960 minute winter	6	Hydro-Brake®	7	2.7				66.6

Results for 100 year +40% CC 1440 minute summer. 1680 minute analysis at 30 minute timestep. Mass balance: 99.30%

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	720	101.212	0.012	0.9	0.0059	0.0000	OK
1440 minute summer	2	720	97.880	0.038	0.9	0.0241	0.0000	OK
1440 minute summer	3	720	101.212	0.012	0.9	0.0060	0.0000	OK
1440 minute summer	4	720	97.880	0.043	0.9	0.0272	0.0000	OK
1440 minute summer	5	30	101.200	0.000	0.0	0.0000	0.0000	OK
1440 minute summer	6	720	97.879	0.079	2.7	0.1138	0.0000	OK
1440 minute summer	7	30	97.557	0.000	2.7	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
1440 minute summer	1	1.000	2	0.9	1.819	0.027	0.0048	
1440 minute summer	2	1.001	6	0.9	0.071	0.003	0.2445	
1440 minute summer	3	2.000	4	0.9	1.751	0.029	0.0056	
1440 minute summer	4	2.001	6	0.9	0.066	0.003	0.2253	
1440 minute summer	5	3.000	6	0.0	0.000	0.000	0.0000	
1440 minute summer	6	Hydro-Brake®	7	2.7				65.0

Results for 100 year +40% CC 1440 minute winter. 1680 minute analysis at 30 minute timestep. Mass balance: 99.03%

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	690	101.210	0.010	0.7	0.0052	0.0000	OK
1440 minute winter	2	690	97.868	0.026	0.7	0.0168	0.0000	OK
1440 minute winter	3	690	101.211	0.011	0.7	0.0054	0.0000	OK
1440 minute winter	4	690	97.868	0.031	0.7	0.0199	0.0000	OK
1440 minute winter	5	30	101.200	0.000	0.0	0.0000	0.0000	OK
1440 minute winter	6	690	97.868	0.068	2.1	0.0971	0.0000	OK
1440 minute winter	7	30	97.557	0.000	2.1	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
1440 minute winter	1	1.000	2	0.7	1.687	0.021	0.0040	
1440 minute winter	2	1.001	6	0.7	0.073	0.002	0.1805	
1440 minute winter	3	2.000	4	0.7	1.624	0.022	0.0047	
1440 minute winter	4	2.001	6	0.7	0.071	0.002	0.1679	
1440 minute winter	5	3.000	6	0.0	0.000	0.000	0.0000	
1440 minute winter	6	Hydro-Brake®	7	2.1				73.8