

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)	17.000	Minimum Backdrop Height (m)	0.200
Ratio-R	0.300	Preferred Cover Depth (m)	0.600
CV	0.750	Include Intermediate Ground	x
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	0.006	5.00	91.350	290	377446.588	407361.312	0.750
2	0.000		91.140	450	377446.772	407373.263	0.779
3	0.006	5.00	91.350	290	377460.216	407361.527	0.750
4	0.000		91.263	450	377460.216	407373.172	0.896
5	0.000		91.216	450	377455.900	407373.263	1.067
6	0.021	5.00	90.835	450	377446.065	407380.346	0.750
7	0.000		90.931	1200	377455.952	407380.394	0.945
8			90.771	1200	377455.946	407384.396	0.825

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	11.952	0.600	90.600	90.361	0.239	50.0	150	5.14	50.0
1.001	2	5	9.128	0.600	90.361	90.149	0.212	43.1	150	5.24	50.0
2.000	3	4	11.645	0.600	90.600	90.367	0.233	50.0	150	5.14	50.0
2.001	4	5	4.317	0.600	90.367	90.149	0.218	19.8	150	5.17	50.0
1.002	5	7	7.131	0.600	90.149	89.986	0.163	43.7	150	5.32	50.0
3.000	6	7	9.887	0.600	90.085	89.986	0.099	100.0	150	5.16	50.0
1.003	7	8	4.002	0.600	89.986	89.946	0.040	100.0	150	5.38	50.0

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	1.426	25.2	0.8	0.600	0.629	0.006	0.0	18	0.650
1.001	1.538	27.2	0.8	0.629	0.917	0.006	0.0	18	0.686
2.000	1.426	25.2	0.8	0.600	0.746	0.006	0.0	18	0.650
2.001	2.273	40.2	0.8	0.746	0.917	0.006	0.0	15	0.906
1.002	1.525	27.0	1.6	0.917	0.795	0.012	0.0	25	0.840
3.000	1.005	17.8	2.8	0.600	0.795	0.021	0.0	41	0.740
1.003	1.005	17.8	4.5	0.795	0.675	0.033	0.0	51	0.838

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	11.952	50.0	150	Circular_Default Sewer Type	91.350	90.600	0.600	91.140	90.361	0.629
1.001	9.128	43.1	150	Circular_Default Sewer Type	91.140	90.361	0.629	91.216	90.149	0.917
2.000	11.645	50.0	150	Circular_Default Sewer Type	91.350	90.600	0.600	91.263	90.367	0.746
2.001	4.317	19.8	150	Circular_Default Sewer Type	91.263	90.367	0.746	91.216	90.149	0.917
1.002	7.131	43.7	150	Circular_Default Sewer Type	91.216	90.149	0.917	90.931	89.986	0.795
3.000	9.887	100.0	150	Circular_Default Sewer Type	90.835	90.085	0.600	90.931	89.986	0.795
1.003	4.002	100.0	150	Circular_Default Sewer Type	90.931	89.986	0.795	90.771	89.946	0.675

Link	US Node	Dia (mm)	Node Type	MH Type	DS Node	Dia (mm)	Node Type	MH Type
1.000	1	290	Manhole	Adoptable	2	450	Manhole	Adoptable
1.001	2	450	Manhole	Adoptable	5	450	Manhole	Adoptable
2.000	3	290	Manhole	Adoptable	4	450	Manhole	Adoptable
2.001	4	450	Manhole	Adoptable	5	450	Manhole	Adoptable
1.002	5	450	Manhole	Adoptable	7	1200	Manhole	Adoptable
3.000	6	450	Manhole	Adoptable	7	1200	Manhole	Adoptable
1.003	7	1200	Manhole	Adoptable	8	1200	Manhole	Adoptable

Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)
1	377446.588	407361.312	91.350	0.750	290				
						0	1.000	90.600	150
2	377446.772	407373.263	91.140	0.779	450		1	1.000	90.361
						0	1.001	90.361	150
3	377460.216	407361.527	91.350	0.750	290				
						0	2.000	90.600	150
4	377460.216	407373.172	91.263	0.896	450		1	2.000	90.367
						0	2.001	90.149	150
5	377455.900	407373.263	91.216	1.067	450		2	1.001	90.149
						0	1.002	90.149	150
6	377446.065	407380.346	90.835	0.750	450				
						0	3.000	90.085	150
7	377455.952	407380.394	90.931	0.945	1200		2	1.002	89.986
						0	1.003	89.986	150
8	377455.946	407384.396	90.771	0.825	1200		1	1.003	89.946

Node 7 Online Hydro-Brake® Control

Flap Valve	x	Objective	(HE) Minimise upstream storage
Replaces Downstream Link	✓	Sump Available	✓
Invert Level (m)	89.986	Product Number	CTL-SHE-0106-5000-0945-5000
Design Depth (m)	0.945	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)	0.200	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 8 nodes (1 outfall) and 7 links
The total impermeable area is 0.033 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	290
2	1200	450
3	1200	290
4	1200	450
5	1200	450
6	1200	450

5 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	89	0.900
4	2.000	2.001	0.250	0.250	89	0.900
5	2.001	1.002	0.250	0.250	89	0.900
5	1.001	1.002	0.250	0.250	90	0.900
7	3.000	1.003	0.250	0.250	90	0.900

No circular links have diameters < 150mm

No links have lengths > 100.000m

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

1 link crosses one or more other links

US Node	DS Node	Link	Network	Link	Easting (m)	Northing (m)
4	5	2.001	Foul Network 1	1.001	377458.476	407373.209

1 link has cover depth outside the range 0.600-3.000m

US Node	DS Node	Link	Minimum Depth (m)	Maximum Depth (m)
1	2	1.000	0.410	0.629

No nodes have backdrops outside the range 0.200-1.500m

No links have full bore velocity outside the range 1.000-3.000m/s

6 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
1	2	1.000	0.661	2 year 15 minute summer
2	5	1.001	0.527	2 year 15 minute summer
3	4	2.000	0.729	2 year 15 minute summer
4	5	2.001	0.590	2 year 15 minute summer
5	7	1.002	0.219	2 year 15 minute winter
6	7	3.000	0.486	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	84.280	23.848	2 year 600 minute winter	7.632	3.055
1 year 15 minute winter	59.144	23.848	2 year 720 minute summer	10.095	2.706
1 year 30 minute summer	57.102	16.158	2 year 720 minute winter	6.784	2.706
1 year 30 minute winter	40.072	16.158	2 year 960 minute summer	8.482	2.233
1 year 60 minute summer	40.398	10.676	2 year 960 minute winter	5.619	2.233
1 year 60 minute winter	26.839	10.676	2 year 1440 minute summer	6.362	1.705
1 year 120 minute summer	26.432	6.985	2 year 1440 minute winter	4.276	1.705
1 year 120 minute winter	17.561	6.985	30 year 15 minute summer	205.071	58.028
1 year 180 minute summer	21.115	5.434	30 year 15 minute winter	143.910	58.028
1 year 180 minute winter	13.725	5.434	30 year 30 minute summer	140.191	39.669
1 year 240 minute summer	17.197	4.545	30 year 30 minute winter	98.380	39.669
1 year 240 minute winter	11.425	4.545	30 year 60 minute summer	98.615	26.061
1 year 360 minute summer	13.694	3.524	30 year 60 minute winter	65.517	26.061
1 year 360 minute winter	8.901	3.524	30 year 120 minute summer	63.038	16.659
1 year 480 minute summer	11.066	2.925	30 year 120 minute winter	41.881	16.659
1 year 480 minute winter	7.352	2.925	30 year 180 minute summer	49.285	12.683
1 year 600 minute summer	9.254	2.531	30 year 180 minute winter	32.037	12.683
1 year 600 minute winter	6.323	2.531	30 year 240 minute summer	39.344	10.398
1 year 720 minute summer	8.394	2.250	30 year 240 minute winter	26.139	10.398
1 year 720 minute winter	5.641	2.250	30 year 360 minute summer	30.343	7.808
1 year 960 minute summer	7.097	1.869	30 year 360 minute winter	19.724	7.808
1 year 960 minute winter	4.701	1.869	30 year 480 minute summer	24.111	6.372
1 year 1440 minute summer	5.374	1.440	30 year 480 minute winter	16.019	6.372
1 year 1440 minute winter	3.611	1.440	30 year 600 minute summer	19.882	5.438
2 year 15 minute summer	109.066	30.862	30 year 600 minute winter	13.585	5.438
2 year 15 minute winter	76.538	30.862	30 year 720 minute summer	17.819	4.776
2 year 30 minute summer	73.782	20.878	30 year 720 minute winter	11.975	4.776
2 year 30 minute winter	51.777	20.878	30 year 960 minute summer	14.763	3.887
2 year 60 minute summer	51.720	13.668	30 year 960 minute winter	9.779	3.887
2 year 60 minute winter	34.361	13.668	30 year 1440 minute summer	10.836	2.904
2 year 120 minute summer	33.252	8.787	30 year 1440 minute winter	7.282	2.904
2 year 120 minute winter	22.092	8.787	100 year +40% CC 15 minute summer	368.854	104.373
2 year 180 minute summer	26.258	6.757	100 year +40% CC 15 minute winter	258.845	104.373
2 year 180 minute winter	17.069	6.757	100 year +40% CC 30 minute summer	255.101	72.185
2 year 240 minute summer	21.199	5.602	100 year +40% CC 30 minute winter	179.018	72.185
2 year 240 minute winter	14.084	5.602	100 year +40% CC 60 minute summer	180.954	47.821
2 year 360 minute summer	16.686	4.294	100 year +40% CC 60 minute winter	120.222	47.821
2 year 360 minute winter	10.846	4.294	100 year +40% CC 120 minute summer	116.088	30.679
2 year 480 minute summer	13.415	3.545	100 year +40% CC 120 minute winter	77.126	30.679
2 year 480 minute winter	8.912	3.545	100 year +40% CC 180 minute summer	90.626	23.321
2 year 600 minute summer	11.170	3.055	100 year +40% CC 180 minute winter	58.909	23.321

Rainfall

Event	Peak Intensity (mm/hr)	Average Intensity (mm/hr)	Event	Peak Intensity (mm/hr)	Average Intensity (mm/hr)
100 year +40% CC 240 minute summer	72.104	19.055	100 year +40% CC 600 minute winter	24.472	9.797
100 year +40% CC 240 minute winter	47.904	19.055	100 year +40% CC 720 minute summer	31.983	8.572
100 year +40% CC 360 minute summer	55.175	14.198	100 year +40% CC 720 minute winter	21.495	8.572
100 year +40% CC 360 minute winter	35.865	14.198	100 year +40% CC 960 minute summer	26.337	6.935
100 year +40% CC 480 minute summer	43.619	11.527	100 year +40% CC 960 minute winter	17.446	6.935
100 year +40% CC 480 minute winter	28.979	11.527	100 year +40% CC 1440 minute summer	19.151	5.133
100 year +40% CC 600 minute summer	35.816	9.797	100 year +40% CC 1440 minute winter	12.870	5.133

Results for 1 year Critical Storm Duration. Lowest mass balance: 97.08%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	1	10	90.617	0.017	0.7	0.0039	0.0000	OK
15 minute winter	2	11	90.377	0.016	0.7	0.0026	0.0000	OK
15 minute winter	3	10	90.618	0.018	0.7	0.0040	0.0000	OK
15 minute winter	4	11	90.381	0.014	0.7	0.0022	0.0000	OK
15 minute winter	5	11	90.172	0.023	1.3	0.0036	0.0000	OK
15 minute winter	6	10	90.121	0.036	2.3	0.0260	0.0000	OK
15 minute winter	7	12	90.079	0.093	3.5	0.1049	0.0000	OK
15 minute summer	8	1	89.946	0.000	3.2	0.0000	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute winter	1	1.000	2	0.7	0.634	0.027	0.0128	
15 minute winter	2	1.001	5	0.7	0.501	0.025	0.0123	
15 minute winter	3	2.000	4	0.7	0.693	0.027	0.0114	
15 minute winter	4	2.001	5	0.7	0.591	0.017	0.0053	
15 minute winter	5	1.002	7	1.3	0.211	0.049	0.0465	
15 minute winter	6	3.000	7	2.3	0.486	0.127	0.0721	
15 minute winter	7	Hydro-Brake®	8	3.3				1.7

Results for 2 year Critical Storm Duration. Lowest mass balance: 97.08%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	1	10	90.619	0.019	0.8	0.0042	0.0000	OK
15 minute summer	2	11	90.379	0.018	0.8	0.0028	0.0000	OK
15 minute summer	3	10	90.619	0.019	0.8	0.0044	0.0000	OK
15 minute summer	4	11	90.382	0.015	0.8	0.0023	0.0000	OK
15 minute summer	5	11	90.174	0.025	1.6	0.0039	0.0000	OK
15 minute winter	6	10	90.126	0.041	2.9	0.0293	0.0000	OK
15 minute winter	7	12	90.103	0.117	4.5	0.1324	0.0000	OK
15 minute summer	8	1	89.946	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 (m³)	Discharge Vol (m³)
15 minute summer	1	1.000	2	0.8	0.661	0.032	0.0145	
15 minute summer	2	1.001	5	0.8	0.527	0.029	0.0140	
15 minute summer	3	2.000	4	0.8	0.729	0.032	0.0129	
15 minute summer	4	2.001	5	0.8	0.590	0.020	0.0060	
15 minute summer	5	1.002	7	1.6	0.215	0.059	0.0578	
15 minute winter	6	3.000	7	2.9	0.486	0.162	0.0917	
15 minute winter	7	Hydro-Brake®	8	4.2				2.1

Results for 30 year Critical Storm Duration. Lowest mass balance: 97.08%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	1	10	90.626	0.026	1.6	0.0059	0.0000	OK
15 minute winter	2	10	90.385	0.024	1.6	0.0039	0.0000	OK
15 minute winter	3	10	90.627	0.027	1.6	0.0061	0.0000	OK
15 minute winter	4	10	90.387	0.020	1.6	0.0032	0.0000	OK
15 minute winter	5	13	90.300	0.151	3.1	0.0241	0.0000	SURCHARGED
15 minute winter	6	13	90.303	0.218	5.5	0.1567	0.0000	SURCHARGED
15 minute winter	7	13	90.299	0.313	6.5	0.3542	0.0000	SURCHARGED
15 minute summer	8	1	89.946	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 (m³)	Discharge Vol (m³)
15 minute winter	1	1.000	2	1.6	0.807	0.063	0.0234	
15 minute winter	2	1.001	5	1.6	0.620	0.057	0.0870	
15 minute winter	3	2.000	4	1.6	0.889	0.063	0.0208	
15 minute winter	4	2.001	5	1.6	0.701	0.039	0.0404	
15 minute winter	5	1.002	7	2.6	0.213	0.095	0.1255	
15 minute winter	6	3.000	7	5.2	0.545	0.293	0.1741	
15 minute winter	7	Hydro-Brake®	8	5.0				4.0

Results for 100 year +40% CC Critical Storm Duration. Lowest mass balance: 97.08%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
30 minute winter	1	25	90.723	0.123	2.3	0.0279	0.0000	OK
30 minute winter	2	25	90.723	0.362	3.7	0.0576	0.0000	SURCHARGED
30 minute winter	3	25	90.724	0.124	2.3	0.0279	0.0000	OK
30 minute winter	4	25	90.723	0.356	2.3	0.0566	0.0000	SURCHARGED
30 minute winter	5	24	90.723	0.574	4.2	0.0912	0.0000	SURCHARGED
30 minute winter	6	24	90.726	0.641	8.1	0.4608	0.0000	FLOOD RISK
30 minute winter	7	24	90.722	0.736	8.1	0.8326	0.0000	FLOOD RISK
15 minute summer	8	1	89.946	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 (m³)	Discharge Vol (m³)
30 minute winter	1	1.000	2	2.3	0.884	0.091	0.1977	
30 minute winter	2	1.001	5	2.1	0.607	0.078	0.1607	
30 minute winter	3	2.000	4	2.3	0.973	0.091	0.1929	
30 minute winter	4	2.001	5	2.1	0.698	0.053	0.0760	
30 minute winter	5	1.002	7	3.6	0.207	0.133	0.1255	
30 minute winter	6	3.000	7	8.1	0.559	0.456	0.1741	
30 minute winter	7	Hydro-Brake®	8	5.0				10.0

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 (m³)	Flood (m³)	Status
15 minute summer	1	10	90.616	0.016	0.6	0.0037	0.0000	OK
15 minute summer	2	11	90.376	0.015	0.6	0.0025	0.0000	OK
15 minute summer	3	10	90.617	0.017	0.6	0.0038	0.0000	OK
15 minute summer	4	11	90.380	0.013	0.6	0.0021	0.0000	OK
15 minute summer	5	11	90.171	0.022	1.2	0.0034	0.0000	OK
15 minute summer	6	10	90.120	0.035	2.2	0.0255	0.0000	OK
15 minute summer	7	11	90.076	0.090	3.3	0.1014	0.0000	OK
15 minute summer	8	1	89.946	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 (m³)	Discharge Vol (m³)
15 minute summer	1	1.000	2	0.6	0.609	0.024	0.0119	
15 minute summer	2	1.001	5	0.6	0.483	0.022	0.0114	
15 minute summer	3	2.000	4	0.6	0.667	0.024	0.0105	
15 minute summer	4	2.001	5	0.6	0.543	0.015	0.0049	
15 minute summer	5	1.002	7	1.2	0.208	0.044	0.0447	
15 minute summer	6	3.000	7	2.2	0.445	0.123	0.0698	
15 minute summer	7	Hydro-Brake®	8	3.2				1.5

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 (m³)	Flood (m³)	Status
15 minute winter	1	10	90.617	0.017	0.7	0.0039	0.0000	OK
15 minute winter	2	11	90.377	0.016	0.7	0.0026	0.0000	OK
15 minute winter	3	10	90.618	0.018	0.7	0.0040	0.0000	OK
15 minute winter	4	11	90.381	0.014	0.7	0.0022	0.0000	OK
15 minute winter	5	11	90.172	0.023	1.3	0.0036	0.0000	OK
15 minute winter	6	10	90.121	0.036	2.3	0.0260	0.0000	OK
15 minute winter	7	12	90.079	0.093	3.5	0.1049	0.0000	OK
15 minute winter	8	1	89.946	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 (m³)	Discharge Vol (m³)
15 minute winter	1	1.000	2	0.7	0.634	0.027	0.0128	
15 minute winter	2	1.001	5	0.7	0.501	0.025	0.0123	
15 minute winter	3	2.000	4	0.7	0.693	0.027	0.0114	
15 minute winter	4	2.001	5	0.7	0.591	0.017	0.0053	
15 minute winter	5	1.002	7	1.3	0.211	0.049	0.0465	
15 minute winter	6	3.000	7	2.3	0.486	0.127	0.0721	
15 minute winter	7	Hydro-Brake®	8	3.3				1.7

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 (m³)	Flood (m³)	Status
30 minute summer	1	18	90.616	0.016	0.6	0.0037	0.0000	OK
30 minute summer	2	19	90.376	0.015	0.6	0.0025	0.0000	OK
30 minute summer	3	18	90.617	0.017	0.6	0.0038	0.0000	OK
30 minute summer	4	19	90.380	0.013	0.6	0.0020	0.0000	OK
30 minute summer	5	19	90.170	0.021	1.2	0.0034	0.0000	OK
30 minute summer	6	18	90.119	0.034	2.0	0.0244	0.0000	OK
30 minute summer	7	19	90.072	0.086	3.2	0.0972	0.0000	OK
30 minute summer	8	1	89.946	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 (m³)	Discharge Vol (m³)
30 minute summer	1	1.000	2	0.6	0.607	0.024	0.0118	
30 minute summer	2	1.001	5	0.6	0.483	0.022	0.0114	
30 minute summer	3	2.000	4	0.6	0.667	0.024	0.0105	
30 minute summer	4	2.001	5	0.6	0.541	0.015	0.0049	
30 minute summer	5	1.002	7	1.2	0.209	0.044	0.0427	
30 minute summer	6	3.000	7	2.0	0.422	0.113	0.0661	
30 minute summer	7	Hydro-Brake®	8	3.0				2.0

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 (m³)	Flood (m³)	Status
30 minute winter	1	17	90.615	0.015	0.5	0.0034	0.0000	OK
30 minute winter	2	18	90.375	0.014	0.5	0.0023	0.0000	OK
30 minute winter	3	17	90.615	0.015	0.5	0.0035	0.0000	OK
30 minute winter	4	18	90.379	0.012	0.5	0.0019	0.0000	OK
30 minute winter	5	18	90.169	0.020	1.0	0.0031	0.0000	OK
30 minute winter	6	18	90.117	0.032	1.8	0.0231	0.0000	OK
30 minute winter	7	18	90.065	0.079	2.8	0.0893	0.0000	OK
30 minute winter	8	1	89.946	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 (m³)	Discharge Vol (m³)
30 minute winter	1	1.000	2	0.5	0.576	0.020	0.0104	
30 minute winter	2	1.001	5	0.5	0.458	0.018	0.0100	
30 minute winter	3	2.000	4	0.5	0.634	0.020	0.0093	
30 minute winter	4	2.001	5	0.5	0.513	0.012	0.0043	
30 minute winter	5	1.002	7	1.0	0.198	0.037	0.0383	
30 minute winter	6	3.000	7	1.8	0.422	0.101	0.0601	
30 minute winter	7	Hydro-Brake®	8	2.7				2.2

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 (m³)	Flood (m³)	Status
60 minute summer	1	33	90.615	0.015	0.5	0.0034	0.0000	OK
60 minute summer	2	34	90.375	0.014	0.5	0.0022	0.0000	OK
60 minute summer	3	33	90.615	0.015	0.5	0.0035	0.0000	OK
60 minute summer	4	34	90.379	0.012	0.5	0.0019	0.0000	OK
60 minute summer	5	34	90.169	0.020	1.0	0.0031	0.0000	OK
60 minute summer	6	33	90.115	0.030	1.6	0.0218	0.0000	OK
60 minute summer	7	34	90.061	0.075	2.6	0.0846	0.0000	OK
60 minute summer	8	1	89.946	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 (m³)	Discharge Vol (m³)
60 minute summer	1	1.000	2	0.5	0.576	0.020	0.0104	
60 minute summer	2	1.001	5	0.5	0.458	0.018	0.0100	
60 minute summer	3	2.000	4	0.5	0.634	0.020	0.0093	
60 minute summer	4	2.001	5	0.5	0.513	0.012	0.0043	
60 minute summer	5	1.002	7	1.0	0.205	0.036	0.0361	
60 minute summer	6	3.000	7	1.6	0.374	0.090	0.0558	
60 minute summer	7	Hydro-Brake®	8	2.5				2.7

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 (m³)	Flood (m³)	Status
60 minute winter	1	32	90.613	0.013	0.4	0.0030	0.0000	OK
60 minute winter	2	33	90.374	0.013	0.4	0.0020	0.0000	OK
60 minute winter	3	33	90.614	0.014	0.4	0.0031	0.0000	OK
60 minute winter	4	33	90.378	0.011	0.4	0.0017	0.0000	OK
60 minute winter	5	35	90.167	0.018	0.8	0.0028	0.0000	OK
60 minute winter	6	33	90.112	0.027	1.3	0.0197	0.0000	OK
60 minute winter	7	35	90.052	0.066	2.1	0.0745	0.0000	OK
60 minute winter	8	1	89.946	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 (m³)	Discharge Vol (m³)
60 minute winter	1	1.000	2	0.4	0.542	0.016	0.0089	
60 minute winter	2	1.001	5	0.4	0.427	0.015	0.0085	
60 minute winter	3	2.000	4	0.4	0.591	0.016	0.0079	
60 minute winter	4	2.001	5	0.4	0.488	0.010	0.0037	
60 minute winter	5	1.002	7	0.8	0.197	0.029	0.0307	
60 minute winter	6	3.000	7	1.3	0.374	0.073	0.0473	
60 minute winter	7	Hydro-Brake®	8	2.0				3.0

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 (m³)	Flood (m³)	Status
120 minute summer	1	62	90.612	0.012	0.3	0.0027	0.0000	OK
120 minute summer	2	64	90.372	0.011	0.3	0.0018	0.0000	OK
120 minute summer	3	62	90.612	0.012	0.3	0.0027	0.0000	OK
120 minute summer	4	64	90.376	0.009	0.3	0.0015	0.0000	OK
120 minute summer	5	64	90.164	0.015	0.6	0.0025	0.0000	OK
120 minute summer	6	64	90.110	0.025	1.1	0.0181	0.0000	OK
120 minute summer	7	64	90.044	0.058	1.7	0.0651	0.0000	OK
120 minute summer	8	2	89.946	0.000	1.6	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
120 minute summer	1	1.000	2	0.3	0.491	0.012	0.0073	
120 minute summer	2	1.001	5	0.3	0.393	0.011	0.0070	
120 minute summer	3	2.000	4	0.3	0.541	0.012	0.0065	
120 minute summer	4	2.001	5	0.3	0.538	0.007	0.0030	
120 minute summer	5	1.002	7	0.6	0.182	0.022	0.0256	
120 minute summer	6	3.000	7	1.1	0.356	0.062	0.0404	
120 minute summer	7	Hydro-Brake®	8	1.6				3.2

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 (m³)	Flood (m³)	Status
120 minute winter	1	50	90.610	0.010	0.2	0.0022	0.0000	OK
120 minute winter	2	54	90.370	0.009	0.2	0.0015	0.0000	OK
120 minute winter	3	50	90.610	0.010	0.2	0.0023	0.0000	OK
120 minute winter	4	52	90.375	0.008	0.2	0.0012	0.0000	OK
120 minute winter	5	56	90.162	0.013	0.4	0.0020	0.0000	OK
120 minute winter	6	64	90.108	0.023	0.9	0.0164	0.0000	OK
120 minute winter	7	64	90.035	0.049	1.3	0.0559	0.0000	OK
120 minute winter	8	2	89.946	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 (m³)	Discharge Vol (m³)
120 minute winter	1	1.000	2	0.2	0.436	0.008	0.0055	
120 minute winter	2	1.001	5	0.2	0.380	0.007	0.0053	
120 minute winter	3	2.000	4	0.2	0.478	0.008	0.0049	
120 minute winter	4	2.001	5	0.2	0.538	0.005	0.0023	
120 minute winter	5	1.002	7	0.4	0.182	0.015	0.0206	
120 minute winter	6	3.000	7	0.9	0.356	0.050	0.0333	
120 minute winter	7	Hydro-Brake®	8	1.2				3.7

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 (m³)	Flood (m³)	Status
180 minute summer	1	88	90.610	0.010	0.2	0.0022	0.0000	OK
180 minute summer	2	92	90.370	0.009	0.2	0.0015	0.0000	OK
180 minute summer	3	88	90.610	0.010	0.2	0.0023	0.0000	OK
180 minute summer	4	88	90.375	0.008	0.2	0.0012	0.0000	OK
180 minute summer	5	92	90.162	0.013	0.4	0.0020	0.0000	OK
180 minute summer	6	96	90.108	0.023	0.9	0.0164	0.0000	OK
180 minute summer	7	96	90.035	0.049	1.3	0.0559	0.0000	OK
180 minute summer	8	4	89.946	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 (m³)	Discharge Vol (m³)
180 minute summer	1	1.000	2	0.2	0.433	0.008	0.0055	
180 minute summer	2	1.001	5	0.2	0.345	0.007	0.0053	
180 minute summer	3	2.000	4	0.2	0.477	0.008	0.0049	
180 minute summer	4	2.001	5	0.2	0.386	0.005	0.0023	
180 minute summer	5	1.002	7	0.4	0.181	0.015	0.0206	
180 minute summer	6	3.000	7	0.9	0.363	0.050	0.0333	
180 minute summer	7	Hydro-Brake®	8	1.2				3.6

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 (m³)	Flood (m³)	Status
180 minute winter	1	84	90.610	0.010	0.2	0.0022	0.0000	OK
180 minute winter	2	88	90.370	0.009	0.2	0.0015	0.0000	OK
180 minute winter	3	84	90.610	0.010	0.2	0.0023	0.0000	OK
180 minute winter	4	88	90.375	0.008	0.2	0.0012	0.0000	OK
180 minute winter	5	92	90.162	0.013	0.4	0.0020	0.0000	OK
180 minute winter	6	96	90.105	0.020	0.7	0.0145	0.0000	OK
180 minute winter	7	96	90.031	0.045	1.1	0.0507	0.0000	OK
180 minute winter	8	4	89.946	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 (m³)	Discharge Vol (m³)
180 minute winter	1	1.000	2	0.2	0.433	0.008	0.0055	
180 minute winter	2	1.001	5	0.2	0.345	0.007	0.0053	
180 minute winter	3	2.000	4	0.2	0.477	0.008	0.0049	
180 minute winter	4	2.001	5	0.2	0.386	0.005	0.0023	
180 minute winter	5	1.002	7	0.4	0.181	0.015	0.0183	
180 minute winter	6	3.000	7	0.7	0.363	0.039	0.0288	
180 minute winter	7	Hydro-Brake®	8	1.0				4.2

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 (m³)	Flood (m³)	Status
240 minute summer	1	120	90.610	0.010	0.2	0.0022	0.0000	OK
240 minute summer	2	124	90.370	0.009	0.2	0.0015	0.0000	OK
240 minute summer	3	120	90.610	0.010	0.2	0.0023	0.0000	OK
240 minute summer	4	120	90.375	0.008	0.2	0.0012	0.0000	OK
240 minute summer	5	124	90.162	0.013	0.4	0.0020	0.0000	OK
240 minute summer	6	124	90.106	0.021	0.8	0.0154	0.0000	OK
240 minute summer	7	124	90.033	0.047	1.2	0.0533	0.0000	OK
240 minute summer	8	4	89.946	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 (m³)	Discharge Vol (m³)
240 minute summer	1	1.000	2	0.2	0.433	0.008	0.0055	
240 minute summer	2	1.001	5	0.2	0.345	0.007	0.0053	
240 minute summer	3	2.000	4	0.2	0.477	0.008	0.0049	
240 minute summer	4	2.001	5	0.2	0.386	0.005	0.0023	
240 minute summer	5	1.002	7	0.4	0.181	0.015	0.0194	
240 minute summer	6	3.000	7	0.8	0.363	0.044	0.0310	
240 minute summer	7	Hydro-Brake®	8	1.1				4.1

Results for 1 year 240 minute winter. 480 minute analysis at 4 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
240 minute winter	1	120	90.610	0.010	0.2	0.0022	0.0000	OK
240 minute winter	2	132	90.370	0.009	0.2	0.0015	0.0000	OK
240 minute winter	3	120	90.610	0.010	0.2	0.0023	0.0000	OK
240 minute winter	4	124	90.375	0.008	0.2	0.0012	0.0000	OK
240 minute winter	5	132	90.162	0.013	0.4	0.0020	0.0000	OK
240 minute winter	6	124	90.104	0.019	0.6	0.0135	0.0000	OK
240 minute winter	7	132	90.029	0.043	1.0	0.0483	0.0000	OK
240 minute winter	8	4	89.946	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 (m³)	Discharge Vol (m³)
240 minute winter	1	1.000	2	0.2	0.433	0.008	0.0055	
240 minute winter	2	1.001	5	0.2	0.345	0.007	0.0053	
240 minute winter	3	2.000	4	0.2	0.477	0.008	0.0049	
240 minute winter	4	2.001	5	0.2	0.386	0.005	0.0023	
240 minute winter	5	1.002	7	0.4	0.181	0.015	0.0173	
240 minute winter	6	3.000	7	0.6	0.363	0.033	0.0265	
240 minute winter	7	Hydro-Brake®	8	1.0				4.7

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 (m³)	Flood (m³)	Status
360 minute summer	1	184	90.610	0.010	0.2	0.0022	0.0000	OK
360 minute summer	2	184	90.370	0.009	0.2	0.0014	0.0000	OK
360 minute summer	3	184	90.610	0.010	0.2	0.0022	0.0000	OK
360 minute summer	4	184	90.375	0.008	0.2	0.0012	0.0000	OK
360 minute summer	5	184	90.161	0.012	0.4	0.0019	0.0000	OK
360 minute summer	6	184	90.104	0.019	0.6	0.0135	0.0000	OK
360 minute summer	7	184	90.028	0.042	1.0	0.0473	0.0000	OK
360 minute summer	8	8	89.946	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 (m³)	Discharge Vol (m³)
360 minute summer	1	1.000	2	0.2	0.433	0.008	0.0053	
360 minute summer	2	1.001	5	0.2	0.340	0.007	0.0050	
360 minute summer	3	2.000	4	0.2	0.473	0.008	0.0047	
360 minute summer	4	2.001	5	0.2	0.386	0.005	0.0021	
360 minute summer	5	1.002	7	0.4	0.166	0.013	0.0167	
360 minute summer	6	3.000	7	0.6	0.240	0.034	0.0261	
360 minute summer	7	Hydro-Brake®	8	0.9				4.8

Results for 1 year 360 minute winter. 600 minute analysis at 8 minute timestep. Mass balance: 98.40%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
360 minute winter	1	128	90.607	0.007	0.1	0.0016	0.0000	OK
360 minute winter	2	160	90.368	0.007	0.1	0.0011	0.0000	OK
360 minute winter	3	128	90.607	0.007	0.1	0.0017	0.0000	OK
360 minute winter	4	160	90.373	0.006	0.1	0.0009	0.0000	OK
360 minute winter	5	136	90.158	0.009	0.2	0.0015	0.0000	OK
360 minute winter	6	160	90.100	0.015	0.4	0.0111	0.0000	OK
360 minute winter	7	160	90.018	0.032	0.6	0.0364	0.0000	OK
360 minute winter	8	8	89.946	0.000	0.6	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
360 minute winter	1	1.000	2	0.1	0.361	0.004	0.0034	
360 minute winter	2	1.001	5	0.1	0.292	0.004	0.0033	
360 minute winter	3	2.000	4	0.1	0.391	0.004	0.0030	
360 minute winter	4	2.001	5	0.1	0.344	0.002	0.0014	
360 minute winter	5	1.002	7	0.2	0.173	0.007	0.0115	
360 minute winter	6	3.000	7	0.4	0.292	0.022	0.0184	
360 minute winter	7	Hydro-Brake®	8	0.6				5.4

Results for 1 year 480 minute summer. 720 minute analysis at 8 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
480 minute summer	1	200	90.607	0.007	0.1	0.0016	0.0000	OK
480 minute summer	2	224	90.368	0.007	0.1	0.0011	0.0000	OK
480 minute summer	3	200	90.607	0.007	0.1	0.0017	0.0000	OK
480 minute summer	4	224	90.373	0.006	0.1	0.0009	0.0000	OK
480 minute summer	5	208	90.158	0.009	0.2	0.0015	0.0000	OK
480 minute summer	6	240	90.102	0.017	0.5	0.0124	0.0000	OK
480 minute summer	7	240	90.021	0.035	0.7	0.0395	0.0000	OK
480 minute summer	8	8	89.946	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 (m³)	Discharge Vol (m³)
480 minute summer	1	1.000	2	0.1	0.361	0.004	0.0034	
480 minute summer	2	1.001	5	0.1	0.292	0.004	0.0033	
480 minute summer	3	2.000	4	0.1	0.391	0.004	0.0030	
480 minute summer	4	2.001	5	0.1	0.344	0.002	0.0014	
480 minute summer	5	1.002	7	0.2	0.173	0.007	0.0127	
480 minute summer	6	3.000	7	0.5	0.292	0.028	0.0208	
480 minute summer	7	Hydro-Brake®	8	0.7				5.0

Results for 1 year 480 minute winter. 720 minute analysis at 8 minute timestep. Mass balance: 99.30%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
480 minute winter	1	176	90.607	0.007	0.1	0.0016	0.0000	OK
480 minute winter	2	232	90.368	0.007	0.1	0.0011	0.0000	OK
480 minute winter	3	176	90.607	0.007	0.1	0.0017	0.0000	OK
480 minute winter	4	232	90.373	0.006	0.1	0.0009	0.0000	OK
480 minute winter	5	200	90.158	0.009	0.2	0.0015	0.0000	OK
480 minute winter	6	232	90.100	0.015	0.4	0.0111	0.0000	OK
480 minute winter	7	232	90.018	0.032	0.6	0.0364	0.0000	OK
480 minute winter	8	8	89.946	0.000	0.6	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
480 minute winter	1	1.000	2	0.1	0.361	0.004	0.0034	
480 minute winter	2	1.001	5	0.1	0.292	0.004	0.0033	
480 minute winter	3	2.000	4	0.1	0.391	0.004	0.0030	
480 minute winter	4	2.001	5	0.1	0.344	0.002	0.0014	
480 minute winter	5	1.002	7	0.2	0.173	0.007	0.0115	
480 minute winter	6	3.000	7	0.4	0.292	0.022	0.0184	
480 minute winter	7	Hydro-Brake®	8	0.6				6.3

Results for 1 year 600 minute summer. 840 minute analysis at 15 minute timestep. Mass balance: 99.27%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
600 minute summer	1	300	90.607	0.007	0.1	0.0016	0.0000	OK
600 minute summer	2	270	90.368	0.007	0.1	0.0011	0.0000	OK
600 minute summer	3	300	90.607	0.007	0.1	0.0016	0.0000	OK
600 minute summer	4	270	90.373	0.006	0.1	0.0009	0.0000	OK
600 minute summer	5	270	90.158	0.009	0.2	0.0015	0.0000	OK
600 minute summer	6	300	90.100	0.015	0.4	0.0111	0.0000	OK
600 minute summer	7	300	90.018	0.032	0.6	0.0364	0.0000	OK
600 minute summer	8	15	89.946	0.000	0.6	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
600 minute summer	1	1.000	2	0.1	0.354	0.004	0.0034	
600 minute summer	2	1.001	5	0.1	0.277	0.004	0.0033	
600 minute summer	3	2.000	4	0.1	0.391	0.004	0.0030	
600 minute summer	4	2.001	5	0.1	0.310	0.002	0.0014	
600 minute summer	5	1.002	7	0.2	0.164	0.007	0.0115	
600 minute summer	6	3.000	7	0.4	0.231	0.022	0.0184	
600 minute summer	7	Hydro-Brake®	8	0.6				5.2

Results for 1 year 600 minute winter. 840 minute analysis at 15 minute timestep. Mass balance: 98.37%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
600 minute winter	1	240	90.607	0.007	0.1	0.0016	0.0000	OK
600 minute winter	2	360	90.368	0.007	0.1	0.0011	0.0000	OK
600 minute winter	3	240	90.607	0.007	0.1	0.0016	0.0000	OK
600 minute winter	4	270	90.373	0.006	0.1	0.0009	0.0000	OK
600 minute winter	5	270	90.158	0.009	0.2	0.0015	0.0000	OK
600 minute winter	6	285	90.099	0.013	0.3	0.0097	0.0000	OK
600 minute winter	7	285	90.015	0.029	0.5	0.0332	0.0000	OK
600 minute winter	8	15	89.946	0.000	0.5	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
600 minute winter	1	1.000	2	0.1	0.354	0.004	0.0034	
600 minute winter	2	1.001	5	0.1	0.278	0.004	0.0033	
600 minute winter	3	2.000	4	0.1	0.391	0.004	0.0030	
600 minute winter	4	2.001	5	0.1	0.311	0.002	0.0014	
600 minute winter	5	1.002	7	0.2	0.170	0.007	0.0102	
600 minute winter	6	3.000	7	0.3	0.231	0.017	0.0158	
600 minute winter	7	Hydro-Brake®	8	0.5				6.9

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 (m³)	Flood (m³)	Status
720 minute summer	1	360	90.607	0.007	0.1	0.0016	0.0000	OK
720 minute summer	2	330	90.368	0.007	0.1	0.0011	0.0000	OK
720 minute summer	3	360	90.607	0.007	0.1	0.0016	0.0000	OK
720 minute summer	4	330	90.373	0.006	0.1	0.0009	0.0000	OK
720 minute summer	5	330	90.158	0.009	0.2	0.0015	0.0000	OK
720 minute summer	6	360	90.100	0.015	0.4	0.0111	0.0000	OK
720 minute summer	7	360	90.018	0.032	0.6	0.0364	0.0000	OK
720 minute summer	8	15	89.946	0.000	0.6	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
720 minute summer	1	1.000	2	0.1	0.354	0.004	0.0034	
720 minute summer	2	1.001	5	0.1	0.277	0.004	0.0033	
720 minute summer	3	2.000	4	0.1	0.391	0.004	0.0030	
720 minute summer	4	2.001	5	0.1	0.310	0.002	0.0014	
720 minute summer	5	1.002	7	0.2	0.164	0.007	0.0115	
720 minute summer	6	3.000	7	0.4	0.231	0.022	0.0184	
720 minute summer	7	Hydro-Brake®	8	0.6				5.4

Results for 1 year 720 minute winter. 960 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 (m³)	Flood (m³)	Status
720 minute winter	1	300	90.607	0.007	0.1	0.0016	0.0000	OK
720 minute winter	2	405	90.368	0.007	0.1	0.0011	0.0000	OK
720 minute winter	3	300	90.607	0.007	0.1	0.0016	0.0000	OK
720 minute winter	4	345	90.373	0.006	0.1	0.0009	0.0000	OK
720 minute winter	5	345	90.158	0.009	0.2	0.0015	0.0000	OK
720 minute winter	6	360	90.099	0.013	0.3	0.0097	0.0000	OK
720 minute winter	7	360	90.015	0.029	0.5	0.0332	0.0000	OK
720 minute winter	8	15	89.946	0.000	0.5	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
720 minute winter	1	1.000	2	0.1	0.354	0.004	0.0034	
720 minute winter	2	1.001	5	0.1	0.278	0.004	0.0033	
720 minute winter	3	2.000	4	0.1	0.391	0.004	0.0030	
720 minute winter	4	2.001	5	0.1	0.311	0.002	0.0014	
720 minute winter	5	1.002	7	0.2	0.170	0.007	0.0102	
720 minute winter	6	3.000	7	0.3	0.231	0.017	0.0158	
720 minute winter	7	Hydro-Brake®	8	0.5				6.6

Results for 1 year 960 minute summer. 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 (m³)	Flood (m³)	Status
960 minute summer	1	435	90.607	0.007	0.1	0.0016	0.0000	OK
960 minute summer	2	525	90.368	0.007	0.1	0.0011	0.0000	OK
960 minute summer	3	435	90.607	0.007	0.1	0.0016	0.0000	OK
960 minute summer	4	465	90.373	0.006	0.1	0.0009	0.0000	OK
960 minute summer	5	465	90.158	0.009	0.2	0.0015	0.0000	OK
960 minute summer	6	480	90.099	0.013	0.3	0.0097	0.0000	OK
960 minute summer	7	480	90.015	0.029	0.5	0.0332	0.0000	OK
960 minute summer	8	15	89.946	0.000	0.5	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
960 minute summer	1	1.000	2	0.1	0.354	0.004	0.0034	
960 minute summer	2	1.001	5	0.1	0.278	0.004	0.0033	
960 minute summer	3	2.000	4	0.1	0.391	0.004	0.0030	
960 minute summer	4	2.001	5	0.1	0.311	0.002	0.0014	
960 minute summer	5	1.002	7	0.2	0.170	0.007	0.0102	
960 minute summer	6	3.000	7	0.3	0.231	0.017	0.0158	
960 minute summer	7	Hydro-Brake®	8	0.5				5.7

Results for 1 year 960 minute winter. 1200 minute analysis at 15 minute timestep. Mass balance: 97.08%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
960 minute winter	1	420	90.607	0.007	0.1	0.0016	0.0000	OK
960 minute winter	2	420	90.368	0.007	0.1	0.0011	0.0000	OK
960 minute winter	3	420	90.607	0.007	0.1	0.0016	0.0000	OK
960 minute winter	4	420	90.373	0.006	0.1	0.0009	0.0000	OK
960 minute winter	5	420	90.158	0.009	0.2	0.0015	0.0000	OK
960 minute winter	6	405	90.096	0.011	0.2	0.0081	0.0000	OK
960 minute winter	7	420	90.012	0.026	0.4	0.0291	0.0000	OK
960 minute winter	8	15	89.946	0.000	0.4	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
960 minute winter	1	1.000	2	0.1	0.354	0.004	0.0034	
960 minute winter	2	1.001	5	0.1	0.278	0.004	0.0032	
960 minute winter	3	2.000	4	0.1	0.391	0.004	0.0030	
960 minute winter	4	2.001	5	0.1	0.311	0.002	0.0014	
960 minute winter	5	1.002	7	0.2	0.170	0.007	0.0087	
960 minute winter	6	3.000	7	0.2	0.231	0.011	0.0129	
960 minute winter	7	Hydro-Brake®	8	0.4				6.5

Results for 1 year 1440 minute summer. 1680 minute analysis at 30 minute timestep. Mass balance: 97.99%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
1440 minute summer	1	720	90.607	0.007	0.1	0.0016	0.0000	OK
1440 minute summer	2	720	90.368	0.007	0.1	0.0011	0.0000	OK
1440 minute summer	3	720	90.607	0.007	0.1	0.0016	0.0000	OK
1440 minute summer	4	720	90.373	0.006	0.1	0.0009	0.0000	OK
1440 minute summer	5	720	90.158	0.009	0.2	0.0014	0.0000	OK
1440 minute summer	6	690	90.096	0.011	0.2	0.0081	0.0000	OK
1440 minute summer	7	720	90.012	0.026	0.4	0.0291	0.0000	OK
1440 minute summer	8	30	89.946	0.000	0.4	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
1440 minute summer	1	1.000	2	0.1	0.354	0.004	0.0033	
1440 minute summer	2	1.001	5	0.1	0.276	0.004	0.0032	
1440 minute summer	3	2.000	4	0.1	0.391	0.004	0.0030	
1440 minute summer	4	2.001	5	0.1	0.310	0.002	0.0014	
1440 minute summer	5	1.002	7	0.2	0.167	0.007	0.0087	
1440 minute summer	6	3.000	7	0.2	0.228	0.011	0.0129	
1440 minute summer	7	Hydro-Brake®	8	0.4				5.3

Results for 1 year 1440 minute winter. 1680 minute analysis at 30 minute timestep. Mass balance: 99.24%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
1440 minute winter	1	750	90.607	0.007	0.1	0.0016	0.0000	OK
1440 minute winter	2	750	90.368	0.007	0.1	0.0011	0.0000	OK
1440 minute winter	3	750	90.607	0.007	0.1	0.0016	0.0000	OK
1440 minute winter	4	750	90.373	0.006	0.1	0.0009	0.0000	OK
1440 minute winter	5	750	90.158	0.009	0.2	0.0014	0.0000	OK
1440 minute winter	6	720	90.096	0.011	0.2	0.0081	0.0000	OK
1440 minute winter	7	750	90.012	0.026	0.4	0.0291	0.0000	OK
1440 minute winter	8	30	89.946	0.000	0.4	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
1440 minute winter	1	1.000	2	0.1	0.354	0.004	0.0033	
1440 minute winter	2	1.001	5	0.1	0.276	0.004	0.0032	
1440 minute winter	3	2.000	4	0.1	0.391	0.004	0.0030	
1440 minute winter	4	2.001	5	0.1	0.310	0.002	0.0014	
1440 minute winter	5	1.002	7	0.2	0.167	0.007	0.0087	
1440 minute winter	6	3.000	7	0.2	0.228	0.011	0.0129	
1440 minute winter	7	Hydro-Brake®	8	0.4				5.8

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 (m³)	Flood (m³)	Status
15 minute summer	1	10	90.619	0.019	0.8	0.0042	0.0000	OK
15 minute summer	2	11	90.379	0.018	0.8	0.0028	0.0000	OK
15 minute summer	3	10	90.619	0.019	0.8	0.0044	0.0000	OK
15 minute summer	4	11	90.382	0.015	0.8	0.0023	0.0000	OK
15 minute summer	5	11	90.174	0.025	1.6	0.0039	0.0000	OK
15 minute summer	6	10	90.125	0.040	2.8	0.0288	0.0000	OK
15 minute summer	7	12	90.100	0.114	4.3	0.1284	0.0000	OK
15 minute summer	8	1	89.946	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 (m³)	Discharge Vol (m³)
15 minute summer	1	1.000	2	0.8	0.661	0.032	0.0145	
15 minute summer	2	1.001	5	0.8	0.527	0.029	0.0140	
15 minute summer	3	2.000	4	0.8	0.729	0.032	0.0129	
15 minute summer	4	2.001	5	0.8	0.590	0.020	0.0060	
15 minute summer	5	1.002	7	1.6	0.215	0.059	0.0578	
15 minute summer	6	3.000	7	2.8	0.486	0.157	0.0891	
15 minute summer	7	Hydro-Brake®	8	4.1				1.9

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 (m³)	Flood (m³)	Status
15 minute winter	1	10	90.619	0.019	0.8	0.0042	0.0000	OK
15 minute winter	2	11	90.379	0.018	0.8	0.0028	0.0000	OK
15 minute winter	3	10	90.619	0.019	0.8	0.0044	0.0000	OK
15 minute winter	4	11	90.382	0.015	0.8	0.0023	0.0000	OK
15 minute winter	5	11	90.174	0.025	1.6	0.0039	0.0000	OK
15 minute winter	6	10	90.126	0.041	2.9	0.0293	0.0000	OK
15 minute winter	7	12	90.103	0.117	4.5	0.1324	0.0000	OK
15 minute winter	8	1	89.946	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 (m³)	Discharge Vol (m³)
15 minute winter	1	1.000	2	0.8	0.660	0.032	0.0145	
15 minute winter	2	1.001	5	0.8	0.526	0.029	0.0140	
15 minute winter	3	2.000	4	0.8	0.728	0.032	0.0129	
15 minute winter	4	2.001	5	0.8	0.587	0.020	0.0060	
15 minute winter	5	1.002	7	1.6	0.219	0.059	0.0594	
15 minute winter	6	3.000	7	2.9	0.486	0.162	0.0917	
15 minute winter	7	Hydro-Brake®	8	4.2				2.1

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 (m³)	Flood (m³)	Status
30 minute summer	1	17	90.618	0.018	0.7	0.0040	0.0000	OK
30 minute summer	2	18	90.378	0.017	0.7	0.0027	0.0000	OK
30 minute summer	3	17	90.618	0.018	0.7	0.0041	0.0000	OK
30 minute summer	4	18	90.381	0.014	0.7	0.0022	0.0000	OK
30 minute summer	5	19	90.172	0.023	1.4	0.0037	0.0000	OK
30 minute summer	6	18	90.124	0.039	2.6	0.0278	0.0000	OK
30 minute summer	7	19	90.091	0.105	4.0	0.1185	0.0000	OK
30 minute summer	8	1	89.946	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 (m³)	Discharge Vol (m³)
30 minute summer	1	1.000	2	0.7	0.637	0.028	0.0132	
30 minute summer	2	1.001	5	0.7	0.506	0.026	0.0128	
30 minute summer	3	2.000	4	0.7	0.700	0.028	0.0117	
30 minute summer	4	2.001	5	0.7	0.569	0.017	0.0055	
30 minute summer	5	1.002	7	1.4	0.209	0.052	0.0530	
30 minute summer	6	3.000	7	2.6	0.445	0.146	0.0827	
30 minute summer	7	Hydro-Brake®	8	3.8				2.6

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 (m³)	Flood (m³)	Status
30 minute winter	1	18	90.618	0.018	0.7	0.0040	0.0000	OK
30 minute winter	2	19	90.378	0.017	0.7	0.0026	0.0000	OK
30 minute winter	3	18	90.618	0.018	0.7	0.0041	0.0000	OK
30 minute winter	4	19	90.381	0.014	0.7	0.0022	0.0000	OK
30 minute winter	5	19	90.172	0.023	1.4	0.0037	0.0000	OK
30 minute winter	6	18	90.122	0.037	2.4	0.0267	0.0000	OK
30 minute winter	7	19	90.086	0.100	3.8	0.1127	0.0000	OK
30 minute winter	8	1	89.946	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 (m³)	Discharge Vol (m³)
30 minute winter	1	1.000	2	0.7	0.634	0.028	0.0132	
30 minute winter	2	1.001	5	0.7	0.506	0.026	0.0127	
30 minute winter	3	2.000	4	0.7	0.700	0.028	0.0117	
30 minute winter	4	2.001	5	0.7	0.564	0.017	0.0054	
30 minute winter	5	1.002	7	1.4	0.206	0.051	0.0504	
30 minute winter	6	3.000	7	2.4	0.471	0.135	0.0782	
30 minute winter	7	Hydro-Brake®	8	3.6				2.9

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 (m³)	Flood (m³)	Status
60 minute summer	1	32	90.616	0.016	0.6	0.0037	0.0000	OK
60 minute summer	2	33	90.376	0.015	0.6	0.0025	0.0000	OK
60 minute summer	3	32	90.617	0.017	0.6	0.0038	0.0000	OK
60 minute summer	4	33	90.380	0.013	0.6	0.0021	0.0000	OK
60 minute summer	5	33	90.171	0.022	1.2	0.0034	0.0000	OK
60 minute summer	6	33	90.119	0.034	2.0	0.0244	0.0000	OK
60 minute summer	7	35	90.073	0.087	3.2	0.0983	0.0000	OK
60 minute summer	8	1	89.946	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 (m³)	Discharge Vol (m³)
60 minute summer	1	1.000	2	0.6	0.607	0.024	0.0119	
60 minute summer	2	1.001	5	0.6	0.483	0.022	0.0114	
60 minute summer	3	2.000	4	0.6	0.667	0.024	0.0105	
60 minute summer	4	2.001	5	0.6	0.541	0.015	0.0049	
60 minute summer	5	1.002	7	1.2	0.211	0.044	0.0432	
60 minute summer	6	3.000	7	2.0	0.418	0.113	0.0669	
60 minute summer	7	Hydro-Brake®	8	3.1				3.5

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 (m³)	Flood (m³)	Status
60 minute winter	1	32	90.615	0.015	0.5	0.0034	0.0000	OK
60 minute winter	2	33	90.375	0.014	0.5	0.0022	0.0000	OK
60 minute winter	3	33	90.615	0.015	0.5	0.0035	0.0000	OK
60 minute winter	4	33	90.379	0.012	0.5	0.0019	0.0000	OK
60 minute winter	5	36	90.169	0.020	1.0	0.0031	0.0000	OK
60 minute winter	6	33	90.115	0.030	1.6	0.0218	0.0000	OK
60 minute winter	7	36	90.062	0.076	2.6	0.0855	0.0000	OK
60 minute winter	8	1	89.946	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 (m³)	Discharge Vol (m³)
60 minute winter	1	1.000	2	0.5	0.576	0.020	0.0104	
60 minute winter	2	1.001	5	0.5	0.458	0.018	0.0099	
60 minute winter	3	2.000	4	0.5	0.634	0.020	0.0093	
60 minute winter	4	2.001	5	0.5	0.513	0.012	0.0043	
60 minute winter	5	1.002	7	1.0	0.203	0.036	0.0365	
60 minute winter	6	3.000	7	1.6	0.418	0.090	0.0561	
60 minute winter	7	Hydro-Brake®	8	2.5				3.8

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 (m³)	Flood (m³)	Status
120 minute summer	1	62	90.613	0.013	0.4	0.0030	0.0000	OK
120 minute summer	2	62	90.374	0.013	0.4	0.0020	0.0000	OK
120 minute summer	3	62	90.614	0.014	0.4	0.0031	0.0000	OK
120 minute summer	4	62	90.378	0.011	0.4	0.0017	0.0000	OK
120 minute summer	5	62	90.167	0.018	0.8	0.0028	0.0000	OK
120 minute summer	6	62	90.113	0.028	1.4	0.0203	0.0000	OK
120 minute summer	7	62	90.053	0.067	2.2	0.0762	0.0000	OK
120 minute summer	8	2	89.946	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 (m³)	Discharge Vol (m³)
120 minute summer	1	1.000	2	0.4	0.538	0.016	0.0089	
120 minute summer	2	1.001	5	0.4	0.427	0.015	0.0086	
120 minute summer	3	2.000	4	0.4	0.590	0.016	0.0079	
120 minute summer	4	2.001	5	0.4	0.538	0.010	0.0037	
120 minute summer	5	1.002	7	0.8	0.194	0.029	0.0315	
120 minute summer	6	3.000	7	1.4	0.356	0.078	0.0493	
120 minute summer	7	Hydro-Brake®	8	2.1				4.2

Results for 2 year 120 minute winter. 1560 minute analysis at 2 minute timestep. Mass balance: 99.40%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
120 minute winter	1	56	90.612	0.012	0.3	0.0027	0.0000	OK
120 minute winter	2	62	90.372	0.011	0.3	0.0018	0.0000	OK
120 minute winter	3	56	90.612	0.012	0.3	0.0027	0.0000	OK
120 minute winter	4	62	90.376	0.009	0.3	0.0015	0.0000	OK
120 minute winter	5	72	90.165	0.016	0.6	0.0025	0.0000	OK
120 minute winter	6	62	90.110	0.025	1.1	0.0180	0.0000	OK
120 minute winter	7	62	90.044	0.058	1.7	0.0651	0.0000	OK
120 minute winter	8	2	89.946	0.000	1.6	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
120 minute winter	1	1.000	2	0.3	0.491	0.012	0.0073	
120 minute winter	2	1.001	5	0.3	0.393	0.011	0.0071	
120 minute winter	3	2.000	4	0.3	0.541	0.012	0.0065	
120 minute winter	4	2.001	5	0.3	0.538	0.007	0.0030	
120 minute winter	5	1.002	7	0.6	0.188	0.022	0.0256	
120 minute winter	6	3.000	7	1.1	0.356	0.061	0.0403	
120 minute winter	7	Hydro-Brake®	8	1.6				5.1

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 (m³)	Flood (m³)	Status
180 minute summer	1	92	90.612	0.012	0.3	0.0027	0.0000	OK
180 minute summer	2	92	90.372	0.011	0.3	0.0018	0.0000	OK
180 minute summer	3	92	90.612	0.012	0.3	0.0027	0.0000	OK
180 minute summer	4	92	90.376	0.009	0.3	0.0015	0.0000	OK
180 minute summer	5	100	90.165	0.016	0.6	0.0025	0.0000	OK
180 minute summer	6	96	90.110	0.025	1.1	0.0180	0.0000	OK
180 minute summer	7	96	90.044	0.058	1.7	0.0652	0.0000	OK
180 minute summer	8	4	89.946	0.000	1.6	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
180 minute summer	1	1.000	2	0.3	0.490	0.012	0.0073	
180 minute summer	2	1.001	5	0.3	0.392	0.011	0.0071	
180 minute summer	3	2.000	4	0.3	0.541	0.012	0.0065	
180 minute summer	4	2.001	5	0.3	0.434	0.007	0.0030	
180 minute summer	5	1.002	7	0.6	0.184	0.022	0.0256	
180 minute summer	6	3.000	7	1.1	0.363	0.061	0.0404	
180 minute summer	7	Hydro-Brake®	8	1.6				4.6

Results for 2 year 180 minute winter. 1620 minute analysis at 4 minute timestep. Mass balance: 99.07%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
180 minute winter	1	76	90.610	0.010	0.2	0.0022	0.0000	OK
180 minute winter	2	80	90.370	0.009	0.2	0.0015	0.0000	OK
180 minute winter	3	76	90.610	0.010	0.2	0.0023	0.0000	OK
180 minute winter	4	76	90.375	0.008	0.2	0.0012	0.0000	OK
180 minute winter	5	80	90.162	0.013	0.4	0.0020	0.0000	OK
180 minute winter	6	88	90.106	0.021	0.8	0.0154	0.0000	OK
180 minute winter	7	88	90.033	0.047	1.2	0.0533	0.0000	OK
180 minute winter	8	4	89.946	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 (m³)	Discharge Vol (m³)
180 minute winter	1	1.000	2	0.2	0.433	0.008	0.0055	
180 minute winter	2	1.001	5	0.2	0.345	0.007	0.0053	
180 minute winter	3	2.000	4	0.2	0.477	0.008	0.0049	
180 minute winter	4	2.001	5	0.2	0.386	0.005	0.0023	
180 minute winter	5	1.002	7	0.4	0.180	0.015	0.0194	
180 minute winter	6	3.000	7	0.8	0.363	0.044	0.0310	
180 minute winter	7	Hydro-Brake®	8	1.1				5.3

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 (m³)	Flood (m³)	Status
240 minute summer	1	124	90.612	0.012	0.3	0.0026	0.0000	OK
240 minute summer	2	124	90.372	0.011	0.3	0.0017	0.0000	OK
240 minute summer	3	124	90.612	0.012	0.3	0.0027	0.0000	OK
240 minute summer	4	124	90.376	0.009	0.3	0.0014	0.0000	OK
240 minute summer	5	128	90.164	0.015	0.6	0.0024	0.0000	OK
240 minute summer	6	124	90.108	0.023	0.9	0.0165	0.0000	OK
240 minute summer	7	128	90.040	0.054	1.4	0.0609	0.0000	OK
240 minute summer	8	4	89.946	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 (m³)	Discharge Vol (m³)
240 minute summer	1	1.000	2	0.3	0.490	0.011	0.0071	
240 minute summer	2	1.001	5	0.3	0.386	0.010	0.0066	
240 minute summer	3	2.000	4	0.3	0.539	0.011	0.0063	
240 minute summer	4	2.001	5	0.3	0.432	0.007	0.0028	
240 minute summer	5	1.002	7	0.5	0.181	0.020	0.0235	
240 minute summer	6	3.000	7	0.9	0.363	0.051	0.0365	
240 minute summer	7	Hydro-Brake®	8	1.4				5.1

Results for 2 year 240 minute winter. 1680 minute analysis at 4 minute timestep. Mass balance: 98.98%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
240 minute winter	1	108	90.610	0.010	0.2	0.0022	0.0000	OK
240 minute winter	2	112	90.370	0.009	0.2	0.0015	0.0000	OK
240 minute winter	3	108	90.610	0.010	0.2	0.0023	0.0000	OK
240 minute winter	4	112	90.375	0.008	0.2	0.0012	0.0000	OK
240 minute winter	5	116	90.162	0.013	0.4	0.0020	0.0000	OK
240 minute winter	6	120	90.105	0.020	0.7	0.0145	0.0000	OK
240 minute winter	7	120	90.031	0.045	1.1	0.0507	0.0000	OK
240 minute winter	8	4	89.946	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 (m³)	Discharge Vol (m³)
240 minute winter	1	1.000	2	0.2	0.433	0.008	0.0055	
240 minute winter	2	1.001	5	0.2	0.345	0.007	0.0053	
240 minute winter	3	2.000	4	0.2	0.477	0.008	0.0049	
240 minute winter	4	2.001	5	0.2	0.386	0.005	0.0023	
240 minute winter	5	1.002	7	0.4	0.180	0.015	0.0183	
240 minute winter	6	3.000	7	0.7	0.363	0.039	0.0288	
240 minute winter	7	Hydro-Brake®	8	1.0				5.8

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 (m³)	Flood (m³)	Status
360 minute summer	1	184	90.610	0.010	0.2	0.0022	0.0000	OK
360 minute summer	2	184	90.370	0.009	0.2	0.0015	0.0000	OK
360 minute summer	3	184	90.610	0.010	0.2	0.0023	0.0000	OK
360 minute summer	4	184	90.375	0.008	0.2	0.0012	0.0000	OK
360 minute summer	5	184	90.162	0.013	0.4	0.0020	0.0000	OK
360 minute summer	6	184	90.105	0.020	0.7	0.0145	0.0000	OK
360 minute summer	7	184	90.031	0.045	1.1	0.0507	0.0000	OK
360 minute summer	8	8	89.946	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 (m³)	Discharge Vol (m³)
360 minute summer	1	1.000	2	0.2	0.433	0.008	0.0055	
360 minute summer	2	1.001	5	0.2	0.345	0.007	0.0053	
360 minute summer	3	2.000	4	0.2	0.477	0.008	0.0049	
360 minute summer	4	2.001	5	0.2	0.386	0.005	0.0023	
360 minute summer	5	1.002	7	0.4	0.169	0.015	0.0183	
360 minute summer	6	3.000	7	0.7	0.244	0.039	0.0288	
360 minute summer	7	Hydro-Brake®	8	1.0				5.7

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 (m³)	Flood (m³)	Status
360 minute winter	1	184	90.610	0.010	0.2	0.0022	0.0000	OK
360 minute winter	2	184	90.370	0.009	0.2	0.0014	0.0000	OK
360 minute winter	3	184	90.610	0.010	0.2	0.0022	0.0000	OK
360 minute winter	4	184	90.375	0.008	0.2	0.0012	0.0000	OK
360 minute winter	5	184	90.161	0.012	0.4	0.0019	0.0000	OK
360 minute winter	6	184	90.102	0.017	0.5	0.0125	0.0000	OK
360 minute winter	7	184	90.026	0.040	0.9	0.0448	0.0000	OK
360 minute winter	8	8	89.946	0.000	0.8	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
360 minute winter	1	1.000	2	0.2	0.433	0.008	0.0053	
360 minute winter	2	1.001	5	0.2	0.340	0.007	0.0050	
360 minute winter	3	2.000	4	0.2	0.473	0.008	0.0047	
360 minute winter	4	2.001	5	0.2	0.386	0.005	0.0021	
360 minute winter	5	1.002	7	0.4	0.177	0.013	0.0156	
360 minute winter	6	3.000	7	0.5	0.292	0.028	0.0239	
360 minute winter	7	Hydro-Brake®	8	0.8				6.6

Results for 2 year 480 minute summer. 1920 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 (m³)	Flood (m³)	Status
480 minute summer	1	248	90.610	0.010	0.2	0.0022	0.0000	OK
480 minute summer	2	248	90.370	0.009	0.2	0.0015	0.0000	OK
480 minute summer	3	248	90.610	0.010	0.2	0.0023	0.0000	OK
480 minute summer	4	248	90.375	0.008	0.2	0.0012	0.0000	OK
480 minute summer	5	248	90.162	0.013	0.4	0.0020	0.0000	OK
480 minute summer	6	248	90.104	0.019	0.6	0.0136	0.0000	OK
480 minute summer	7	248	90.029	0.043	1.0	0.0482	0.0000	OK
480 minute summer	8	8	89.946	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 (m³)	Discharge Vol (m³)
480 minute summer	1	1.000	2	0.2	0.435	0.008	0.0055	
480 minute summer	2	1.001	5	0.2	0.344	0.007	0.0052	
480 minute summer	3	2.000	4	0.2	0.477	0.008	0.0049	
480 minute summer	4	2.001	5	0.2	0.389	0.005	0.0022	
480 minute summer	5	1.002	7	0.4	0.173	0.014	0.0171	
480 minute summer	6	3.000	7	0.6	0.240	0.034	0.0266	
480 minute summer	7	Hydro-Brake®	8	1.0				6.7

Results for 2 year 480 minute winter. 1920 minute analysis at 8 minute timestep. Mass balance: 98.19%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
480 minute winter	1	168	90.607	0.007	0.1	0.0016	0.0000	OK
480 minute winter	2	208	90.368	0.007	0.1	0.0011	0.0000	OK
480 minute winter	3	168	90.607	0.007	0.1	0.0017	0.0000	OK
480 minute winter	4	208	90.373	0.006	0.1	0.0009	0.0000	OK
480 minute winter	5	184	90.158	0.009	0.2	0.0015	0.0000	OK
480 minute winter	6	208	90.100	0.015	0.4	0.0111	0.0000	OK
480 minute winter	7	208	90.018	0.032	0.6	0.0364	0.0000	OK
480 minute winter	8	8	89.946	0.000	0.6	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
480 minute winter	1	1.000	2	0.1	0.361	0.004	0.0034	
480 minute winter	2	1.001	5	0.1	0.292	0.004	0.0033	
480 minute winter	3	2.000	4	0.1	0.391	0.004	0.0030	
480 minute winter	4	2.001	5	0.1	0.344	0.002	0.0014	
480 minute winter	5	1.002	7	0.2	0.173	0.007	0.0115	
480 minute winter	6	3.000	7	0.4	0.292	0.022	0.0184	
480 minute winter	7	Hydro-Brake®	8	0.6				7.1

Results for 2 year 600 minute summer. 2040 minute analysis at 15 minute timestep. Mass balance: 99.27%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
600 minute summer	1	255	90.607	0.007	0.1	0.0016	0.0000	OK
600 minute summer	2	285	90.368	0.007	0.1	0.0011	0.0000	OK
600 minute summer	3	255	90.607	0.007	0.1	0.0017	0.0000	OK
600 minute summer	4	270	90.373	0.006	0.1	0.0009	0.0000	OK
600 minute summer	5	270	90.158	0.009	0.2	0.0015	0.0000	OK
600 minute summer	6	300	90.102	0.017	0.5	0.0124	0.0000	OK
600 minute summer	7	300	90.021	0.035	0.7	0.0395	0.0000	OK
600 minute summer	8	15	89.946	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 (m³)	Discharge Vol (m³)
600 minute summer	1	1.000	2	0.1	0.354	0.004	0.0034	
600 minute summer	2	1.001	5	0.1	0.278	0.004	0.0033	
600 minute summer	3	2.000	4	0.1	0.391	0.004	0.0030	
600 minute summer	4	2.001	5	0.1	0.311	0.002	0.0014	
600 minute summer	5	1.002	7	0.2	0.171	0.007	0.0127	
600 minute summer	6	3.000	7	0.5	0.240	0.028	0.0209	
600 minute summer	7	Hydro-Brake®	8	0.7				6.6

Results for 2 year 600 minute winter. 2040 minute analysis at 15 minute timestep. Mass balance: 98.95%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
600 minute winter	1	225	90.607	0.007	0.1	0.0016	0.0000	OK
600 minute winter	2	285	90.368	0.007	0.1	0.0011	0.0000	OK
600 minute winter	3	225	90.607	0.007	0.1	0.0016	0.0000	OK
600 minute winter	4	240	90.373	0.006	0.1	0.0009	0.0000	OK
600 minute winter	5	240	90.158	0.009	0.2	0.0015	0.0000	OK
600 minute winter	6	285	90.100	0.015	0.4	0.0111	0.0000	OK
600 minute winter	7	285	90.018	0.032	0.6	0.0364	0.0000	OK
600 minute winter	8	15	89.946	0.000	0.6	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
600 minute winter	1	1.000	2	0.1	0.354	0.004	0.0034	
600 minute winter	2	1.001	5	0.1	0.278	0.004	0.0033	
600 minute winter	3	2.000	4	0.1	0.391	0.004	0.0030	
600 minute winter	4	2.001	5	0.1	0.311	0.002	0.0014	
600 minute winter	5	1.002	7	0.2	0.170	0.007	0.0115	
600 minute winter	6	3.000	7	0.4	0.231	0.022	0.0184	
600 minute winter	7	Hydro-Brake®	8	0.6				8.4

Results for 2 year 720 minute summer. 2160 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 (m³)	Flood (m³)	Status
720 minute summer	1	345	90.607	0.007	0.1	0.0016	0.0000	OK
720 minute summer	2	315	90.368	0.007	0.1	0.0011	0.0000	OK
720 minute summer	3	345	90.607	0.007	0.1	0.0016	0.0000	OK
720 minute summer	4	315	90.373	0.006	0.1	0.0009	0.0000	OK
720 minute summer	5	315	90.158	0.009	0.2	0.0015	0.0000	OK
720 minute summer	6	345	90.100	0.015	0.4	0.0111	0.0000	OK
720 minute summer	7	345	90.018	0.032	0.6	0.0364	0.0000	OK
720 minute summer	8	15	89.946	0.000	0.6	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
720 minute summer	1	1.000	2	0.1	0.354	0.004	0.0034	
720 minute summer	2	1.001	5	0.1	0.277	0.004	0.0033	
720 minute summer	3	2.000	4	0.1	0.391	0.004	0.0030	
720 minute summer	4	2.001	5	0.1	0.310	0.002	0.0014	
720 minute summer	5	1.002	7	0.2	0.164	0.007	0.0115	
720 minute summer	6	3.000	7	0.4	0.231	0.022	0.0184	
720 minute summer	7	Hydro-Brake®	8	0.6				6.8

Results for 2 year 720 minute winter. 2160 minute analysis at 15 minute timestep. Mass balance: 97.68%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
720 minute winter	1	285	90.607	0.007	0.1	0.0016	0.0000	OK
720 minute winter	2	450	90.368	0.007	0.1	0.0011	0.0000	OK
720 minute winter	3	285	90.607	0.007	0.1	0.0016	0.0000	OK
720 minute winter	4	300	90.373	0.006	0.1	0.0009	0.0000	OK
720 minute winter	5	300	90.158	0.009	0.2	0.0015	0.0000	OK
720 minute winter	6	315	90.099	0.013	0.3	0.0097	0.0000	OK
720 minute winter	7	315	90.015	0.029	0.5	0.0332	0.0000	OK
720 minute winter	8	15	89.946	0.000	0.5	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
720 minute winter	1	1.000	2	0.1	0.354	0.004	0.0034	
720 minute winter	2	1.001	5	0.1	0.278	0.004	0.0033	
720 minute winter	3	2.000	4	0.1	0.391	0.004	0.0030	
720 minute winter	4	2.001	5	0.1	0.311	0.002	0.0014	
720 minute winter	5	1.002	7	0.2	0.170	0.007	0.0102	
720 minute winter	6	3.000	7	0.3	0.231	0.017	0.0158	
720 minute winter	7	Hydro-Brake®	8	0.5				8.5

Results for 2 year 960 minute summer. 2400 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 (m³)	Flood (m³)	Status
960 minute summer	1	420	90.607	0.007	0.1	0.0016	0.0000	OK
960 minute summer	2	480	90.368	0.007	0.1	0.0011	0.0000	OK
960 minute summer	3	420	90.607	0.007	0.1	0.0016	0.0000	OK
960 minute summer	4	450	90.373	0.006	0.1	0.0009	0.0000	OK
960 minute summer	5	450	90.158	0.009	0.2	0.0015	0.0000	OK
960 minute summer	6	480	90.100	0.015	0.4	0.0111	0.0000	OK
960 minute summer	7	480	90.018	0.032	0.6	0.0364	0.0000	OK
960 minute summer	8	15	89.946	0.000	0.6	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
960 minute summer	1	1.000	2	0.1	0.354	0.004	0.0034	
960 minute summer	2	1.001	5	0.1	0.278	0.004	0.0033	
960 minute summer	3	2.000	4	0.1	0.391	0.004	0.0030	
960 minute summer	4	2.001	5	0.1	0.311	0.002	0.0014	
960 minute summer	5	1.002	7	0.2	0.170	0.007	0.0115	
960 minute summer	6	3.000	7	0.4	0.231	0.022	0.0184	
960 minute summer	7	Hydro-Brake®	8	0.6				7.2

Results for 2 year 960 minute winter. 2400 minute analysis at 15 minute timestep. Mass balance: 98.68%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
960 minute winter	1	390	90.607	0.007	0.1	0.0016	0.0000	OK
960 minute winter	2	540	90.368	0.007	0.1	0.0011	0.0000	OK
960 minute winter	3	390	90.607	0.007	0.1	0.0016	0.0000	OK
960 minute winter	4	450	90.373	0.006	0.1	0.0009	0.0000	OK
960 minute winter	5	450	90.158	0.009	0.2	0.0015	0.0000	OK
960 minute winter	6	465	90.099	0.013	0.3	0.0097	0.0000	OK
960 minute winter	7	465	90.015	0.029	0.5	0.0332	0.0000	OK
960 minute winter	8	15	89.946	0.000	0.5	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
960 minute winter	1	1.000	2	0.1	0.354	0.004	0.0034	
960 minute winter	2	1.001	5	0.1	0.278	0.004	0.0033	
960 minute winter	3	2.000	4	0.1	0.391	0.004	0.0030	
960 minute winter	4	2.001	5	0.1	0.311	0.002	0.0014	
960 minute winter	5	1.002	7	0.2	0.170	0.007	0.0102	
960 minute winter	6	3.000	7	0.3	0.231	0.017	0.0158	
960 minute winter	7	Hydro-Brake®	8	0.5				8.5

Results for 2 year 1440 minute summer. 2880 minute analysis at 30 minute timestep. Mass balance: 99.12%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
1440 minute summer	1	780	90.607	0.007	0.1	0.0016	0.0000	OK
1440 minute summer	2	720	90.368	0.007	0.1	0.0011	0.0000	OK
1440 minute summer	3	780	90.607	0.007	0.1	0.0016	0.0000	OK
1440 minute summer	4	720	90.373	0.006	0.1	0.0009	0.0000	OK
1440 minute summer	5	720	90.158	0.009	0.2	0.0015	0.0000	OK
1440 minute summer	6	720	90.098	0.013	0.3	0.0097	0.0000	OK
1440 minute summer	7	720	90.015	0.029	0.5	0.0332	0.0000	OK
1440 minute summer	8	30	89.946	0.000	0.5	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
1440 minute summer	1	1.000	2	0.1	0.354	0.004	0.0034	
1440 minute summer	2	1.001	5	0.1	0.277	0.004	0.0033	
1440 minute summer	3	2.000	4	0.1	0.391	0.004	0.0030	
1440 minute summer	4	2.001	5	0.1	0.310	0.002	0.0014	
1440 minute summer	5	1.002	7	0.2	0.167	0.007	0.0102	
1440 minute summer	6	3.000	7	0.3	0.228	0.016	0.0158	
1440 minute summer	7	Hydro-Brake®	8	0.5				7.2

Results for 2 year 1440 minute winter. 2880 minute analysis at 30 minute timestep. Mass balance: 97.77%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
1440 minute winter	1	690	90.607	0.007	0.1	0.0016	0.0000	OK
1440 minute winter	2	690	90.368	0.007	0.1	0.0011	0.0000	OK
1440 minute winter	3	690	90.607	0.007	0.1	0.0016	0.0000	OK
1440 minute winter	4	690	90.373	0.006	0.1	0.0009	0.0000	OK
1440 minute winter	5	690	90.158	0.009	0.2	0.0014	0.0000	OK
1440 minute winter	6	660	90.096	0.011	0.2	0.0081	0.0000	OK
1440 minute winter	7	690	90.012	0.026	0.4	0.0291	0.0000	OK
1440 minute winter	8	30	89.946	0.000	0.4	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
1440 minute winter	1	1.000	2	0.1	0.354	0.004	0.0033	
1440 minute winter	2	1.001	5	0.1	0.276	0.004	0.0032	
1440 minute winter	3	2.000	4	0.1	0.391	0.004	0.0030	
1440 minute winter	4	2.001	5	0.1	0.310	0.002	0.0014	
1440 minute winter	5	1.002	7	0.2	0.167	0.007	0.0087	
1440 minute winter	6	3.000	7	0.2	0.228	0.011	0.0129	
1440 minute winter	7	Hydro-Brake®	8	0.4				8.1

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 (m³)	Flood (m³)	Status
15 minute summer	1	10	90.625	0.025	1.5	0.0057	0.0000	OK
15 minute summer	2	10	90.385	0.024	1.5	0.0038	0.0000	OK
15 minute summer	3	10	90.626	0.026	1.5	0.0059	0.0000	OK
15 minute summer	4	10	90.387	0.020	1.5	0.0031	0.0000	OK
15 minute summer	5	13	90.266	0.117	2.9	0.0187	0.0000	OK
15 minute summer	6	13	90.266	0.181	5.3	0.1302	0.0000	SURCHARGED
15 minute summer	7	13	90.264	0.278	6.6	0.3149	0.0000	SURCHARGED
15 minute summer	8	1	89.946	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 (m³)	Discharge Vol (m³)
15 minute summer	1	1.000	2	1.5	0.791	0.059	0.0223	
15 minute summer	2	1.001	5	1.5	0.613	0.053	0.0739	
15 minute summer	3	2.000	4	1.5	0.872	0.059	0.0198	
15 minute summer	4	2.001	5	1.5	0.691	0.036	0.0342	
15 minute summer	5	1.002	7	2.5	0.213	0.092	0.1155	
15 minute summer	6	3.000	7	4.2	0.525	0.236	0.1741	
15 minute summer	7	Hydro-Brake®	8	5.0				3.6

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 (m³)	Flood (m³)	Status
15 minute winter	1	10	90.626	0.026	1.6	0.0059	0.0000	OK
15 minute winter	2	10	90.385	0.024	1.6	0.0039	0.0000	OK
15 minute winter	3	10	90.627	0.027	1.6	0.0061	0.0000	OK
15 minute winter	4	10	90.387	0.020	1.6	0.0032	0.0000	OK
15 minute winter	5	13	90.300	0.151	3.1	0.0241	0.0000	SURCHARGED
15 minute winter	6	13	90.303	0.218	5.5	0.1567	0.0000	SURCHARGED
15 minute winter	7	13	90.299	0.313	6.5	0.3542	0.0000	SURCHARGED
15 minute winter	8	1	89.946	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 (m³)	Discharge Vol (m³)
15 minute winter	1	1.000	2	1.6	0.807	0.063	0.0234	
15 minute winter	2	1.001	5	1.6	0.620	0.057	0.0870	
15 minute winter	3	2.000	4	1.6	0.889	0.063	0.0208	
15 minute winter	4	2.001	5	1.6	0.701	0.039	0.0404	
15 minute winter	5	1.002	7	2.6	0.213	0.095	0.1255	
15 minute winter	6	3.000	7	5.2	0.545	0.293	0.1741	
15 minute winter	7	Hydro-Brake®	8	5.0				4.0

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 (m³)	Flood (m³)	Status
30 minute summer	1	18	90.625	0.025	1.4	0.0056	0.0000	OK
30 minute summer	2	18	90.384	0.023	1.4	0.0037	0.0000	OK
30 minute summer	3	18	90.625	0.025	1.4	0.0057	0.0000	OK
30 minute summer	4	18	90.386	0.019	1.4	0.0031	0.0000	OK
30 minute summer	5	21	90.261	0.112	2.8	0.0178	0.0000	OK
30 minute summer	6	20	90.261	0.176	4.9	0.1265	0.0000	SURCHARGED
30 minute summer	7	21	90.259	0.273	6.5	0.3083	0.0000	SURCHARGED
30 minute summer	8	1	89.946	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 (m³)	Discharge Vol (m³)
30 minute summer	1	1.000	2	1.4	0.777	0.056	0.0216	
30 minute summer	2	1.001	5	1.4	0.617	0.051	0.0706	
30 minute summer	3	2.000	4	1.4	0.857	0.056	0.0191	
30 minute summer	4	2.001	5	1.4	0.690	0.035	0.0327	
30 minute summer	5	1.002	7	2.6	0.217	0.098	0.1131	
30 minute summer	6	3.000	7	4.4	0.518	0.245	0.1741	
30 minute summer	7	Hydro-Brake®	8	5.0				4.9

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 (m³)	Flood (m³)	Status
30 minute winter	1	18	90.624	0.024	1.3	0.0054	0.0000	OK
30 minute winter	2	18	90.383	0.022	1.3	0.0036	0.0000	OK
30 minute winter	3	18	90.625	0.025	1.3	0.0055	0.0000	OK
30 minute winter	4	18	90.386	0.019	1.3	0.0030	0.0000	OK
30 minute winter	5	21	90.252	0.103	2.6	0.0163	0.0000	OK
30 minute winter	6	21	90.255	0.170	4.5	0.1220	0.0000	SURCHARGED
30 minute winter	7	21	90.251	0.265	6.1	0.2995	0.0000	SURCHARGED
30 minute winter	8	1	89.946	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 (m³)	Discharge Vol (m³)
30 minute winter	1	1.000	2	1.3	0.761	0.052	0.0204	
30 minute winter	2	1.001	5	1.3	0.603	0.048	0.0652	
30 minute winter	3	2.000	4	1.3	0.839	0.052	0.0182	
30 minute winter	4	2.001	5	1.3	0.673	0.032	0.0301	
30 minute winter	5	1.002	7	2.4	0.211	0.090	0.1086	
30 minute winter	6	3.000	7	3.7	0.486	0.208	0.1741	
30 minute winter	7	Hydro-Brake®	8	5.0				5.5

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 (m³)	Flood (m³)	Status
60 minute summer	1	33	90.622	0.022	1.1	0.0049	0.0000	OK
60 minute summer	2	33	90.382	0.021	1.1	0.0033	0.0000	OK
60 minute summer	3	33	90.623	0.023	1.1	0.0051	0.0000	OK
60 minute summer	4	33	90.384	0.017	1.1	0.0027	0.0000	OK
60 minute summer	5	36	90.189	0.040	2.2	0.0064	0.0000	OK
60 minute summer	6	35	90.192	0.107	3.9	0.0767	0.0000	OK
60 minute summer	7	35	90.188	0.202	5.7	0.2285	0.0000	SURCHARGED
60 minute summer	8	1	89.946	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 (m³)	Discharge Vol (m³)
60 minute summer	1	1.000	2	1.1	0.724	0.044	0.0182	
60 minute summer	2	1.001	5	1.1	0.578	0.040	0.0230	
60 minute summer	3	2.000	4	1.1	0.800	0.044	0.0161	
60 minute summer	4	2.001	5	1.1	0.644	0.027	0.0102	
60 minute summer	5	1.002	7	2.2	0.207	0.081	0.0762	
60 minute summer	6	3.000	7	3.6	0.445	0.204	0.1533	
60 minute summer	7	Hydro-Brake®	8	4.9				6.4

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 (m³)	Flood (m³)	Status
60 minute winter	1	32	90.620	0.020	0.9	0.0045	0.0000	OK
60 minute winter	2	33	90.380	0.019	0.9	0.0030	0.0000	OK
60 minute winter	3	32	90.620	0.020	0.9	0.0046	0.0000	OK
60 minute winter	4	33	90.383	0.016	0.9	0.0025	0.0000	OK
60 minute winter	5	34	90.175	0.026	1.8	0.0042	0.0000	OK
60 minute winter	6	34	90.132	0.047	3.1	0.0335	0.0000	OK
60 minute winter	7	36	90.132	0.146	4.9	0.1649	0.0000	OK
60 minute winter	8	1	89.946	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 (m³)	Discharge Vol (m³)
60 minute winter	1	1.000	2	0.9	0.683	0.036	0.0158	
60 minute winter	2	1.001	5	0.9	0.545	0.033	0.0152	
60 minute winter	3	2.000	4	0.9	0.753	0.036	0.0140	
60 minute winter	4	2.001	5	0.9	0.606	0.022	0.0066	
60 minute winter	5	1.002	7	1.8	0.206	0.067	0.0697	
60 minute winter	6	3.000	7	3.1	0.422	0.175	0.1091	
60 minute winter	7	Hydro-Brake®	8	4.7				7.2

Results for 30 year 120 minute summer. 360 minute analysis at 2 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
120 minute summer	1	64	90.619	0.019	0.8	0.0042	0.0000	OK
120 minute summer	2	64	90.379	0.018	0.8	0.0028	0.0000	OK
120 minute summer	3	64	90.619	0.019	0.8	0.0044	0.0000	OK
120 minute summer	4	64	90.382	0.015	0.8	0.0023	0.0000	OK
120 minute summer	5	64	90.174	0.025	1.6	0.0039	0.0000	OK
120 minute summer	6	64	90.124	0.039	2.6	0.0278	0.0000	OK
120 minute summer	7	64	90.096	0.110	4.2	0.1246	0.0000	OK
120 minute summer	8	2	89.946	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 (m³)	Discharge Vol (m³)
120 minute summer	1	1.000	2	0.8	0.660	0.032	0.0145	
120 minute summer	2	1.001	5	0.8	0.525	0.029	0.0139	
120 minute summer	3	2.000	4	0.8	0.728	0.032	0.0129	
120 minute summer	4	2.001	5	0.8	0.587	0.020	0.0060	
120 minute summer	5	1.002	7	1.6	0.204	0.058	0.0561	
120 minute summer	6	3.000	7	2.6	0.441	0.146	0.0863	
120 minute summer	7	Hydro-Brake®	8	4.0				8.3

Results for 30 year 120 minute winter. 360 minute analysis at 2 minute timestep. Mass balance: 99.41%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
120 minute winter	1	62	90.616	0.016	0.6	0.0037	0.0000	OK
120 minute winter	2	62	90.376	0.015	0.6	0.0024	0.0000	OK
120 minute winter	3	62	90.617	0.017	0.6	0.0038	0.0000	OK
120 minute winter	4	62	90.380	0.013	0.6	0.0020	0.0000	OK
120 minute winter	5	62	90.170	0.021	1.2	0.0034	0.0000	OK
120 minute winter	6	62	90.119	0.034	2.0	0.0244	0.0000	OK
120 minute winter	7	62	90.073	0.087	3.1	0.0981	0.0000	OK
120 minute winter	8	2	89.946	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 (m³)	Discharge Vol (m³)
120 minute winter	1	1.000	2	0.6	0.607	0.024	0.0118	
120 minute winter	2	1.001	5	0.6	0.481	0.022	0.0112	
120 minute winter	3	2.000	4	0.6	0.667	0.024	0.0105	
120 minute winter	4	2.001	5	0.6	0.540	0.015	0.0048	
120 minute winter	5	1.002	7	1.1	0.201	0.043	0.0430	
120 minute winter	6	3.000	7	2.0	0.407	0.113	0.0669	
120 minute winter	7	Hydro-Brake®	8	3.0				9.2

Results for 30 year 180 minute summer. 420 minute analysis at 4 minute timestep. Mass balance: 99.68%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
180 minute summer	1	96	90.616	0.016	0.6	0.0037	0.0000	OK
180 minute summer	2	96	90.376	0.015	0.6	0.0024	0.0000	OK
180 minute summer	3	96	90.617	0.017	0.6	0.0038	0.0000	OK
180 minute summer	4	96	90.380	0.013	0.6	0.0020	0.0000	OK
180 minute summer	5	96	90.170	0.021	1.2	0.0034	0.0000	OK
180 minute summer	6	96	90.119	0.034	2.0	0.0244	0.0000	OK
180 minute summer	7	96	90.073	0.087	3.2	0.0982	0.0000	OK
180 minute summer	8	4	89.946	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 (m³)	Discharge Vol (m³)
180 minute summer	1	1.000	2	0.6	0.605	0.024	0.0118	
180 minute summer	2	1.001	5	0.6	0.480	0.022	0.0112	
180 minute summer	3	2.000	4	0.6	0.666	0.024	0.0105	
180 minute summer	4	2.001	5	0.6	0.537	0.015	0.0048	
180 minute summer	5	1.002	7	1.2	0.203	0.043	0.0431	
180 minute summer	6	3.000	7	2.0	0.334	0.112	0.0669	
180 minute summer	7	Hydro-Brake®	8	3.0				9.8

Results for 30 year 180 minute winter. 420 minute analysis at 4 minute timestep. Mass balance: 98.88%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
180 minute winter	1	84	90.613	0.013	0.4	0.0030	0.0000	OK
180 minute winter	2	88	90.374	0.013	0.4	0.0020	0.0000	OK
180 minute winter	3	84	90.614	0.014	0.4	0.0031	0.0000	OK
180 minute winter	4	88	90.378	0.011	0.4	0.0017	0.0000	OK
180 minute winter	5	88	90.167	0.018	0.8	0.0028	0.0000	OK
180 minute winter	6	88	90.114	0.029	1.5	0.0210	0.0000	OK
180 minute winter	7	88	90.055	0.069	2.3	0.0783	0.0000	OK
180 minute winter	8	4	89.946	0.000	2.2	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
180 minute winter	1	1.000	2	0.4	0.538	0.016	0.0089	
180 minute winter	2	1.001	5	0.4	0.427	0.015	0.0086	
180 minute winter	3	2.000	4	0.4	0.590	0.016	0.0079	
180 minute winter	4	2.001	5	0.4	0.475	0.010	0.0037	
180 minute winter	5	1.002	7	0.8	0.194	0.030	0.0325	
180 minute winter	6	3.000	7	1.5	0.363	0.083	0.0511	
180 minute winter	7	Hydro-Brake®	8	2.2				10.4

Results for 30 year 240 minute summer. 480 minute analysis at 4 minute timestep. Mass balance: 99.61%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
240 minute summer	1	124	90.615	0.015	0.5	0.0034	0.0000	OK
240 minute summer	2	124	90.375	0.014	0.5	0.0023	0.0000	OK
240 minute summer	3	124	90.615	0.015	0.5	0.0035	0.0000	OK
240 minute summer	4	124	90.379	0.012	0.5	0.0019	0.0000	OK
240 minute summer	5	124	90.169	0.020	1.0	0.0031	0.0000	OK
240 minute summer	6	124	90.116	0.031	1.7	0.0223	0.0000	OK
240 minute summer	7	124	90.063	0.077	2.7	0.0869	0.0000	OK
240 minute summer	8	4	89.946	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 (m³)	Discharge Vol (m³)
240 minute summer	1	1.000	2	0.5	0.573	0.020	0.0104	
240 minute summer	2	1.001	5	0.5	0.457	0.018	0.0100	
240 minute summer	3	2.000	4	0.5	0.633	0.020	0.0093	
240 minute summer	4	2.001	5	0.5	0.509	0.012	0.0043	
240 minute summer	5	1.002	7	1.0	0.203	0.037	0.0372	
240 minute summer	6	3.000	7	1.7	0.304	0.094	0.0578	
240 minute summer	7	Hydro-Brake®	8	2.6				10.3

Results for 30 year 240 minute winter. 480 minute analysis at 4 minute timestep. Mass balance: 99.58%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
240 minute winter	1	124	90.613	0.013	0.4	0.0030	0.0000	OK
240 minute winter	2	124	90.374	0.013	0.4	0.0020	0.0000	OK
240 minute winter	3	124	90.614	0.014	0.4	0.0031	0.0000	OK
240 minute winter	4	124	90.378	0.011	0.4	0.0017	0.0000	OK
240 minute winter	5	124	90.166	0.017	0.8	0.0028	0.0000	OK
240 minute winter	6	124	90.112	0.027	1.3	0.0197	0.0000	OK
240 minute winter	7	124	90.051	0.065	2.1	0.0740	0.0000	OK
240 minute winter	8	4	89.946	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 (m³)	Discharge Vol (m³)
240 minute winter	1	1.000	2	0.4	0.539	0.016	0.0088	
240 minute winter	2	1.001	5	0.4	0.424	0.014	0.0084	
240 minute winter	3	2.000	4	0.4	0.590	0.016	0.0079	
240 minute winter	4	2.001	5	0.4	0.475	0.010	0.0036	
240 minute winter	5	1.002	7	0.8	0.192	0.028	0.0303	
240 minute winter	6	3.000	7	1.3	0.363	0.073	0.0474	
240 minute winter	7	Hydro-Brake®	8	2.0				11.7

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 (m³)	Flood (m³)	Status
360 minute summer	1	184	90.613	0.013	0.4	0.0030	0.0000	OK
360 minute summer	2	184	90.374	0.013	0.4	0.0020	0.0000	OK
360 minute summer	3	184	90.614	0.014	0.4	0.0031	0.0000	OK
360 minute summer	4	184	90.378	0.011	0.4	0.0017	0.0000	OK
360 minute summer	5	184	90.166	0.017	0.8	0.0028	0.0000	OK
360 minute summer	6	184	90.112	0.027	1.3	0.0197	0.0000	OK
360 minute summer	7	184	90.051	0.065	2.0	0.0739	0.0000	OK
360 minute summer	8	8	89.946	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 (m³)	Discharge Vol (m³)
360 minute summer	1	1.000	2	0.4	0.536	0.016	0.0088	
360 minute summer	2	1.001	5	0.4	0.423	0.014	0.0084	
360 minute summer	3	2.000	4	0.4	0.588	0.016	0.0078	
360 minute summer	4	2.001	5	0.4	0.473	0.010	0.0036	
360 minute summer	5	1.002	7	0.8	0.192	0.028	0.0303	
360 minute summer	6	3.000	7	1.3	0.279	0.073	0.0472	
360 minute summer	7	Hydro-Brake®	8	2.0				10.8

Results for 30 year 360 minute winter. 600 minute analysis at 8 minute timestep. Mass balance: 99.44%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
360 minute winter	1	184	90.612	0.012	0.3	0.0027	0.0000	OK
360 minute winter	2	184	90.372	0.011	0.3	0.0018	0.0000	OK
360 minute winter	3	184	90.612	0.012	0.3	0.0027	0.0000	OK
360 minute winter	4	184	90.376	0.009	0.3	0.0015	0.0000	OK
360 minute winter	5	184	90.165	0.016	0.6	0.0025	0.0000	OK
360 minute winter	6	184	90.109	0.024	1.0	0.0172	0.0000	OK
360 minute winter	7	184	90.042	0.056	1.6	0.0629	0.0000	OK
360 minute winter	8	8	89.946	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 (m³)	Discharge Vol (m³)
360 minute winter	1	1.000	2	0.3	0.490	0.012	0.0073	
360 minute winter	2	1.001	5	0.3	0.392	0.011	0.0071	
360 minute winter	3	2.000	4	0.3	0.541	0.012	0.0065	
360 minute winter	4	2.001	5	0.3	0.435	0.007	0.0030	
360 minute winter	5	1.002	7	0.6	0.187	0.022	0.0246	
360 minute winter	6	3.000	7	1.0	0.292	0.055	0.0383	
360 minute winter	7	Hydro-Brake®	8	1.5				12.8

Results for 30 year 480 minute summer. 720 minute analysis at 8 minute timestep. Mass balance: 99.45%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
480 minute summer	1	240	90.612	0.012	0.3	0.0027	0.0000	OK
480 minute summer	2	240	90.372	0.011	0.3	0.0018	0.0000	OK
480 minute summer	3	240	90.612	0.012	0.3	0.0027	0.0000	OK
480 minute summer	4	240	90.376	0.009	0.3	0.0015	0.0000	OK
480 minute summer	5	256	90.165	0.016	0.6	0.0025	0.0000	OK
480 minute summer	6	240	90.110	0.025	1.1	0.0180	0.0000	OK
480 minute summer	7	240	90.044	0.058	1.7	0.0652	0.0000	OK
480 minute summer	8	8	89.946	0.000	1.6	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
480 minute summer	1	1.000	2	0.3	0.490	0.012	0.0073	
480 minute summer	2	1.001	5	0.3	0.392	0.011	0.0071	
480 minute summer	3	2.000	4	0.3	0.541	0.012	0.0065	
480 minute summer	4	2.001	5	0.3	0.434	0.007	0.0030	
480 minute summer	5	1.002	7	0.6	0.186	0.022	0.0256	
480 minute summer	6	3.000	7	1.1	0.273	0.061	0.0404	
480 minute summer	7	Hydro-Brake®	8	1.6				11.7

Results for 30 year 480 minute winter. 720 minute analysis at 8 minute timestep. Mass balance: 99.11%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
480 minute winter	1	200	90.610	0.010	0.2	0.0022	0.0000	OK
480 minute winter	2	208	90.370	0.009	0.2	0.0015	0.0000	OK
480 minute winter	3	200	90.610	0.010	0.2	0.0023	0.0000	OK
480 minute winter	4	200	90.375	0.008	0.2	0.0012	0.0000	OK
480 minute winter	5	216	90.162	0.013	0.4	0.0020	0.0000	OK
480 minute winter	6	232	90.106	0.021	0.8	0.0154	0.0000	OK
480 minute winter	7	232	90.033	0.047	1.2	0.0533	0.0000	OK
480 minute winter	8	8	89.946	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 (m³)	Discharge Vol (m³)
480 minute winter	1	1.000	2	0.2	0.433	0.008	0.0055	
480 minute winter	2	1.001	5	0.2	0.345	0.007	0.0053	
480 minute winter	3	2.000	4	0.2	0.477	0.008	0.0049	
480 minute winter	4	2.001	5	0.2	0.386	0.005	0.0023	
480 minute winter	5	1.002	7	0.4	0.180	0.015	0.0194	
480 minute winter	6	3.000	7	0.8	0.292	0.044	0.0310	
480 minute winter	7	Hydro-Brake®	8	1.1				12.9

Results for 30 year 600 minute summer. 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 (m³)	Flood (m³)	Status
600 minute summer	1	285	90.610	0.010	0.2	0.0022	0.0000	OK
600 minute summer	2	300	90.370	0.009	0.2	0.0015	0.0000	OK
600 minute summer	3	285	90.610	0.010	0.2	0.0023	0.0000	OK
600 minute summer	4	300	90.375	0.008	0.2	0.0012	0.0000	OK
600 minute summer	5	300	90.162	0.013	0.4	0.0020	0.0000	OK
600 minute summer	6	300	90.108	0.023	0.9	0.0164	0.0000	OK
600 minute summer	7	300	90.035	0.049	1.3	0.0559	0.0000	OK
600 minute summer	8	15	89.946	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 (m³)	Discharge Vol (m³)
600 minute summer	1	1.000	2	0.2	0.433	0.008	0.0055	
600 minute summer	2	1.001	5	0.2	0.345	0.007	0.0053	
600 minute summer	3	2.000	4	0.2	0.477	0.008	0.0049	
600 minute summer	4	2.001	5	0.2	0.386	0.005	0.0023	
600 minute summer	5	1.002	7	0.4	0.171	0.015	0.0206	
600 minute summer	6	3.000	7	0.9	0.271	0.050	0.0332	
600 minute summer	7	Hydro-Brake®	8	1.2				12.1

Results for 30 year 600 minute winter. 840 minute analysis at 15 minute timestep. Mass balance: 99.34%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
600 minute winter	1	300	90.610	0.010	0.2	0.0022	0.0000	OK
600 minute winter	2	300	90.370	0.009	0.2	0.0015	0.0000	OK
600 minute winter	3	300	90.610	0.010	0.2	0.0023	0.0000	OK
600 minute winter	4	300	90.375	0.008	0.2	0.0012	0.0000	OK
600 minute winter	5	300	90.162	0.013	0.4	0.0020	0.0000	OK
600 minute winter	6	300	90.105	0.020	0.7	0.0145	0.0000	OK
600 minute winter	7	300	90.031	0.045	1.1	0.0507	0.0000	OK
600 minute winter	8	15	89.946	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 (m³)	Discharge Vol (m³)
600 minute winter	1	1.000	2	0.2	0.433	0.008	0.0055	
600 minute winter	2	1.001	5	0.2	0.345	0.007	0.0053	
600 minute winter	3	2.000	4	0.2	0.477	0.008	0.0049	
600 minute winter	4	2.001	5	0.2	0.386	0.005	0.0023	
600 minute winter	5	1.002	7	0.4	0.170	0.015	0.0183	
600 minute winter	6	3.000	7	0.7	0.244	0.039	0.0288	
600 minute winter	7	Hydro-Brake®	8	1.0				14.2

Results for 30 year 720 minute summer. 960 minute analysis at 15 minute timestep. Mass balance: 99.45%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
720 minute summer	1	345	90.610	0.010	0.2	0.0022	0.0000	OK
720 minute summer	2	360	90.370	0.009	0.2	0.0015	0.0000	OK
720 minute summer	3	345	90.610	0.010	0.2	0.0023	0.0000	OK
720 minute summer	4	345	90.375	0.008	0.2	0.0012	0.0000	OK
720 minute summer	5	360	90.162	0.013	0.4	0.0020	0.0000	OK
720 minute summer	6	375	90.107	0.022	0.8	0.0155	0.0000	OK
720 minute summer	7	375	90.033	0.047	1.2	0.0534	0.0000	OK
720 minute summer	8	15	89.946	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 (m³)	Discharge Vol (m³)
720 minute summer	1	1.000	2	0.2	0.433	0.008	0.0055	
720 minute summer	2	1.001	5	0.2	0.345	0.007	0.0053	
720 minute summer	3	2.000	4	0.2	0.477	0.008	0.0049	
720 minute summer	4	2.001	5	0.2	0.386	0.005	0.0023	
720 minute summer	5	1.002	7	0.4	0.182	0.015	0.0195	
720 minute summer	6	3.000	7	0.8	0.259	0.044	0.0311	
720 minute summer	7	Hydro-Brake®	8	1.1				13.0

Results for 30 year 720 minute winter. 960 minute analysis at 15 minute timestep. Mass balance: 98.90%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
720 minute winter	1	345	90.610	0.010	0.2	0.0022	0.0000	OK
720 minute winter	2	405	90.370	0.009	0.2	0.0015	0.0000	OK
720 minute winter	3	345	90.610	0.010	0.2	0.0023	0.0000	OK
720 minute winter	4	345	90.375	0.008	0.2	0.0012	0.0000	OK
720 minute winter	5	405	90.162	0.013	0.4	0.0020	0.0000	OK
720 minute winter	6	345	90.104	0.019	0.6	0.0134	0.0000	OK
720 minute winter	7	345	90.029	0.043	1.0	0.0481	0.0000	OK
720 minute winter	8	15	89.946	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 (m³)	Discharge Vol (m³)
720 minute winter	1	1.000	2	0.2	0.433	0.008	0.0055	
720 minute winter	2	1.001	5	0.2	0.345	0.007	0.0053	
720 minute winter	3	2.000	4	0.2	0.477	0.008	0.0049	
720 minute winter	4	2.001	5	0.2	0.386	0.005	0.0023	
720 minute winter	5	1.002	7	0.4	0.180	0.015	0.0172	
720 minute winter	6	3.000	7	0.6	0.240	0.033	0.0265	
720 minute winter	7	Hydro-Brake®	8	1.0				15.0

Results for 30 year 960 minute summer. 1200 minute analysis at 15 minute timestep. Mass balance: 99.06%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
960 minute summer	1	480	90.610	0.010	0.2	0.0022	0.0000	OK
960 minute summer	2	480	90.370	0.009	0.2	0.0014	0.0000	OK
960 minute summer	3	480	90.610	0.010	0.2	0.0023	0.0000	OK
960 minute summer	4	480	90.375	0.008	0.2	0.0012	0.0000	OK
960 minute summer	5	480	90.161	0.012	0.4	0.0020	0.0000	OK
960 minute summer	6	480	90.104	0.019	0.6	0.0136	0.0000	OK
960 minute summer	7	480	90.029	0.043	1.0	0.0481	0.0000	OK
960 minute summer	8	15	89.946	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 (m³)	Discharge Vol (m³)
960 minute summer	1	1.000	2	0.2	0.433	0.008	0.0054	
960 minute summer	2	1.001	5	0.2	0.342	0.007	0.0051	
960 minute summer	3	2.000	4	0.2	0.475	0.008	0.0048	
960 minute summer	4	2.001	5	0.2	0.386	0.005	0.0022	
960 minute summer	5	1.002	7	0.4	0.170	0.014	0.0171	
960 minute summer	6	3.000	7	0.6	0.240	0.034	0.0266	
960 minute summer	7	Hydro-Brake®	8	1.0				14.4

Results for 30 year 960 minute winter. 1200 minute analysis at 15 minute timestep. Mass balance: 99.32%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
960 minute winter	1	315	90.607	0.007	0.1	0.0016	0.0000	OK
960 minute winter	2	405	90.368	0.007	0.1	0.0011	0.0000	OK
960 minute winter	3	315	90.607	0.007	0.1	0.0016	0.0000	OK
960 minute winter	4	345	90.373	0.006	0.1	0.0009	0.0000	OK
960 minute winter	5	345	90.158	0.009	0.2	0.0015	0.0000	OK
960 minute winter	6	465	90.102	0.017	0.5	0.0124	0.0000	OK
960 minute winter	7	465	90.021	0.035	0.7	0.0395	0.0000	OK
960 minute winter	8	15	89.946	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 (m³)	Discharge Vol (m³)
960 minute winter	1	1.000	2	0.1	0.354	0.004	0.0034	
960 minute winter	2	1.001	5	0.1	0.278	0.004	0.0033	
960 minute winter	3	2.000	4	0.1	0.391	0.004	0.0030	
960 minute winter	4	2.001	5	0.1	0.311	0.002	0.0014	
960 minute winter	5	1.002	7	0.2	0.170	0.007	0.0127	
960 minute winter	6	3.000	7	0.5	0.240	0.028	0.0209	
960 minute winter	7	Hydro-Brake®	8	0.7				15.8

Results for 30 year 1440 minute summer. 1680 minute analysis at 30 minute timestep. Mass balance: 99.32%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
1440 minute summer	1	690	90.607	0.007	0.1	0.0016	0.0000	OK
1440 minute summer	2	630	90.368	0.007	0.1	0.0011	0.0000	OK
1440 minute summer	3	690	90.607	0.007	0.1	0.0016	0.0000	OK
1440 minute summer	4	630	90.373	0.006	0.1	0.0009	0.0000	OK
1440 minute summer	5	630	90.158	0.009	0.2	0.0015	0.0000	OK
1440 minute summer	6	720	90.102	0.017	0.5	0.0124	0.0000	OK
1440 minute summer	7	720	90.021	0.035	0.7	0.0395	0.0000	OK
1440 minute summer	8	30	89.946	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 (m³)	Discharge Vol (m³)
1440 minute summer	1	1.000	2	0.1	0.353	0.004	0.0034	
1440 minute summer	2	1.001	5	0.1	0.277	0.004	0.0033	
1440 minute summer	3	2.000	4	0.1	0.391	0.004	0.0030	
1440 minute summer	4	2.001	5	0.1	0.309	0.002	0.0014	
1440 minute summer	5	1.002	7	0.2	0.165	0.007	0.0127	
1440 minute summer	6	3.000	7	0.5	0.240	0.028	0.0209	
1440 minute summer	7	Hydro-Brake®	8	0.7				14.4

Results for 30 year 1440 minute winter. 1680 minute analysis at 30 minute timestep. Mass balance: 99.57%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
1440 minute winter	1	720	90.607	0.007	0.1	0.0016	0.0000	OK
1440 minute winter	2	600	90.368	0.007	0.1	0.0011	0.0000	OK
1440 minute winter	3	720	90.607	0.007	0.1	0.0016	0.0000	OK
1440 minute winter	4	600	90.373	0.006	0.1	0.0009	0.0000	OK
1440 minute winter	5	600	90.158	0.009	0.2	0.0015	0.0000	OK
1440 minute winter	6	720	90.100	0.015	0.4	0.0111	0.0000	OK
1440 minute winter	7	720	90.018	0.032	0.6	0.0364	0.0000	OK
1440 minute winter	8	30	89.946	0.000	0.6	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
1440 minute winter	1	1.000	2	0.1	0.354	0.004	0.0034	
1440 minute winter	2	1.001	5	0.1	0.277	0.004	0.0033	
1440 minute winter	3	2.000	4	0.1	0.391	0.004	0.0030	
1440 minute winter	4	2.001	5	0.1	0.310	0.002	0.0014	
1440 minute winter	5	1.002	7	0.2	0.167	0.007	0.0115	
1440 minute winter	6	3.000	7	0.4	0.228	0.022	0.0184	
1440 minute winter	7	Hydro-Brake®	8	0.6				19.1

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 (m³)	Flood (m³)	Status
15 minute summer	1	10	90.634	0.034	2.7	0.0077	0.0000	OK
15 minute summer	2	14	90.633	0.272	2.7	0.0432	0.0000	SURCHARGED
15 minute summer	3	14	90.635	0.035	2.7	0.0080	0.0000	OK
15 minute summer	4	14	90.629	0.262	3.2	0.0417	0.0000	SURCHARGED
15 minute summer	5	15	90.629	0.480	4.8	0.0764	0.0000	SURCHARGED
15 minute summer	6	15	90.632	0.547	9.5	0.3935	0.0000	FLOOD RISK
15 minute summer	7	15	90.629	0.643	7.8	0.7272	0.0000	SURCHARGED
15 minute summer	8	1	89.946	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 (m³)	Discharge Vol (m³)
15 minute summer	1	1.000	2	2.7	0.925	0.108	0.1225	
15 minute summer	2	1.001	5	2.4	0.674	0.088	0.1607	
15 minute summer	3	2.000	4	2.8	1.016	0.110	0.1208	
15 minute summer	4	2.001	5	2.4	0.774	0.060	0.0760	
15 minute summer	5	1.002	7	3.6	0.250	0.133	0.1255	
15 minute summer	6	3.000	7	7.8	0.591	0.438	0.1741	
15 minute summer	7	Hydro-Brake®	8	5.0				6.4

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 (m³)	Flood (m³)	Status
15 minute winter	1	15	90.694	0.094	2.8	0.0211	0.0000	OK
15 minute winter	2	15	90.693	0.332	4.8	0.0528	0.0000	SURCHARGED
15 minute winter	3	16	90.689	0.089	2.8	0.0201	0.0000	OK
15 minute winter	4	15	90.692	0.325	2.8	0.0517	0.0000	SURCHARGED
15 minute winter	5	15	90.693	0.544	5.0	0.0865	0.0000	SURCHARGED
15 minute winter	6	15	90.694	0.609	10.0	0.4379	0.0000	FLOOD RISK
15 minute winter	7	15	90.692	0.706	9.9	0.7988	0.0000	FLOOD RISK
15 minute winter	8	1	89.946	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 (m³)	Discharge Vol (m³)
15 minute winter	1	1.000	2	2.8	0.935	0.111	0.1743	
15 minute winter	2	1.001	5	2.5	0.625	0.092	0.1607	
15 minute winter	3	2.000	4	2.8	1.027	0.112	0.1660	
15 minute winter	4	2.001	5	2.5	0.713	0.063	0.0760	
15 minute winter	5	1.002	7	3.6	0.222	0.132	0.1255	
15 minute winter	6	3.000	7	9.9	0.600	0.556	0.1741	
15 minute winter	7	Hydro-Brake®	8	5.0				7.2

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 (m³)	Flood (m³)	Status
30 minute summer	1	23	90.673	0.073	2.6	0.0166	0.0000	OK
30 minute summer	2	23	90.672	0.311	2.6	0.0494	0.0000	SURCHARGED
30 minute summer	3	23	90.673	0.073	2.6	0.0165	0.0000	OK
30 minute summer	4	23	90.673	0.306	2.8	0.0487	0.0000	SURCHARGED
30 minute summer	5	23	90.672	0.523	4.6	0.0832	0.0000	SURCHARGED
30 minute summer	6	22	90.674	0.589	9.0	0.4235	0.0000	FLOOD RISK
30 minute summer	7	23	90.670	0.684	7.8	0.7733	0.0000	FLOOD RISK
30 minute summer	8	1	89.946	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 (m³)	Discharge Vol (m³)
30 minute summer	1	1.000	2	2.6	0.925	0.103	0.1564	
30 minute summer	2	1.001	5	2.3	0.625	0.086	0.1607	
30 minute summer	3	2.000	4	2.6	1.018	0.103	0.1520	
30 minute summer	4	2.001	5	2.3	0.707	0.057	0.0760	
30 minute summer	5	1.002	7	3.6	0.214	0.133	0.1255	
30 minute summer	6	3.000	7	7.7	0.543	0.436	0.1741	
30 minute summer	7	Hydro-Brake®	8	5.0				8.9

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 (m³)	Flood (m³)	Status
30 minute winter	1	25	90.723	0.123	2.3	0.0279	0.0000	OK
30 minute winter	2	25	90.723	0.362	3.7	0.0576	0.0000	SURCHARGED
30 minute winter	3	25	90.724	0.124	2.3	0.0279	0.0000	OK
30 minute winter	4	25	90.723	0.356	2.3	0.0566	0.0000	SURCHARGED
30 minute winter	5	24	90.723	0.574	4.2	0.0912	0.0000	SURCHARGED
30 minute winter	6	24	90.726	0.641	8.1	0.4608	0.0000	FLOOD RISK
30 minute winter	7	24	90.722	0.736	8.1	0.8326	0.0000	FLOOD RISK
30 minute winter	8	1	89.946	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 (m³)	Discharge Vol (m³)
30 minute winter	1	1.000	2	2.3	0.884	0.091	0.1977	
30 minute winter	2	1.001	5	2.1	0.607	0.078	0.1607	
30 minute winter	3	2.000	4	2.3	0.973	0.091	0.1929	
30 minute winter	4	2.001	5	2.1	0.698	0.053	0.0760	
30 minute winter	5	1.002	7	3.6	0.207	0.133	0.1255	
30 minute winter	6	3.000	7	8.1	0.559	0.456	0.1741	
30 minute winter	7	Hydro-Brake®	8	5.0				10.0

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 (m³)	Flood (m³)	Status
60 minute summer	1	40	90.640	0.040	2.0	0.0090	0.0000	OK
60 minute summer	2	40	90.639	0.278	2.5	0.0442	0.0000	SURCHARGED
60 minute summer	3	40	90.642	0.042	2.0	0.0094	0.0000	OK
60 minute summer	4	40	90.640	0.273	2.0	0.0434	0.0000	SURCHARGED
60 minute summer	5	40	90.639	0.490	3.9	0.0780	0.0000	SURCHARGED
60 minute summer	6	39	90.642	0.557	7.1	0.4002	0.0000	FLOOD RISK
60 minute summer	7	40	90.638	0.652	6.8	0.7374	0.0000	FLOOD RISK
60 minute summer	8	1	89.946	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 (m³)	Discharge Vol (m³)
60 minute summer	1	1.000	2	2.0	0.860	0.079	0.1277	
60 minute summer	2	1.001	5	1.9	0.602	0.072	0.1607	
60 minute summer	3	2.000	4	2.0	0.950	0.079	0.1256	
60 minute summer	4	2.001	5	2.0	0.674	0.049	0.0760	
60 minute summer	5	1.002	7	3.1	0.206	0.114	0.1255	
60 minute summer	6	3.000	7	6.2	0.512	0.350	0.1741	
60 minute summer	7	Hydro-Brake®	8	5.0				11.8

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 (m³)	Flood (m³)	Status
60 minute winter	1	43	90.648	0.048	1.6	0.0108	0.0000	OK
60 minute winter	2	43	90.647	0.286	1.7	0.0455	0.0000	SURCHARGED
60 minute winter	3	43	90.647	0.047	1.6	0.0107	0.0000	OK
60 minute winter	4	43	90.647	0.280	1.7	0.0445	0.0000	SURCHARGED
60 minute winter	5	43	90.647	0.498	3.2	0.0792	0.0000	SURCHARGED
60 minute winter	6	43	90.649	0.564	5.7	0.4056	0.0000	FLOOD RISK
60 minute winter	7	43	90.646	0.660	6.2	0.7465	0.0000	FLOOD RISK
60 minute winter	8	1	89.946	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 (m³)	Discharge Vol (m³)
60 minute winter	1	1.000	2	1.7	0.807	0.066	0.1340	
60 minute winter	2	1.001	5	1.6	0.588	0.059	0.1607	
60 minute winter	3	2.000	4	1.7	0.891	0.068	0.1301	
60 minute winter	4	2.001	5	1.6	0.658	0.040	0.0760	
60 minute winter	5	1.002	7	3.0	0.211	0.111	0.1255	
60 minute winter	6	3.000	7	5.1	0.493	0.289	0.1741	
60 minute winter	7	Hydro-Brake®	8	5.0				13.3

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 (m³)	Flood (m³)	Status
120 minute summer	1	64	90.625	0.025	1.4	0.0056	0.0000	OK
120 minute summer	2	70	90.433	0.072	1.4	0.0114	0.0000	OK
120 minute summer	3	64	90.625	0.025	1.4	0.0057	0.0000	OK
120 minute summer	4	72	90.432	0.065	1.4	0.0103	0.0000	OK
120 minute summer	5	70	90.432	0.283	2.8	0.0450	0.0000	SURCHARGED
120 minute summer	6	70	90.435	0.350	4.9	0.2517	0.0000	SURCHARGED
120 minute summer	7	70	90.431	0.445	5.8	0.5030	0.0000	SURCHARGED
120 minute summer	8	2	89.946	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 (m³)	Discharge Vol (m³)
120 minute summer	1	1.000	2	1.4	0.777	0.056	0.0578	
120 minute summer	2	1.001	5	1.4	0.572	0.052	0.1183	
120 minute summer	3	2.000	4	1.4	0.857	0.056	0.0501	
120 minute summer	4	2.001	5	1.4	0.640	0.035	0.0537	
120 minute summer	5	1.002	7	2.5	0.204	0.092	0.1255	
120 minute summer	6	3.000	7	4.6	0.486	0.258	0.1741	
120 minute summer	7	Hydro-Brake®	8	5.0				15.2

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 (m³)	Flood (m³)	Status
120 minute winter	1	64	90.622	0.022	1.1	0.0049	0.0000	OK
120 minute winter	2	64	90.382	0.021	1.1	0.0033	0.0000	OK
120 minute winter	3	64	90.623	0.023	1.1	0.0051	0.0000	OK
120 minute winter	4	64	90.384	0.017	1.1	0.0027	0.0000	OK
120 minute winter	5	70	90.260	0.111	2.2	0.0176	0.0000	OK
120 minute winter	6	70	90.264	0.179	3.7	0.1284	0.0000	SURCHARGED
120 minute winter	7	70	90.259	0.273	5.3	0.3088	0.0000	SURCHARGED
120 minute winter	8	2	89.946	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 (m³)	Discharge Vol (m³)
120 minute winter	1	1.000	2	1.1	0.724	0.044	0.0182	
120 minute winter	2	1.001	5	1.1	0.562	0.040	0.0697	
120 minute winter	3	2.000	4	1.1	0.800	0.044	0.0161	
120 minute winter	4	2.001	5	1.1	0.624	0.027	0.0323	
120 minute winter	5	1.002	7	2.0	0.202	0.074	0.1125	
120 minute winter	6	3.000	7	3.5	0.446	0.199	0.1741	
120 minute winter	7	Hydro-Brake®	8	5.0				16.9

Results for 100 year +40% CC 180 minute summer. 420 minute analysis at 4 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
180 minute summer	1	96	90.622	0.022	1.1	0.0049	0.0000	OK
180 minute summer	2	96	90.382	0.021	1.1	0.0033	0.0000	OK
180 minute summer	3	96	90.623	0.023	1.1	0.0051	0.0000	OK
180 minute summer	4	96	90.384	0.017	1.1	0.0027	0.0000	OK
180 minute summer	5	100	90.232	0.083	2.2	0.0132	0.0000	OK
180 minute summer	6	100	90.236	0.151	3.7	0.1084	0.0000	SURCHARGED
180 minute summer	7	100	90.232	0.246	5.4	0.2777	0.0000	SURCHARGED
180 minute summer	8	4	89.946	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 (m³)	Discharge Vol (m³)
180 minute summer	1	1.000	2	1.1	0.724	0.044	0.0182	
180 minute summer	2	1.001	5	1.1	0.575	0.040	0.0519	
180 minute summer	3	2.000	4	1.1	0.800	0.044	0.0161	
180 minute summer	4	2.001	5	1.1	0.641	0.027	0.0238	
180 minute summer	5	1.002	7	2.1	0.199	0.079	0.0985	
180 minute summer	6	3.000	7	3.4	0.313	0.194	0.1740	
180 minute summer	7	Hydro-Brake®	8	5.0				17.2

Results for 100 year +40% CC 180 minute winter. 420 minute analysis at 4 minute timestep. Mass balance: 99.16%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
180 minute winter	1	92	90.619	0.019	0.8	0.0042	0.0000	OK
180 minute winter	2	92	90.379	0.018	0.8	0.0028	0.0000	OK
180 minute winter	3	92	90.619	0.019	0.8	0.0044	0.0000	OK
180 minute winter	4	92	90.382	0.015	0.8	0.0023	0.0000	OK
180 minute winter	5	92	90.174	0.025	1.6	0.0039	0.0000	OK
180 minute winter	6	92	90.125	0.040	2.8	0.0288	0.0000	OK
180 minute winter	7	92	90.102	0.116	4.4	0.1311	0.0000	OK
180 minute winter	8	4	89.946	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 (m³)	Discharge Vol (m³)
180 minute winter	1	1.000	2	0.8	0.659	0.032	0.0145	
180 minute winter	2	1.001	5	0.8	0.525	0.029	0.0139	
180 minute winter	3	2.000	4	0.8	0.728	0.032	0.0129	
180 minute winter	4	2.001	5	0.8	0.586	0.020	0.0060	
180 minute winter	5	1.002	7	1.6	0.203	0.059	0.0588	
180 minute winter	6	3.000	7	2.8	0.334	0.156	0.0908	
180 minute winter	7	Hydro-Brake®	8	4.2				19.1

Results for 100 year +40% CC 240 minute summer. 480 minute analysis at 4 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
240 minute summer	1	124	90.620	0.020	0.9	0.0045	0.0000	OK
240 minute summer	2	128	90.380	0.019	0.9	0.0030	0.0000	OK
240 minute summer	3	124	90.620	0.020	0.9	0.0046	0.0000	OK
240 minute summer	4	128	90.383	0.016	0.9	0.0025	0.0000	OK
240 minute summer	5	128	90.175	0.026	1.8	0.0042	0.0000	OK
240 minute summer	6	128	90.133	0.048	3.2	0.0342	0.0000	OK
240 minute summer	7	128	90.131	0.145	4.9	0.1638	0.0000	OK
240 minute summer	8	4	89.946	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 (m³)	Discharge Vol (m³)
240 minute summer	1	1.000	2	0.9	0.682	0.035	0.0157	
240 minute summer	2	1.001	5	0.9	0.542	0.033	0.0151	
240 minute summer	3	2.000	4	0.9	0.752	0.035	0.0139	
240 minute summer	4	2.001	5	0.9	0.604	0.022	0.0065	
240 minute summer	5	1.002	7	1.8	0.203	0.066	0.0695	
240 minute summer	6	3.000	7	3.2	0.350	0.179	0.1098	
240 minute summer	7	Hydro-Brake®	8	4.7				18.8

Results for 100 year +40% CC 240 minute winter. 480 minute analysis at 4 minute timestep. Mass balance: 99.38%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
240 minute winter	1	124	90.618	0.018	0.7	0.0040	0.0000	OK
240 minute winter	2	124	90.377	0.016	0.7	0.0026	0.0000	OK
240 minute winter	3	124	90.618	0.018	0.7	0.0041	0.0000	OK
240 minute winter	4	124	90.381	0.014	0.7	0.0022	0.0000	OK
240 minute winter	5	124	90.172	0.023	1.4	0.0036	0.0000	OK
240 minute winter	6	124	90.121	0.036	2.3	0.0261	0.0000	OK
240 minute winter	7	124	90.084	0.098	3.6	0.1105	0.0000	OK
240 minute winter	8	4	89.946	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 (m³)	Discharge Vol (m³)
240 minute winter	1	1.000	2	0.7	0.633	0.027	0.0130	
240 minute winter	2	1.001	5	0.7	0.501	0.025	0.0124	
240 minute winter	3	2.000	4	0.7	0.697	0.027	0.0116	
240 minute winter	4	2.001	5	0.7	0.560	0.017	0.0053	
240 minute winter	5	1.002	7	1.3	0.202	0.049	0.0493	
240 minute winter	6	3.000	7	2.3	0.363	0.129	0.0763	
240 minute winter	7	Hydro-Brake®	8	3.5				20.7

Results for 100 year +40% CC 360 minute summer. 600 minute analysis at 8 minute timestep. Mass balance: 99.76%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
360 minute summer	1	184	90.618	0.018	0.7	0.0040	0.0000	OK
360 minute summer	2	184	90.377	0.016	0.7	0.0026	0.0000	OK
360 minute summer	3	184	90.618	0.018	0.7	0.0041	0.0000	OK
360 minute summer	4	184	90.381	0.014	0.7	0.0022	0.0000	OK
360 minute summer	5	184	90.172	0.023	1.4	0.0036	0.0000	OK
360 minute summer	6	184	90.122	0.037	2.4	0.0266	0.0000	OK
360 minute summer	7	184	90.086	0.100	3.7	0.1130	0.0000	OK
360 minute summer	8	8	89.946	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 (m³)	Discharge Vol (m³)
360 minute summer	1	1.000	2	0.7	0.632	0.027	0.0131	
360 minute summer	2	1.001	5	0.7	0.502	0.025	0.0125	
360 minute summer	3	2.000	4	0.7	0.697	0.027	0.0116	
360 minute summer	4	2.001	5	0.7	0.560	0.017	0.0054	
360 minute summer	5	1.002	7	1.3	0.199	0.050	0.0505	
360 minute summer	6	3.000	7	2.4	0.305	0.134	0.0783	
360 minute summer	7	Hydro-Brake®	8	3.6				21.6

Results for 100 year +40% CC 360 minute winter. 600 minute analysis at 8 minute timestep. Mass balance: 99.35%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
360 minute winter	1	176	90.615	0.015	0.5	0.0034	0.0000	OK
360 minute winter	2	184	90.375	0.014	0.5	0.0023	0.0000	OK
360 minute winter	3	176	90.615	0.015	0.5	0.0035	0.0000	OK
360 minute winter	4	184	90.379	0.012	0.5	0.0019	0.0000	OK
360 minute winter	5	184	90.169	0.020	1.0	0.0031	0.0000	OK
360 minute winter	6	184	90.117	0.032	1.8	0.0230	0.0000	OK
360 minute winter	7	184	90.065	0.079	2.8	0.0892	0.0000	OK
360 minute winter	8	8	89.946	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 (m³)	Discharge Vol (m³)
360 minute winter	1	1.000	2	0.5	0.573	0.020	0.0104	
360 minute winter	2	1.001	5	0.5	0.457	0.018	0.0101	
360 minute winter	3	2.000	4	0.5	0.633	0.020	0.0093	
360 minute winter	4	2.001	5	0.5	0.509	0.012	0.0043	
360 minute winter	5	1.002	7	1.0	0.202	0.037	0.0383	
360 minute winter	6	3.000	7	1.8	0.299	0.100	0.0599	
360 minute winter	7	Hydro-Brake®	8	2.7				23.7

Results for 100 year +40% CC 480 minute summer. 720 minute analysis at 8 minute timestep. Mass balance: 99.37%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
480 minute summer	1	240	90.615	0.015	0.5	0.0034	0.0000	OK
480 minute summer	2	248	90.375	0.014	0.5	0.0023	0.0000	OK
480 minute summer	3	240	90.615	0.015	0.5	0.0035	0.0000	OK
480 minute summer	4	248	90.379	0.012	0.5	0.0019	0.0000	OK
480 minute summer	5	248	90.169	0.020	1.0	0.0031	0.0000	OK
480 minute summer	6	248	90.118	0.033	1.9	0.0236	0.0000	OK
480 minute summer	7	248	90.067	0.081	2.9	0.0914	0.0000	OK
480 minute summer	8	8	89.946	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 (m³)	Discharge Vol (m³)
480 minute summer	1	1.000	2	0.5	0.573	0.020	0.0104	
480 minute summer	2	1.001	5	0.5	0.457	0.018	0.0101	
480 minute summer	3	2.000	4	0.5	0.633	0.020	0.0093	
480 minute summer	4	2.001	5	0.5	0.508	0.012	0.0043	
480 minute summer	5	1.002	7	1.0	0.197	0.037	0.0394	
480 minute summer	6	3.000	7	1.9	0.306	0.105	0.0619	
480 minute summer	7	Hydro-Brake®	8	2.8				23.1

Results for 100 year +40% CC 480 minute winter. 720 minute analysis at 8 minute timestep. Mass balance: 99.07%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
480 minute winter	1	224	90.613	0.013	0.4	0.0030	0.0000	OK
480 minute winter	2	232	90.374	0.013	0.4	0.0020	0.0000	OK
480 minute winter	3	224	90.614	0.014	0.4	0.0031	0.0000	OK
480 minute winter	4	232	90.378	0.011	0.4	0.0017	0.0000	OK
480 minute winter	5	232	90.167	0.018	0.8	0.0028	0.0000	OK
480 minute winter	6	232	90.113	0.028	1.4	0.0203	0.0000	OK
480 minute winter	7	232	90.053	0.067	2.2	0.0762	0.0000	OK
480 minute winter	8	8	89.946	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 (m³)	Discharge Vol (m³)
480 minute winter	1	1.000	2	0.4	0.538	0.016	0.0089	
480 minute winter	2	1.001	5	0.4	0.427	0.015	0.0086	
480 minute winter	3	2.000	4	0.4	0.590	0.016	0.0079	
480 minute winter	4	2.001	5	0.4	0.475	0.010	0.0037	
480 minute winter	5	1.002	7	0.8	0.200	0.030	0.0315	
480 minute winter	6	3.000	7	1.4	0.292	0.077	0.0493	
480 minute winter	7	Hydro-Brake®	8	2.1				26.0

Results for 100 year +40% CC 600 minute summer. 840 minute analysis at 15 minute timestep. Mass balance: 99.24%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
600 minute summer	1	300	90.613	0.013	0.4	0.0030	0.0000	OK
600 minute summer	2	300	90.374	0.013	0.4	0.0020	0.0000	OK
600 minute summer	3	300	90.614	0.014	0.4	0.0031	0.0000	OK
600 minute summer	4	300	90.378	0.011	0.4	0.0017	0.0000	OK
600 minute summer	5	330	90.167	0.018	0.8	0.0028	0.0000	OK
600 minute summer	6	300	90.115	0.030	1.6	0.0216	0.0000	OK
600 minute summer	7	300	90.057	0.071	2.4	0.0804	0.0000	OK
600 minute summer	8	15	89.946	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 (m³)	Discharge Vol (m³)
600 minute summer	1	1.000	2	0.4	0.537	0.016	0.0089	
600 minute summer	2	1.001	5	0.4	0.426	0.015	0.0086	
600 minute summer	3	2.000	4	0.4	0.590	0.016	0.0079	
600 minute summer	4	2.001	5	0.4	0.474	0.010	0.0037	
600 minute summer	5	1.002	7	0.8	0.193	0.030	0.0335	
600 minute summer	6	3.000	7	1.6	0.300	0.088	0.0531	
600 minute summer	7	Hydro-Brake®	8	2.3				24.2

Results for 100 year +40% CC 600 minute winter. 840 minute analysis at 15 minute timestep. Mass balance: 99.23%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
600 minute winter	1	270	90.612	0.012	0.3	0.0027	0.0000	OK
600 minute winter	2	285	90.372	0.011	0.3	0.0018	0.0000	OK
600 minute winter	3	270	90.612	0.012	0.3	0.0027	0.0000	OK
600 minute winter	4	285	90.376	0.009	0.3	0.0015	0.0000	OK
600 minute winter	5	300	90.165	0.016	0.6	0.0025	0.0000	OK
600 minute winter	6	300	90.111	0.026	1.2	0.0188	0.0000	OK
600 minute winter	7	300	90.046	0.060	1.8	0.0675	0.0000	OK
600 minute winter	8	15	89.946	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 (m³)	Discharge Vol (m³)
600 minute winter	1	1.000	2	0.3	0.490	0.012	0.0073	
600 minute winter	2	1.001	5	0.3	0.392	0.011	0.0071	
600 minute winter	3	2.000	4	0.3	0.541	0.012	0.0065	
600 minute winter	4	2.001	5	0.3	0.435	0.007	0.0030	
600 minute winter	5	1.002	7	0.6	0.188	0.022	0.0267	
600 minute winter	6	3.000	7	1.2	0.283	0.066	0.0424	
600 minute winter	7	Hydro-Brake®	8	1.7				27.1

Results for 100 year +40% CC 720 minute summer. 960 minute analysis at 15 minute timestep. Mass balance: 99.41%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
720 minute summer	1	360	90.613	0.013	0.4	0.0030	0.0000	OK
720 minute summer	2	360	90.374	0.013	0.4	0.0020	0.0000	OK
720 minute summer	3	360	90.614	0.014	0.4	0.0031	0.0000	OK
720 minute summer	4	360	90.378	0.011	0.4	0.0017	0.0000	OK
720 minute summer	5	360	90.166	0.017	0.8	0.0028	0.0000	OK
720 minute summer	6	360	90.113	0.028	1.4	0.0204	0.0000	OK
720 minute summer	7	360	90.053	0.067	2.1	0.0761	0.0000	OK
720 minute summer	8	15	89.946	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 (m³)	Discharge Vol (m³)
720 minute summer	1	1.000	2	0.4	0.536	0.016	0.0088	
720 minute summer	2	1.001	5	0.4	0.423	0.014	0.0084	
720 minute summer	3	2.000	4	0.4	0.588	0.016	0.0078	
720 minute summer	4	2.001	5	0.4	0.472	0.010	0.0036	
720 minute summer	5	1.002	7	0.8	0.186	0.028	0.0313	
720 minute summer	6	3.000	7	1.4	0.288	0.078	0.0493	
720 minute summer	7	Hydro-Brake®	8	2.1				24.1

Results for 100 year +40% CC 720 minute winter. 960 minute analysis at 15 minute timestep. Mass balance: 99.19%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
720 minute winter	1	330	90.612	0.012	0.3	0.0027	0.0000	OK
720 minute winter	2	360	90.372	0.011	0.3	0.0018	0.0000	OK
720 minute winter	3	330	90.612	0.012	0.3	0.0027	0.0000	OK
720 minute winter	4	360	90.376	0.009	0.3	0.0015	0.0000	OK
720 minute winter	5	420	90.165	0.016	0.6	0.0025	0.0000	OK
720 minute winter	6	360	90.110	0.025	1.1	0.0180	0.0000	OK
720 minute winter	7	360	90.044	0.058	1.7	0.0651	0.0000	OK
720 minute winter	8	15	89.946	0.000	1.6	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
720 minute winter	1	1.000	2	0.3	0.490	0.012	0.0073	
720 minute winter	2	1.001	5	0.3	0.392	0.011	0.0071	
720 minute winter	3	2.000	4	0.3	0.541	0.012	0.0065	
720 minute winter	4	2.001	5	0.3	0.435	0.007	0.0030	
720 minute winter	5	1.002	7	0.6	0.188	0.022	0.0256	
720 minute winter	6	3.000	7	1.1	0.273	0.060	0.0403	
720 minute winter	7	Hydro-Brake®	8	1.6				29.5

Results for 100 year +40% CC 960 minute summer. 1200 minute analysis at 15 minute timestep. Mass balance: 99.46%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
960 minute summer	1	465	90.612	0.012	0.3	0.0027	0.0000	OK
960 minute summer	2	480	90.372	0.011	0.3	0.0018	0.0000	OK
960 minute summer	3	465	90.612	0.012	0.3	0.0027	0.0000	OK
960 minute summer	4	480	90.376	0.009	0.3	0.0015	0.0000	OK
960 minute summer	5	480	90.165	0.016	0.6	0.0025	0.0000	OK
960 minute summer	6	480	90.111	0.026	1.2	0.0188	0.0000	OK
960 minute summer	7	480	90.046	0.060	1.8	0.0675	0.0000	OK
960 minute summer	8	15	89.946	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 (m³)	Discharge Vol (m³)
960 minute summer	1	1.000	2	0.3	0.490	0.012	0.0073	
960 minute summer	2	1.001	5	0.3	0.392	0.011	0.0071	
960 minute summer	3	2.000	4	0.3	0.541	0.012	0.0065	
960 minute summer	4	2.001	5	0.3	0.435	0.007	0.0030	
960 minute summer	5	1.002	7	0.6	0.188	0.022	0.0267	
960 minute summer	6	3.000	7	1.2	0.283	0.066	0.0424	
960 minute summer	7	Hydro-Brake®	8	1.7				26.1

Results for 100 year +40% CC 960 minute winter. 1200 minute analysis at 15 minute timestep. Mass balance: 99.44%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
960 minute winter	1	405	90.610	0.010	0.2	0.0022	0.0000	OK
960 minute winter	2	435	90.370	0.009	0.2	0.0015	0.0000	OK
960 minute winter	3	405	90.610	0.010	0.2	0.0023	0.0000	OK
960 minute winter	4	435	90.375	0.008	0.2	0.0012	0.0000	OK
960 minute winter	5	435	90.162	0.013	0.4	0.0020	0.0000	OK
960 minute winter	6	480	90.108	0.023	0.9	0.0163	0.0000	OK
960 minute winter	7	480	90.035	0.049	1.3	0.0559	0.0000	OK
960 minute winter	8	15	89.946	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 (m³)	Discharge Vol (m³)
960 minute winter	1	1.000	2	0.2	0.433	0.008	0.0055	
960 minute winter	2	1.001	5	0.2	0.345	0.007	0.0053	
960 minute winter	3	2.000	4	0.2	0.477	0.008	0.0049	
960 minute winter	4	2.001	5	0.2	0.386	0.005	0.0023	
960 minute winter	5	1.002	7	0.4	0.170	0.015	0.0206	
960 minute winter	6	3.000	7	0.9	0.271	0.050	0.0332	
960 minute winter	7	Hydro-Brake®	8	1.2				29.4

Results for 100 year +40% CC 1440 minute summer. 1680 minute analysis at 30 minute timestep. Mass balance: 99.21%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
1440 minute summer	1	690	90.610	0.010	0.2	0.0022	0.0000	OK
1440 minute summer	2	720	90.370	0.009	0.2	0.0015	0.0000	OK
1440 minute summer	3	690	90.610	0.010	0.2	0.0023	0.0000	OK
1440 minute summer	4	720	90.375	0.008	0.2	0.0012	0.0000	OK
1440 minute summer	5	750	90.162	0.013	0.4	0.0020	0.0000	OK
1440 minute summer	6	750	90.106	0.021	0.8	0.0155	0.0000	OK
1440 minute summer	7	750	90.033	0.047	1.2	0.0534	0.0000	OK
1440 minute summer	8	30	89.946	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 (m³)	Discharge Vol (m³)
1440 minute summer	1	1.000	2	0.2	0.433	0.008	0.0055	
1440 minute summer	2	1.001	5	0.2	0.345	0.007	0.0053	
1440 minute summer	3	2.000	4	0.2	0.477	0.008	0.0049	
1440 minute summer	4	2.001	5	0.2	0.386	0.005	0.0023	
1440 minute summer	5	1.002	7	0.4	0.169	0.015	0.0195	
1440 minute summer	6	3.000	7	0.8	0.259	0.044	0.0311	
1440 minute summer	7	Hydro-Brake®	8	1.1				27.4

Results for 100 year +40% CC 1440 minute winter. 1680 minute analysis at 30 minute timestep. Mass balance: 98.52%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
1440 minute winter	1	690	90.610	0.010	0.2	0.0022	0.0000	OK
1440 minute winter	2	690	90.370	0.009	0.2	0.0014	0.0000	OK
1440 minute winter	3	690	90.610	0.010	0.2	0.0023	0.0000	OK
1440 minute winter	4	690	90.375	0.008	0.2	0.0012	0.0000	OK
1440 minute winter	5	690	90.161	0.012	0.4	0.0020	0.0000	OK
1440 minute winter	6	690	90.104	0.019	0.6	0.0136	0.0000	OK
1440 minute winter	7	690	90.029	0.043	1.0	0.0481	0.0000	OK
1440 minute winter	8	30	89.946	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 (m³)	Discharge Vol (m³)
1440 minute winter	1	1.000	2	0.2	0.433	0.008	0.0054	
1440 minute winter	2	1.001	5	0.2	0.342	0.007	0.0051	
1440 minute winter	3	2.000	4	0.2	0.475	0.008	0.0048	
1440 minute winter	4	2.001	5	0.2	0.386	0.005	0.0022	
1440 minute winter	5	1.002	7	0.4	0.170	0.014	0.0171	
1440 minute winter	6	3.000	7	0.6	0.240	0.034	0.0266	
1440 minute winter	7	Hydro-Brake®	8	1.0				30.9