

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)	18.000	Minimum Backdrop Height (m)	1.000
Ratio-R	0.360	Preferred Cover Depth (m)	0.600
CV	0.750	Include Intermediate Ground	✓
Time of Entry (mins)	5.00	Enforce best practice design rules	✓

Adoptable Manhole Type

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

>900 Link+900 mm

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

Circular Default Sewer Type Link Type

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

Available Diameters (mm)

100 | 150

Nodes

Name	Area (ha)	T of E (mins)	Cover Level (m)	Diameter (mm)	Easting (m)	Northing (m)	Depth (m)
1	0.015	5.00	57.700	260	387453.349	396782.424	0.750
2	0.003	5.00	57.800	450	387438.886	396801.850	1.092
3	0.007	5.00	57.800	260	387462.946	396791.778	0.750
4	0.000		57.854	450	387449.482	396809.823	1.279
5	0.008	5.00	58.050	260	387475.359	396811.000	0.750
6	0.003	5.00	58.050	450	387465.747	396803.808	0.870
7	0.003	5.00	58.050	450	387456.823	396815.316	1.567
8	0.000		58.050	450	387452.131	396821.682	1.646
9	0.007	5.00	58.050	260	387467.628	396819.056	0.750
10	0.000		58.050	450	387460.683	396828.285	1.039
11	0.001	5.00	57.594	1200	387453.889	396829.685	1.272
12			57.580	1200	387451.372	396832.262	1.575

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	24.219	0.600	56.950	56.708	0.242	100.0	150	5.40	50.0
1.001	2	4	13.261	0.600	56.708	56.575	0.133	100.0	150	5.62	50.0
2.000	3	4	22.514	0.600	57.050	56.575	0.475	47.4	150	5.26	50.0
1.002	4	7	9.169	0.600	56.575	56.483	0.092	100.0	150	5.77	50.0
3.000	5	6	12.005	0.600	57.300	57.180	0.120	100.0	150	5.20	50.0
3.001	6	7	14.563	0.600	57.180	56.483	0.697	20.9	150	5.31	50.0
1.003	7	8	7.908	0.600	56.483	56.404	0.079	100.0	150	5.91	50.0
1.004	8	11	8.194	0.600	56.404	56.322	0.082	100.0	150	6.04	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	1.005	17.8	2.0	0.600	0.942	0.015	0.0	34	0.670
1.001	1.005	17.8	2.4	0.942	1.129	0.018	0.0	38	0.709
2.000	1.465	25.9	0.9	0.600	1.129	0.007	0.0	20	0.694
1.002	1.005	17.8	3.4	1.129	1.417	0.025	0.0	44	0.774
3.000	1.005	17.8	1.1	0.600	0.720	0.008	0.0	25	0.552
3.001	2.213	39.1	1.5	0.720	1.417	0.011	0.0	20	1.072
1.003	1.005	17.8	5.3	1.417	1.496	0.039	0.0	56	0.877
1.004	1.005	17.8	5.3	1.496	1.122	0.039	0.0	56	0.877

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)
4.000	9	10	11.550	0.600	57.300	57.011	0.289	40.0	150	5.12	50.0
4.001	10	11	6.937	0.600	57.011	56.322	0.689	10.1	150	5.16	50.0
1.005	11	12	3.602	0.600	56.322	56.005	0.317	11.4	150	6.06	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)
4.000	1.596	28.2	0.9	0.600	0.889	0.007	0.0	19	0.743
4.001	3.194	56.4	0.9	0.889	1.122	0.007	0.0	14	1.209
1.005	3.005	53.1	6.4	1.122	1.425	0.047	0.0	35	2.031

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	24.219	100.0	150	Circular_Default Sewer Type	57.700	56.950	0.600	57.800	56.708	0.942
1.001	13.261	100.0	150	Circular_Default Sewer Type	57.800	56.708	0.942	57.854	56.575	1.129
2.000	22.514	47.4	150	Circular_Default Sewer Type	57.800	57.050	0.600	57.854	56.575	1.129
1.002	9.169	100.0	150	Circular_Default Sewer Type	57.854	56.575	1.129	58.050	56.483	1.417
3.000	12.005	100.0	150	Circular_Default Sewer Type	58.050	57.300	0.600	58.050	57.180	0.720
3.001	14.563	20.9	150	Circular_Default Sewer Type	58.050	57.180	0.720	58.050	56.483	1.417
1.003	7.908	100.0	150	Circular_Default Sewer Type	58.050	56.483	1.417	58.050	56.404	1.496
1.004	8.194	100.0	150	Circular_Default Sewer Type	58.050	56.404	1.496	57.594	56.322	1.122
4.000	11.550	40.0	150	Circular_Default Sewer Type	58.050	57.300	0.600	58.050	57.011	0.889
4.001	6.937	10.1	150	Circular_Default Sewer Type	58.050	57.011	0.889	57.594	56.322	1.122
1.005	3.602	11.4	150	Circular_Default Sewer Type	57.594	56.322	1.122	57.580	56.005	1.425

Link	US Node	Dia (mm)	Node Type	MH Type	DS Node	Dia (mm)	Node Type	MH Type
1.000	1	260	Manhole	Adoptable	2	450	Manhole	Adoptable
1.001	2	450	Manhole	Adoptable	4	450	Manhole	Adoptable
2.000	3	260	Manhole	Adoptable	4	450	Manhole	Adoptable
1.002	4	450	Manhole	Adoptable	7	450	Manhole	Adoptable
3.000	5	260	Manhole	Adoptable	6	450	Manhole	Adoptable
3.001	6	450	Manhole	Adoptable	7	450	Manhole	Adoptable
1.003	7	450	Manhole	Adoptable	8	450	Manhole	Adoptable
1.004	8	450	Manhole	Adoptable	11	1200	Manhole	Adoptable
4.000	9	260	Manhole	Adoptable	10	450	Manhole	Adoptable
4.001	10	450	Manhole	Adoptable	11	1200	Manhole	Adoptable
1.005	11	1200	Manhole	Adoptable	12	1200	Manhole	Adoptable

Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)	
1	387453.349	396782.424	57.700	0.750	260		0	1.000	56.950	150
2	387438.886	396801.850	57.800	1.092	450		1	1.000	56.708	150
							0	1.001	56.708	150
3	387462.946	396791.778	57.800	0.750	260		0	2.000	57.050	150
4	387449.482	396809.823	57.854	1.279	450		1	2.000	56.575	150
							2	1.001	56.575	150
							0	1.002	56.575	150
5	387475.359	396811.000	58.050	0.750	260		0	3.000	57.300	150

Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)
6	387465.747	396803.808	58.050	0.870	450		1 3.000	57.180	150
							0 3.001	57.180	150
7	387456.823	396815.316	58.050	1.567	450		1 3.001	56.483	150
							2 1.002	56.483	150
							0 1.003	56.483	150
8	387452.131	396821.682	58.050	1.646	450		1 1.003	56.404	150
							0 1.004	56.404	150
9	387467.628	396819.056	58.050	0.750	260				
							0 4.000	57.300	150
10	387460.683	396828.285	58.050	1.039	450		1 4.000	57.011	150
							0 4.001	57.011	150
11	387453.889	396829.685	57.594	1.272	1200		1 4.001	56.322	150
							2 1.004	56.322	150
							0 1.005	56.322	150
12	387451.372	396832.262	57.580	1.575	1200		1 1.005	56.005	150

Node 11 Online Hydro-Brake® Control

Flap Valve	x	Objective	(HE) Minimise upstream storage
Replaces Downstream Link	✓	Sump Available	✓
Invert Level (m)	56.322	Product Number	CTL-SHE-0101-5000-1272-5000
Design Depth (m)	1.272	Min Outlet Diameter (m)	0.150
Design Flow (l/s)	5.0	Min Node Diameter (mm)	1200

Other (defaults)

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

Approval Settings

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

Approval Results

The network has been designed for a 1 in 2 year storm using FSR rainfall
 It contains 12 nodes (1 outfall) and 11 links
 The total impermeable area is 0.047 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

10 manholes are smaller than that required by the library

Node	Required Dia (mm)	Actual Dia (mm)
1	1200	260
2	1200	450
3	1200	260
4	1200	450
5	1200	260
6	1200	450
7	1200	450
8	1200	450
9	1200	260
10	1200	450

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

Node	US Link	DS Link	US Exit Loss	DS Entry Loss	Angle (degrees)	Recommended Node Losses
2	1.000	1.001	0.250	0.250	90	0.900
4	2.000	1.002	0.250	0.250	90	0.900
6	3.000	3.001	0.250	0.250	89	0.900
7	1.002	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	7	1.002	Foul Network 1	1.002	387456.519	396815.089

4 links have cover depth outside the range 0.600-3.000m

US Node	DS Node	Link	Minimum Depth (m)	Maximum Depth (m)
3	4	2.000	-0.009	1.129
5	6	3.000	-0.075	0.720
6	7	3.001	0.063	1.417
9	10	4.000	0.548	0.889

No nodes have backdrops outside the range 1.000-1.500m

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

US Node	DS Node	Link	Velocity (m/s)
10	11	4.001	3.194
11	12	1.005	3.005

7 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	0.657	2 year 15 minute winter
2	4	1.001	0.636	2 year 15 minute winter
3	4	2.000	0.485	2 year 15 minute summer
4	7	1.002	0.655	2 year 15 minute summer
5	6	3.000	0.657	2 year 15 minute winter
6	7	3.001	0.563	2 year 30 minute summer
8	11	1.004	0.437	2 year 15 minute summer

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	94.806	26.827	30 year 15 minute summer	231.915	65.624
1 year 15 minute winter	66.530	26.827	30 year 15 minute winter	162.747	65.624
1 year 30 minute summer	62.563	17.703	30 year 30 minute summer	153.752	43.507
1 year 30 minute winter	43.904	17.703	30 year 30 minute winter	107.896	43.507
1 year 60 minute summer	43.047	11.376	30 year 60 minute summer	104.640	27.653
1 year 60 minute winter	28.599	11.376	30 year 60 minute winter	69.521	27.653
1 year 120 minute summer	27.209	7.190	30 year 120 minute summer	64.663	17.088
1 year 120 minute winter	18.077	7.190	30 year 120 minute winter	42.960	17.088
1 year 180 minute summer	21.275	5.475	30 year 180 minute summer	49.598	12.763
1 year 180 minute winter	13.830	5.475	30 year 180 minute winter	32.240	12.763
1 year 240 minute summer	17.060	4.508	30 year 240 minute summer	39.093	10.331
1 year 240 minute winter	11.334	4.508	30 year 240 minute winter	25.973	10.331
1 year 360 minute summer	13.310	3.425	30 year 360 minute summer	29.626	7.624
1 year 360 minute winter	8.652	3.425	30 year 360 minute winter	19.258	7.624
1 year 480 minute summer	10.595	2.800	30 year 480 minute summer	23.255	6.146
1 year 480 minute winter	7.039	2.800	30 year 480 minute winter	15.450	6.146
1 year 600 minute summer	8.754	2.395	30 year 600 minute summer	18.997	5.196
1 year 600 minute winter	5.981	2.395	30 year 600 minute winter	12.980	5.196
1 year 720 minute summer	7.863	2.107	30 year 720 minute summer	16.897	4.528
1 year 720 minute winter	5.284	2.107	30 year 720 minute winter	11.356	4.528
1 year 960 minute summer	6.543	1.723	30 year 960 minute summer	13.834	3.643
1 year 960 minute winter	4.334	1.723	30 year 960 minute winter	9.164	3.643
1 year 1440 minute summer	4.843	1.298	30 year 1440 minute summer	9.990	2.677
1 year 1440 minute winter	3.255	1.298	30 year 1440 minute winter	6.714	2.677
2 year 15 minute summer	122.693	34.718	100 year +40% CC 15 minute summer	419.179	118.613
2 year 15 minute winter	86.101	34.718	100 year +40% CC 15 minute winter	294.160	118.613
2 year 30 minute summer	80.767	22.854	100 year +40% CC 30 minute summer	280.646	79.413
2 year 30 minute winter	56.678	22.854	100 year +40% CC 30 minute winter	196.945	79.413
2 year 60 minute summer	54.898	14.508	100 year +40% CC 60 minute summer	192.272	50.812
2 year 60 minute winter	36.473	14.508	100 year +40% CC 60 minute winter	127.741	50.812
2 year 120 minute summer	34.157	9.027	100 year +40% CC 120 minute summer	119.076	31.468
2 year 120 minute winter	22.693	9.027	100 year +40% CC 120 minute winter	79.111	31.468
2 year 180 minute summer	26.443	6.805	100 year +40% CC 180 minute summer	91.187	23.466
2 year 180 minute winter	17.188	6.805	100 year +40% CC 180 minute winter	59.274	23.466
2 year 240 minute summer	21.044	5.561	100 year +40% CC 240 minute summer	71.667	18.940
2 year 240 minute winter	13.981	5.561	100 year +40% CC 240 minute winter	47.614	18.940
2 year 360 minute summer	16.241	4.179	100 year +40% CC 360 minute summer	53.946	13.882
2 year 360 minute winter	10.557	4.179	100 year +40% CC 360 minute winter	35.066	13.882
2 year 480 minute summer	12.872	3.402	100 year +40% CC 480 minute summer	42.165	11.143
2 year 480 minute winter	8.552	3.402	100 year +40% CC 480 minute winter	28.013	11.143
2 year 600 minute summer	10.599	2.899	100 year +40% CC 600 minute summer	34.324	9.389
2 year 600 minute winter	7.242	2.899	100 year +40% CC 600 minute winter	23.453	9.389
2 year 720 minute summer	9.491	2.544	100 year +40% CC 720 minute summer	30.440	8.158
2 year 720 minute winter	6.379	2.544	100 year +40% CC 720 minute winter	20.457	8.158
2 year 960 minute summer	7.859	2.070	100 year +40% CC 960 minute summer	24.800	6.531
2 year 960 minute winter	5.206	2.070	100 year +40% CC 960 minute winter	16.428	6.531
2 year 1440 minute summer	5.773	1.547	100 year +40% CC 1440 minute summer	17.775	4.764
2 year 1440 minute winter	3.880	1.547	100 year +40% CC 1440 minute winter	11.946	4.764

Results for 1 year Critical Storm Duration. Lowest mass balance: 96.85%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	1	10	56.982	0.032	1.8	0.0145	0.0000	OK
15 minute winter	2	11	56.743	0.035	2.2	0.0074	0.0000	OK
15 minute winter	3	10	57.069	0.019	0.9	0.0045	0.0000	OK
15 minute winter	4	11	56.617	0.042	2.9	0.0067	0.0000	OK
15 minute winter	5	10	57.325	0.025	1.0	0.0067	0.0000	OK
15 minute winter	6	10	57.199	0.019	1.4	0.0043	0.0000	OK
15 minute winter	7	11	56.538	0.055	4.5	0.0108	0.0000	OK
15 minute winter	8	13	56.485	0.081	4.5	0.0129	0.0000	OK
15 minute winter	9	10	57.320	0.020	0.9	0.0047	0.0000	OK
15 minute winter	10	10	57.024	0.013	0.9	0.0021	0.0000	OK
15 minute winter	11	13	56.486	0.164	4.8	0.1879	0.0000	SURCHARGED
15 minute summer	12	1	56.005	0.000	4.3	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	1.8	0.609	0.100	0.0703	
15 minute winter	2	1.001	4	2.1	0.595	0.118	0.0475	
15 minute winter	3	2.000	4	0.9	0.463	0.033	0.0599	
15 minute winter	4	1.002	7	2.9	0.597	0.166	0.0453	
15 minute winter	5	3.000	6	1.0	0.605	0.054	0.0193	
15 minute winter	6	3.001	7	1.3	0.519	0.034	0.0514	
15 minute winter	7	1.003	8	4.5	0.796	0.256	0.0582	
15 minute winter	8	1.004	11	3.9	0.418	0.218	0.1121	
15 minute winter	9	4.000	10	0.9	0.852	0.031	0.0120	
15 minute winter	10	4.001	11	0.8	0.747	0.015	0.0634	
15 minute winter	11	Hydro-Brake®	12	4.4				2.6

Results for 2 year Critical Storm Duration. Lowest mass balance: 96.85%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	1	10	56.987	0.037	2.4	0.0167	0.0000	OK
15 minute winter	2	11	56.748	0.040	2.8	0.0086	0.0000	OK
15 minute winter	3	10	57.071	0.021	1.1	0.0050	0.0000	OK
15 minute winter	4	11	56.624	0.049	3.8	0.0078	0.0000	OK
15 minute winter	5	10	57.329	0.029	1.3	0.0076	0.0000	OK
15 minute winter	6	10	57.202	0.022	1.8	0.0049	0.0000	OK
15 minute winter	7	14	56.566	0.083	5.9	0.0164	0.0000	OK
15 minute winter	8	14	56.563	0.159	6.2	0.0253	0.0000	SURCHARGED
15 minute summer	9	10	57.322	0.022	1.1	0.0052	0.0000	OK
15 minute winter	10	10	57.025	0.014	1.1	0.0023	0.0000	OK
15 minute winter	11	14	56.557	0.235	6.0	0.2695	0.0000	SURCHARGED
15 minute summer	12	1	56.005	0.000	4.7	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	2.3	0.657	0.132	0.0861	
15 minute winter	2	1.001	4	2.8	0.636	0.156	0.0581	
15 minute winter	3	2.000	4	1.1	0.454	0.041	0.0724	
15 minute winter	4	1.002	7	3.8	0.649	0.214	0.0638	
15 minute winter	5	3.000	6	1.3	0.657	0.072	0.0234	
15 minute winter	6	3.001	7	1.7	0.438	0.044	0.0802	
15 minute winter	7	1.003	8	6.2	0.814	0.351	0.1093	
15 minute winter	8	1.004	11	4.8	0.428	0.272	0.1443	
15 minute summer	9	4.000	10	1.1	0.904	0.038	0.0139	
15 minute winter	10	4.001	11	1.1	0.803	0.019	0.0640	
15 minute winter	11	Hydro-Brake®	12	4.8				3.4

Results for 30 year Critical Storm Duration. Lowest mass balance: 96.85%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	1	10	57.001	0.051	4.5	0.0233	0.0000	OK
15 minute winter	2	15	56.837	0.129	5.3	0.0277	0.0000	OK
15 minute winter	3	10	57.079	0.029	2.1	0.0069	0.0000	OK
15 minute winter	4	15	56.836	0.261	7.2	0.0415	0.0000	SURCHARGED
15 minute winter	5	10	57.339	0.039	2.4	0.0104	0.0000	OK
15 minute winter	6	10	57.209	0.029	3.2	0.0066	0.0000	OK
15 minute winter	7	15	56.833	0.350	9.3	0.0689	0.0000	SURCHARGED
15 minute winter	8	15	56.827	0.423	7.5	0.0673	0.0000	SURCHARGED
15 minute winter	9	10	57.330	0.030	2.1	0.0072	0.0000	OK
15 minute winter	10	10	57.031	0.020	2.1	0.0031	0.0000	OK
15 minute winter	11	15	56.821	0.499	7.8	0.5725	0.0000	SURCHARGED
15 minute summer	12	1	56.005	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	4.4	0.774	0.249	0.2261	
15 minute winter	2	1.001	4	5.2	0.719	0.294	0.2238	
15 minute winter	3	2.000	4	2.1	0.499	0.080	0.2235	
15 minute winter	4	1.002	7	5.7	0.691	0.321	0.1614	
15 minute winter	5	3.000	6	2.4	0.784	0.132	0.0362	
15 minute winter	6	3.001	7	3.2	0.518	0.082	0.1456	
15 minute winter	7	1.003	8	7.5	0.820	0.421	0.1392	
15 minute winter	8	1.004	11	5.6	0.448	0.313	0.1443	
15 minute winter	9	4.000	10	2.1	1.094	0.074	0.0222	
15 minute winter	10	4.001	11	2.1	0.774	0.037	0.0658	
15 minute winter	11	Hydro-Brake®	12	5.0				6.5

Results for 100 year +40% CC Critical Storm Duration. Lowest mass balance: 96.85%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
30 minute winter	1	26	57.373	0.423	6.4	0.1917	0.0000	SURCHARGED
30 minute winter	2	26	57.371	0.663	7.6	0.1418	0.0000	SURCHARGED
30 minute winter	3	27	57.371	0.321	3.0	0.0771	0.0000	SURCHARGED
30 minute winter	4	26	57.369	0.794	8.4	0.1263	0.0000	SURCHARGED
30 minute winter	5	27	57.368	0.068	3.4	0.0182	0.0000	OK
30 minute winter	6	27	57.368	0.188	4.7	0.0428	0.0000	SURCHARGED
30 minute winter	7	27	57.367	0.884	10.1	0.1741	0.0000	SURCHARGED
30 minute winter	8	27	57.361	0.957	6.8	0.1522	0.0000	SURCHARGED
30 minute winter	9	27	57.358	0.058	3.0	0.0139	0.0000	OK
30 minute winter	10	27	57.357	0.346	3.0	0.0550	0.0000	SURCHARGED
30 minute winter	11	27	57.356	1.034	8.0	1.1861	0.0000	FLOOD RISK
15 minute summer	12	1	56.005	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	6.3	0.820	0.357	0.4264	
30 minute winter	2	1.001	4	6.0	0.735	0.335	0.2335	
30 minute winter	3	2.000	4	3.0	0.485	0.116	0.3964	
30 minute winter	4	1.002	7	5.3	0.641	0.298	0.1614	
30 minute winter	5	3.000	6	3.4	0.869	0.192	0.1526	
30 minute winter	6	3.001	7	4.7	0.486	0.120	0.2564	
30 minute winter	7	1.003	8	6.8	0.788	0.385	0.1392	
30 minute winter	8	1.004	11	4.9	0.432	0.275	0.1443	
30 minute winter	9	4.000	10	3.0	1.214	0.106	0.1378	
30 minute winter	10	4.001	11	3.0	0.960	0.053	0.1221	
30 minute winter	11	Hydro-Brake®	12	5.0				15.7

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	56.981	0.031	1.7	0.0142	0.0000	OK
15 minute summer	2	11	56.742	0.034	2.0	0.0073	0.0000	OK
15 minute summer	3	11	57.068	0.018	0.8	0.0044	0.0000	OK
15 minute summer	4	11	56.616	0.041	2.8	0.0065	0.0000	OK
15 minute summer	5	10	57.324	0.024	0.9	0.0064	0.0000	OK
15 minute summer	6	11	57.198	0.018	1.2	0.0041	0.0000	OK
15 minute summer	7	12	56.536	0.053	4.3	0.0104	0.0000	OK
15 minute summer	8	13	56.472	0.068	4.3	0.0108	0.0000	OK
15 minute summer	9	10	57.319	0.019	0.8	0.0045	0.0000	OK
15 minute summer	10	11	57.024	0.013	0.8	0.0020	0.0000	OK
15 minute summer	11	13	56.468	0.146	5.1	0.1672	0.0000	OK
15 minute summer	12	1	56.005	0.000	4.3	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	1	1.000	2	1.7	0.605	0.096	0.0683	
15 minute summer	2	1.001	4	2.0	0.591	0.113	0.0456	
15 minute summer	3	2.000	4	0.8	0.462	0.031	0.0575	
15 minute summer	4	1.002	7	2.8	0.591	0.156	0.0431	
15 minute summer	5	3.000	6	0.9	0.598	0.051	0.0182	
15 minute summer	6	3.001	7	1.2	0.483	0.031	0.0489	
15 minute summer	7	1.003	8	4.3	0.800	0.240	0.0506	
15 minute summer	8	1.004	11	4.2	0.415	0.235	0.1032	
15 minute summer	9	4.000	10	0.8	0.828	0.028	0.0113	
15 minute summer	10	4.001	11	0.8	0.748	0.014	0.0624	
15 minute summer	11	Hydro-Brake®	12	4.3				2.3

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

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	1	10	56.982	0.032	1.8	0.0145	0.0000	OK
15 minute winter	2	11	56.743	0.035	2.2	0.0074	0.0000	OK
15 minute winter	3	10	57.069	0.019	0.9	0.0045	0.0000	OK
15 minute winter	4	11	56.617	0.042	2.9	0.0067	0.0000	OK
15 minute winter	5	10	57.325	0.025	1.0	0.0067	0.0000	OK
15 minute winter	6	10	57.199	0.019	1.4	0.0043	0.0000	OK
15 minute winter	7	11	56.538	0.055	4.5	0.0108	0.0000	OK
15 minute winter	8	13	56.485	0.081	4.5	0.0129	0.0000	OK
15 minute winter	9	10	57.320	0.020	0.9	0.0047	0.0000	OK
15 minute winter	10	10	57.024	0.013	0.9	0.0021	0.0000	OK
15 minute winter	11	13	56.486	0.164	4.8	0.1879	0.0000	SURCHARGED
15 minute winter	12	1	56.005	0.000	4.4	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute winter	1	1.000	2	1.8	0.609	0.100	0.0703	
15 minute winter	2	1.001	4	2.1	0.595	0.118	0.0475	
15 minute winter	3	2.000	4	0.9	0.463	0.033	0.0599	
15 minute winter	4	1.002	7	2.9	0.597	0.166	0.0453	
15 minute winter	5	3.000	6	1.0	0.605	0.054	0.0193	
15 minute winter	6	3.001	7	1.3	0.519	0.034	0.0514	
15 minute winter	7	1.003	8	4.5	0.796	0.256	0.0582	
15 minute winter	8	1.004	11	3.9	0.418	0.218	0.1121	
15 minute winter	9	4.000	10	0.9	0.852	0.031	0.0120	
15 minute winter	10	4.001	11	0.8	0.747	0.015	0.0634	
15 minute winter	11	Hydro-Brake®	12	4.4				2.6

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

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
30 minute summer	1	18	56.980	0.030	1.6	0.0138	0.0000	OK
30 minute summer	2	18	56.741	0.033	1.9	0.0070	0.0000	OK
30 minute summer	3	19	57.067	0.017	0.7	0.0041	0.0000	OK
30 minute summer	4	19	56.614	0.039	2.6	0.0062	0.0000	OK
30 minute summer	5	18	57.323	0.023	0.8	0.0061	0.0000	OK
30 minute summer	6	18	57.197	0.017	1.1	0.0040	0.0000	OK
30 minute summer	7	19	56.534	0.051	4.0	0.0100	0.0000	OK
30 minute summer	8	20	56.458	0.054	3.9	0.0086	0.0000	OK
30 minute summer	9	17	57.318	0.018	0.7	0.0042	0.0000	OK
30 minute summer	10	18	57.023	0.012	0.7	0.0019	0.0000	OK
30 minute summer	11	20	56.456	0.134	4.7	0.1535	0.0000	OK
30 minute summer	12	1	56.005	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)
30 minute summer	1	1.000	2	1.6	0.592	0.090	0.0654	
30 minute summer	2	1.001	4	1.9	0.583	0.105	0.0429	
30 minute summer	3	2.000	4	0.7	0.459	0.027	0.0536	
30 minute summer	4	1.002	7	2.6	0.578	0.144	0.0408	
30 minute summer	5	3.000	6	0.8	0.574	0.045	0.0169	
30 minute summer	6	3.001	7	1.1	0.492	0.028	0.0464	
30 minute summer	7	1.003	8	3.9	0.785	0.222	0.0429	
30 minute summer	8	1.004	11	3.9	0.398	0.220	0.0916	
30 minute summer	9	4.000	10	0.7	0.795	0.025	0.0103	
30 minute summer	10	4.001	11	0.7	0.701	0.012	0.0596	
30 minute summer	11	Hydro-Brake®	12	4.2				3.0

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	18	56.978	0.028	1.4	0.0129	0.0000	OK
30 minute winter	2	18	56.739	0.031	1.7	0.0067	0.0000	OK
30 minute winter	3	18	57.067	0.017	0.7	0.0041	0.0000	OK
30 minute winter	4	19	56.613	0.038	2.4	0.0060	0.0000	OK
30 minute winter	5	18	57.323	0.023	0.8	0.0061	0.0000	OK
30 minute winter	6	18	57.197	0.017	1.1	0.0040	0.0000	OK
30 minute winter	7	19	56.532	0.049	3.7	0.0097	0.0000	OK
30 minute winter	8	21	56.451	0.047	3.7	0.0074	0.0000	OK
30 minute winter	9	18	57.318	0.018	0.7	0.0042	0.0000	OK
30 minute winter	10	18	57.023	0.012	0.7	0.0019	0.0000	OK
30 minute winter	11	20	56.451	0.129	4.5	0.1483	0.0000	OK
30 minute winter	12	1	56.005	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)
30 minute winter	1	1.000	2	1.4	0.565	0.079	0.0600	
30 minute winter	2	1.001	4	1.7	0.559	0.095	0.0403	
30 minute winter	3	2.000	4	0.7	0.459	0.027	0.0506	
30 minute winter	4	1.002	7	2.4	0.564	0.133	0.0388	
30 minute winter	5	3.000	6	0.8	0.573	0.045	0.0168	
30 minute winter	6	3.001	7	1.1	0.510	0.028	0.0447	
30 minute winter	7	1.003	8	3.7	0.773	0.210	0.0382	
30 minute winter	8	1.004	11	3.7	0.396	0.209	0.0852	
30 minute winter	9	4.000	10	0.7	0.794	0.025	0.0103	
30 minute winter	10	4.001	11	0.7	0.701	0.012	0.0581	
30 minute winter	11	Hydro-Brake®	12	4.2				3.5

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	56.976	0.026	1.2	0.0120	0.0000	OK
60 minute summer	2	34	56.736	0.028	1.4	0.0061	0.0000	OK
60 minute summer	3	33	57.066	0.016	0.6	0.0038	0.0000	OK
60 minute summer	4	35	56.609	0.034	2.0	0.0054	0.0000	OK
60 minute summer	5	33	57.320	0.020	0.6	0.0053	0.0000	OK
60 minute summer	6	34	57.195	0.015	0.8	0.0034	0.0000	OK
60 minute summer	7	35	56.526	0.043	3.0	0.0085	0.0000	OK
60 minute summer	8	35	56.445	0.041	2.9	0.0065	0.0000	OK
60 minute summer	9	33	57.316	0.016	0.6	0.0039	0.0000	OK
60 minute summer	10	33	57.022	0.011	0.6	0.0017	0.0000	OK
60 minute summer	11	36	56.425	0.103	3.6	0.1185	0.0000	OK
60 minute summer	12	1	56.005	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)
60 minute summer	1	1.000	2	1.2	0.548	0.067	0.0529	
60 minute summer	2	1.001	4	1.4	0.527	0.078	0.0350	
60 minute summer	3	2.000	4	0.6	0.436	0.023	0.0444	
60 minute summer	4	1.002	7	2.0	0.548	0.110	0.0329	
60 minute summer	5	3.000	6	0.6	0.530	0.034	0.0137	
60 minute summer	6	3.001	7	0.8	0.557	0.020	0.0371	
60 minute summer	7	1.003	8	2.9	0.725	0.165	0.0319	
60 minute summer	8	1.004	11	2.9	0.363	0.164	0.0689	
60 minute summer	9	4.000	10	0.6	0.759	0.021	0.0092	
60 minute summer	10	4.001	11	0.6	0.701	0.011	0.0466	
60 minute summer	11	Hydro-Brake®	12	3.5				3.9

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	35	56.974	0.024	1.0	0.0109	0.0000	OK
60 minute winter	2	35	56.734	0.026	1.2	0.0056	0.0000	OK
60 minute winter	3	33	57.064	0.014	0.5	0.0035	0.0000	OK
60 minute winter	4	35	56.606	0.031	1.7	0.0050	0.0000	OK
60 minute winter	5	31	57.318	0.018	0.5	0.0048	0.0000	OK
60 minute winter	6	33	57.194	0.014	0.7	0.0032	0.0000	OK
60 minute winter	7	37	56.523	0.040	2.6	0.0079	0.0000	OK
60 minute winter	8	37	56.442	0.038	2.6	0.0061	0.0000	OK
60 minute winter	9	33	57.315	0.015	0.5	0.0036	0.0000	OK
60 minute winter	10	36	57.021	0.010	0.5	0.0016	0.0000	OK
60 minute winter	11	37	56.414	0.092	3.1	0.1050	0.0000	OK
60 minute winter	12	1	56.005	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 winter	1	1.000	2	1.0	0.514	0.056	0.0473	
60 minute winter	2	1.001	4	1.2	0.515	0.067	0.0313	
60 minute winter	3	2.000	4	0.5	0.460	0.019	0.0395	
60 minute winter	4	1.002	7	1.7	0.523	0.094	0.0294	
60 minute winter	5	3.000	6	0.5	0.496	0.028	0.0122	
60 minute winter	6	3.001	7	0.7	0.503	0.018	0.0334	
60 minute winter	7	1.003	8	2.6	0.698	0.144	0.0290	
60 minute winter	8	1.004	11	2.6	0.355	0.144	0.0607	
60 minute winter	9	4.000	10	0.5	0.718	0.018	0.0081	
60 minute winter	10	4.001	11	0.5	0.701	0.009	0.0406	
60 minute winter	11	Hydro-Brake®	12	3.1				4.4

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	64	56.972	0.022	0.8	0.0098	0.0000	OK
120 minute summer	2	64	56.732	0.024	1.0	0.0052	0.0000	OK
120 minute summer	3	64	57.063	0.013	0.4	0.0031	0.0000	OK
120 minute summer	4	64	56.603	0.028	1.4	0.0045	0.0000	OK
120 minute summer	5	66	57.316	0.016	0.4	0.0043	0.0000	OK
120 minute summer	6	64	57.193	0.013	0.6	0.0030	0.0000	OK
120 minute summer	7	64	56.520	0.037	2.2	0.0072	0.0000	OK
120 minute summer	8	64	56.439	0.035	2.2	0.0056	0.0000	OK
120 minute summer	9	64	57.313	0.013	0.4	0.0032	0.0000	OK
120 minute summer	10	64	57.020	0.009	0.4	0.0015	0.0000	OK
120 minute summer	11	64	56.401	0.079	2.6	0.0901	0.0000	OK
120 minute summer	12	2	56.005	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)
120 minute summer	1	1.000	2	0.8	0.477	0.045	0.0410	
120 minute summer	2	1.001	4	1.0	0.485	0.056	0.0273	
120 minute summer	3	2.000	4	0.4	0.277	0.015	0.0342	
120 minute summer	4	1.002	7	1.4	0.492	0.078	0.0258	
120 minute summer	5	3.000	6	0.4	0.471	0.023	0.0106	
120 minute summer	6	3.001	7	0.6	0.330	0.015	0.0297	
120 minute summer	7	1.003	8	2.2	0.668	0.122	0.0256	
120 minute summer	8	1.004	11	2.1	0.350	0.121	0.0511	
120 minute summer	9	4.000	10	0.4	0.671	0.014	0.0070	
120 minute summer	10	4.001	11	0.4	0.119	0.007	0.0339	
120 minute summer	11	Hydro-Brake®	12	2.5				4.5

Results for 1 year 120 minute winter. 360 minute analysis at 2 minute timestep. Mass balance: 98.89%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
120 minute winter	1	60	56.969	0.019	0.6	0.0086	0.0000	OK
120 minute winter	2	60	56.728	0.020	0.7	0.0043	0.0000	OK
120 minute winter	3	60	57.061	0.011	0.3	0.0027	0.0000	OK
120 minute winter	4	60	56.599	0.024	1.0	0.0038	0.0000	OK
120 minute winter	5	56	57.314	0.014	0.3	0.0038	0.0000	OK
120 minute winter	6	58	57.191	0.011	0.4	0.0025	0.0000	OK
120 minute winter	7	72	56.513	0.030	1.5	0.0059	0.0000	OK
120 minute winter	8	72	56.433	0.029	1.5	0.0047	0.0000	OK
120 minute winter	9	58	57.312	0.012	0.3	0.0028	0.0000	OK
120 minute winter	10	60	57.019	0.008	0.3	0.0013	0.0000	OK
120 minute winter	11	72	56.384	0.062	1.8	0.0708	0.0000	OK
120 minute winter	12	2	56.005	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)
120 minute winter	1	1.000	2	0.6	0.445	0.034	0.0327	
120 minute winter	2	1.001	4	0.7	0.433	0.039	0.0214	
120 minute winter	3	2.000	4	0.3	0.258	0.012	0.0273	
120 minute winter	4	1.002	7	1.0	0.457	0.056	0.0199	
120 minute winter	5	3.000	6	0.3	0.430	0.017	0.0084	
120 minute winter	6	3.001	7	0.4	0.424	0.010	0.0225	
120 minute winter	7	1.003	8	1.5	0.600	0.083	0.0195	
120 minute winter	8	1.004	11	1.5	0.329	0.083	0.0378	
120 minute winter	9	4.000	10	0.3	0.620	0.011	0.0057	
120 minute winter	10	4.001	11	0.3	0.745	0.005	0.0248	
120 minute winter	11	Hydro-Brake®	12	1.7				5.4

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	96	56.969	0.019	0.6	0.0086	0.0000	OK
180 minute summer	2	96	56.728	0.020	0.7	0.0043	0.0000	OK
180 minute summer	3	96	57.061	0.011	0.3	0.0027	0.0000	OK
180 minute summer	4	96	56.599	0.024	1.0	0.0038	0.0000	OK
180 minute summer	5	92	57.314	0.014	0.3	0.0038	0.0000	OK
180 minute summer	6	96	57.191	0.011	0.4	0.0025	0.0000	OK
180 minute summer	7	96	56.513	0.030	1.5	0.0059	0.0000	OK
180 minute summer	8	96	56.433	0.029	1.5	0.0046	0.0000	OK
180 minute summer	9	96	57.312	0.012	0.3	0.0028	0.0000	OK
180 minute summer	10	96	57.019	0.008	0.3	0.0013	0.0000	OK
180 minute summer	11	100	56.383	0.061	1.8	0.0701	0.0000	OK
180 minute summer	12	4	56.005	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)
180 minute summer	1	1.000	2	0.6	0.445	0.034	0.0327	
180 minute summer	2	1.001	4	0.7	0.432	0.039	0.0214	
180 minute summer	3	2.000	4	0.3	0.258	0.012	0.0272	
180 minute summer	4	1.002	7	1.0	0.457	0.055	0.0198	
180 minute summer	5	3.000	6	0.3	0.430	0.017	0.0084	
180 minute summer	6	3.001	7	0.4	0.293	0.010	0.0224	
180 minute summer	7	1.003	8	1.5	0.600	0.083	0.0194	
180 minute summer	8	1.004	11	1.5	0.328	0.082	0.0374	
180 minute summer	9	4.000	10	0.3	0.620	0.011	0.0057	
180 minute summer	10	4.001	11	0.3	0.111	0.005	0.0246	
180 minute summer	11	Hydro-Brake®	12	1.7				4.8

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	96	56.967	0.017	0.5	0.0079	0.0000	OK
180 minute winter	2	96	56.727	0.019	0.6	0.0040	0.0000	OK
180 minute winter	3	92	57.060	0.010	0.2	0.0023	0.0000	OK
180 minute winter	4	96	56.597	0.022	0.8	0.0034	0.0000	OK
180 minute winter	5	96	57.314	0.014	0.3	0.0037	0.0000	OK
180 minute winter	6	96	57.191	0.011	0.4	0.0024	0.0000	OK
180 minute winter	7	96	56.511	0.028	1.3	0.0055	0.0000	OK
180 minute winter	8	96	56.431	0.027	1.3	0.0043	0.0000	OK
180 minute winter	9	80	57.310	0.010	0.2	0.0023	0.0000	OK
180 minute winter	10	88	57.018	0.007	0.2	0.0011	0.0000	OK
180 minute winter	11	104	56.377	0.055	1.5	0.0630	0.0000	OK
180 minute winter	12	4	56.005	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)
180 minute winter	1	1.000	2	0.5	0.416	0.028	0.0291	
180 minute winter	2	1.001	4	0.6	0.423	0.034	0.0188	
180 minute winter	3	2.000	4	0.2	0.234	0.008	0.0228	
180 minute winter	4	1.002	7	0.8	0.421	0.045	0.0175	
180 minute winter	5	3.000	6	0.3	0.424	0.016	0.0082	
180 minute winter	6	3.001	7	0.4	0.287	0.010	0.0203	
180 minute winter	7	1.003	8	1.3	0.574	0.071	0.0174	
180 minute winter	8	1.004	11	1.3	0.323	0.070	0.0325	
180 minute winter	9	4.000	10	0.2	0.539	0.007	0.0043	
180 minute winter	10	4.001	11	0.2	0.112	0.004	0.0212	
180 minute winter	11	Hydro-Brake®	12	1.4				5.7

Results for 1 year 240 minute summer. 480 minute analysis at 4 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
240 minute summer	1	124	56.967	0.017	0.5	0.0079	0.0000	OK
240 minute summer	2	124	56.727	0.019	0.6	0.0040	0.0000	OK
240 minute summer	3	132	57.060	0.010	0.2	0.0023	0.0000	OK
240 minute summer	4	124	56.596	0.021	0.8	0.0034	0.0000	OK
240 minute summer	5	124	57.314	0.014	0.3	0.0038	0.0000	OK
240 minute summer	6	124	57.191	0.011	0.4	0.0025	0.0000	OK
240 minute summer	7	124	56.511	0.028	1.3	0.0055	0.0000	OK
240 minute summer	8	132	56.431	0.027	1.3	0.0043	0.0000	OK
240 minute summer	9	116	57.310	0.010	0.2	0.0023	0.0000	OK
240 minute summer	10	120	57.018	0.007	0.2	0.0011	0.0000	OK
240 minute summer	11	132	56.378	0.056	1.5	0.0637	0.0000	OK
240 minute summer	12	4	56.005	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)
240 minute summer	1	1.000	2	0.5	0.416	0.028	0.0291	
240 minute summer	2	1.001	4	0.6	0.424	0.034	0.0187	
240 minute summer	3	2.000	4	0.2	0.234	0.008	0.0226	
240 minute summer	4	1.002	7	0.8	0.415	0.044	0.0175	
240 minute summer	5	3.000	6	0.3	0.430	0.017	0.0084	
240 minute summer	6	3.001	7	0.4	0.300	0.010	0.0206	
240 minute summer	7	1.003	8	1.3	0.575	0.072	0.0175	
240 minute summer	8	1.004	11	1.3	0.325	0.072	0.0331	
240 minute summer	9	4.000	10	0.2	0.539	0.007	0.0043	
240 minute summer	10	4.001	11	0.2	0.112	0.004	0.0215	
240 minute summer	11	Hydro-Brake®	12	1.5				5.1

Results for 1 year 240 minute winter. 480 minute analysis at 4 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
240 minute winter	1	116	56.966	0.016	0.4	0.0071	0.0000	OK
240 minute winter	2	116	56.725	0.017	0.5	0.0037	0.0000	OK
240 minute winter	3	116	57.060	0.010	0.2	0.0023	0.0000	OK
240 minute winter	4	116	56.595	0.020	0.7	0.0032	0.0000	OK
240 minute winter	5	108	57.312	0.012	0.2	0.0031	0.0000	OK
240 minute winter	6	108	57.190	0.009	0.3	0.0022	0.0000	OK
240 minute winter	7	116	56.509	0.026	1.1	0.0050	0.0000	OK
240 minute winter	8	116	56.429	0.025	1.1	0.0039	0.0000	OK
240 minute winter	9	112	57.310	0.010	0.2	0.0023	0.0000	OK
240 minute winter	10	112	57.018	0.007	0.2	0.0011	0.0000	OK
240 minute winter	11	116	56.372	0.050	1.3	0.0578	0.0000	OK
240 minute winter	12	4	56.005	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)
240 minute winter	1	1.000	2	0.4	0.385	0.022	0.0251	
240 minute winter	2	1.001	4	0.5	0.392	0.028	0.0166	
240 minute winter	3	2.000	4	0.2	0.234	0.008	0.0208	
240 minute winter	4	1.002	7	0.7	0.402	0.038	0.0155	
240 minute winter	5	3.000	6	0.2	0.369	0.011	0.0065	
240 minute winter	6	3.001	7	0.3	0.285	0.008	0.0178	
240 minute winter	7	1.003	8	1.1	0.547	0.060	0.0154	
240 minute winter	8	1.004	11	1.1	0.306	0.059	0.0291	
240 minute winter	9	4.000	10	0.2	0.539	0.007	0.0043	
240 minute winter	10	4.001	11	0.2	0.112	0.004	0.0189	
240 minute winter	11	Hydro-Brake®	12	1.2				6.3

Results for 1 year 360 minute summer. 600 minute analysis at 8 minute timestep. Mass balance: 98.92%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
360 minute summer	1	184	56.966	0.016	0.4	0.0071	0.0000	OK
360 minute summer	2	184	56.725	0.017	0.5	0.0037	0.0000	OK
360 minute summer	3	184	57.059	0.009	0.2	0.0023	0.0000	OK
360 minute summer	4	184	56.595	0.020	0.7	0.0032	0.0000	OK
360 minute summer	5	176	57.312	0.012	0.2	0.0031	0.0000	OK
360 minute summer	6	176	57.190	0.009	0.3	0.0022	0.0000	OK
360 minute summer	7	184	56.509	0.026	1.1	0.0051	0.0000	OK
360 minute summer	8	184	56.429	0.025	1.1	0.0040	0.0000	OK
360 minute summer	9	184	57.310	0.010	0.2	0.0023	0.0000	OK
360 minute summer	10	184	57.018	0.007	0.2	0.0011	0.0000	OK
360 minute summer	11	184	56.372	0.050	1.3	0.0578	0.0000	OK
360 minute summer	12	8	56.005	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)
360 minute summer	1	1.000	2	0.4	0.384	0.022	0.0252	
360 minute summer	2	1.001	4	0.5	0.394	0.028	0.0167	
360 minute summer	3	2.000	4	0.2	0.223	0.008	0.0209	
360 minute summer	4	1.002	7	0.7	0.404	0.039	0.0156	
360 minute summer	5	3.000	6	0.2	0.369	0.011	0.0065	
360 minute summer	6	3.001	7	0.3	0.288	0.008	0.0179	
360 minute summer	7	1.003	8	1.1	0.548	0.060	0.0155	
360 minute summer	8	1.004	11	1.1	0.359	0.060	0.0291	
360 minute summer	9	4.000	10	0.2	0.540	0.007	0.0043	
360 minute summer	10	4.001	11	0.2	0.107	0.004	0.0189	
360 minute summer	11	Hydro-Brake®	12	1.2				5.4

Results for 1 year 360 minute winter. 600 minute analysis at 8 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
360 minute winter	1	176	56.964	0.014	0.3	0.0062	0.0000	OK
360 minute winter	2	208	56.724	0.016	0.4	0.0033	0.0000	OK
360 minute winter	3	128	57.057	0.007	0.1	0.0017	0.0000	OK
360 minute winter	4	208	56.592	0.017	0.5	0.0028	0.0000	OK
360 minute winter	5	184	57.311	0.011	0.2	0.0030	0.0000	OK
360 minute winter	6	184	57.189	0.009	0.3	0.0021	0.0000	OK
360 minute winter	7	200	56.506	0.023	0.9	0.0046	0.0000	OK
360 minute winter	8	200	56.427	0.023	0.9	0.0036	0.0000	OK
360 minute winter	9	120	57.307	0.007	0.1	0.0017	0.0000	OK
360 minute winter	10	120	57.016	0.005	0.1	0.0008	0.0000	OK
360 minute winter	11	200	56.366	0.044	1.0	0.0499	0.0000	OK
360 minute winter	12	8	56.005	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 winter	1	1.000	2	0.3	0.345	0.017	0.0212	
360 minute winter	2	1.001	4	0.4	0.385	0.023	0.0139	
360 minute winter	3	2.000	4	0.1	0.232	0.004	0.0159	
360 minute winter	4	1.002	7	0.5	0.365	0.028	0.0131	
360 minute winter	5	3.000	6	0.2	0.364	0.011	0.0063	
360 minute winter	6	3.001	7	0.3	0.276	0.007	0.0158	
360 minute winter	7	1.003	8	0.9	0.518	0.049	0.0134	
360 minute winter	8	1.004	11	0.9	0.359	0.049	0.0241	
360 minute winter	9	4.000	10	0.1	0.444	0.004	0.0026	
360 minute winter	10	4.001	11	0.1	0.145	0.002	0.0153	
360 minute winter	11	Hydro-Brake®	12	1.0				6.7

Results for 1 year 480 minute summer. 720 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
480 minute summer	1	248	56.964	0.014	0.3	0.0062	0.0000	OK
480 minute summer	2	248	56.724	0.016	0.4	0.0033	0.0000	OK
480 minute summer	3	248	57.059	0.009	0.2	0.0023	0.0000	OK
480 minute summer	4	248	56.594	0.019	0.6	0.0030	0.0000	OK
480 minute summer	5	240	57.312	0.012	0.2	0.0031	0.0000	OK
480 minute summer	6	240	57.190	0.009	0.3	0.0022	0.0000	OK
480 minute summer	7	248	56.508	0.025	1.0	0.0048	0.0000	OK
480 minute summer	8	248	56.428	0.024	1.0	0.0038	0.0000	OK
480 minute summer	9	248	57.310	0.010	0.2	0.0023	0.0000	OK
480 minute summer	10	248	57.018	0.007	0.2	0.0010	0.0000	OK
480 minute summer	11	248	56.370	0.048	1.2	0.0552	0.0000	OK
480 minute summer	12	8	56.005	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 summer	1	1.000	2	0.3	0.345	0.017	0.0212	
480 minute summer	2	1.001	4	0.4	0.378	0.023	0.0147	
480 minute summer	3	2.000	4	0.2	0.236	0.008	0.0192	
480 minute summer	4	1.002	7	0.6	0.376	0.033	0.0143	
480 minute summer	5	3.000	6	0.2	0.369	0.011	0.0065	
480 minute summer	6	3.001	7	0.3	0.288	0.008	0.0170	
480 minute summer	7	1.003	8	1.0	0.533	0.055	0.0145	
480 minute summer	8	1.004	11	1.0	0.359	0.055	0.0273	
480 minute summer	9	4.000	10	0.2	0.539	0.007	0.0042	
480 minute summer	10	4.001	11	0.2	0.145	0.003	0.0178	
480 minute summer	11	Hydro-Brake®	12	1.1				5.3

Results for 1 year 480 minute winter. 720 minute analysis at 8 minute timestep. Mass balance: 96.93%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
480 minute winter	1	192	56.961	0.011	0.2	0.0051	0.0000	OK
480 minute winter	2	192	56.719	0.011	0.2	0.0024	0.0000	OK
480 minute winter	3	192	57.057	0.007	0.1	0.0017	0.0000	OK
480 minute winter	4	192	56.589	0.014	0.3	0.0022	0.0000	OK
480 minute winter	5	160	57.309	0.009	0.1	0.0023	0.0000	OK
480 minute winter	6	160	57.186	0.006	0.1	0.0013	0.0000	OK
480 minute winter	7	192	56.499	0.016	0.4	0.0031	0.0000	OK
480 minute winter	8	192	56.419	0.015	0.4	0.0024	0.0000	OK
480 minute winter	9	168	57.307	0.007	0.1	0.0017	0.0000	OK
480 minute winter	10	168	57.016	0.005	0.1	0.0008	0.0000	OK
480 minute winter	11	312	56.352	0.030	0.5	0.0344	0.0000	OK
480 minute winter	12	8	56.005	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)
480 minute winter	1	1.000	2	0.2	0.336	0.011	0.0145	
480 minute winter	2	1.001	4	0.2	0.308	0.011	0.0091	
480 minute winter	3	2.000	4	0.1	0.232	0.004	0.0120	
480 minute winter	4	1.002	7	0.3	0.338	0.017	0.0081	
480 minute winter	5	3.000	6	0.1	0.332	0.006	0.0037	
480 minute winter	6	3.001	7	0.1	0.231	0.003	0.0087	
480 minute winter	7	1.003	8	0.4	0.409	0.022	0.0076	
480 minute winter	8	1.004	11	0.4	0.359	0.022	0.0140	
480 minute winter	9	4.000	10	0.1	0.444	0.004	0.0026	
480 minute winter	10	4.001	11	0.1	0.107	0.002	0.0092	
480 minute winter	11	Hydro-Brake®	12	0.5				5.5

Results for 1 year 600 minute summer. 840 minute analysis at 15 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
600 minute summer	1	315	56.964	0.014	0.3	0.0062	0.0000	OK
600 minute summer	2	315	56.724	0.016	0.4	0.0033	0.0000	OK
600 minute summer	3	270	57.057	0.007	0.1	0.0017	0.0000	OK
600 minute summer	4	315	56.592	0.017	0.5	0.0027	0.0000	OK
600 minute summer	5	255	57.309	0.009	0.1	0.0023	0.0000	OK
600 minute summer	6	315	57.188	0.008	0.2	0.0018	0.0000	OK
600 minute summer	7	315	56.505	0.022	0.8	0.0043	0.0000	OK
600 minute summer	8	315	56.425	0.021	0.8	0.0034	0.0000	OK
600 minute summer	9	270	57.307	0.007	0.1	0.0017	0.0000	OK
600 minute summer	10	270	57.016	0.005	0.1	0.0008	0.0000	OK
600 minute summer	11	315	56.363	0.041	0.9	0.0470	0.0000	OK
600 minute summer	12	15	56.005	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)
600 minute summer	1	1.000	2	0.3	0.344	0.017	0.0211	
600 minute summer	2	1.001	4	0.4	0.384	0.022	0.0137	
600 minute summer	3	2.000	4	0.1	0.227	0.004	0.0157	
600 minute summer	4	1.002	7	0.5	0.364	0.028	0.0124	
600 minute summer	5	3.000	6	0.1	0.327	0.006	0.0043	
600 minute summer	6	3.001	7	0.2	0.239	0.005	0.0141	
600 minute summer	7	1.003	8	0.8	0.501	0.044	0.0124	
600 minute summer	8	1.004	11	0.8	0.294	0.044	0.0222	
600 minute summer	9	4.000	10	0.1	0.444	0.004	0.0026	
600 minute summer	10	4.001	11	0.1	0.102	0.002	0.0141	
600 minute summer	11	Hydro-Brake®	12	0.9				5.0

Results for 1 year 600 minute winter. 840 minute analysis at 15 minute timestep. Mass balance: 97.34%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
600 minute winter	1	270	56.961	0.011	0.2	0.0051	0.0000	OK
600 minute winter	2	270	56.719	0.011	0.2	0.0024	0.0000	OK
600 minute winter	3	255	57.057	0.007	0.1	0.0017	0.0000	OK
600 minute winter	4	270	56.588	0.013	0.3	0.0021	0.0000	OK
600 minute winter	5	225	57.309	0.009	0.1	0.0023	0.0000	OK
600 minute winter	6	225	57.186	0.006	0.1	0.0013	0.0000	OK
600 minute winter	7	270	56.499	0.016	0.4	0.0031	0.0000	OK
600 minute winter	8	270	56.419	0.015	0.4	0.0024	0.0000	OK
600 minute winter	9	240	57.307	0.007	0.1	0.0017	0.0000	OK
600 minute winter	10	255	57.016	0.005	0.1	0.0008	0.0000	OK
600 minute winter	11	270	56.352	0.030	0.5	0.0342	0.0000	OK
600 minute winter	12	15	56.005	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	0.2	0.336	0.011	0.0144	
600 minute winter	2	1.001	4	0.2	0.290	0.011	0.0090	
600 minute winter	3	2.000	4	0.1	0.232	0.004	0.0119	
600 minute winter	4	1.002	7	0.3	0.336	0.016	0.0080	
600 minute winter	5	3.000	6	0.1	0.327	0.006	0.0037	
600 minute winter	6	3.001	7	0.1	0.239	0.003	0.0086	
600 minute winter	7	1.003	8	0.4	0.407	0.022	0.0075	
600 minute winter	8	1.004	11	0.4	0.232	0.022	0.0140	
600 minute winter	9	4.000	10	0.1	0.444	0.004	0.0026	
600 minute winter	10	4.001	11	0.1	0.104	0.002	0.0092	
600 minute winter	11	Hydro-Brake®	12	0.5				5.8

Results for 1 year 720 minute summer. 960 minute analysis at 15 minute timestep. Mass balance: 97.66%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
720 minute summer	1	345	56.961	0.011	0.2	0.0051	0.0000	OK
720 minute summer	2	345	56.719	0.011	0.2	0.0024	0.0000	OK
720 minute summer	3	330	57.057	0.007	0.1	0.0017	0.0000	OK
720 minute summer	4	345	56.588	0.013	0.3	0.0021	0.0000	OK
720 minute summer	5	315	57.309	0.009	0.1	0.0023	0.0000	OK
720 minute summer	6	330	57.186	0.006	0.1	0.0013	0.0000	OK
720 minute summer	7	345	56.499	0.016	0.4	0.0031	0.0000	OK
720 minute summer	8	345	56.419	0.015	0.4	0.0024	0.0000	OK
720 minute summer	9	315	57.307	0.007	0.1	0.0017	0.0000	OK
720 minute summer	10	330	57.016	0.005	0.1	0.0008	0.0000	OK
720 minute summer	11	345	56.352	0.030	0.5	0.0342	0.0000	OK
720 minute summer	12	15	56.005	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 summer	1	1.000	2	0.2	0.336	0.011	0.0144	
720 minute summer	2	1.001	4	0.2	0.290	0.011	0.0090	
720 minute summer	3	2.000	4	0.1	0.232	0.004	0.0119	
720 minute summer	4	1.002	7	0.3	0.336	0.016	0.0080	
720 minute summer	5	3.000	6	0.1	0.327	0.006	0.0037	
720 minute summer	6	3.001	7	0.1	0.210	0.003	0.0086	
720 minute summer	7	1.003	8	0.4	0.407	0.022	0.0075	
720 minute summer	8	1.004	11	0.4	0.232	0.022	0.0140	
720 minute summer	9	4.000	10	0.1	0.444	0.004	0.0026	
720 minute summer	10	4.001	11	0.1	0.110	0.002	0.0092	
720 minute summer	11	Hydro-Brake®	12	0.5				4.8

Results for 1 year 720 minute winter. 960 minute analysis at 15 minute timestep. Mass balance: 97.69%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
720 minute winter	1	330	56.961	0.011	0.2	0.0051	0.0000	OK
720 minute winter	2	330	56.719	0.011	0.2	0.0024	0.0000	OK
720 minute winter	3	315	57.057	0.007	0.1	0.0017	0.0000	OK
720 minute winter	4	330	56.588	0.013	0.3	0.0021	0.0000	OK
720 minute winter	5	270	57.309	0.009	0.1	0.0023	0.0000	OK
720 minute winter	6	270	57.186	0.006	0.1	0.0013	0.0000	OK
720 minute winter	7	330	56.499	0.016	0.4	0.0031	0.0000	OK
720 minute winter	8	330	56.419	0.015	0.4	0.0024	0.0000	OK
720 minute winter	9	285	57.307	0.007	0.1	0.0017	0.0000	OK
720 minute winter	10	315	57.016	0.005	0.1	0.0008	0.0000	OK
720 minute winter	11	330	56.352	0.030	0.5	0.0342	0.0000	OK
720 minute winter	12	15	56.005	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	0.2	0.336	0.011	0.0144	
720 minute winter	2	1.001	4	0.2	0.290	0.011	0.0090	
720 minute winter	3	2.000	4	0.1	0.232	0.004	0.0119	
720 minute winter	4	1.002	7	0.3	0.336	0.016	0.0080	
720 minute winter	5	3.000	6	0.1	0.327	0.006	0.0037	
720 minute winter	6	3.001	7	0.1	0.239	0.003	0.0086	
720 minute winter	7	1.003	8	0.4	0.407	0.022	0.0075	
720 minute winter	8	1.004	11	0.4	0.232	0.022	0.0140	
720 minute winter	9	4.000	10	0.1	0.444	0.004	0.0026	
720 minute winter	10	4.001	11	0.1	0.104	0.002	0.0092	
720 minute winter	11	Hydro-Brake®	12	0.5				6.7

Results for 1 year 960 minute summer. 1200 minute analysis at 15 minute timestep. Mass balance: 97.83%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
960 minute summer	1	465	56.961	0.011	0.2	0.0051	0.0000	OK
960 minute summer	2	465	56.719	0.011	0.2	0.0024	0.0000	OK
960 minute summer	3	450	57.057	0.007	0.1	0.0017	0.0000	OK
960 minute summer	4	465	56.588	0.013	0.3	0.0021	0.0000	OK
960 minute summer	5	420	57.309	0.009	0.1	0.0023	0.0000	OK
960 minute summer	6	420	57.186	0.006	0.1	0.0013	0.0000	OK
960 minute summer	7	465	56.499	0.016	0.4	0.0031	0.0000	OK
960 minute summer	8	465	56.419	0.015	0.4	0.0024	0.0000	OK
960 minute summer	9	435	57.307	0.007	0.1	0.0017	0.0000	OK
960 minute summer	10	450	57.016	0.005	0.1	0.0008	0.0000	OK
960 minute summer	11	465	56.352	0.030	0.5	0.0342	0.0000	OK
960 minute summer	12	15	56.005	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	0.2	0.336	0.011	0.0144	
960 minute summer	2	1.001	4	0.2	0.290	0.011	0.0090	
960 minute summer	3	2.000	4	0.1	0.232	0.004	0.0119	
960 minute summer	4	1.002	7	0.3	0.336	0.016	0.0080	
960 minute summer	5	3.000	6	0.1	0.327	0.006	0.0037	
960 minute summer	6	3.001	7	0.1	0.239	0.003	0.0086	
960 minute summer	7	1.003	8	0.4	0.407	0.022	0.0075	
960 minute summer	8	1.004	11	0.4	0.232	0.022	0.0140	
960 minute summer	9	4.000	10	0.1	0.444	0.004	0.0026	
960 minute summer	10	4.001	11	0.1	0.104	0.002	0.0092	
960 minute summer	11	Hydro-Brake®	12	0.5				5.1

Results for 1 year 960 minute winter. 1200 minute analysis at 15 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
960 minute winter	1	495	56.961	0.011	0.2	0.0051	0.0000	OK
960 minute winter	2	495	56.719	0.011	0.2	0.0024	0.0000	OK
960 minute winter	3	480	57.057	0.007	0.1	0.0017	0.0000	OK
960 minute winter	4	495	56.588	0.013	0.3	0.0021	0.0000	OK
960 minute winter	5	390	57.309	0.009	0.1	0.0023	0.0000	OK
960 minute winter	6	390	57.186	0.006	0.1	0.0013	0.0000	OK
960 minute winter	7	495	56.499	0.016	0.4	0.0031	0.0000	OK
960 minute winter	8	495	56.419	0.015	0.4	0.0024	0.0000	OK
960 minute winter	9	405	57.307	0.007	0.1	0.0017	0.0000	OK
960 minute winter	10	480	57.016	0.005	0.1	0.0008	0.0000	OK
960 minute winter	11	495	56.352	0.030	0.5	0.0342	0.0000	OK
960 minute winter	12	15	56.005	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	0.2	0.336	0.011	0.0144	
960 minute winter	2	1.001	4	0.2	0.290	0.011	0.0090	
960 minute winter	3	2.000	4	0.1	0.232	0.004	0.0119	
960 minute winter	4	1.002	7	0.3	0.336	0.016	0.0080	
960 minute winter	5	3.000	6	0.1	0.327	0.006	0.0037	
960 minute winter	6	3.001	7	0.1	0.239	0.003	0.0086	
960 minute winter	7	1.003	8	0.4	0.407	0.022	0.0075	
960 minute winter	8	1.004	11	0.4	0.232	0.022	0.0140	
960 minute winter	9	4.000	10	0.1	0.444	0.004	0.0026	
960 minute winter	10	4.001	11	0.1	0.104	0.002	0.0092	
960 minute winter	11	Hydro-Brake®	12	0.5				6.6

Results for 1 year 1440 minute summer. 1680 minute analysis at 30 minute timestep. Mass balance: 98.92%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
1440 minute summer	1	750	56.961	0.011	0.2	0.0051	0.0000	OK
1440 minute summer	2	750	56.719	0.011	0.2	0.0024	0.0000	OK
1440 minute summer	3	720	57.057	0.007	0.1	0.0017	0.0000	OK
1440 minute summer	4	750	56.588	0.013	0.3	0.0021	0.0000	OK
1440 minute summer	5	690	57.309	0.009	0.1	0.0023	0.0000	OK
1440 minute summer	6	690	57.186	0.006	0.1	0.0013	0.0000	OK
1440 minute summer	7	750	56.499	0.016	0.4	0.0031	0.0000	OK
1440 minute summer	8	750	56.419	0.015	0.4	0.0024	0.0000	OK
1440 minute summer	9	720	57.307	0.007	0.1	0.0017	0.0000	OK
1440 minute summer	10	720	57.016	0.005	0.1	0.0008	0.0000	OK
1440 minute summer	11	750	56.352	0.030	0.5	0.0342	0.0000	OK
1440 minute summer	12	30	56.005	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	0.2	0.335	0.011	0.0142	
1440 minute summer	2	1.001	4	0.2	0.286	0.011	0.0089	
1440 minute summer	3	2.000	4	0.1	0.230	0.004	0.0118	
1440 minute summer	4	1.002	7	0.3	0.333	0.016	0.0079	
1440 minute summer	5	3.000	6	0.1	0.327	0.006	0.0037	
1440 minute summer	6	3.001	7	0.1	0.246	0.003	0.0085	
1440 minute summer	7	1.003	8	0.4	0.405	0.022	0.0075	
1440 minute summer	8	1.004	11	0.4	0.230	0.021	0.0140	
1440 minute summer	9	4.000	10	0.1	0.444	0.004	0.0026	
1440 minute summer	10	4.001	11	0.1	0.101	0.002	0.0092	
1440 minute summer	11	Hydro-Brake®	12	0.5				5.0

Results for 1 year 1440 minute winter. 1680 minute analysis at 30 minute timestep. Mass balance: 98.05%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
1440 minute winter	1	690	56.958	0.008	0.1	0.0037	0.0000	OK
1440 minute winter	2	630	56.716	0.008	0.1	0.0018	0.0000	OK
1440 minute winter	3	720	57.057	0.007	0.1	0.0016	0.0000	OK
1440 minute winter	4	720	56.586	0.011	0.2	0.0018	0.0000	OK
1440 minute winter	5	660	57.309	0.009	0.1	0.0023	0.0000	OK
1440 minute winter	6	690	57.186	0.006	0.1	0.0013	0.0000	OK
1440 minute winter	7	720	56.497	0.014	0.3	0.0027	0.0000	OK
1440 minute winter	8	720	56.417	0.013	0.3	0.0021	0.0000	OK
1440 minute winter	9	720	57.307	0.007	0.1	0.0017	0.0000	OK
1440 minute winter	10	720	57.016	0.005	0.1	0.0008	0.0000	OK
1440 minute winter	11	720	56.348	0.026	0.4	0.0300	0.0000	OK
1440 minute winter	12	30	56.005	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	0.270	0.006	0.0090	
1440 minute winter	2	1.001	4	0.1	0.270	0.006	0.0063	
1440 minute winter	3	2.000	4	0.1	0.232	0.004	0.0098	
1440 minute winter	4	1.002	7	0.2	0.285	0.011	0.0063	
1440 minute winter	5	3.000	6	0.1	0.327	0.006	0.0037	
1440 minute winter	6	3.001	7	0.1	0.252	0.003	0.0073	
1440 minute winter	7	1.003	8	0.3	0.375	0.016	0.0062	
1440 minute winter	8	1.004	11	0.3	0.223	0.016	0.0116	
1440 minute winter	9	4.000	10	0.1	0.444	0.004	0.0026	
1440 minute winter	10	4.001	11	0.1	0.103	0.002	0.0077	
1440 minute winter	11	Hydro-Brake®	12	0.4				5.7

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	56.986	0.036	2.3	0.0164	0.0000	OK
15 minute summer	2	10	56.748	0.040	2.8	0.0085	0.0000	OK
15 minute summer	3	10	57.071	0.021	1.1	0.0050	0.0000	OK
15 minute summer	4	11	56.624	0.049	3.7	0.0077	0.0000	OK
15 minute summer	5	10	57.327	0.027	1.2	0.0073	0.0000	OK
15 minute summer	6	10	57.201	0.021	1.7	0.0048	0.0000	OK
15 minute summer	7	13	56.551	0.068	5.7	0.0133	0.0000	OK
15 minute summer	8	13	56.547	0.143	6.0	0.0228	0.0000	OK
15 minute summer	9	10	57.322	0.022	1.1	0.0052	0.0000	OK
15 minute summer	10	10	57.025	0.014	1.1	0.0023	0.0000	OK
15 minute summer	11	13	56.540	0.218	6.1	0.2505	0.0000	SURCHARGED
15 minute summer	12	1	56.005	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)
15 minute summer	1	1.000	2	2.3	0.650	0.128	0.0847	
15 minute summer	2	1.001	4	2.7	0.636	0.152	0.0573	
15 minute summer	3	2.000	4	1.1	0.485	0.041	0.0717	
15 minute summer	4	1.002	7	3.7	0.655	0.211	0.0544	
15 minute summer	5	3.000	6	1.2	0.638	0.066	0.0221	
15 minute summer	6	3.001	7	1.6	0.509	0.041	0.0644	
15 minute summer	7	1.003	8	6.0	0.846	0.335	0.0991	
15 minute summer	8	1.004	11	4.8	0.437	0.272	0.1431	
15 minute summer	9	4.000	10	1.1	0.904	0.038	0.0139	
15 minute summer	10	4.001	11	1.1	0.794	0.019	0.0640	
15 minute summer	11	Hydro-Brake®	12	4.7				3.0

Results for 2 year 15 minute winter. 1455 minute analysis at 1 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	1	10	56.987	0.037	2.4	0.0167	0.0000	OK
15 minute winter	2	11	56.748	0.040	2.8	0.0086	0.0000	OK
15 minute winter	3	10	57.071	0.021	1.1	0.0050	0.0000	OK
15 minute winter	4	11	56.624	0.049	3.8	0.0078	0.0000	OK
15 minute winter	5	10	57.329	0.029	1.3	0.0076	0.0000	OK
15 minute winter	6	10	57.202	0.022	1.8	0.0049	0.0000	OK
15 minute winter	7	14	56.566	0.083	5.9	0.0164	0.0000	OK
15 minute winter	8	14	56.563	0.159	6.2	0.0253	0.0000	SURCHARGED
15 minute winter	9	10	57.322	0.022	1.1	0.0052	0.0000	OK
15 minute winter	10	10	57.025	0.014	1.1	0.0023	0.0000	OK
15 minute winter	11	14	56.557	0.235	6.0	0.2695	0.0000	SURCHARGED
15 minute winter	12	1	56.005	0.000	4.8	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute winter	1	1.000	2	2.3	0.657	0.132	0.0861	
15 minute winter	2	1.001	4	2.8	0.636	0.156	0.0581	
15 minute winter	3	2.000	4	1.1	0.454	0.041	0.0724	
15 minute winter	4	1.002	7	3.8	0.649	0.214	0.0638	
15 minute winter	5	3.000	6	1.3	0.657	0.072	0.0234	
15 minute winter	6	3.001	7	1.7	0.438	0.044	0.0802	
15 minute winter	7	1.003	8	6.2	0.814	0.351	0.1093	
15 minute winter	8	1.004	11	4.8	0.428	0.272	0.1443	
15 minute winter	9	4.000	10	1.1	0.904	0.038	0.0139	
15 minute winter	10	4.001	11	1.1	0.803	0.019	0.0640	
15 minute winter	11	Hydro-Brake®	12	4.8				3.4

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	18	56.984	0.034	2.0	0.0154	0.0000	OK
30 minute summer	2	18	56.745	0.037	2.4	0.0080	0.0000	OK
30 minute summer	3	19	57.069	0.019	0.9	0.0046	0.0000	OK
30 minute summer	4	19	56.620	0.045	3.3	0.0072	0.0000	OK
30 minute summer	5	18	57.327	0.027	1.1	0.0071	0.0000	OK
30 minute summer	6	18	57.200	0.020	1.5	0.0046	0.0000	OK
30 minute summer	7	18	56.541	0.058	5.1	0.0115	0.0000	OK
30 minute summer	8	21	56.537	0.133	5.3	0.0212	0.0000	OK
30 minute summer	9	17	57.320	0.020	0.9	0.0047	0.0000	OK
30 minute summer	10	18	57.024	0.013	0.9	0.0021	0.0000	OK
30 minute summer	11	21	56.534	0.212	5.5	0.2426	0.0000	SURCHARGED
30 minute summer	12	1	56.005	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)
30 minute summer	1	1.000	2	2.0	0.627	0.113	0.0774	
30 minute summer	2	1.001	4	2.4	0.614	0.135	0.0518	
30 minute summer	3	2.000	4	0.9	0.460	0.035	0.0647	
30 minute summer	4	1.002	7	3.3	0.636	0.185	0.0493	
30 minute summer	5	3.000	6	1.1	0.631	0.062	0.0211	
30 minute summer	6	3.001	7	1.5	0.563	0.038	0.0565	
30 minute summer	7	1.003	8	5.3	0.818	0.301	0.0863	
30 minute summer	8	1.004	11	4.5	0.408	0.255	0.1398	
30 minute summer	9	4.000	10	0.9	0.858	0.032	0.0123	
30 minute summer	10	4.001	11	0.9	0.696	0.016	0.0637	
30 minute summer	11	Hydro-Brake®	12	4.7				4.1

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	56.982	0.032	1.8	0.0146	0.0000	OK
30 minute winter	2	18	56.744	0.036	2.2	0.0076	0.0000	OK
30 minute winter	3	18	57.069	0.019	0.9	0.0046	0.0000	OK
30 minute winter	4	18	56.618	0.043	3.1	0.0068	0.0000	OK
30 minute winter	5	18	57.325	0.025	1.0	0.0067	0.0000	OK
30 minute winter	6	18	57.199	0.019	1.4	0.0044	0.0000	OK
30 minute winter	7	18	56.539	0.056	4.8	0.0111	0.0000	OK
30 minute winter	8	22	56.519	0.115	4.9	0.0182	0.0000	OK
30 minute winter	9	18	57.320	0.020	0.9	0.0047	0.0000	OK
30 minute winter	10	18	57.024	0.013	0.9	0.0021	0.0000	OK
30 minute winter	11	22	56.515	0.193	5.1	0.2215	0.0000	SURCHARGED
30 minute winter	12	1	56.005	0.000	4.6	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	1.8	0.608	0.101	0.0721	
30 minute winter	2	1.001	4	2.2	0.596	0.123	0.0488	
30 minute winter	3	2.000	4	0.9	0.459	0.035	0.0616	
30 minute winter	4	1.002	7	3.0	0.619	0.170	0.0468	
30 minute winter	5	3.000	6	1.0	0.609	0.056	0.0198	
30 minute winter	6	3.001	7	1.4	0.511	0.036	0.0537	
30 minute winter	7	1.003	8	4.9	0.803	0.276	0.0760	
30 minute winter	8	1.004	11	4.1	0.402	0.233	0.1314	
30 minute winter	9	4.000	10	0.9	0.858	0.032	0.0123	
30 minute winter	10	4.001	11	0.9	0.747	0.016	0.0637	
30 minute winter	11	Hydro-Brake®	12	4.6				4.5

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	34	56.979	0.029	1.5	0.0133	0.0000	OK
60 minute summer	2	34	56.740	0.032	1.8	0.0069	0.0000	OK
60 minute summer	3	34	57.067	0.017	0.7	0.0041	0.0000	OK
60 minute summer	4	34	56.614	0.039	2.5	0.0061	0.0000	OK
60 minute summer	5	33	57.323	0.023	0.8	0.0061	0.0000	OK
60 minute summer	6	34	57.197	0.017	1.1	0.0040	0.0000	OK
60 minute summer	7	35	56.533	0.050	3.9	0.0099	0.0000	OK
60 minute summer	8	36	56.464	0.060	3.9	0.0095	0.0000	OK
60 minute summer	9	32	57.318	0.018	0.7	0.0042	0.0000	OK
60 minute summer	10	33	57.023	0.012	0.7	0.0019	0.0000	OK
60 minute summer	11	36	56.464	0.142	4.6	0.1634	0.0000	OK
60 minute summer	12	1	56.005	0.000	4.3	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
60 minute summer	1	1.000	2	1.5	0.579	0.084	0.0630	
60 minute summer	2	1.001	4	1.8	0.572	0.101	0.0421	
60 minute summer	3	2.000	4	0.7	0.435	0.027	0.0528	
60 minute summer	4	1.002	7	2.5	0.572	0.141	0.0401	
60 minute summer	5	3.000	6	0.8	0.573	0.045	0.0169	
60 minute summer	6	3.001	7	1.1	0.455	0.028	0.0459	
60 minute summer	7	1.003	8	3.9	0.779	0.219	0.0453	
60 minute summer	8	1.004	11	3.8	0.382	0.215	0.0976	
60 minute summer	9	4.000	10	0.7	0.794	0.025	0.0103	
60 minute summer	10	4.001	11	0.7	0.701	0.012	0.0619	
60 minute summer	11	Hydro-Brake®	12	4.3				5.0

Results for 2 year 60 minute winter. 1500 minute analysis at 1 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute winter	1	33	56.976	0.026	1.2	0.0120	0.0000	OK
60 minute winter	2	35	56.736	0.028	1.4	0.0061	0.0000	OK
60 minute winter	3	35	57.066	0.016	0.6	0.0038	0.0000	OK
60 minute winter	4	35	56.609	0.034	2.0	0.0054	0.0000	OK
60 minute winter	5	33	57.321	0.021	0.7	0.0057	0.0000	OK
60 minute winter	6	35	57.196	0.016	0.9	0.0036	0.0000	OK
60 minute winter	7	36	56.527	0.044	3.1	0.0087	0.0000	OK
60 minute winter	8	36	56.446	0.042	3.1	0.0067	0.0000	OK
60 minute winter	9	32	57.316	0.016	0.6	0.0039	0.0000	OK
60 minute winter	10	33	57.022	0.011	0.6	0.0018	0.0000	OK
60 minute winter	11	37	56.431	0.109	3.8	0.1249	0.0000	OK
60 minute winter	12	1	56.005	0.000	3.7	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	1.2	0.548	0.068	0.0533	
60 minute winter	2	1.001	4	1.4	0.534	0.079	0.0354	
60 minute winter	3	2.000	4	0.6	0.435	0.023	0.0451	
60 minute winter	4	1.002	7	2.0	0.543	0.112	0.0338	
60 minute winter	5	3.000	6	0.7	0.560	0.039	0.0151	
60 minute winter	6	3.001	7	0.9	0.556	0.023	0.0388	
60 minute winter	7	1.003	8	3.1	0.735	0.174	0.0332	
60 minute winter	8	1.004	11	3.1	0.360	0.174	0.0728	
60 minute winter	9	4.000	10	0.6	0.759	0.021	0.0093	
60 minute winter	10	4.001	11	0.6	0.701	0.011	0.0494	
60 minute winter	11	Hydro-Brake®	12	3.7				5.5

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	64	56.974	0.024	1.0	0.0109	0.0000	OK
120 minute summer	2	64	56.734	0.026	1.2	0.0056	0.0000	OK
120 minute summer	3	64	57.065	0.015	0.5	0.0035	0.0000	OK
120 minute summer	4	64	56.606	0.031	1.7	0.0050	0.0000	OK
120 minute summer	5	62	57.318	0.018	0.5	0.0048	0.0000	OK
120 minute summer	6	66	57.194	0.014	0.7	0.0032	0.0000	OK
120 minute summer	7	64	56.523	0.040	2.6	0.0079	0.0000	OK
120 minute summer	8	64	56.442	0.038	2.6	0.0061	0.0000	OK
120 minute summer	9	66	57.315	0.015	0.5	0.0036	0.0000	OK
120 minute summer	10	64	57.021	0.010	0.5	0.0016	0.0000	OK
120 minute summer	11	68	56.413	0.091	3.1	0.1044	0.0000	OK
120 minute summer	12	2	56.005	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)
120 minute summer	1	1.000	2	1.0	0.512	0.056	0.0473	
120 minute summer	2	1.001	4	1.2	0.506	0.067	0.0314	
120 minute summer	3	2.000	4	0.5	0.295	0.019	0.0397	
120 minute summer	4	1.002	7	1.7	0.523	0.094	0.0295	
120 minute summer	5	3.000	6	0.5	0.496	0.028	0.0122	
120 minute summer	6	3.001	7	0.7	0.426	0.018	0.0335	
120 minute summer	7	1.003	8	2.6	0.699	0.144	0.0289	
120 minute summer	8	1.004	11	2.5	0.412	0.143	0.0603	
120 minute summer	9	4.000	10	0.5	0.717	0.018	0.0081	
120 minute summer	10	4.001	11	0.5	0.118	0.009	0.0405	
120 minute summer	11	Hydro-Brake®	12	3.1				6.1

Results for 2 year 120 minute winter. 1560 minute analysis at 2 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
120 minute winter	1	64	56.972	0.022	0.8	0.0098	0.0000	OK
120 minute winter	2	64	56.732	0.024	1.0	0.0052	0.0000	OK
120 minute winter	3	64	57.063	0.013	0.4	0.0031	0.0000	OK
120 minute winter	4	64	56.603	0.028	1.4	0.0045	0.0000	OK
120 minute winter	5	70	57.316	0.016	0.4	0.0044	0.0000	OK
120 minute winter	6	62	57.193	0.013	0.6	0.0030	0.0000	OK
120 minute winter	7	64	56.520	0.037	2.2	0.0073	0.0000	OK
120 minute winter	8	64	56.439	0.035	2.2	0.0056	0.0000	OK
120 minute winter	9	62	57.313	0.013	0.4	0.0032	0.0000	OK
120 minute winter	10	64	57.020	0.009	0.4	0.0015	0.0000	OK
120 minute winter	11	64	56.402	0.080	2.7	0.0913	0.0000	OK
120 minute winter	12	2	56.005	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)
120 minute winter	1	1.000	2	0.8	0.476	0.045	0.0411	
120 minute winter	2	1.001	4	1.0	0.485	0.056	0.0274	
120 minute winter	3	2.000	4	0.4	0.276	0.015	0.0343	
120 minute winter	4	1.002	7	1.4	0.493	0.078	0.0259	
120 minute winter	5	3.000	6	0.4	0.476	0.023	0.0106	
120 minute winter	6	3.001	7	0.6	0.346	0.015	0.0298	
120 minute winter	7	1.003	8	2.2	0.668	0.122	0.0257	
120 minute winter	8	1.004	11	2.2	0.349	0.122	0.0518	
120 minute winter	9	4.000	10	0.4	0.671	0.014	0.0070	
120 minute winter	10	4.001	11	0.4	0.772	0.007	0.0344	
120 minute winter	11	Hydro-Brake®	12	2.6				6.8

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	96	56.972	0.022	0.8	0.0098	0.0000	OK
180 minute summer	2	96	56.732	0.024	1.0	0.0052	0.0000	OK
180 minute summer	3	96	57.063	0.013	0.4	0.0031	0.0000	OK
180 minute summer	4	96	56.603	0.028	1.4	0.0045	0.0000	OK
180 minute summer	5	96	57.316	0.016	0.4	0.0043	0.0000	OK
180 minute summer	6	96	57.193	0.013	0.6	0.0030	0.0000	OK
180 minute summer	7	96	56.520	0.037	2.2	0.0073	0.0000	OK
180 minute summer	8	96	56.439	0.035	2.2	0.0056	0.0000	OK
180 minute summer	9	96	57.313	0.013	0.4	0.0032	0.0000	OK
180 minute summer	10	96	57.020	0.009	0.4	0.0015	0.0000	OK
180 minute summer	11	96	56.401	0.079	2.7	0.0911	0.0000	OK
180 minute summer	12	4	56.005	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)
180 minute summer	1	1.000	2	0.8	0.474	0.045	0.0410	
180 minute summer	2	1.001	4	1.0	0.485	0.056	0.0274	
180 minute summer	3	2.000	4	0.4	0.275	0.015	0.0343	
180 minute summer	4	1.002	7	1.4	0.493	0.078	0.0259	
180 minute summer	5	3.000	6	0.4	0.455	0.023	0.0106	
180 minute summer	6	3.001	7	0.6	0.313	0.015	0.0298	
180 minute summer	7	1.003	8	2.2	0.668	0.122	0.0257	
180 minute summer	8	1.004	11	2.2	0.348	0.121	0.0517	
180 minute summer	9	4.000	10	0.4	0.671	0.014	0.0070	
180 minute summer	10	4.001	11	0.4	0.111	0.007	0.0344	
180 minute summer	11	Hydro-Brake®	12	2.6				6.4

Results for 2 year 180 minute winter. 1620 minute analysis at 4 minute timestep. Mass balance: 99.17%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
180 minute winter	1	92	56.969	0.019	0.6	0.0086	0.0000	OK
180 minute winter	2	92	56.728	0.020	0.7	0.0043	0.0000	OK
180 minute winter	3	92	57.061	0.011	0.3	0.0027	0.0000	OK
180 minute winter	4	92	56.599	0.024	1.0	0.0038	0.0000	OK
180 minute winter	5	88	57.314	0.014	0.3	0.0038	0.0000	OK
180 minute winter	6	88	57.191	0.011	0.4	0.0025	0.0000	OK
180 minute winter	7	92	56.513	0.030	1.5	0.0059	0.0000	OK
180 minute winter	8	92	56.433	0.029	1.5	0.0046	0.0000	OK
180 minute winter	9	92	57.312	0.012	0.3	0.0028	0.0000	OK
180 minute winter	10	92	57.019	0.008	0.3	0.0013	0.0000	OK
180 minute winter	11	104	56.383	0.061	1.8	0.0701	0.0000	OK
180 minute winter	12	4	56.005	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)
180 minute winter	1	1.000	2	0.6	0.445	0.034	0.0327	
180 minute winter	2	1.001	4	0.7	0.432	0.039	0.0214	
180 minute winter	3	2.000	4	0.3	0.258	0.012	0.0272	
180 minute winter	4	1.002	7	1.0	0.457	0.055	0.0198	
180 minute winter	5	3.000	6	0.3	0.430	0.017	0.0084	
180 minute winter	6	3.001	7	0.4	0.300	0.010	0.0224	
180 minute winter	7	1.003	8	1.5	0.600	0.083	0.0194	
180 minute winter	8	1.004	11	1.5	0.328	0.082	0.0374	
180 minute winter	9	4.000	10	0.3	0.620	0.011	0.0057	
180 minute winter	10	4.001	11	0.3	0.111	0.005	0.0246	
180 minute winter	11	Hydro-Brake®	12	1.7				7.4

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	128	56.970	0.020	0.7	0.0092	0.0000	OK
240 minute summer	2	128	56.729	0.021	0.8	0.0046	0.0000	OK
240 minute summer	3	128	57.061	0.011	0.3	0.0027	0.0000	OK
240 minute summer	4	128	56.600	0.025	1.1	0.0040	0.0000	OK
240 minute summer	5	128	57.316	0.016	0.4	0.0043	0.0000	OK
240 minute summer	6	128	57.192	0.012	0.5	0.0027	0.0000	OK
240 minute summer	7	128	56.515	0.032	1.7	0.0063	0.0000	OK
240 minute summer	8	128	56.435	0.031	1.6	0.0049	0.0000	OK
240 minute summer	9	124	57.312	0.012	0.3	0.0028	0.0000	OK
240 minute summer	10	124	57.019	0.008	0.3	0.0013	0.0000	OK
240 minute summer	11	128	56.387	0.065	1.9	0.0741	0.0000	OK
240 minute summer	12	4	56.005	0.000	1.9	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)
240 minute summer	1	1.000	2	0.7	0.469	0.039	0.0358	
240 minute summer	2	1.001	4	0.8	0.454	0.044	0.0229	
240 minute summer	3	2.000	4	0.3	0.256	0.012	0.0284	
240 minute summer	4	1.002	7	1.1	0.463	0.060	0.0213	
240 minute summer	5	3.000	6	0.4	0.473	0.022	0.0100	
240 minute summer	6	3.001	7	0.5	0.309	0.012	0.0245	
240 minute summer	7	1.003	8	1.6	0.618	0.092	0.0209	
240 minute summer	8	1.004	11	1.6	0.338	0.091	0.0403	
240 minute summer	9	4.000	10	0.3	0.619	0.011	0.0057	
240 minute summer	10	4.001	11	0.3	0.111	0.005	0.0264	
240 minute summer	11	Hydro-Brake®	12	1.9				6.6

Results for 2 year 240 minute winter. 1680 minute analysis at 4 minute timestep. Mass balance: 99.49%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
240 minute winter	1	124	56.967	0.017	0.5	0.0079	0.0000	OK
240 minute winter	2	124	56.727	0.019	0.6	0.0040	0.0000	OK
240 minute winter	3	116	57.060	0.010	0.2	0.0023	0.0000	OK
240 minute winter	4	124	56.597	0.022	0.8	0.0034	0.0000	OK
240 minute winter	5	124	57.314	0.014	0.3	0.0037	0.0000	OK
240 minute winter	6	124	57.191	0.011	0.4	0.0024	0.0000	OK
240 minute winter	7	124	56.511	0.028	1.3	0.0055	0.0000	OK
240 minute winter	8	124	56.431	0.027	1.3	0.0043	0.0000	OK
240 minute winter	9	100	57.310	0.010	0.2	0.0023	0.0000	OK
240 minute winter	10	100	57.018	0.007	0.2	0.0011	0.0000	OK
240 minute winter	11	136	56.377	0.055	1.5	0.0630	0.0000	OK
240 minute winter	12	4	56.005	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 winter	1	1.000	2	0.5	0.416	0.028	0.0291	
240 minute winter	2	1.001	4	0.6	0.423	0.034	0.0188	
240 minute winter	3	2.000	4	0.2	0.234	0.008	0.0228	
240 minute winter	4	1.002	7	0.8	0.421	0.045	0.0175	
240 minute winter	5	3.000	6	0.3	0.424	0.016	0.0082	
240 minute winter	6	3.001	7	0.4	0.287	0.010	0.0203	
240 minute winter	7	1.003	8	1.3	0.574	0.071	0.0174	
240 minute winter	8	1.004	11	1.3	0.323	0.070	0.0325	
240 minute winter	9	4.000	10	0.2	0.539	0.007	0.0043	
240 minute winter	10	4.001	11	0.2	0.111	0.004	0.0212	
240 minute winter	11	Hydro-Brake®	12	1.4				7.9

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	56.967	0.017	0.5	0.0078	0.0000	OK
360 minute summer	2	184	56.727	0.019	0.6	0.0040	0.0000	OK
360 minute summer	3	184	57.060	0.010	0.2	0.0023	0.0000	OK
360 minute summer	4	184	56.596	0.021	0.8	0.0034	0.0000	OK
360 minute summer	5	184	57.314	0.014	0.3	0.0038	0.0000	OK
360 minute summer	6	184	57.191	0.011	0.4	0.0024	0.0000	OK
360 minute summer	7	184	56.511	0.028	1.3	0.0055	0.0000	OK
360 minute summer	8	184	56.431	0.027	1.2	0.0043	0.0000	OK
360 minute summer	9	184	57.310	0.010	0.2	0.0023	0.0000	OK
360 minute summer	10	184	57.018	0.007	0.2	0.0011	0.0000	OK
360 minute summer	11	192	56.377	0.055	1.4	0.0630	0.0000	OK
360 minute summer	12	8	56.005	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)
360 minute summer	1	1.000	2	0.5	0.415	0.028	0.0287	
360 minute summer	2	1.001	4	0.6	0.420	0.033	0.0185	
360 minute summer	3	2.000	4	0.2	0.232	0.008	0.0224	
360 minute summer	4	1.002	7	0.8	0.414	0.044	0.0173	
360 minute summer	5	3.000	6	0.3	0.427	0.016	0.0083	
360 minute summer	6	3.001	7	0.4	0.295	0.010	0.0203	
360 minute summer	7	1.003	8	1.2	0.572	0.070	0.0173	
360 minute summer	8	1.004	11	1.2	0.359	0.070	0.0325	
360 minute summer	9	4.000	10	0.2	0.540	0.007	0.0043	
360 minute summer	10	4.001	11	0.2	0.107	0.004	0.0212	
360 minute summer	11	Hydro-Brake®	12	1.4				6.9

Results for 2 year 360 minute winter. 1800 minute analysis at 8 minute timestep. Mass balance: 99.13%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
360 minute winter	1	176	56.965	0.015	0.4	0.0070	0.0000	OK
360 minute winter	2	176	56.725	0.017	0.5	0.0036	0.0000	OK
360 minute winter	3	176	57.060	0.010	0.2	0.0023	0.0000	OK
360 minute winter	4	176	56.595	0.020	0.7	0.0032	0.0000	OK
360 minute winter	5	168	57.312	0.012	0.2	0.0031	0.0000	OK
360 minute winter	6	168	57.190	0.009	0.3	0.0022	0.0000	OK
360 minute winter	7	176	56.508	0.025	1.1	0.0050	0.0000	OK
360 minute winter	8	176	56.429	0.025	1.1	0.0039	0.0000	OK
360 minute winter	9	176	57.310	0.010	0.2	0.0023	0.0000	OK
360 minute winter	10	176	57.018	0.007	0.2	0.0011	0.0000	OK
360 minute winter	11	176	56.372	0.050	1.2	0.0578	0.0000	OK
360 minute winter	12	8	56.005	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)
360 minute winter	1	1.000	2	0.4	0.382	0.022	0.0247	
360 minute winter	2	1.001	4	0.5	0.387	0.027	0.0163	
360 minute winter	3	2.000	4	0.2	0.233	0.008	0.0206	
360 minute winter	4	1.002	7	0.7	0.398	0.037	0.0154	
360 minute winter	5	3.000	6	0.2	0.369	0.011	0.0065	
360 minute winter	6	3.001	7	0.3	0.284	0.008	0.0177	
360 minute winter	7	1.003	8	1.1	0.545	0.059	0.0153	
360 minute winter	8	1.004	11	1.0	0.359	0.059	0.0290	
360 minute winter	9	4.000	10	0.2	0.539	0.007	0.0043	
360 minute winter	10	4.001	11	0.2	0.107	0.004	0.0189	
360 minute winter	11	Hydro-Brake®	12	1.2				9.0

Results for 2 year 480 minute summer. 1920 minute analysis at 8 minute timestep. Mass balance: 99.36%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
480 minute summer	1	240	56.965	0.015	0.4	0.0070	0.0000	OK
480 minute summer	2	240	56.725	0.017	0.5	0.0036	0.0000	OK
480 minute summer	3	240	57.060	0.010	0.2	0.0023	0.0000	OK
480 minute summer	4	240	56.595	0.020	0.7	0.0032	0.0000	OK
480 minute summer	5	232	57.312	0.012	0.2	0.0031	0.0000	OK
480 minute summer	6	232	57.190	0.009	0.3	0.0022	0.0000	OK
480 minute summer	7	240	56.508	0.025	1.1	0.0050	0.0000	OK
480 minute summer	8	240	56.429	0.025	1.1	0.0039	0.0000	OK
480 minute summer	9	240	57.310	0.010	0.2	0.0023	0.0000	OK
480 minute summer	10	240	57.018	0.007	0.2	0.0011	0.0000	OK
480 minute summer	11	240	56.372	0.050	1.2	0.0578	0.0000	OK
480 minute summer	12	8	56.005	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)
480 minute summer	1	1.000	2	0.4	0.382	0.022	0.0247	
480 minute summer	2	1.001	4	0.5	0.387	0.027	0.0163	
480 minute summer	3	2.000	4	0.2	0.233	0.008	0.0206	
480 minute summer	4	1.002	7	0.7	0.398	0.037	0.0154	
480 minute summer	5	3.000	6	0.2	0.369	0.011	0.0065	
480 minute summer	6	3.001	7	0.3	0.282	0.008	0.0177	
480 minute summer	7	1.003	8	1.1	0.545	0.059	0.0153	
480 minute summer	8	1.004	11	1.0	0.359	0.059	0.0290	
480 minute summer	9	4.000	10	0.2	0.539	0.007	0.0043	
480 minute summer	10	4.001	11	0.2	0.107	0.004	0.0189	
480 minute summer	11	Hydro-Brake®	12	1.2				7.2

Results for 2 year 480 minute winter. 1920 minute analysis at 8 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
480 minute winter	1	232	56.964	0.014	0.3	0.0062	0.0000	OK
480 minute winter	2	272	56.724	0.016	0.4	0.0033	0.0000	OK
480 minute winter	3	184	57.057	0.007	0.1	0.0017	0.0000	OK
480 minute winter	4	272	56.592	0.017	0.5	0.0028	0.0000	OK
480 minute winter	5	240	57.311	0.011	0.2	0.0030	0.0000	OK
480 minute winter	6	240	57.189	0.009	0.3	0.0021	0.0000	OK
480 minute winter	7	264	56.506	0.023	0.9	0.0046	0.0000	OK
480 minute winter	8	264	56.427	0.023	0.9	0.0036	0.0000	OK
480 minute winter	9	160	57.307	0.007	0.1	0.0017	0.0000	OK
480 minute winter	10	160	57.016	0.005	0.1	0.0008	0.0000	OK
480 minute winter	11	264	56.366	0.044	1.0	0.0499	0.0000	OK
480 minute winter	12	8	56.005	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 winter	1	1.000	2	0.3	0.345	0.017	0.0212	
480 minute winter	2	1.001	4	0.4	0.385	0.023	0.0139	
480 minute winter	3	2.000	4	0.1	0.232	0.004	0.0159	
480 minute winter	4	1.002	7	0.5	0.365	0.028	0.0131	
480 minute winter	5	3.000	6	0.2	0.364	0.011	0.0063	
480 minute winter	6	3.001	7	0.3	0.276	0.007	0.0158	
480 minute winter	7	1.003	8	0.9	0.518	0.049	0.0134	
480 minute winter	8	1.004	11	0.9	0.359	0.049	0.0241	
480 minute winter	9	4.000	10	0.1	0.444	0.004	0.0026	
480 minute winter	10	4.001	11	0.1	0.107	0.002	0.0153	
480 minute winter	11	Hydro-Brake®	12	1.0				8.5

Results for 2 year 600 minute summer. 2040 minute analysis at 15 minute timestep. Mass balance: 99.20%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
600 minute summer	1	300	56.964	0.014	0.3	0.0062	0.0000	OK
600 minute summer	2	300	56.724	0.016	0.4	0.0033	0.0000	OK
600 minute summer	3	315	57.059	0.009	0.2	0.0023	0.0000	OK
600 minute summer	4	315	56.594	0.019	0.6	0.0030	0.0000	OK
600 minute summer	5	315	57.312	0.012	0.2	0.0031	0.0000	OK
600 minute summer	6	315	57.189	0.009	0.3	0.0021	0.0000	OK
600 minute summer	7	315	56.507	0.024	1.0	0.0048	0.0000	OK
600 minute summer	8	315	56.428	0.024	1.0	0.0038	0.0000	OK
600 minute summer	9	315	57.310	0.010	0.2	0.0023	0.0000	OK
600 minute summer	10	315	57.018	0.007	0.2	0.0010	0.0000	OK
600 minute summer	11	315	56.370	0.048	1.2	0.0552	0.0000	OK
600 minute summer	12	15	56.005	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)
600 minute summer	1	1.000	2	0.3	0.344	0.017	0.0212	
600 minute summer	2	1.001	4	0.4	0.381	0.023	0.0148	
600 minute summer	3	2.000	4	0.2	0.235	0.008	0.0193	
600 minute summer	4	1.002	7	0.6	0.379	0.033	0.0143	
600 minute summer	5	3.000	6	0.2	0.367	0.011	0.0064	
600 minute summer	6	3.001	7	0.3	0.268	0.007	0.0169	
600 minute summer	7	1.003	8	1.0	0.533	0.055	0.0144	
600 minute summer	8	1.004	11	1.0	0.299	0.054	0.0273	
600 minute summer	9	4.000	10	0.2	0.538	0.007	0.0042	
600 minute summer	10	4.001	11	0.2	0.102	0.003	0.0178	
600 minute summer	11	Hydro-Brake®	12	1.1				7.3

Results for 2 year 600 minute winter. 2040 minute analysis at 15 minute timestep. Mass balance: 99.47%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
600 minute winter	1	315	56.964	0.014	0.3	0.0062	0.0000	OK
600 minute winter	2	315	56.724	0.016	0.4	0.0033	0.0000	OK
600 minute winter	3	240	57.057	0.007	0.1	0.0017	0.0000	OK
600 minute winter	4	315	56.592	0.017	0.5	0.0027	0.0000	OK
600 minute winter	5	210	57.309	0.009	0.1	0.0023	0.0000	OK
600 minute winter	6	315	57.188	0.008	0.2	0.0018	0.0000	OK
600 minute winter	7	315	56.505	0.022	0.8	0.0043	0.0000	OK
600 minute winter	8	315	56.425	0.021	0.8	0.0034	0.0000	OK
600 minute winter	9	225	57.307	0.007	0.1	0.0017	0.0000	OK
600 minute winter	10	240	57.016	0.005	0.1	0.0008	0.0000	OK
600 minute winter	11	315	56.363	0.041	0.9	0.0470	0.0000	OK
600 minute winter	12	15	56.005	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)
600 minute winter	1	1.000	2	0.3	0.344	0.017	0.0211	
600 minute winter	2	1.001	4	0.4	0.384	0.022	0.0137	
600 minute winter	3	2.000	4	0.1	0.232	0.004	0.0157	
600 minute winter	4	1.002	7	0.5	0.364	0.028	0.0124	
600 minute winter	5	3.000	6	0.1	0.327	0.006	0.0043	
600 minute winter	6	3.001	7	0.2	0.239	0.005	0.0141	
600 minute winter	7	1.003	8	0.8	0.501	0.044	0.0124	
600 minute winter	8	1.004	11	0.8	0.294	0.044	0.0222	
600 minute winter	9	4.000	10	0.1	0.444	0.004	0.0026	
600 minute winter	10	4.001	11	0.1	0.104	0.002	0.0141	
600 minute winter	11	Hydro-Brake®	12	0.9				7.7

Results for 2 year 720 minute summer. 2160 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
720 minute summer	1	375	56.964	0.014	0.3	0.0062	0.0000	OK
720 minute summer	2	375	56.724	0.016	0.4	0.0033	0.0000	OK
720 minute summer	3	315	57.057	0.007	0.1	0.0017	0.0000	OK
720 minute summer	4	375	56.592	0.017	0.5	0.0027	0.0000	OK
720 minute summer	5	375	57.312	0.012	0.2	0.0031	0.0000	OK
720 minute summer	6	375	57.189	0.009	0.3	0.0022	0.0000	OK
720 minute summer	7	375	56.506	0.023	0.9	0.0046	0.0000	OK
720 minute summer	8	375	56.427	0.023	0.9	0.0036	0.0000	OK
720 minute summer	9	300	57.307	0.007	0.1	0.0017	0.0000	OK
720 minute summer	10	315	57.016	0.005	0.1	0.0008	0.0000	OK
720 minute summer	11	375	56.365	0.043	1.0	0.0497	0.0000	OK
720 minute summer	12	15	56.005	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 summer	1	1.000	2	0.3	0.344	0.017	0.0212	
720 minute summer	2	1.001	4	0.4	0.384	0.022	0.0137	
720 minute summer	3	2.000	4	0.1	0.232	0.004	0.0157	
720 minute summer	4	1.002	7	0.5	0.347	0.028	0.0131	
720 minute summer	5	3.000	6	0.2	0.369	0.011	0.0065	
720 minute summer	6	3.001	7	0.3	0.289	0.008	0.0160	
720 minute summer	7	1.003	8	0.9	0.519	0.050	0.0135	
720 minute summer	8	1.004	11	0.9	0.305	0.049	0.0241	
720 minute summer	9	4.000	10	0.1	0.444	0.004	0.0026	
720 minute summer	10	4.001	11	0.1	0.110	0.002	0.0152	
720 minute summer	11	Hydro-Brake®	12	1.0				6.6

Results for 2 year 720 minute winter. 2160 minute analysis at 15 minute timestep. Mass balance: 97.38%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
720 minute winter	1	315	56.961	0.011	0.2	0.0051	0.0000	OK
720 minute winter	2	315	56.719	0.011	0.2	0.0024	0.0000	OK
720 minute winter	3	300	57.057	0.007	0.1	0.0017	0.0000	OK
720 minute winter	4	315	56.588	0.013	0.3	0.0021	0.0000	OK
720 minute winter	5	255	57.309	0.009	0.1	0.0023	0.0000	OK
720 minute winter	6	255	57.186	0.006	0.1	0.0013	0.0000	OK
720 minute winter	7	315	56.499	0.016	0.4	0.0031	0.0000	OK
720 minute winter	8	315	56.419	0.015	0.4	0.0024	0.0000	OK
720 minute winter	9	270	57.307	0.007	0.1	0.0017	0.0000	OK
720 minute winter	10	300	57.016	0.005	0.1	0.0008	0.0000	OK
720 minute winter	11	315	56.352	0.030	0.5	0.0342	0.0000	OK
720 minute winter	12	15	56.005	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	0.2	0.336	0.011	0.0144	
720 minute winter	2	1.001	4	0.2	0.290	0.011	0.0090	
720 minute winter	3	2.000	4	0.1	0.232	0.004	0.0119	
720 minute winter	4	1.002	7	0.3	0.336	0.016	0.0080	
720 minute winter	5	3.000	6	0.1	0.327	0.006	0.0037	
720 minute winter	6	3.001	7	0.1	0.239	0.003	0.0086	
720 minute winter	7	1.003	8	0.4	0.407	0.022	0.0075	
720 minute winter	8	1.004	11	0.4	0.232	0.022	0.0140	
720 minute winter	9	4.000	10	0.1	0.444	0.004	0.0026	
720 minute winter	10	4.001	11	0.1	0.104	0.002	0.0092	
720 minute winter	11	Hydro-Brake®	12	0.5				7.5

Results for 2 year 960 minute summer. 2400 minute analysis at 15 minute timestep. Mass balance: 97.42%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
960 minute summer	1	450	56.961	0.011	0.2	0.0051	0.0000	OK
960 minute summer	2	450	56.719	0.011	0.2	0.0024	0.0000	OK
960 minute summer	3	435	57.057	0.007	0.1	0.0017	0.0000	OK
960 minute summer	4	450	56.588	0.013	0.3	0.0021	0.0000	OK
960 minute summer	5	405	57.309	0.009	0.1	0.0023	0.0000	OK
960 minute summer	6	405	57.186	0.006	0.1	0.0013	0.0000	OK
960 minute summer	7	450	56.499	0.016	0.4	0.0031	0.0000	OK
960 minute summer	8	450	56.419	0.015	0.4	0.0024	0.0000	OK
960 minute summer	9	420	57.307	0.007	0.1	0.0017	0.0000	OK
960 minute summer	10	435	57.016	0.005	0.1	0.0008	0.0000	OK
960 minute summer	11	450	56.352	0.030	0.5	0.0342	0.0000	OK
960 minute summer	12	15	56.005	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	0.2	0.336	0.011	0.0144	
960 minute summer	2	1.001	4	0.2	0.290	0.011	0.0090	
960 minute summer	3	2.000	4	0.1	0.232	0.004	0.0119	
960 minute summer	4	1.002	7	0.3	0.336	0.016	0.0080	
960 minute summer	5	3.000	6	0.1	0.327	0.006	0.0037	
960 minute summer	6	3.001	7	0.1	0.239	0.003	0.0086	
960 minute summer	7	1.003	8	0.4	0.407	0.022	0.0075	
960 minute summer	8	1.004	11	0.4	0.232	0.022	0.0140	
960 minute summer	9	4.000	10	0.1	0.444	0.004	0.0026	
960 minute summer	10	4.001	11	0.1	0.104	0.002	0.0092	
960 minute summer	11	Hydro-Brake®	12	0.5				6.0

Results for 2 year 960 minute winter. 2400 minute analysis at 15 minute timestep. Mass balance: 97.66%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
960 minute winter	1	435	56.961	0.011	0.2	0.0051	0.0000	OK
960 minute winter	2	435	56.719	0.011	0.2	0.0024	0.0000	OK
960 minute winter	3	420	57.057	0.007	0.1	0.0017	0.0000	OK
960 minute winter	4	435	56.588	0.013	0.3	0.0021	0.0000	OK
960 minute winter	5	360	57.309	0.009	0.1	0.0023	0.0000	OK
960 minute winter	6	360	57.186	0.006	0.1	0.0013	0.0000	OK
960 minute winter	7	435	56.499	0.016	0.4	0.0031	0.0000	OK
960 minute winter	8	435	56.419	0.015	0.4	0.0024	0.0000	OK
960 minute winter	9	375	57.307	0.007	0.1	0.0017	0.0000	OK
960 minute winter	10	420	57.016	0.005	0.1	0.0008	0.0000	OK
960 minute winter	11	435	56.352	0.030	0.5	0.0342	0.0000	OK
960 minute winter	12	15	56.005	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	0.2	0.336	0.011	0.0144	
960 minute winter	2	1.001	4	0.2	0.290	0.011	0.0090	
960 minute winter	3	2.000	4	0.1	0.232	0.004	0.0119	
960 minute winter	4	1.002	7	0.3	0.336	0.016	0.0080	
960 minute winter	5	3.000	6	0.1	0.327	0.006	0.0037	
960 minute winter	6	3.001	7	0.1	0.239	0.003	0.0086	
960 minute winter	7	1.003	8	0.4	0.407	0.022	0.0075	
960 minute winter	8	1.004	11	0.4	0.232	0.022	0.0140	
960 minute winter	9	4.000	10	0.1	0.444	0.004	0.0026	
960 minute winter	10	4.001	11	0.1	0.104	0.002	0.0092	
960 minute winter	11	Hydro-Brake®	12	0.5				8.4

Results for 2 year 1440 minute summer. 2880 minute analysis at 30 minute timestep. Mass balance: 97.91%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
1440 minute summer	1	720	56.961	0.011	0.2	0.0051	0.0000	OK
1440 minute summer	2	720	56.719	0.011	0.2	0.0024	0.0000	OK
1440 minute summer	3	690	57.057	0.007	0.1	0.0017	0.0000	OK
1440 minute summer	4	720	56.588	0.013	0.3	0.0021	0.0000	OK
1440 minute summer	5	660	57.309	0.009	0.1	0.0023	0.0000	OK
1440 minute summer	6	660	57.186	0.006	0.1	0.0013	0.0000	OK
1440 minute summer	7	720	56.499	0.016	0.4	0.0031	0.0000	OK
1440 minute summer	8	720	56.419	0.015	0.4	0.0024	0.0000	OK
1440 minute summer	9	690	57.307	0.007	0.1	0.0017	0.0000	OK
1440 minute summer	10	690	57.016	0.005	0.1	0.0008	0.0000	OK
1440 minute summer	11	720	56.352	0.030	0.5	0.0342	0.0000	OK
1440 minute summer	12	30	56.005	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	0.2	0.335	0.011	0.0142	
1440 minute summer	2	1.001	4	0.2	0.286	0.011	0.0089	
1440 minute summer	3	2.000	4	0.1	0.230	0.004	0.0118	
1440 minute summer	4	1.002	7	0.3	0.333	0.016	0.0079	
1440 minute summer	5	3.000	6	0.1	0.327	0.006	0.0037	
1440 minute summer	6	3.001	7	0.1	0.246	0.003	0.0085	
1440 minute summer	7	1.003	8	0.4	0.405	0.022	0.0075	
1440 minute summer	8	1.004	11	0.4	0.230	0.021	0.0140	
1440 minute summer	9	4.000	10	0.1	0.444	0.004	0.0026	
1440 minute summer	10	4.001	11	0.1	0.101	0.002	0.0092	
1440 minute summer	11	Hydro-Brake®	12	0.5				6.7

Results for 2 year 1440 minute winter. 2880 minute analysis at 30 minute timestep. Mass balance: 96.95%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
1440 minute winter	1	630	56.958	0.008	0.1	0.0037	0.0000	OK
1440 minute winter	2	600	56.716	0.008	0.1	0.0018	0.0000	OK
1440 minute winter	3	660	57.057	0.007	0.1	0.0016	0.0000	OK
1440 minute winter	4	660	56.586	0.011	0.2	0.0018	0.0000	OK
1440 minute winter	5	630	57.309	0.009	0.1	0.0023	0.0000	OK
1440 minute winter	6	630	57.186	0.006	0.1	0.0013	0.0000	OK
1440 minute winter	7	660	56.497	0.014	0.3	0.0027	0.0000	OK
1440 minute winter	8	660	56.417	0.013	0.3	0.0021	0.0000	OK
1440 minute winter	9	660	57.307	0.007	0.1	0.0017	0.0000	OK
1440 minute winter	10	660	57.016	0.005	0.1	0.0008	0.0000	OK
1440 minute winter	11	660	56.348	0.026	0.4	0.0300	0.0000	OK
1440 minute winter	12	30	56.005	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	0.270	0.006	0.0090	
1440 minute winter	2	1.001	4	0.1	0.270	0.006	0.0063	
1440 minute winter	3	2.000	4	0.1	0.232	0.004	0.0098	
1440 minute winter	4	1.002	7	0.2	0.285	0.011	0.0063	
1440 minute winter	5	3.000	6	0.1	0.327	0.006	0.0037	
1440 minute winter	6	3.001	7	0.1	0.246	0.003	0.0073	
1440 minute winter	7	1.003	8	0.3	0.375	0.016	0.0062	
1440 minute winter	8	1.004	11	0.3	0.222	0.016	0.0116	
1440 minute winter	9	4.000	10	0.1	0.444	0.004	0.0026	
1440 minute winter	10	4.001	11	0.1	0.103	0.002	0.0077	
1440 minute winter	11	Hydro-Brake®	12	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	57.000	0.050	4.3	0.0227	0.0000	OK
15 minute summer	2	14	56.796	0.088	5.2	0.0189	0.0000	OK
15 minute summer	3	10	57.078	0.028	2.0	0.0067	0.0000	OK
15 minute summer	4	14	56.794	0.219	7.0	0.0348	0.0000	SURCHARGED
15 minute summer	5	10	57.338	0.038	2.3	0.0102	0.0000	OK
15 minute summer	6	10	57.209	0.029	3.2	0.0066	0.0000	OK
15 minute summer	7	14	56.791	0.308	11.0	0.0606	0.0000	SURCHARGED
15 minute summer	8	14	56.784	0.380	8.3	0.0604	0.0000	SURCHARGED
15 minute summer	9	10	57.329	0.029	2.0	0.0070	0.0000	OK
15 minute summer	10	10	57.030	0.019	2.0	0.0031	0.0000	OK
15 minute summer	11	14	56.777	0.455	7.7	0.5221	0.0000	SURCHARGED
15 minute summer	12	1	56.005	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	4.3	0.764	0.240	0.1619	
15 minute summer	2	1.001	4	5.1	0.752	0.288	0.1881	
15 minute summer	3	2.000	4	2.0	0.499	0.076	0.2209	
15 minute summer	4	1.002	7	7.0	0.677	0.393	0.1614	
15 minute summer	5	3.000	6	2.3	0.776	0.128	0.0354	
15 minute summer	6	3.001	7	3.1	0.512	0.080	0.1450	
15 minute summer	7	1.003	8	8.3	0.852	0.466	0.1392	
15 minute summer	8	1.004	11	5.6	0.437	0.316	0.1443	
15 minute summer	9	4.000	10	2.0	1.079	0.070	0.0215	
15 minute summer	10	4.001	11	2.0	0.888	0.035	0.0656	
15 minute summer	11	Hydro-Brake®	12	5.0				5.8

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	57.001	0.051	4.5	0.0233	0.0000	OK
15 minute winter	2	15	56.837	0.129	5.3	0.0277	0.0000	OK
15 minute winter	3	10	57.079	0.029	2.1	0.0069	0.0000	OK
15 minute winter	4	15	56.836	0.261	7.2	0.0415	0.0000	SURCHARGED
15 minute winter	5	10	57.339	0.039	2.4	0.0104	0.0000	OK
15 minute winter	6	10	57.209	0.029	3.2	0.0066	0.0000	OK
15 minute winter	7	15	56.833	0.350	9.3	0.0689	0.0000	SURCHARGED
15 minute winter	8	15	56.827	0.423	7.5	0.0673	0.0000	SURCHARGED
15 minute winter	9	10	57.330	0.030	2.1	0.0072	0.0000	OK
15 minute winter	10	10	57.031	0.020	2.1	0.0031	0.0000	OK
15 minute winter	11	15	56.821	0.499	7.8	0.5725	0.0000	SURCHARGED
15 minute winter	12	1	56.005	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	4.4	0.774	0.249	0.2261	
15 minute winter	2	1.001	4	5.2	0.719	0.294	0.2238	
15 minute winter	3	2.000	4	2.1	0.499	0.080	0.2235	
15 minute winter	4	1.002	7	5.7	0.691	0.321	0.1614	
15 minute winter	5	3.000	6	2.4	0.784	0.132	0.0362	
15 minute winter	6	3.001	7	3.2	0.518	0.082	0.1456	
15 minute winter	7	1.003	8	7.5	0.820	0.421	0.1392	
15 minute winter	8	1.004	11	5.6	0.448	0.313	0.1443	
15 minute winter	9	4.000	10	2.1	1.094	0.074	0.0222	
15 minute winter	10	4.001	11	2.1	0.774	0.037	0.0658	
15 minute winter	11	Hydro-Brake®	12	5.0				6.5

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	56.998	0.048	3.9	0.0217	0.0000	OK
30 minute summer	2	22	56.793	0.085	4.7	0.0182	0.0000	OK
30 minute summer	3	18	57.077	0.027	1.8	0.0064	0.0000	OK
30 minute summer	4	22	56.792	0.217	6.7	0.0346	0.0000	SURCHARGED
30 minute summer	5	18	57.337	0.037	2.1	0.0098	0.0000	OK
30 minute summer	6	18	57.208	0.028	2.9	0.0063	0.0000	OK
30 minute summer	7	22	56.790	0.307	9.7	0.0604	0.0000	SURCHARGED
30 minute summer	8	22	56.784	0.379	7.3	0.0603	0.0000	SURCHARGED
30 minute summer	9	18	57.328	0.028	1.8	0.0067	0.0000	OK
30 minute summer	10	18	57.029	0.018	1.8	0.0029	0.0000	OK
30 minute summer	11	22	56.777	0.455	6.3	0.5223	0.0000	SURCHARGED
30 minute summer	12	1	56.005	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	3.9	0.747	0.220	0.1593	
30 minute summer	2	1.001	4	4.9	0.723	0.274	0.1853	
30 minute summer	3	2.000	4	1.8	0.454	0.069	0.2181	
30 minute summer	4	1.002	7	6.1	0.654	0.345	0.1614	
30 minute summer	5	3.000	6	2.1	0.758	0.118	0.0334	
30 minute summer	6	3.001	7	2.9	0.510	0.074	0.1444	
30 minute summer	7	1.003	8	7.3	0.846	0.410	0.1392	
30 minute summer	8	1.004	11	4.6	0.418	0.262	0.1443	
30 minute summer	9	4.000	10	1.8	1.050	0.064	0.0201	
30 minute summer	10	4.001	11	1.8	0.745	0.032	0.0653	
30 minute summer	11	Hydro-Brake®	12	5.0				7.7

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	56.995	0.045	3.5	0.0205	0.0000	OK
30 minute winter	2	24	56.822	0.114	4.2	0.0245	0.0000	OK
30 minute winter	3	18	57.075	0.025	1.6	0.0061	0.0000	OK
30 minute winter	4	24	56.821	0.246	5.8	0.0391	0.0000	SURCHARGED
30 minute winter	5	18	57.335	0.035	1.9	0.0093	0.0000	OK
30 minute winter	6	18	57.206	0.026	2.6	0.0060	0.0000	OK
30 minute winter	7	24	56.819	0.336	8.4	0.0661	0.0000	SURCHARGED
30 minute winter	8	24	56.813	0.409	6.8	0.0650	0.0000	SURCHARGED
30 minute winter	9	18	57.326	0.026	1.6	0.0063	0.0000	OK
30 minute winter	10	18	57.028	0.017	1.6	0.0028	0.0000	OK
30 minute winter	11	24	56.807	0.485	6.3	0.5560	0.0000	SURCHARGED
30 minute winter	12	1	56.005	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	3.5	0.733	0.197	0.2069	
30 minute winter	2	1.001	4	4.2	0.716	0.237	0.2122	
30 minute winter	3	2.000	4	1.6	0.483	0.062	0.2195	
30 minute winter	4	1.002	7	5.3	0.648	0.298	0.1614	
30 minute winter	5	3.000	6	1.9	0.738	0.107	0.0311	
30 minute winter	6	3.001	7	2.6	0.474	0.066	0.1432	
30 minute winter	7	1.003	8	6.8	0.795	0.385	0.1392	
30 minute winter	8	1.004	11	4.8	0.387	0.272	0.1443	
30 minute winter	9	4.000	10	1.6	1.013	0.057	0.0185	
30 minute winter	10	4.001	11	1.6	0.807	0.028	0.0650	
30 minute winter	11	Hydro-Brake®	12	5.0				8.6

Results for 30 year 60 minute summer. 300 minute analysis at 1 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute summer	1	33	56.991	0.041	2.9	0.0185	0.0000	OK
60 minute summer	2	33	56.754	0.046	3.5	0.0098	0.0000	OK
60 minute summer	3	33	57.074	0.024	1.4	0.0057	0.0000	OK
60 minute summer	4	39	56.734	0.159	4.9	0.0253	0.0000	SURCHARGED
60 minute summer	5	33	57.332	0.032	1.6	0.0085	0.0000	OK
60 minute summer	6	33	57.204	0.024	2.2	0.0055	0.0000	OK
60 minute summer	7	39	56.731	0.248	7.5	0.0489	0.0000	SURCHARGED
60 minute summer	8	39	56.726	0.322	6.4	0.0511	0.0000	SURCHARGED
60 minute summer	9	33	57.325	0.025	1.4	0.0059	0.0000	OK
60 minute summer	10	33	57.027	0.016	1.4	0.0026	0.0000	OK
60 minute summer	11	39	56.720	0.397	6.1	0.4559	0.0000	SURCHARGED
60 minute summer	12	1	56.005	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	2.9	0.690	0.163	0.1020	
60 minute summer	2	1.001	4	3.5	0.686	0.197	0.1395	
60 minute summer	3	2.000	4	1.4	0.462	0.054	0.2133	
60 minute summer	4	1.002	7	4.8	0.669	0.270	0.1614	
60 minute summer	5	3.000	6	1.6	0.702	0.090	0.0275	
60 minute summer	6	3.001	7	2.2	0.545	0.056	0.1415	
60 minute summer	7	1.003	8	6.4	0.799	0.361	0.1392	
60 minute summer	8	1.004	11	4.6	0.397	0.260	0.1443	
60 minute summer	9	4.000	10	1.4	0.974	0.050	0.0168	
60 minute summer	10	4.001	11	1.4	0.701	0.025	0.0647	
60 minute summer	11	Hydro-Brake®	12	5.0				9.8

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	33	56.987	0.037	2.4	0.0169	0.0000	OK
60 minute winter	2	33	56.749	0.041	2.9	0.0088	0.0000	OK
60 minute winter	3	33	57.071	0.021	1.1	0.0051	0.0000	OK
60 minute winter	4	41	56.694	0.119	4.0	0.0188	0.0000	OK
60 minute winter	5	33	57.329	0.029	1.3	0.0077	0.0000	OK
60 minute winter	6	33	57.202	0.022	1.8	0.0050	0.0000	OK
60 minute winter	7	41	56.691	0.208	6.3	0.0411	0.0000	SURCHARGED
60 minute winter	8	41	56.686	0.282	5.3	0.0448	0.0000	SURCHARGED
60 minute winter	9	32	57.322	0.022	1.1	0.0052	0.0000	OK
60 minute winter	10	33	57.026	0.015	1.1	0.0023	0.0000	OK
60 minute winter	11	41	56.679	0.357	5.5	0.4098	0.0000	SURCHARGED
60 minute winter	12	1	56.005	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	2.4	0.654	0.135	0.0888	
60 minute winter	2	1.001	4	2.9	0.658	0.163	0.1192	
60 minute winter	3	2.000	4	1.1	0.459	0.042	0.1811	
60 minute winter	4	1.002	7	4.0	0.648	0.223	0.1491	
60 minute winter	5	3.000	6	1.3	0.660	0.073	0.0238	
60 minute winter	6	3.001	7	1.8	0.482	0.046	0.1395	
60 minute winter	7	1.003	8	5.3	0.776	0.300	0.1392	
60 minute winter	8	1.004	11	4.3	0.398	0.244	0.1443	
60 minute winter	9	4.000	10	1.1	0.909	0.039	0.0142	
60 minute winter	10	4.001	11	1.1	0.748	0.019	0.0641	
60 minute winter	11	Hydro-Brake®	12	5.0				10.8

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	56.983	0.033	1.9	0.0150	0.0000	OK
120 minute summer	2	64	56.744	0.036	2.3	0.0078	0.0000	OK
120 minute summer	3	64	57.069	0.019	0.9	0.0046	0.0000	OK
120 minute summer	4	64	56.619	0.044	3.2	0.0071	0.0000	OK
120 minute summer	5	64	57.325	0.025	1.0	0.0067	0.0000	OK
120 minute summer	6	64	57.199	0.019	1.4	0.0044	0.0000	OK
120 minute summer	7	70	56.577	0.094	5.0	0.0186	0.0000	OK
120 minute summer	8	70	56.574	0.170	4.9	0.0271	0.0000	SURCHARGED
120 minute summer	9	64	57.320	0.020	0.9	0.0047	0.0000	OK
120 minute summer	10	64	57.024	0.013	0.9	0.0021	0.0000	OK
120 minute summer	11	70	56.569	0.247	5.1	0.2829	0.0000	SURCHARGED
120 minute summer	12	2	56.005	0.000	4.8	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
120 minute summer	1	1.000	2	1.9	0.615	0.107	0.0748	
120 minute summer	2	1.001	4	2.3	0.613	0.130	0.0508	
120 minute summer	3	2.000	4	0.9	0.404	0.035	0.0637	
120 minute summer	4	1.002	7	3.2	0.623	0.180	0.0706	
120 minute summer	5	3.000	6	1.0	0.609	0.056	0.0198	
120 minute summer	6	3.001	7	1.4	0.414	0.036	0.0929	
120 minute summer	7	1.003	8	4.9	0.766	0.276	0.1158	
120 minute summer	8	1.004	11	4.2	0.368	0.235	0.1443	
120 minute summer	9	4.000	10	0.9	0.858	0.032	0.0123	
120 minute summer	10	4.001	11	0.9	0.772	0.016	0.0637	
120 minute summer	11	Hydro-Brake®	12	4.8				11.8

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

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
120 minute winter	1	64	56.979	0.029	1.5	0.0133	0.0000	OK
120 minute winter	2	66	56.740	0.032	1.8	0.0069	0.0000	OK
120 minute winter	3	64	57.067	0.017	0.7	0.0041	0.0000	OK
120 minute winter	4	68	56.614	0.039	2.5	0.0062	0.0000	OK
120 minute winter	5	62	57.323	0.023	0.8	0.0061	0.0000	OK
120 minute winter	6	64	57.197	0.017	1.1	0.0040	0.0000	OK
120 minute winter	7	62	56.533	0.050	3.9	0.0099	0.0000	OK
120 minute winter	8	70	56.491	0.087	4.0	0.0138	0.0000	OK
120 minute winter	9	60	57.318	0.018	0.7	0.0042	0.0000	OK
120 minute winter	10	60	57.023	0.012	0.7	0.0019	0.0000	OK
120 minute winter	11	70	56.488	0.166	4.6	0.1906	0.0000	SURCHARGED
120 minute winter	12	2	56.005	0.000	4.5	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
120 minute winter	1	1.000	2	1.5	0.577	0.084	0.0630	
120 minute winter	2	1.001	4	1.8	0.568	0.101	0.0422	
120 minute winter	3	2.000	4	0.7	0.368	0.027	0.0529	
120 minute winter	4	1.002	7	2.5	0.596	0.141	0.0402	
120 minute winter	5	3.000	6	0.8	0.573	0.045	0.0169	
120 minute winter	6	3.001	7	1.1	0.490	0.028	0.0460	
120 minute winter	7	1.003	8	4.0	0.762	0.224	0.0609	
120 minute winter	8	1.004	11	3.8	0.356	0.212	0.1155	
120 minute winter	9	4.000	10	0.7	0.794	0.025	0.0103	
120 minute winter	10	4.001	11	0.7	0.772	0.012	0.0633	
120 minute winter	11	Hydro-Brake®	12	4.5				13.7

Results for 30 year 180 minute summer. 420 minute analysis at 4 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
180 minute summer	1	96	56.978	0.028	1.4	0.0129	0.0000	OK
180 minute summer	2	96	56.739	0.031	1.7	0.0067	0.0000	OK
180 minute summer	3	96	57.067	0.017	0.7	0.0041	0.0000	OK
180 minute summer	4	96	56.613	0.038	2.4	0.0060	0.0000	OK
180 minute summer	5	96	57.323	0.023	0.8	0.0061	0.0000	OK
180 minute summer	6	96	57.197	0.017	1.1	0.0040	0.0000	OK
180 minute summer	7	96	56.533	0.050	3.8	0.0098	0.0000	OK
180 minute summer	8	100	56.472	0.068	3.8	0.0109	0.0000	OK
180 minute summer	9	96	57.318	0.018	0.7	0.0042	0.0000	OK
180 minute summer	10	96	57.023	0.012	0.7	0.0019	0.0000	OK
180 minute summer	11	100	56.470	0.148	4.3	0.1702	0.0000	OK
180 minute summer	12	4	56.005	0.000	4.3	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
180 minute summer	1	1.000	2	1.4	0.565	0.079	0.0603	
180 minute summer	2	1.001	4	1.7	0.556	0.096	0.0407	
180 minute summer	3	2.000	4	0.7	0.404	0.027	0.0515	
180 minute summer	4	1.002	7	2.4	0.572	0.135	0.0393	
180 minute summer	5	3.000	6	0.8	0.573	0.045	0.0169	
180 minute summer	6	3.001	7	1.1	0.381	0.028	0.0453	
180 minute summer	7	1.003	8	3.8	0.766	0.215	0.0483	
180 minute summer	8	1.004	11	3.5	0.351	0.200	0.1040	
180 minute summer	9	4.000	10	0.7	0.794	0.025	0.0103	
180 minute summer	10	4.001	11	0.7	0.264	0.012	0.0630	
180 minute summer	11	Hydro-Brake®	12	4.3				13.1

Results for 30 year 180 minute winter. 420 minute analysis at 4 minute timestep. Mass balance: 99.09%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
180 minute winter	1	100	56.975	0.025	1.1	0.0114	0.0000	OK
180 minute winter	2	100	56.735	0.027	1.3	0.0058	0.0000	OK
180 minute winter	3	100	57.065	0.015	0.5	0.0035	0.0000	OK
180 minute winter	4	100	56.607	0.032	1.8	0.0051	0.0000	OK
180 minute winter	5	100	57.320	0.020	0.6	0.0052	0.0000	OK
180 minute winter	6	100	57.195	0.015	0.8	0.0034	0.0000	OK
180 minute winter	7	100	56.524	0.041	2.7	0.0082	0.0000	OK
180 minute winter	8	100	56.443	0.039	2.7	0.0063	0.0000	OK
180 minute winter	9	88	57.315	0.015	0.5	0.0036	0.0000	OK
180 minute winter	10	88	57.021	0.010	0.5	0.0016	0.0000	OK
180 minute winter	11	100	56.418	0.096	3.3	0.1103	0.0000	OK
180 minute winter	12	4	56.005	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)
180 minute winter	1	1.000	2	1.1	0.530	0.061	0.0498	
180 minute winter	2	1.001	4	1.3	0.519	0.072	0.0326	
180 minute winter	3	2.000	4	0.5	0.294	0.019	0.0407	
180 minute winter	4	1.002	7	1.8	0.527	0.099	0.0307	
180 minute winter	5	3.000	6	0.6	0.527	0.033	0.0135	
180 minute winter	6	3.001	7	0.8	0.342	0.020	0.0352	
180 minute winter	7	1.003	8	2.7	0.709	0.153	0.0302	
180 minute winter	8	1.004	11	2.7	0.349	0.152	0.0640	
180 minute winter	9	4.000	10	0.5	0.717	0.018	0.0081	
180 minute winter	10	4.001	11	0.5	0.214	0.009	0.0431	
180 minute winter	11	Hydro-Brake®	12	3.2				14.2

Results for 30 year 240 minute summer. 480 minute analysis at 4 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
240 minute summer	1	124	56.976	0.026	1.2	0.0119	0.0000	OK
240 minute summer	2	128	56.736	0.028	1.4	0.0061	0.0000	OK
240 minute summer	3	124	57.066	0.016	0.6	0.0038	0.0000	OK
240 minute summer	4	128	56.609	0.034	2.0	0.0054	0.0000	OK
240 minute summer	5	124	57.321	0.021	0.7	0.0057	0.0000	OK
240 minute summer	6	128	57.196	0.016	0.9	0.0036	0.0000	OK
240 minute summer	7	128	56.527	0.044	3.1	0.0086	0.0000	OK
240 minute summer	8	128	56.446	0.042	3.0	0.0066	0.0000	OK
240 minute summer	9	124	57.316	0.016	0.6	0.0039	0.0000	OK
240 minute summer	10	128	57.022	0.011	0.6	0.0017	0.0000	OK
240 minute summer	11	128	56.429	0.107	3.7	0.1224	0.0000	OK
240 minute summer	12	4	56.005	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)
240 minute summer	1	1.000	2	1.2	0.546	0.067	0.0528	
240 minute summer	2	1.001	4	1.4	0.526	0.078	0.0350	
240 minute summer	3	2.000	4	0.6	0.311	0.023	0.0444	
240 minute summer	4	1.002	7	2.0	0.541	0.110	0.0333	
240 minute summer	5	3.000	6	0.7	0.557	0.039	0.0150	
240 minute summer	6	3.001	7	0.9	0.360	0.023	0.0383	
240 minute summer	7	1.003	8	3.0	0.731	0.170	0.0327	
240 minute summer	8	1.004	11	3.0	0.352	0.169	0.0713	
240 minute summer	9	4.000	10	0.6	0.757	0.021	0.0092	
240 minute summer	10	4.001	11	0.6	0.126	0.011	0.0485	
240 minute summer	11	Hydro-Brake®	12	3.6				14.0

Results for 30 year 240 minute winter. 480 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	140	56.973	0.023	0.9	0.0103	0.0000	OK
240 minute winter	2	140	56.733	0.025	1.1	0.0054	0.0000	OK
240 minute winter	3	120	57.063	0.013	0.4	0.0031	0.0000	OK
240 minute winter	4	140	56.604	0.029	1.5	0.0046	0.0000	OK
240 minute winter	5	140	57.318	0.018	0.5	0.0048	0.0000	OK
240 minute winter	6	140	57.194	0.014	0.7	0.0032	0.0000	OK
240 minute winter	7	140	56.521	0.038	2.3	0.0075	0.0000	OK
240 minute winter	8	140	56.440	0.036	2.3	0.0058	0.0000	OK
240 minute winter	9	112	57.313	0.013	0.4	0.0032	0.0000	OK
240 minute winter	10	116	57.020	0.009	0.4	0.0015	0.0000	OK
240 minute winter	11	140	56.406	0.084	2.8	0.0963	0.0000	OK
240 minute winter	12	4	56.005	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)
240 minute winter	1	1.000	2	0.9	0.493	0.050	0.0437	
240 minute winter	2	1.001	4	1.1	0.499	0.061	0.0286	
240 minute winter	3	2.000	4	0.4	0.288	0.015	0.0352	
240 minute winter	4	1.002	7	1.5	0.497	0.082	0.0271	
240 minute winter	5	3.000	6	0.5	0.493	0.028	0.0120	
240 minute winter	6	3.001	7	0.7	0.335	0.017	0.0315	
240 minute winter	7	1.003	8	2.3	0.680	0.131	0.0270	
240 minute winter	8	1.004	11	2.3	0.349	0.130	0.0551	
240 minute winter	9	4.000	10	0.4	0.671	0.014	0.0070	
240 minute winter	10	4.001	11	0.4	0.216	0.007	0.0367	
240 minute winter	11	Hydro-Brake®	12	2.8				16.0

Results for 30 year 360 minute summer. 600 minute analysis at 8 minute timestep. Mass balance: 99.64%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
360 minute summer	1	192	56.973	0.023	0.9	0.0103	0.0000	OK
360 minute summer	2	192	56.733	0.025	1.1	0.0053	0.0000	OK
360 minute summer	3	192	57.063	0.013	0.4	0.0031	0.0000	OK
360 minute summer	4	192	56.604	0.029	1.5	0.0046	0.0000	OK
360 minute summer	5	192	57.318	0.018	0.5	0.0048	0.0000	OK
360 minute summer	6	192	57.194	0.014	0.7	0.0032	0.0000	OK
360 minute summer	7	192	56.521	0.038	2.3	0.0075	0.0000	OK
360 minute summer	8	192	56.440	0.036	2.3	0.0058	0.0000	OK
360 minute summer	9	184	57.313	0.013	0.4	0.0032	0.0000	OK
360 minute summer	10	184	57.020	0.009	0.4	0.0015	0.0000	OK
360 minute summer	11	192	56.406	0.084	2.8	0.0962	0.0000	OK
360 minute summer	12	8	56.005	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)
360 minute summer	1	1.000	2	0.9	0.492	0.050	0.0436	
360 minute summer	2	1.001	4	1.1	0.499	0.060	0.0285	
360 minute summer	3	2.000	4	0.4	0.273	0.015	0.0352	
360 minute summer	4	1.002	7	1.5	0.497	0.082	0.0270	
360 minute summer	5	3.000	6	0.5	0.492	0.027	0.0120	
360 minute summer	6	3.001	7	0.7	0.334	0.017	0.0315	
360 minute summer	7	1.003	8	2.3	0.679	0.130	0.0269	
360 minute summer	8	1.004	11	2.3	0.348	0.130	0.0550	
360 minute summer	9	4.000	10	0.4	0.671	0.014	0.0070	
360 minute summer	10	4.001	11	0.4	0.106	0.007	0.0367	
360 minute summer	11	Hydro-Brake®	12	2.8				14.9

Results for 30 year 360 minute winter. 600 minute analysis at 8 minute timestep. Mass balance: 99.59%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
360 minute winter	1	184	56.970	0.020	0.7	0.0092	0.0000	OK
360 minute winter	2	184	56.730	0.022	0.8	0.0046	0.0000	OK
360 minute winter	3	200	57.061	0.011	0.3	0.0027	0.0000	OK
360 minute winter	4	184	56.600	0.025	1.1	0.0040	0.0000	OK
360 minute winter	5	184	57.316	0.016	0.4	0.0043	0.0000	OK
360 minute winter	6	184	57.192	0.012	0.5	0.0026	0.0000	OK
360 minute winter	7	200	56.515	0.032	1.7	0.0063	0.0000	OK
360 minute winter	8	200	56.435	0.031	1.7	0.0049	0.0000	OK
360 minute winter	9	176	57.312	0.012	0.3	0.0028	0.0000	OK
360 minute winter	10	176	57.019	0.008	0.3	0.0013	0.0000	OK
360 minute winter	11	200	56.388	0.066	2.0	0.0755	0.0000	OK
360 minute winter	12	8	56.005	0.000	1.9	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 winter	1	1.000	2	0.7	0.469	0.039	0.0362	
360 minute winter	2	1.001	4	0.8	0.456	0.045	0.0233	
360 minute winter	3	2.000	4	0.3	0.257	0.012	0.0289	
360 minute winter	4	1.002	7	1.1	0.471	0.062	0.0215	
360 minute winter	5	3.000	6	0.4	0.469	0.021	0.0098	
360 minute winter	6	3.001	7	0.5	0.295	0.012	0.0244	
360 minute winter	7	1.003	8	1.7	0.619	0.093	0.0211	
360 minute winter	8	1.004	11	1.7	0.383	0.093	0.0411	
360 minute winter	9	4.000	10	0.3	0.619	0.011	0.0057	
360 minute winter	10	4.001	11	0.3	0.107	0.005	0.0270	
360 minute winter	11	Hydro-Brake®	12	1.9				17.1

Results for 30 year 480 minute summer. 720 minute analysis at 8 minute timestep. Mass balance: 99.51%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
480 minute summer	1	248	56.970	0.020	0.7	0.0092	0.0000	OK
480 minute summer	2	248	56.729	0.021	0.8	0.0046	0.0000	OK
480 minute summer	3	240	57.061	0.011	0.3	0.0027	0.0000	OK
480 minute summer	4	256	56.600	0.025	1.1	0.0040	0.0000	OK
480 minute summer	5	248	57.316	0.016	0.4	0.0043	0.0000	OK
480 minute summer	6	248	57.192	0.012	0.5	0.0027	0.0000	OK
480 minute summer	7	256	56.515	0.032	1.7	0.0063	0.0000	OK
480 minute summer	8	256	56.435	0.031	1.7	0.0049	0.0000	OK
480 minute summer	9	232	57.312	0.012	0.3	0.0028	0.0000	OK
480 minute summer	10	232	57.019	0.008	0.3	0.0013	0.0000	OK
480 minute summer	11	256	56.387	0.065	1.9	0.0750	0.0000	OK
480 minute summer	12	8	56.005	0.000	1.9	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)
480 minute summer	1	1.000	2	0.7	0.469	0.039	0.0357	
480 minute summer	2	1.001	4	0.8	0.453	0.044	0.0229	
480 minute summer	3	2.000	4	0.3	0.267	0.012	0.0285	
480 minute summer	4	1.002	7	1.1	0.463	0.061	0.0214	
480 minute summer	5	3.000	6	0.4	0.473	0.022	0.0100	
480 minute summer	6	3.001	7	0.5	0.307	0.012	0.0245	
480 minute summer	7	1.003	8	1.7	0.619	0.093	0.0211	
480 minute summer	8	1.004	11	1.6	0.337	0.092	0.0408	
480 minute summer	9	4.000	10	0.3	0.619	0.011	0.0057	
480 minute summer	10	4.001	11	0.3	0.106	0.005	0.0268	
480 minute summer	11	Hydro-Brake®	12	1.9				14.6

Results for 30 year 480 minute winter. 720 minute analysis at 8 minute timestep. Mass balance: 99.64%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
480 minute winter	1	256	56.967	0.017	0.5	0.0079	0.0000	OK
480 minute winter	2	264	56.727	0.019	0.6	0.0040	0.0000	OK
480 minute winter	3	248	57.061	0.011	0.3	0.0027	0.0000	OK
480 minute winter	4	248	56.598	0.023	0.9	0.0036	0.0000	OK
480 minute winter	5	240	57.314	0.014	0.3	0.0038	0.0000	OK
480 minute winter	6	240	57.191	0.011	0.4	0.0025	0.0000	OK
480 minute winter	7	248	56.512	0.029	1.4	0.0057	0.0000	OK
480 minute winter	8	248	56.432	0.028	1.4	0.0045	0.0000	OK
480 minute winter	9	248	57.312	0.012	0.3	0.0028	0.0000	OK
480 minute winter	10	248	57.019	0.008	0.3	0.0012	0.0000	OK
480 minute winter	11	248	56.381	0.059	1.6	0.0676	0.0000	OK
480 minute winter	12	8	56.005	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 winter	1	1.000	2	0.5	0.416	0.028	0.0291	
480 minute winter	2	1.001	4	0.6	0.421	0.034	0.0195	
480 minute winter	3	2.000	4	0.3	0.266	0.011	0.0255	
480 minute winter	4	1.002	7	0.9	0.435	0.049	0.0186	
480 minute winter	5	3.000	6	0.3	0.430	0.017	0.0084	
480 minute winter	6	3.001	7	0.4	0.297	0.010	0.0215	
480 minute winter	7	1.003	8	1.4	0.587	0.077	0.0184	
480 minute winter	8	1.004	11	1.4	0.359	0.077	0.0356	
480 minute winter	9	4.000	10	0.3	0.616	0.010	0.0056	
480 minute winter	10	4.001	11	0.3	0.106	0.005	0.0235	
480 minute winter	11	Hydro-Brake®	12	1.6				17.5

Results for 30 year 600 minute summer. 840 minute analysis at 15 minute timestep. Mass balance: 99.31%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
600 minute summer	1	300	56.969	0.019	0.6	0.0085	0.0000	OK
600 minute summer	2	300	56.728	0.020	0.7	0.0043	0.0000	OK
600 minute summer	3	300	57.061	0.011	0.3	0.0027	0.0000	OK
600 minute summer	4	300	56.599	0.024	1.0	0.0038	0.0000	OK
600 minute summer	5	300	57.314	0.014	0.3	0.0038	0.0000	OK
600 minute summer	6	300	57.191	0.011	0.4	0.0025	0.0000	OK
600 minute summer	7	300	56.513	0.030	1.5	0.0059	0.0000	OK
600 minute summer	8	300	56.433	0.029	1.5	0.0046	0.0000	OK
600 minute summer	9	300	57.312	0.012	0.3	0.0028	0.0000	OK
600 minute summer	10	300	57.019	0.008	0.3	0.0013	0.0000	OK
600 minute summer	11	300	56.383	0.061	1.7	0.0700	0.0000	OK
600 minute summer	12	15	56.005	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 summer	1	1.000	2	0.6	0.444	0.033	0.0324	
600 minute summer	2	1.001	4	0.7	0.431	0.039	0.0211	
600 minute summer	3	2.000	4	0.3	0.256	0.011	0.0268	
600 minute summer	4	1.002	7	1.0	0.453	0.054	0.0196	
600 minute summer	5	3.000	6	0.3	0.430	0.017	0.0084	
600 minute summer	6	3.001	7	0.4	0.295	0.010	0.0222	
600 minute summer	7	1.003	8	1.5	0.597	0.082	0.0192	
600 minute summer	8	1.004	11	1.4	0.326	0.081	0.0373	
600 minute summer	9	4.000	10	0.3	0.617	0.010	0.0056	
600 minute summer	10	4.001	11	0.3	0.104	0.005	0.0245	
600 minute summer	11	Hydro-Brake®	12	1.7				15.5

Results for 30 year 600 minute winter. 840 minute analysis at 15 minute timestep. Mass balance: 99.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
600 minute winter	1	300	56.967	0.017	0.5	0.0078	0.0000	OK
600 minute winter	2	300	56.727	0.019	0.6	0.0040	0.0000	OK
600 minute winter	3	300	57.060	0.010	0.2	0.0023	0.0000	OK
600 minute winter	4	300	56.596	0.021	0.8	0.0034	0.0000	OK
600 minute winter	5	255	57.312	0.012	0.2	0.0031	0.0000	OK
600 minute winter	6	255	57.190	0.009	0.3	0.0022	0.0000	OK
600 minute winter	7	300	56.510	0.027	1.2	0.0053	0.0000	OK
600 minute winter	8	300	56.430	0.026	1.2	0.0041	0.0000	OK
600 minute winter	9	300	57.310	0.010	0.2	0.0023	0.0000	OK
600 minute winter	10	300	57.018	0.007	0.2	0.0011	0.0000	OK
600 minute winter	11	300	56.375	0.053	1.3	0.0603	0.0000	OK
600 minute winter	12	15	56.005	0.000	1.3	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 winter	1	1.000	2	0.5	0.415	0.028	0.0285	
600 minute winter	2	1.001	4	0.6	0.419	0.032	0.0183	
600 minute winter	3	2.000	4	0.2	0.227	0.008	0.0222	
600 minute winter	4	1.002	7	0.8	0.423	0.043	0.0166	
600 minute winter	5	3.000	6	0.2	0.369	0.011	0.0065	
600 minute winter	6	3.001	7	0.3	0.281	0.008	0.0187	
600 minute winter	7	1.003	8	1.2	0.559	0.065	0.0163	
600 minute winter	8	1.004	11	1.1	0.313	0.065	0.0308	
600 minute winter	9	4.000	10	0.2	0.539	0.007	0.0043	
600 minute winter	10	4.001	11	0.2	0.102	0.004	0.0200	
600 minute winter	11	Hydro-Brake®	12	1.3				18.0

Results for 30 year 720 minute summer. 960 minute analysis at 15 minute timestep. Mass balance: 99.36%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
720 minute summer	1	360	56.967	0.017	0.5	0.0078	0.0000	OK
720 minute summer	2	360	56.727	0.019	0.6	0.0040	0.0000	OK
720 minute summer	3	360	57.060	0.010	0.2	0.0023	0.0000	OK
720 minute summer	4	360	56.596	0.021	0.8	0.0034	0.0000	OK
720 minute summer	5	360	57.314	0.014	0.3	0.0038	0.0000	OK
720 minute summer	6	360	57.191	0.011	0.4	0.0024	0.0000	OK
720 minute summer	7	360	56.511	0.028	1.3	0.0055	0.0000	OK
720 minute summer	8	360	56.431	0.027	1.3	0.0043	0.0000	OK
720 minute summer	9	360	57.310	0.010	0.2	0.0023	0.0000	OK
720 minute summer	10	360	57.018	0.007	0.2	0.0011	0.0000	OK
720 minute summer	11	360	56.377	0.055	1.4	0.0627	0.0000	OK
720 minute summer	12	15	56.005	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)
720 minute summer	1	1.000	2	0.5	0.415	0.028	0.0287	
720 minute summer	2	1.001	4	0.6	0.421	0.033	0.0185	
720 minute summer	3	2.000	4	0.2	0.232	0.008	0.0224	
720 minute summer	4	1.002	7	0.8	0.414	0.044	0.0173	
720 minute summer	5	3.000	6	0.3	0.427	0.016	0.0083	
720 minute summer	6	3.001	7	0.4	0.295	0.010	0.0203	
720 minute summer	7	1.003	8	1.3	0.572	0.070	0.0173	
720 minute summer	8	1.004	11	1.2	0.322	0.070	0.0325	
720 minute summer	9	4.000	10	0.2	0.539	0.007	0.0043	
720 minute summer	10	4.001	11	0.2	0.104	0.004	0.0210	
720 minute summer	11	Hydro-Brake®	12	1.4				15.6

Results for 30 year 720 minute winter. 960 minute analysis at 15 minute timestep. Mass balance: 98.21%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
720 minute winter	1	330	56.965	0.015	0.4	0.0070	0.0000	OK
720 minute winter	2	330	56.725	0.017	0.5	0.0036	0.0000	OK
720 minute winter	3	330	57.060	0.010	0.2	0.0023	0.0000	OK
720 minute winter	4	330	56.595	0.020	0.7	0.0032	0.0000	OK
720 minute winter	5	315	57.312	0.012	0.2	0.0031	0.0000	OK
720 minute winter	6	315	57.190	0.009	0.3	0.0022	0.0000	OK
720 minute winter	7	330	56.508	0.025	1.1	0.0050	0.0000	OK
720 minute winter	8	330	56.429	0.025	1.1	0.0039	0.0000	OK
720 minute winter	9	330	57.310	0.010	0.2	0.0023	0.0000	OK
720 minute winter	10	330	57.018	0.007	0.2	0.0011	0.0000	OK
720 minute winter	11	330	56.372	0.050	1.2	0.0578	0.0000	OK
720 minute winter	12	15	56.005	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)
720 minute winter	1	1.000	2	0.4	0.382	0.022	0.0247	
720 minute winter	2	1.001	4	0.5	0.387	0.027	0.0163	
720 minute winter	3	2.000	4	0.2	0.233	0.008	0.0206	
720 minute winter	4	1.002	7	0.7	0.398	0.037	0.0154	
720 minute winter	5	3.000	6	0.2	0.369	0.011	0.0065	
720 minute winter	6	3.001	7	0.3	0.284	0.008	0.0177	
720 minute winter	7	1.003	8	1.1	0.545	0.059	0.0153	
720 minute winter	8	1.004	11	1.0	0.304	0.059	0.0290	
720 minute winter	9	4.000	10	0.2	0.539	0.007	0.0043	
720 minute winter	10	4.001	11	0.2	0.110	0.004	0.0189	
720 minute winter	11	Hydro-Brake®	12	1.2				18.9

Results for 30 year 960 minute summer. 1200 minute analysis at 15 minute timestep. Mass balance: 98.55%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
960 minute summer	1	480	56.965	0.015	0.4	0.0070	0.0000	OK
960 minute summer	2	480	56.725	0.017	0.5	0.0036	0.0000	OK
960 minute summer	3	480	57.060	0.010	0.2	0.0023	0.0000	OK
960 minute summer	4	480	56.595	0.020	0.7	0.0032	0.0000	OK
960 minute summer	5	450	57.312	0.012	0.2	0.0031	0.0000	OK
960 minute summer	6	450	57.190	0.009	0.3	0.0022	0.0000	OK
960 minute summer	7	480	56.508	0.025	1.1	0.0050	0.0000	OK
960 minute summer	8	480	56.429	0.025	1.1	0.0039	0.0000	OK
960 minute summer	9	465	57.310	0.010	0.2	0.0023	0.0000	OK
960 minute summer	10	465	57.018	0.007	0.2	0.0011	0.0000	OK
960 minute summer	11	480	56.372	0.050	1.2	0.0578	0.0000	OK
960 minute summer	12	15	56.005	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 summer	1	1.000	2	0.4	0.383	0.022	0.0247	
960 minute summer	2	1.001	4	0.5	0.387	0.027	0.0163	
960 minute summer	3	2.000	4	0.2	0.233	0.008	0.0206	
960 minute summer	4	1.002	7	0.7	0.398	0.037	0.0154	
960 minute summer	5	3.000	6	0.2	0.369	0.011	0.0065	
960 minute summer	6	3.001	7	0.3	0.287	0.008	0.0178	
960 minute summer	7	1.003	8	1.1	0.545	0.059	0.0153	
960 minute summer	8	1.004	11	1.0	0.304	0.059	0.0290	
960 minute summer	9	4.000	10	0.2	0.539	0.007	0.0043	
960 minute summer	10	4.001	11	0.2	0.104	0.004	0.0189	
960 minute summer	11	Hydro-Brake®	12	1.2				15.5

Results for 30 year 960 minute winter. 1200 minute analysis at 15 minute timestep. Mass balance: 98.22%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
960 minute winter	1	435	56.964	0.014	0.3	0.0062	0.0000	OK
960 minute winter	2	435	56.724	0.016	0.4	0.0033	0.0000	OK
960 minute winter	3	330	57.057	0.007	0.1	0.0017	0.0000	OK
960 minute winter	4	555	56.592	0.017	0.5	0.0028	0.0000	OK
960 minute winter	5	435	57.311	0.011	0.2	0.0030	0.0000	OK
960 minute winter	6	435	57.189	0.009	0.3	0.0021	0.0000	OK
960 minute winter	7	555	56.506	0.023	0.9	0.0046	0.0000	OK
960 minute winter	8	555	56.427	0.023	0.9	0.0036	0.0000	OK
960 minute winter	9	300	57.307	0.007	0.1	0.0017	0.0000	OK
960 minute winter	10	330	57.016	0.005	0.1	0.0008	0.0000	OK
960 minute winter	11	555	56.366	0.044	1.0	0.0500	0.0000	OK
960 minute winter	12	15	56.005	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 winter	1	1.000	2	0.3	0.344	0.017	0.0212	
960 minute winter	2	1.001	4	0.4	0.384	0.023	0.0139	
960 minute winter	3	2.000	4	0.1	0.232	0.004	0.0159	
960 minute winter	4	1.002	7	0.5	0.360	0.028	0.0131	
960 minute winter	5	3.000	6	0.2	0.363	0.011	0.0063	
960 minute winter	6	3.001	7	0.3	0.275	0.007	0.0157	
960 minute winter	7	1.003	8	0.9	0.517	0.049	0.0134	
960 minute winter	8	1.004	11	0.9	0.303	0.049	0.0242	
960 minute winter	9	4.000	10	0.1	0.444	0.004	0.0026	
960 minute winter	10	4.001	11	0.1	0.104	0.002	0.0153	
960 minute winter	11	Hydro-Brake®	12	1.0				18.8

Results for 30 year 1440 minute summer. 1680 minute analysis at 30 minute timestep. Mass balance: 98.92%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
1440 minute summer	1	720	56.964	0.014	0.3	0.0062	0.0000	OK
1440 minute summer	2	780	56.724	0.016	0.4	0.0033	0.0000	OK
1440 minute summer	3	630	57.057	0.007	0.1	0.0017	0.0000	OK
1440 minute summer	4	780	56.592	0.017	0.5	0.0028	0.0000	OK
1440 minute summer	5	720	57.311	0.011	0.2	0.0030	0.0000	OK
1440 minute summer	6	720	57.189	0.009	0.3	0.0021	0.0000	OK
1440 minute summer	7	720	56.506	0.023	0.9	0.0046	0.0000	OK
1440 minute summer	8	720	56.427	0.023	0.9	0.0036	0.0000	OK
1440 minute summer	9	600	57.307	0.007	0.1	0.0017	0.0000	OK
1440 minute summer	10	630	57.016	0.005	0.1	0.0008	0.0000	OK
1440 minute summer	11	780	56.366	0.044	1.0	0.0502	0.0000	OK
1440 minute summer	12	30	56.005	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 summer	1	1.000	2	0.3	0.343	0.017	0.0212	
1440 minute summer	2	1.001	4	0.4	0.384	0.023	0.0139	
1440 minute summer	3	2.000	4	0.1	0.232	0.004	0.0159	
1440 minute summer	4	1.002	7	0.5	0.363	0.028	0.0130	
1440 minute summer	5	3.000	6	0.2	0.363	0.011	0.0063	
1440 minute summer	6	3.001	7	0.3	0.276	0.007	0.0157	
1440 minute summer	7	1.003	8	0.9	0.517	0.049	0.0133	
1440 minute summer	8	1.004	11	0.9	0.303	0.049	0.0242	
1440 minute summer	9	4.000	10	0.1	0.444	0.004	0.0026	
1440 minute summer	10	4.001	11	0.1	0.104	0.002	0.0154	
1440 minute summer	11	Hydro-Brake®	12	1.0				15.1

Results for 30 year 1440 minute winter. 1680 minute analysis at 30 minute timestep. Mass balance: 96.85%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
1440 minute winter	1	600	56.961	0.011	0.2	0.0051	0.0000	OK
1440 minute winter	2	600	56.719	0.011	0.2	0.0024	0.0000	OK
1440 minute winter	3	570	57.057	0.007	0.1	0.0017	0.0000	OK
1440 minute winter	4	600	56.588	0.013	0.3	0.0021	0.0000	OK
1440 minute winter	5	510	57.309	0.009	0.1	0.0023	0.0000	OK
1440 minute winter	6	510	57.186	0.006	0.1	0.0013	0.0000	OK
1440 minute winter	7	600	56.499	0.016	0.4	0.0031	0.0000	OK
1440 minute winter	8	600	56.419	0.015	0.4	0.0024	0.0000	OK
1440 minute winter	9	570	57.307	0.007	0.1	0.0017	0.0000	OK
1440 minute winter	10	570	57.016	0.005	0.1	0.0008	0.0000	OK
1440 minute winter	11	600	56.352	0.030	0.5	0.0342	0.0000	OK
1440 minute winter	12	30	56.005	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 winter	1	1.000	2	0.2	0.335	0.011	0.0142	
1440 minute winter	2	1.001	4	0.2	0.286	0.011	0.0089	
1440 minute winter	3	2.000	4	0.1	0.232	0.004	0.0118	
1440 minute winter	4	1.002	7	0.3	0.333	0.016	0.0079	
1440 minute winter	5	3.000	6	0.1	0.327	0.006	0.0037	
1440 minute winter	6	3.001	7	0.1	0.246	0.003	0.0085	
1440 minute winter	7	1.003	8	0.4	0.405	0.022	0.0075	
1440 minute winter	8	1.004	11	0.4	0.230	0.021	0.0140	
1440 minute winter	9	4.000	10	0.1	0.444	0.004	0.0026	
1440 minute winter	10	4.001	11	0.1	0.103	0.002	0.0092	
1440 minute winter	11	Hydro-Brake®	12	0.5				15.4

Results for 100 year +40% CC 15 minute summer. 255 minute analysis at 1 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
15 minute summer	1	16	57.207	0.257	7.7	0.1165	0.0000	SURCHARGED
15 minute summer	2	16	57.203	0.495	9.2	0.1059	0.0000	SURCHARGED
15 minute summer	3	15	57.207	0.157	3.8	0.0377	0.0000	SURCHARGED
15 minute summer	4	15	57.200	0.625	11.7	0.0994	0.0000	SURCHARGED
15 minute summer	5	10	57.352	0.052	4.1	0.0138	0.0000	OK
15 minute summer	6	10	57.218	0.038	5.6	0.0087	0.0000	OK
15 minute summer	7	16	57.198	0.715	11.4	0.1408	0.0000	SURCHARGED
15 minute summer	8	16	57.195	0.791	9.5	0.1257	0.0000	SURCHARGED
15 minute summer	9	10	57.339	0.039	3.6	0.0095	0.0000	OK
15 minute summer	10	16	57.192	0.181	3.6	0.0288	0.0000	SURCHARGED
15 minute summer	11	16	57.191	0.869	8.8	0.9973	0.0000	SURCHARGED
15 minute summer	12	1	56.005	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	7.7	0.868	0.433	0.4264	
15 minute summer	2	1.001	4	8.5	0.765	0.477	0.2335	
15 minute summer	3	2.000	4	3.6	0.590	0.137	0.3964	
15 minute summer	4	1.002	7	6.4	0.700	0.363	0.1614	
15 minute summer	5	3.000	6	4.1	0.914	0.229	0.0536	
15 minute summer	6	3.001	7	5.5	0.604	0.141	0.1539	
15 minute summer	7	1.003	8	9.5	0.872	0.535	0.1392	
15 minute summer	8	1.004	11	5.9	0.450	0.331	0.1443	
15 minute summer	9	4.000	10	3.6	1.274	0.127	0.1104	
15 minute summer	10	4.001	11	3.5	0.850	0.063	0.1221	
15 minute summer	11	Hydro-Brake®	12	5.0				10.4

Results for 100 year +40% CC 15 minute winter. 255 minute analysis at 1 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
15 minute winter	1	16	57.301	0.351	8.1	0.1592	0.0000	SURCHARGED
15 minute winter	2	16	57.301	0.593	9.6	0.1268	0.0000	SURCHARGED
15 minute winter	3	16	57.300	0.250	5.2	0.0601	0.0000	SURCHARGED
15 minute winter	4	16	57.300	0.725	10.1	0.1153	0.0000	SURCHARGED
15 minute winter	5	10	57.353	0.053	4.3	0.0141	0.0000	OK
15 minute winter	6	16	57.300	0.120	5.9	0.0274	0.0000	OK
15 minute winter	7	16	57.299	0.816	13.5	0.1607	0.0000	SURCHARGED
15 minute winter	8	16	57.294	0.890	8.3	0.1415	0.0000	SURCHARGED
15 minute winter	9	10	57.341	0.041	3.8	0.0097	0.0000	OK
15 minute winter	10	16	57.289	0.278	3.8	0.0442	0.0000	SURCHARGED
15 minute winter	11	16	57.289	0.967	9.1	1.1089	0.0000	SURCHARGED
15 minute winter	12	1	56.005	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	8.0	0.878	0.450	0.4264	
15 minute winter	2	1.001	4	6.7	0.798	0.376	0.2335	
15 minute winter	3	2.000	4	3.8	0.594	0.145	0.3964	
15 minute winter	4	1.002	7	7.9	0.676	0.446	0.1614	
15 minute winter	5	3.000	6	4.3	0.926	0.240	0.1013	
15 minute winter	6	3.001	7	5.8	0.613	0.149	0.2385	
15 minute winter	7	1.003	8	8.3	0.853	0.465	0.1392	
15 minute winter	8	1.004	11	5.3	0.484	0.300	0.1443	
15 minute winter	9	4.000	10	3.8	1.293	0.134	0.1154	
15 minute winter	10	4.001	11	3.7	0.937	0.066	0.1221	
15 minute winter	11	Hydro-Brake®	12	5.0				11.7

Results for 100 year +40% CC 30 minute summer. 270 minute analysis at 1 minute timestep. Mass balance: 99.62%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
30 minute summer	1	24	57.274	0.324	7.1	0.1466	0.0000	SURCHARGED
30 minute summer	2	25	57.272	0.564	8.5	0.1208	0.0000	SURCHARGED
30 minute summer	3	25	57.272	0.222	4.9	0.0532	0.0000	SURCHARGED
30 minute summer	4	25	57.272	0.697	9.8	0.1108	0.0000	SURCHARGED
30 minute summer	5	18	57.350	0.050	3.8	0.0133	0.0000	OK
30 minute summer	6	25	57.270	0.090	5.2	0.0205	0.0000	OK
30 minute summer	7	25	57.270	0.787	11.2	0.1550	0.0000	SURCHARGED
30 minute summer	8	25	57.265	0.861	7.6	0.1369	0.0000	SURCHARGED
30 minute summer	9	18	57.338	0.038	3.3	0.0091	0.0000	OK
30 minute summer	10	26	57.261	0.250	4.2	0.0397	0.0000	SURCHARGED
30 minute summer	11	26	57.260	0.938	8.6	1.0763	0.0000	SURCHARGED
30 minute summer	12	1	56.005	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	7.1	0.853	0.398	0.4264	
30 minute summer	2	1.001	4	7.0	0.766	0.394	0.2335	
30 minute summer	3	2.000	4	3.3	0.524	0.127	0.3964	
30 minute summer	4	1.002	7	6.8	0.666	0.385	0.1614	
30 minute summer	5	3.000	6	3.8	0.898	0.214	0.0759	
30 minute summer	6	3.001	7	5.2	0.516	0.133	0.2086	
30 minute summer	7	1.003	8	7.6	0.796	0.428	0.1392	
30 minute summer	8	1.004	11	5.1	0.418	0.290	0.1443	
30 minute summer	9	4.000	10	3.3	1.246	0.119	0.1136	
30 minute summer	10	4.001	11	3.3	0.940	0.058	0.1221	
30 minute summer	11	Hydro-Brake®	12	5.0				14.1

Results for 100 year +40% CC 30 minute winter. 270 minute analysis at 1 minute timestep. Mass balance: 99.71%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
30 minute winter	1	26	57.373	0.423	6.4	0.1917	0.0000	SURCHARGED
30 minute winter	2	26	57.371	0.663	7.6	0.1418	0.0000	SURCHARGED
30 minute winter	3	27	57.371	0.321	3.0	0.0771	0.0000	SURCHARGED
30 minute winter	4	26	57.369	0.794	8.4	0.1263	0.0000	SURCHARGED
30 minute winter	5	27	57.368	0.068	3.4	0.0182	0.0000	OK
30 minute winter	6	27	57.368	0.188	4.7	0.0428	0.0000	SURCHARGED
30 minute winter	7	27	57.367	0.884	10.1	0.1741	0.0000	SURCHARGED
30 minute winter	8	27	57.361	0.957	6.8	0.1522	0.0000	SURCHARGED
30 minute winter	9	27	57.358	0.058	3.0	0.0139	0.0000	OK
30 minute winter	10	27	57.357	0.346	3.0	0.0550	0.0000	SURCHARGED
30 minute winter	11	27	57.356	1.034	8.0	1.1861	0.0000	FLOOD RISK
30 minute winter	12	1	56.005	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	6.3	0.820	0.357	0.4264	
30 minute winter	2	1.001	4	6.0	0.735	0.335	0.2335	
30 minute winter	3	2.000	4	3.0	0.485	0.116	0.3964	
30 minute winter	4	1.002	7	5.3	0.641	0.298	0.1614	
30 minute winter	5	3.000	6	3.4	0.869	0.192	0.1526	
30 minute winter	6	3.001	7	4.7	0.486	0.120	0.2564	
30 minute winter	7	1.003	8	6.8	0.788	0.385	0.1392	
30 minute winter	8	1.004	11	4.9	0.432	0.275	0.1443	
30 minute winter	9	4.000	10	3.0	1.214	0.106	0.1378	
30 minute winter	10	4.001	11	3.0	0.960	0.053	0.1221	
30 minute winter	11	Hydro-Brake®	12	5.0				15.7

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	43	57.255	0.305	5.4	0.1382	0.0000	SURCHARGED
60 minute summer	2	43	57.254	0.546	6.5	0.1168	0.0000	SURCHARGED
60 minute summer	3	43	57.253	0.203	3.3	0.0487	0.0000	SURCHARGED
60 minute summer	4	43	57.252	0.677	7.1	0.1077	0.0000	SURCHARGED
60 minute summer	5	33	57.343	0.043	2.9	0.0115	0.0000	OK
60 minute summer	6	43	57.250	0.070	4.0	0.0160	0.0000	OK
60 minute summer	7	43	57.250	0.767	8.8	0.1511	0.0000	SURCHARGED
60 minute summer	8	43	57.246	0.842	6.4	0.1338	0.0000	SURCHARGED
60 minute summer	9	33	57.333	0.033	2.5	0.0079	0.0000	OK
60 minute summer	10	43	57.241	0.230	2.5	0.0366	0.0000	SURCHARGED
60 minute summer	11	43	57.241	0.919	7.4	1.0542	0.0000	SURCHARGED
60 minute summer	12	1	56.005	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	5.4	0.790	0.304	0.4264	
60 minute summer	2	1.001	4	5.0	0.731	0.284	0.2335	
60 minute summer	3	2.000	4	2.5	0.455	0.097	0.3964	
60 minute summer	4	1.002	7	5.3	0.648	0.297	0.1614	
60 minute summer	5	3.000	6	2.9	0.832	0.163	0.0579	
60 minute summer	6	3.001	7	4.0	0.527	0.102	0.1870	
60 minute summer	7	1.003	8	6.4	0.799	0.361	0.1392	
60 minute summer	8	1.004	11	4.8	0.403	0.268	0.1443	
60 minute summer	9	4.000	10	2.5	1.153	0.089	0.1111	
60 minute summer	10	4.001	11	2.5	0.762	0.044	0.1221	
60 minute summer	11	Hydro-Brake®	12	5.0				17.8

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	46	57.339	0.389	4.4	0.1763	0.0000	SURCHARGED
60 minute winter	2	46	57.338	0.630	5.3	0.1348	0.0000	SURCHARGED
60 minute winter	3	46	57.337	0.287	2.0	0.0688	0.0000	SURCHARGED
60 minute winter	4	46	57.336	0.761	6.2	0.1211	0.0000	SURCHARGED
60 minute winter	5	32	57.338	0.038	2.3	0.0102	0.0000	OK
60 minute winter	6	45	57.335	0.155	3.2	0.0354	0.0000	SURCHARGED
60 minute winter	7	46	57.334	0.851	7.5	0.1677	0.0000	SURCHARGED
60 minute winter	8	46	57.329	0.925	5.9	0.1471	0.0000	SURCHARGED
60 minute winter	9	32	57.329	0.029	2.0	0.0070	0.0000	OK
60 minute winter	10	46	57.324	0.313	2.0	0.0497	0.0000	SURCHARGED
60 minute winter	11	46	57.324	1.002	6.6	1.1488	0.0000	FLOOD RISK
60 minute winter	12	1	56.005	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	4.4	0.755	0.246	0.4264	
60 minute winter	2	1.001	4	4.5	0.692	0.251	0.2335	
60 minute winter	3	2.000	4	2.0	0.522	0.077	0.3964	
60 minute winter	4	1.002	7	4.7	0.658	0.264	0.1614	
60 minute winter	5	3.000	6	2.3	0.777	0.130	0.1244	
60 minute winter	6	3.001	7	3.2	0.537	0.082	0.2564	
60 minute winter	7	1.003	8	5.9	0.785	0.333	0.1392	
60 minute winter	8	1.004	11	4.8	0.414	0.273	0.1443	
60 minute winter	9	4.000	10	2.0	1.081	0.073	0.1126	
60 minute winter	10	4.001	11	2.0	0.935	0.035	0.1221	
60 minute winter	11	Hydro-Brake®	12	5.0				20.3

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	76	57.108	0.158	3.6	0.0714	0.0000	SURCHARGED
120 minute summer	2	78	57.107	0.399	4.3	0.0853	0.0000	SURCHARGED
120 minute summer	3	78	57.106	0.056	1.7	0.0135	0.0000	OK
120 minute summer	4	78	57.106	0.531	5.1	0.0844	0.0000	SURCHARGED
120 minute summer	5	64	57.335	0.035	1.9	0.0093	0.0000	OK
120 minute summer	6	64	57.206	0.026	2.6	0.0060	0.0000	OK
120 minute summer	7	78	57.104	0.621	7.0	0.1223	0.0000	SURCHARGED
120 minute summer	8	78	57.100	0.696	5.3	0.1107	0.0000	SURCHARGED
120 minute summer	9	64	57.327	0.027	1.7	0.0065	0.0000	OK
120 minute summer	10	78	57.096	0.085	1.7	0.0135	0.0000	OK
120 minute summer	11	78	57.096	0.774	6.3	0.8878	0.0000	SURCHARGED
120 minute summer	12	2	56.005	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	3.6	0.717	0.203	0.4264	
120 minute summer	2	1.001	4	3.7	0.680	0.206	0.2335	
120 minute summer	3	2.000	4	1.7	0.427	0.066	0.2663	
120 minute summer	4	1.002	7	4.4	0.629	0.245	0.1614	
120 minute summer	5	3.000	6	1.9	0.738	0.107	0.0311	
120 minute summer	6	3.001	7	2.6	0.503	0.066	0.1432	
120 minute summer	7	1.003	8	5.3	0.765	0.297	0.1392	
120 minute summer	8	1.004	11	4.4	0.393	0.248	0.1443	
120 minute summer	9	4.000	10	1.7	1.031	0.060	0.0652	
120 minute summer	10	4.001	11	1.7	0.857	0.030	0.0968	
120 minute summer	11	Hydro-Brake®	12	5.0				22.3

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	82	57.086	0.136	2.7	0.0618	0.0000	OK
120 minute winter	2	82	57.085	0.377	3.2	0.0807	0.0000	SURCHARGED
120 minute winter	3	82	57.084	0.034	1.3	0.0081	0.0000	OK
120 minute winter	4	82	57.084	0.509	4.4	0.0809	0.0000	SURCHARGED
120 minute winter	5	64	57.331	0.031	1.5	0.0083	0.0000	OK
120 minute winter	6	64	57.203	0.023	2.0	0.0053	0.0000	OK
120 minute winter	7	82	57.082	0.599	5.9	0.1179	0.0000	SURCHARGED
120 minute winter	8	84	57.077	0.673	4.7	0.1070	0.0000	SURCHARGED
120 minute winter	9	64	57.324	0.024	1.3	0.0057	0.0000	OK
120 minute winter	10	84	57.073	0.062	1.3	0.0099	0.0000	OK
120 minute winter	11	84	57.073	0.751	5.6	0.8614	0.0000	SURCHARGED
120 minute winter	12	2	56.005	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	2.7	0.686	0.152	0.4169	
120 minute winter	2	1.001	4	3.2	0.645	0.178	0.2335	
120 minute winter	3	2.000	4	1.3	0.392	0.050	0.2313	
120 minute winter	4	1.002	7	3.7	0.635	0.208	0.1614	
120 minute winter	5	3.000	6	1.5	0.694	0.084	0.0261	
120 minute winter	6	3.001	7	2.0	0.440	0.051	0.1407	
120 minute winter	7	1.003	8	4.7	0.774	0.262	0.1392	
120 minute winter	8	1.004	11	4.3	0.391	0.241	0.1443	
120 minute winter	9	4.000	10	1.3	0.955	0.046	0.0454	
120 minute winter	10	4.001	11	1.3	0.853	0.023	0.0850	
120 minute winter	11	Hydro-Brake®	12	5.0				24.6

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	56.990	0.040	2.7	0.0179	0.0000	OK
180 minute summer	2	108	56.882	0.174	3.2	0.0373	0.0000	SURCHARGED
180 minute summer	3	96	57.072	0.022	1.2	0.0053	0.0000	OK
180 minute summer	4	108	56.880	0.305	4.3	0.0485	0.0000	SURCHARGED
180 minute summer	5	96	57.330	0.030	1.4	0.0080	0.0000	OK
180 minute summer	6	96	57.203	0.023	1.9	0.0051	0.0000	OK
180 minute summer	7	108	56.878	0.395	5.4	0.0778	0.0000	SURCHARGED
180 minute summer	8	108	56.872	0.468	4.8	0.0744	0.0000	SURCHARGED
180 minute summer	9	96	57.323	0.023	1.2	0.0055	0.0000	OK
180 minute summer	10	96	57.026	0.015	1.2	0.0024	0.0000	OK
180 minute summer	11	108	56.866	0.544	5.6	0.6240	0.0000	SURCHARGED
180 minute summer	12	4	56.005	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	2.7	0.685	0.152	0.2472	
180 minute summer	2	1.001	4	3.1	0.632	0.175	0.2335	
180 minute summer	3	2.000	4	1.2	0.355	0.046	0.2162	
180 minute summer	4	1.002	7	3.5	0.610	0.195	0.1614	
180 minute summer	5	3.000	6	1.4	0.678	0.079	0.0249	
180 minute summer	6	3.001	7	1.9	0.466	0.049	0.1402	
180 minute summer	7	1.003	8	4.8	0.767	0.268	0.1392	
180 minute summer	8	1.004	11	4.2	0.355	0.239	0.1443	
180 minute summer	9	4.000	10	1.2	0.932	0.043	0.0150	
180 minute summer	10	4.001	11	1.2	0.593	0.021	0.0643	
180 minute summer	11	Hydro-Brake®	12	5.0				24.7

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

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
180 minute winter	1	96	56.984	0.034	2.0	0.0154	0.0000	OK
180 minute winter	2	112	56.771	0.063	2.4	0.0135	0.0000	OK
180 minute winter	3	96	57.070	0.020	1.0	0.0048	0.0000	OK
180 minute winter	4	112	56.770	0.195	3.4	0.0310	0.0000	SURCHARGED
180 minute winter	5	96	57.327	0.027	1.1	0.0071	0.0000	OK
180 minute winter	6	96	57.200	0.020	1.5	0.0046	0.0000	OK
180 minute winter	7	112	56.767	0.284	5.0	0.0560	0.0000	SURCHARGED
180 minute winter	8	112	56.761	0.357	4.4	0.0568	0.0000	SURCHARGED
180 minute winter	9	96	57.321	0.021	1.0	0.0050	0.0000	OK
180 minute winter	10	96	57.025	0.014	1.0	0.0022	0.0000	OK
180 minute winter	11	112	56.755	0.433	5.2	0.4969	0.0000	SURCHARGED
180 minute winter	12	4	56.005	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 winter	1	1.000	2	2.0	0.628	0.113	0.1167	
180 minute winter	2	1.001	4	2.4	0.622	0.135	0.1633	
180 minute winter	3	2.000	4	1.0	0.439	0.039	0.2129	
180 minute winter	4	1.002	7	3.2	0.609	0.182	0.1614	
180 minute winter	5	3.000	6	1.1	0.631	0.062	0.0211	
180 minute winter	6	3.001	7	1.5	0.401	0.038	0.1384	
180 minute winter	7	1.003	8	4.4	0.748	0.246	0.1392	
180 minute winter	8	1.004	11	4.2	0.356	0.237	0.1443	
180 minute winter	9	4.000	10	1.0	0.884	0.035	0.0132	
180 minute winter	10	4.001	11	1.0	0.226	0.018	0.0639	
180 minute winter	11	Hydro-Brake®	12	5.0				28.0

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	56.986	0.036	2.2	0.0161	0.0000	OK
240 minute summer	2	124	56.747	0.039	2.6	0.0083	0.0000	OK
240 minute summer	3	124	57.070	0.020	1.0	0.0048	0.0000	OK
240 minute summer	4	136	56.733	0.158	3.6	0.0251	0.0000	SURCHARGED
240 minute summer	5	124	57.328	0.028	1.2	0.0074	0.0000	OK
240 minute summer	6	124	57.201	0.021	1.6	0.0047	0.0000	OK
240 minute summer	7	136	56.730	0.247	5.3	0.0486	0.0000	SURCHARGED
240 minute summer	8	136	56.724	0.320	4.6	0.0508	0.0000	SURCHARGED
240 minute summer	9	124	57.321	0.021	1.0	0.0050	0.0000	OK
240 minute summer	10	124	57.025	0.014	1.0	0.0022	0.0000	OK
240 minute summer	11	136	56.717	0.395	5.2	0.4533	0.0000	SURCHARGED
240 minute summer	12	4	56.005	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)
240 minute summer	1	1.000	2	2.2	0.647	0.123	0.0820	
240 minute summer	2	1.001	4	2.6	0.626	0.146	0.1375	
240 minute summer	3	2.000	4	1.0	0.377	0.039	0.2113	
240 minute summer	4	1.002	7	3.4	0.612	0.190	0.1614	
240 minute summer	5	3.000	6	1.2	0.649	0.067	0.0222	
240 minute summer	6	3.001	7	1.6	0.543	0.041	0.1387	
240 minute summer	7	1.003	8	4.6	0.748	0.259	0.1392	
240 minute summer	8	1.004	11	4.2	0.357	0.238	0.1443	
240 minute summer	9	4.000	10	1.0	0.884	0.035	0.0132	
240 minute summer	10	4.001	11	1.0	0.164	0.018	0.0639	
240 minute summer	11	Hydro-Brake®	12	5.0				25.9

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

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
240 minute winter	1	124	56.981	0.031	1.7	0.0141	0.0000	OK
240 minute winter	2	124	56.742	0.034	2.0	0.0072	0.0000	OK
240 minute winter	3	124	57.068	0.018	0.8	0.0044	0.0000	OK
240 minute winter	4	124	56.615	0.040	2.8	0.0064	0.0000	OK
240 minute winter	5	124	57.324	0.024	0.9	0.0064	0.0000	OK
240 minute winter	6	124	57.198	0.018	1.2	0.0041	0.0000	OK
240 minute winter	7	136	56.563	0.080	4.3	0.0157	0.0000	OK
240 minute winter	8	136	56.560	0.156	4.1	0.0249	0.0000	SURCHARGED
240 minute winter	9	124	57.319	0.019	0.8	0.0045	0.0000	OK
240 minute winter	10	124	57.024	0.013	0.8	0.0020	0.0000	OK
240 minute winter	11	136	56.555	0.233	4.9	0.2671	0.0000	SURCHARGED
240 minute winter	12	4	56.005	0.000	4.8	0.0000	0.0000	OK
Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
240 minute winter	1	1.000	2	1.7	0.603	0.095	0.0679	
240 minute winter	2	1.001	4	2.0	0.586	0.111	0.0448	
240 minute winter	3	2.000	4	0.8	0.337	0.031	0.0564	
240 minute winter	4	1.002	7	2.8	0.608	0.159	0.0607	
240 minute winter	5	3.000	6	0.9	0.597	0.051	0.0182	
240 minute winter	6	3.001	7	1.2	0.402	0.031	0.0781	
240 minute winter	7	1.003	8	4.1	0.752	0.233	0.1073	
240 minute winter	8	1.004	11	4.0	0.349	0.223	0.1443	
240 minute winter	9	4.000	10	0.8	0.827	0.028	0.0113	
240 minute winter	10	4.001	11	0.8	0.172	0.014	0.0635	
240 minute winter	11	Hydro-Brake®	12	4.8				29.9

Results for 100 year +40% CC 360 minute summer. 600 minute analysis at 8 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
360 minute summer	1	184	56.981	0.031	1.7	0.0142	0.0000	OK
360 minute summer	2	184	56.742	0.034	2.0	0.0072	0.0000	OK
360 minute summer	3	184	57.068	0.018	0.8	0.0043	0.0000	OK
360 minute summer	4	184	56.616	0.041	2.8	0.0065	0.0000	OK
360 minute summer	5	184	57.324	0.024	0.9	0.0064	0.0000	OK
360 minute summer	6	184	57.198	0.018	1.2	0.0041	0.0000	OK
360 minute summer	7	192	56.542	0.059	4.2	0.0116	0.0000	OK
360 minute summer	8	192	56.540	0.136	4.2	0.0217	0.0000	OK
360 minute summer	9	184	57.319	0.019	0.8	0.0045	0.0000	OK
360 minute summer	10	184	57.024	0.013	0.8	0.0020	0.0000	OK
360 minute summer	11	192	56.535	0.213	4.8	0.2447	0.0000	SURCHARGED
360 minute summer	12	8	56.005	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)
360 minute summer	1	1.000	2	1.7	0.603	0.095	0.0679	
360 minute summer	2	1.001	4	2.0	0.582	0.111	0.0454	
360 minute summer	3	2.000	4	0.8	0.326	0.031	0.0573	
360 minute summer	4	1.002	7	2.8	0.614	0.155	0.0464	
360 minute summer	5	3.000	6	0.9	0.596	0.050	0.0181	
360 minute summer	6	3.001	7	1.2	0.400	0.030	0.0551	
360 minute summer	7	1.003	8	4.2	0.726	0.238	0.0918	
360 minute summer	8	1.004	11	3.9	0.347	0.222	0.1410	
360 minute summer	9	4.000	10	0.8	0.826	0.028	0.0113	
360 minute summer	10	4.001	11	0.8	0.149	0.014	0.0635	
360 minute summer	11	Hydro-Brake®	12	4.7				29.0

Results for 100 year +40% CC 360 minute winter. 600 minute analysis at 8 minute timestep. Mass balance: 99.42%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
360 minute winter	1	192	56.976	0.026	1.2	0.0120	0.0000	OK
360 minute winter	2	192	56.736	0.028	1.4	0.0061	0.0000	OK
360 minute winter	3	192	57.066	0.016	0.6	0.0038	0.0000	OK
360 minute winter	4	192	56.609	0.034	2.0	0.0054	0.0000	OK
360 minute winter	5	192	57.321	0.021	0.7	0.0056	0.0000	OK
360 minute winter	6	192	57.195	0.015	0.9	0.0035	0.0000	OK
360 minute winter	7	192	56.527	0.044	3.0	0.0086	0.0000	OK
360 minute winter	8	200	56.446	0.042	3.0	0.0066	0.0000	OK
360 minute winter	9	184	57.316	0.016	0.6	0.0039	0.0000	OK
360 minute winter	10	192	57.022	0.011	0.6	0.0018	0.0000	OK
360 minute winter	11	200	56.430	0.108	3.7	0.1242	0.0000	OK
360 minute winter	12	8	56.005	0.000	3.7	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	1.2	0.546	0.068	0.0532	
360 minute winter	2	1.001	4	1.4	0.525	0.079	0.0354	
360 minute winter	3	2.000	4	0.6	0.330	0.023	0.0451	
360 minute winter	4	1.002	7	2.0	0.548	0.112	0.0334	
360 minute winter	5	3.000	6	0.7	0.551	0.038	0.0146	
360 minute winter	6	3.001	7	0.8	0.363	0.022	0.0379	
360 minute winter	7	1.003	8	3.0	0.730	0.169	0.0326	
360 minute winter	8	1.004	11	3.0	0.349	0.170	0.0722	
360 minute winter	9	4.000	10	0.6	0.759	0.021	0.0093	
360 minute winter	10	4.001	11	0.6	0.496	0.011	0.0490	
360 minute winter	11	Hydro-Brake®	12	3.7				30.7

Results for 100 year +40% CC 480 minute summer. 720 minute analysis at 8 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
480 minute summer	1	248	56.977	0.027	1.3	0.0124	0.0000	OK
480 minute summer	2	248	56.738	0.030	1.6	0.0065	0.0000	OK
480 minute summer	3	248	57.066	0.016	0.6	0.0038	0.0000	OK
480 minute summer	4	248	56.611	0.036	2.2	0.0057	0.0000	OK
480 minute summer	5	248	57.321	0.021	0.7	0.0057	0.0000	OK
480 minute summer	6	248	57.197	0.017	1.0	0.0038	0.0000	OK
480 minute summer	7	248	56.530	0.047	3.5	0.0093	0.0000	OK
480 minute summer	8	248	56.448	0.044	3.4	0.0071	0.0000	OK
480 minute summer	9	248	57.316	0.016	0.6	0.0039	0.0000	OK
480 minute summer	10	248	57.022	0.011	0.6	0.0017	0.0000	OK
480 minute summer	11	248	56.441	0.119	4.1	0.1369	0.0000	OK
480 minute summer	12	8	56.005	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)
480 minute summer	1	1.000	2	1.3	0.549	0.073	0.0573	
480 minute summer	2	1.001	4	1.6	0.554	0.089	0.0381	
480 minute summer	3	2.000	4	0.6	0.298	0.023	0.0472	
480 minute summer	4	1.002	7	2.2	0.548	0.122	0.0363	
480 minute summer	5	3.000	6	0.7	0.545	0.039	0.0155	
480 minute summer	6	3.001	7	1.0	0.367	0.025	0.0420	
480 minute summer	7	1.003	8	3.4	0.756	0.193	0.0359	
480 minute summer	8	1.004	11	3.4	0.348	0.192	0.0795	
480 minute summer	9	4.000	10	0.6	0.759	0.021	0.0092	
480 minute summer	10	4.001	11	0.6	0.149	0.011	0.0541	
480 minute summer	11	Hydro-Brake®	12	4.0				30.2

Results for 100 year +40% CC 480 minute winter. 720 minute analysis at 8 minute timestep. Mass balance: 99.49%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
480 minute winter	1	264	56.974	0.024	1.0	0.0109	0.0000	OK
480 minute winter	2	264	56.734	0.026	1.2	0.0056	0.0000	OK
480 minute winter	3	264	57.064	0.014	0.5	0.0034	0.0000	OK
480 minute winter	4	264	56.606	0.031	1.7	0.0049	0.0000	OK
480 minute winter	5	232	57.318	0.018	0.5	0.0048	0.0000	OK
480 minute winter	6	240	57.194	0.014	0.7	0.0032	0.0000	OK
480 minute winter	7	264	56.523	0.040	2.6	0.0079	0.0000	OK
480 minute winter	8	264	56.442	0.038	2.5	0.0061	0.0000	OK
480 minute winter	9	264	57.315	0.015	0.5	0.0035	0.0000	OK
480 minute winter	10	264	57.021	0.010	0.5	0.0016	0.0000	OK
480 minute winter	11	264	56.413	0.091	3.1	0.1043	0.0000	OK
480 minute winter	12	8	56.005	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)
480 minute winter	1	1.000	2	1.0	0.512	0.056	0.0473	
480 minute winter	2	1.001	4	1.2	0.513	0.068	0.0312	
480 minute winter	3	2.000	4	0.5	0.289	0.019	0.0392	
480 minute winter	4	1.002	7	1.7	0.521	0.093	0.0293	
480 minute winter	5	3.000	6	0.5	0.496	0.028	0.0122	
480 minute winter	6	3.001	7	0.7	0.336	0.018	0.0334	
480 minute winter	7	1.003	8	2.5	0.697	0.143	0.0289	
480 minute winter	8	1.004	11	2.5	0.351	0.143	0.0602	
480 minute winter	9	4.000	10	0.5	0.713	0.017	0.0080	
480 minute winter	10	4.001	11	0.5	0.259	0.008	0.0404	
480 minute winter	11	Hydro-Brake®	12	3.0				34.3

Results for 100 year +40% CC 600 minute summer. 840 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
600 minute summer	1	315	56.975	0.025	1.1	0.0114	0.0000	OK
600 minute summer	2	315	56.735	0.027	1.3	0.0058	0.0000	OK
600 minute summer	3	315	57.064	0.014	0.5	0.0035	0.0000	OK
600 minute summer	4	315	56.607	0.032	1.8	0.0051	0.0000	OK
600 minute summer	5	315	57.320	0.020	0.6	0.0053	0.0000	OK
600 minute summer	6	315	57.195	0.015	0.8	0.0034	0.0000	OK
600 minute summer	7	315	56.524	0.041	2.7	0.0082	0.0000	OK
600 minute summer	8	315	56.444	0.040	2.7	0.0063	0.0000	OK
600 minute summer	9	315	57.315	0.015	0.5	0.0036	0.0000	OK
600 minute summer	10	315	57.021	0.010	0.5	0.0016	0.0000	OK
600 minute summer	11	315	56.418	0.096	3.3	0.1103	0.0000	OK
600 minute summer	12	15	56.005	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)
600 minute summer	1	1.000	2	1.1	0.530	0.061	0.0499	
600 minute summer	2	1.001	4	1.3	0.521	0.072	0.0325	
600 minute summer	3	2.000	4	0.5	0.287	0.019	0.0405	
600 minute summer	4	1.002	7	1.7	0.525	0.098	0.0307	
600 minute summer	5	3.000	6	0.6	0.529	0.034	0.0136	
600 minute summer	6	3.001	7	0.8	0.346	0.020	0.0354	
600 minute summer	7	1.003	8	2.7	0.710	0.153	0.0303	
600 minute summer	8	1.004	11	2.7	0.351	0.152	0.0640	
600 minute summer	9	4.000	10	0.5	0.716	0.018	0.0081	
600 minute summer	10	4.001	11	0.5	0.104	0.009	0.0431	
600 minute summer	11	Hydro-Brake®	12	3.2				32.0

Results for 100 year +40% CC 600 minute winter. 840 minute analysis at 15 minute timestep. Mass balance: 98.91%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
600 minute winter	1	285	56.972	0.022	0.8	0.0098	0.0000	OK
600 minute winter	2	285	56.732	0.024	1.0	0.0051	0.0000	OK
600 minute winter	3	285	57.063	0.013	0.4	0.0031	0.0000	OK
600 minute winter	4	285	56.603	0.028	1.4	0.0045	0.0000	OK
600 minute winter	5	345	57.316	0.016	0.4	0.0044	0.0000	OK
600 minute winter	6	285	57.193	0.013	0.6	0.0030	0.0000	OK
600 minute winter	7	285	56.520	0.037	2.2	0.0072	0.0000	OK
600 minute winter	8	285	56.439	0.035	2.1	0.0056	0.0000	OK
600 minute winter	9	285	57.313	0.013	0.4	0.0032	0.0000	OK
600 minute winter	10	285	57.020	0.009	0.4	0.0014	0.0000	OK
600 minute winter	11	285	56.401	0.079	2.6	0.0911	0.0000	OK
600 minute winter	12	15	56.005	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)
600 minute winter	1	1.000	2	0.8	0.473	0.045	0.0408	
600 minute winter	2	1.001	4	1.0	0.483	0.055	0.0271	
600 minute winter	3	2.000	4	0.4	0.273	0.015	0.0339	
600 minute winter	4	1.002	7	1.4	0.490	0.077	0.0256	
600 minute winter	5	3.000	6	0.4	0.475	0.023	0.0106	
600 minute winter	6	3.001	7	0.6	0.314	0.015	0.0295	
600 minute winter	7	1.003	8	2.1	0.665	0.120	0.0254	
600 minute winter	8	1.004	11	2.1	0.344	0.120	0.0516	
600 minute winter	9	4.000	10	0.4	0.670	0.014	0.0069	
600 minute winter	10	4.001	11	0.4	0.110	0.007	0.0343	
600 minute winter	11	Hydro-Brake®	12	2.6				35.6

Results for 100 year +40% CC 720 minute summer. 960 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
720 minute summer	1	375	56.974	0.024	1.0	0.0109	0.0000	OK
720 minute summer	2	375	56.734	0.026	1.2	0.0056	0.0000	OK
720 minute summer	3	360	57.063	0.013	0.4	0.0031	0.0000	OK
720 minute summer	4	375	56.605	0.030	1.6	0.0048	0.0000	OK
720 minute summer	5	375	57.318	0.018	0.5	0.0048	0.0000	OK
720 minute summer	6	375	57.194	0.014	0.7	0.0032	0.0000	OK
720 minute summer	7	390	56.522	0.039	2.4	0.0077	0.0000	OK
720 minute summer	8	390	56.441	0.037	2.4	0.0059	0.0000	OK
720 minute summer	9	360	57.313	0.013	0.4	0.0032	0.0000	OK
720 minute summer	10	360	57.020	0.009	0.4	0.0015	0.0000	OK
720 minute summer	11	390	56.409	0.087	2.9	0.1000	0.0000	OK
720 minute summer	12	15	56.005	0.000	2.9	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
720 minute summer	1	1.000	2	1.0	0.511	0.055	0.0466	
720 minute summer	2	1.001	4	1.2	0.515	0.066	0.0300	
720 minute summer	3	2.000	4	0.4	0.273	0.015	0.0364	
720 minute summer	4	1.002	7	1.5	0.509	0.087	0.0280	
720 minute summer	5	3.000	6	0.5	0.494	0.028	0.0120	
720 minute summer	6	3.001	7	0.7	0.330	0.018	0.0323	
720 minute summer	7	1.003	8	2.4	0.688	0.136	0.0279	
720 minute summer	8	1.004	11	2.4	0.351	0.137	0.0575	
720 minute summer	9	4.000	10	0.4	0.671	0.014	0.0070	
720 minute summer	10	4.001	11	0.4	0.104	0.007	0.0384	
720 minute summer	11	Hydro-Brake®	12	2.9				32.1

Results for 100 year +40% CC 720 minute winter. 960 minute analysis at 15 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
720 minute winter	1	345	56.970	0.020	0.7	0.0092	0.0000	OK
720 minute winter	2	345	56.729	0.021	0.8	0.0046	0.0000	OK
720 minute winter	3	345	57.061	0.011	0.3	0.0027	0.0000	OK
720 minute winter	4	405	56.600	0.025	1.1	0.0040	0.0000	OK
720 minute winter	5	345	57.316	0.016	0.4	0.0043	0.0000	OK
720 minute winter	6	345	57.192	0.012	0.5	0.0027	0.0000	OK
720 minute winter	7	405	56.515	0.032	1.7	0.0063	0.0000	OK
720 minute winter	8	405	56.435	0.031	1.6	0.0049	0.0000	OK
720 minute winter	9	315	57.312	0.012	0.3	0.0028	0.0000	OK
720 minute winter	10	315	57.019	0.008	0.3	0.0013	0.0000	OK
720 minute winter	11	405	56.388	0.066	1.9	0.0753	0.0000	OK
720 minute winter	12	15	56.005	0.000	1.9	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)
720 minute winter	1	1.000	2	0.7	0.469	0.039	0.0357	
720 minute winter	2	1.001	4	0.8	0.453	0.044	0.0229	
720 minute winter	3	2.000	4	0.3	0.265	0.012	0.0285	
720 minute winter	4	1.002	7	1.1	0.464	0.060	0.0213	
720 minute winter	5	3.000	6	0.4	0.473	0.022	0.0100	
720 minute winter	6	3.001	7	0.5	0.306	0.012	0.0245	
720 minute winter	7	1.003	8	1.6	0.619	0.093	0.0211	
720 minute winter	8	1.004	11	1.6	0.337	0.093	0.0410	
720 minute winter	9	4.000	10	0.3	0.619	0.011	0.0057	
720 minute winter	10	4.001	11	0.3	0.104	0.005	0.0269	
720 minute winter	11	Hydro-Brake®	12	1.9				36.3

Results for 100 year +40% CC 960 minute summer. 1200 minute analysis at 15 minute timestep. Mass balance: 99.54%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
960 minute summer	1	480	56.972	0.022	0.8	0.0098	0.0000	OK
960 minute summer	2	480	56.732	0.024	1.0	0.0051	0.0000	OK
960 minute summer	3	480	57.063	0.013	0.4	0.0031	0.0000	OK
960 minute summer	4	480	56.603	0.028	1.4	0.0045	0.0000	OK
960 minute summer	5	510	57.316	0.016	0.4	0.0044	0.0000	OK
960 minute summer	6	480	57.193	0.013	0.6	0.0030	0.0000	OK
960 minute summer	7	480	56.520	0.037	2.2	0.0072	0.0000	OK
960 minute summer	8	480	56.439	0.035	2.1	0.0056	0.0000	OK
960 minute summer	9	480	57.313	0.013	0.4	0.0032	0.0000	OK
960 minute summer	10	480	57.020	0.009	0.4	0.0014	0.0000	OK
960 minute summer	11	480	56.401	0.079	2.6	0.0911	0.0000	OK
960 minute summer	12	15	56.005	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)
960 minute summer	1	1.000	2	0.8	0.473	0.045	0.0408	
960 minute summer	2	1.001	4	1.0	0.483	0.055	0.0271	
960 minute summer	3	2.000	4	0.4	0.273	0.015	0.0339	
960 minute summer	4	1.002	7	1.4	0.490	0.077	0.0256	
960 minute summer	5	3.000	6	0.4	0.475	0.023	0.0106	
960 minute summer	6	3.001	7	0.6	0.314	0.015	0.0295	
960 minute summer	7	1.003	8	2.1	0.665	0.120	0.0254	
960 minute summer	8	1.004	11	2.1	0.344	0.120	0.0516	
960 minute summer	9	4.000	10	0.4	0.670	0.014	0.0069	
960 minute summer	10	4.001	11	0.4	0.104	0.007	0.0343	
960 minute summer	11	Hydro-Brake®	12	2.6				32.5

Results for 100 year +40% CC 960 minute winter. 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 winter	1	465	56.969	0.019	0.6	0.0085	0.0000	OK
960 minute winter	2	465	56.728	0.020	0.7	0.0043	0.0000	OK
960 minute winter	3	465	57.061	0.011	0.3	0.0027	0.0000	OK
960 minute winter	4	465	56.599	0.024	1.0	0.0037	0.0000	OK
960 minute winter	5	450	57.314	0.014	0.3	0.0038	0.0000	OK
960 minute winter	6	450	57.191	0.011	0.4	0.0025	0.0000	OK
960 minute winter	7	465	56.513	0.030	1.5	0.0059	0.0000	OK
960 minute winter	8	465	56.433	0.029	1.4	0.0046	0.0000	OK
960 minute winter	9	465	57.312	0.012	0.3	0.0028	0.0000	OK
960 minute winter	10	465	57.019	0.008	0.3	0.0013	0.0000	OK
960 minute winter	11	465	56.383	0.061	1.7	0.0700	0.0000	OK
960 minute winter	12	15	56.005	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 winter	1	1.000	2	0.6	0.444	0.033	0.0320	
960 minute winter	2	1.001	4	0.7	0.426	0.038	0.0209	
960 minute winter	3	2.000	4	0.3	0.265	0.012	0.0267	
960 minute winter	4	1.002	7	1.0	0.451	0.054	0.0194	
960 minute winter	5	3.000	6	0.3	0.430	0.017	0.0084	
960 minute winter	6	3.001	7	0.4	0.295	0.010	0.0221	
960 minute winter	7	1.003	8	1.4	0.596	0.081	0.0191	
960 minute winter	8	1.004	11	1.4	0.323	0.081	0.0372	
960 minute winter	9	4.000	10	0.3	0.619	0.011	0.0057	
960 minute winter	10	4.001	11	0.3	0.104	0.005	0.0246	
960 minute winter	11	Hydro-Brake®	12	1.7				37.6

Results for 100 year +40% CC 1440 minute summer. 1680 minute analysis at 30 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
1440 minute summer	1	750	56.969	0.019	0.6	0.0085	0.0000	OK
1440 minute summer	2	750	56.728	0.020	0.7	0.0043	0.0000	OK
1440 minute summer	3	750	57.061	0.011	0.3	0.0027	0.0000	OK
1440 minute summer	4	750	56.599	0.024	1.0	0.0038	0.0000	OK
1440 minute summer	5	750	57.314	0.014	0.3	0.0038	0.0000	OK
1440 minute summer	6	750	57.191	0.011	0.4	0.0024	0.0000	OK
1440 minute summer	7	750	56.513	0.030	1.5	0.0059	0.0000	OK
1440 minute summer	8	750	56.433	0.029	1.5	0.0046	0.0000	OK
1440 minute summer	9	750	57.312	0.012	0.3	0.0028	0.0000	OK
1440 minute summer	10	750	57.019	0.008	0.3	0.0013	0.0000	OK
1440 minute summer	11	750	56.383	0.061	1.7	0.0700	0.0000	OK
1440 minute summer	12	30	56.005	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)
1440 minute summer	1	1.000	2	0.6	0.444	0.034	0.0325	
1440 minute summer	2	1.001	4	0.7	0.431	0.039	0.0212	
1440 minute summer	3	2.000	4	0.3	0.256	0.011	0.0270	
1440 minute summer	4	1.002	7	1.0	0.456	0.055	0.0197	
1440 minute summer	5	3.000	6	0.3	0.428	0.017	0.0083	
1440 minute summer	6	3.001	7	0.4	0.283	0.010	0.0222	
1440 minute summer	7	1.003	8	1.5	0.597	0.082	0.0192	
1440 minute summer	8	1.004	11	1.4	0.326	0.081	0.0373	
1440 minute summer	9	4.000	10	0.3	0.618	0.011	0.0057	
1440 minute summer	10	4.001	11	0.3	0.103	0.005	0.0246	
1440 minute summer	11	Hydro-Brake®	12	1.7				34.4

Results for 100 year +40% CC 1440 minute winter. 1680 minute analysis at 30 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
1440 minute winter	1	660	56.965	0.015	0.4	0.0070	0.0000	OK
1440 minute winter	2	660	56.725	0.017	0.5	0.0036	0.0000	OK
1440 minute winter	3	660	57.060	0.010	0.2	0.0023	0.0000	OK
1440 minute winter	4	660	56.595	0.020	0.7	0.0032	0.0000	OK
1440 minute winter	5	630	57.312	0.012	0.2	0.0031	0.0000	OK
1440 minute winter	6	630	57.190	0.009	0.3	0.0022	0.0000	OK
1440 minute winter	7	660	56.508	0.025	1.1	0.0050	0.0000	OK
1440 minute winter	8	660	56.429	0.025	1.1	0.0039	0.0000	OK
1440 minute winter	9	660	57.310	0.010	0.2	0.0023	0.0000	OK
1440 minute winter	10	660	57.018	0.007	0.2	0.0011	0.0000	OK
1440 minute winter	11	660	56.372	0.050	1.2	0.0578	0.0000	OK
1440 minute winter	12	30	56.005	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)
1440 minute winter	1	1.000	2	0.4	0.382	0.022	0.0247	
1440 minute winter	2	1.001	4	0.5	0.387	0.027	0.0163	
1440 minute winter	3	2.000	4	0.2	0.233	0.008	0.0206	
1440 minute winter	4	1.002	7	0.7	0.398	0.037	0.0154	
1440 minute winter	5	3.000	6	0.2	0.369	0.011	0.0065	
1440 minute winter	6	3.001	7	0.3	0.284	0.008	0.0177	
1440 minute winter	7	1.003	8	1.1	0.545	0.059	0.0153	
1440 minute winter	8	1.004	11	1.0	0.304	0.059	0.0290	
1440 minute winter	9	4.000	10	0.2	0.539	0.007	0.0043	
1440 minute winter	10	4.001	11	0.2	0.103	0.004	0.0189	
1440 minute winter	11	Hydro-Brake®	12	1.2				38.6