



Design Settings

Rainfall Methodology	FSR	Maximum Time of Concentration (mins)	30.00
Return Period (years)	2	Maximum Rainfall (mm/hr)	0.0
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)	0.900
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	0.071	5.00	27.467	450	381724.276	394488.689	1.125
2	0.034	5.00	27.885	450	381702.761	394505.087	1.691
3	0.054	5.00	27.783	450	381700.057	394495.305	1.690
4	0.012	5.00	27.495	1200	381686.934	394498.597	1.482
5	0.000		27.353	1200	381682.434	394498.295	1.367
6			27.258	1200	381669.607	394493.044	1.354

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	3	25.106	0.600	26.342	26.093	0.249	100.8	225	5.32	0.0
2.000	2	3	10.149	0.600	26.194	26.093	0.101	100.0	225	5.13	0.0
1.001	3	4	13.530	0.600	26.093	26.013	0.080	169.1	225	5.55	0.0
1.002	4	5	4.510	0.600	26.013	25.986	0.027	167.0	150	5.64	0.0
1.003	5	6	13.860	0.600	25.986	25.904	0.082	169.0	150	5.94	0.0

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	1.302	51.8	0.0	0.900	1.465	0.071	0.0	0	0.000
2.000	1.307	52.0	0.0	1.466	1.465	0.034	0.0	0	0.000
1.001	1.002	39.9	0.0	1.465	1.257	0.159	0.0	0	0.000
1.002	0.775	13.7	0.0	1.332	1.217	0.171	0.0	0	0.000
1.003	0.770	13.6	0.0	1.217	1.204	0.171	0.0	0	0.000

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	25.106	100.8	225	Circular_Default Sewer Type	27.467	26.342	0.900	27.783	26.093	1.465
2.000	10.149	100.0	225	Circular_Default Sewer Type	27.885	26.194	1.466	27.783	26.093	1.465
1.001	13.530	169.1	225	Circular_Default Sewer Type	27.783	26.093	1.465	27.495	26.013	1.257
1.002	4.510	167.0	150	Circular_Default Sewer Type	27.495	26.013	1.332	27.353	25.986	1.217
1.003	13.860	169.0	150	Circular_Default Sewer Type	27.353	25.986	1.217	27.258	25.904	1.204

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

Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)	
1	381724.276	394488.689	27.467	1.125	450	0 	0	1.000	26.342	225
2	381702.761	394505.087	27.885	1.691	450	0 	0	2.000	26.194	225
3	381700.057	394495.305	27.783	1.690	450	1 	1	2.000	26.093	225
						2 	2	1.000	26.093	225
						0 	0	1.001	26.093	225
4	381686.934	394498.597	27.495	1.482	1200	1 	1	1.001	26.013	225
						0 	0	1.002	26.013	150
5	381682.434	394498.295	27.353	1.367	1200	1 	1	1.002	25.986	150
						0 	0	1.003	25.986	150
6	381669.607	394493.044	27.258	1.354	1200	1 	1	1.003	25.904	150

Node 4 Online Hydro-Brake® Control

Flap Valve	x	Objective	(HE) Minimise upstream storage
Replaces Downstream Link	✓	Sump Available	✓
Invert Level (m)	26.013	Product Number	CTL-SHE-0100-5000-1400-5000
Design Depth (m)	1.400	Min Outlet Diameter (m)	0.150
Design Flow (l/s)	5.0	Min Node Diameter (mm)	1200

Node 3 Depth/Area Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Safety Factor	2.0	Invert Level (m)	26.093
Side Inf Coefficient (m/hr)	0.00000	Porosity	1.00	Time to half empty (mins)	0

Depth (m)	Area (m²)	Inf Area (m²)	Depth (m)	Area (m²)	Inf Area (m²)	Depth (m)	Area (m²)	Inf Area (m²)
0.000	60.0	0.0	1.000	60.0	0.0	1.001	0.0	0.0

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)	0.900	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 6 nodes (1 outfall) and 5 links
The total impermeable area is 0.171 ha
1 online control has been defined
1 structure has been defined, providing 60m³ of storage below the flood risk level
Infiltration has not been utilised
Simulations have been completed using FSR summer and winter storms from 15 to 1440 minute duration

3 manholes are smaller than that required by the library

Node	Required Dia (mm)	Actual Dia (mm)
1	1200	450
2	1200	450
3	1200	450

1 connection has 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
3	2.000	1.001	0.250	0.250	89	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)
1	3	1.000	Foul Network 1	1.000	381703.094	394494.475

No links have cover depth outside the range 0.900-3.000m

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)
4	5	1.002	0.775
5	6	1.003	0.770

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

US Node	DS Node	Link	Velocity (m/s)	Event
3	4	1.001	0.318	2 year 15 minute summer
5	6	1.003	0.685	2 year 60 minute winter

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

No nodes flood during the 30 year return period

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

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

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

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

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

The discharge volume test has not been completed

Rainfall

Event	Peak Intensity (mm/hr)	Average Intensity (mm/hr)	Event	Peak Intensity (mm/hr)	Average Intensity (mm/hr)
1 year 15 minute summer	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 +45% CC +10% A 15 minute summer	434.149	122.849
2 year 15 minute winter	86.101	34.718	100 year +45% CC +10% A 15 minute winter	304.666	122.849
2 year 30 minute summer	80.767	22.854	100 year +45% CC +10% A 30 minute summer	290.669	82.249
2 year 30 minute winter	56.678	22.854	100 year +45% CC +10% A 30 minute winter	203.979	82.249
2 year 60 minute summer	54.898	14.508	100 year +45% CC +10% A 60 minute summer	199.139	52.627
2 year 60 minute winter	36.473	14.508	100 year +45% CC +10% A 60 minute winter	132.303	52.627
2 year 120 minute summer	34.157	9.027	100 year +45% CC +10% A 120 minute summer	123.328	32.592
2 year 120 minute winter	22.693	9.027	100 year +45% CC +10% A 120 minute winter	81.936	32.592
2 year 180 minute summer	26.443	6.805	100 year +45% CC +10% A 180 minute summer	94.444	24.304
2 year 180 minute winter	17.188	6.805	100 year +45% CC +10% A 180 minute winter	61.391	24.304
2 year 240 minute summer	21.044	5.561	100 year +45% CC +10% A 240 minute summer	74.227	19.616
2 year 240 minute winter	13.981	5.561	100 year +45% CC +10% A 240 minute winter	49.314	19.616
2 year 360 minute summer	16.241	4.179	100 year +45% CC +10% A 360 minute summer	55.872	14.378
2 year 360 minute winter	10.557	4.179	100 year +45% CC +10% A 360 minute winter	36.318	14.378
2 year 480 minute summer	12.872	3.402	100 year +45% CC +10% A 480 minute summer	43.670	11.541
2 year 480 minute winter	8.552	3.402	100 year +45% CC +10% A 480 minute winter	29.014	11.541
2 year 600 minute summer	10.599	2.899	100 year +45% CC +10% A 600 minute summer	35.550	9.724
2 year 600 minute winter	7.242	2.899	100 year +45% CC +10% A 600 minute winter	24.290	9.724
2 year 720 minute summer	9.491	2.544	100 year +45% CC +10% A 720 minute summer	31.527	8.449
2 year 720 minute winter	6.379	2.544	100 year +45% CC +10% A 720 minute winter	21.188	8.449
2 year 960 minute summer	7.859	2.070	100 year +45% CC +10% A 960 minute summer	25.686	6.764
2 year 960 minute winter	5.206	2.070	100 year +45% CC +10% A 960 minute winter	17.015	6.764
2 year 1440 minute summer	5.773	1.547	100 year +45% CC +10% A 1440 minute summer	18.410	4.934
2 year 1440 minute winter	3.880	1.547	100 year +45% CC +10% A 1440 minute winter	12.373	4.934

Results for 1 year Critical Storm Duration. Lowest mass balance: 98.95%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	1	10	26.407	0.065	8.7	0.0918	0.0000	OK
15 minute winter	2	10	26.238	0.044	4.2	0.0247	0.0000	OK
60 minute winter	3	45	26.213	0.120	10.3	7.3149	0.0000	OK
60 minute winter	4	44	26.213	0.200	4.7	0.2588	0.0000	SURCHARGED
30 minute winter	5	25	26.046	0.060	4.4	0.0684	0.0000	OK
60 minute winter	6	45	25.962	0.058	4.4	0.0000	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute winter	1	1.000	3	8.7	1.125	0.168	0.2775	
15 minute winter	2	2.000	3	4.2	0.816	0.080	0.1018	
60 minute winter	3	1.001	4	4.2	0.261	0.105	0.3986	
60 minute winter	4	Hydro-Brake®	5	4.4				
30 minute winter	5	1.003	6	4.4	0.675	0.321	0.0897	12.4

Results for 2 year Critical Storm Duration. Lowest mass balance: 98.95%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	1	10	26.415	0.073	11.2	0.1031	0.0000	OK
60 minute winter	2	46	26.260	0.066	2.8	0.0370	0.0000	OK
60 minute winter	3	46	26.259	0.166	13.2	10.0725	0.0000	OK
60 minute winter	4	46	26.258	0.245	5.0	0.3165	0.0000	SURCHARGED
60 minute winter	5	47	26.048	0.062	4.6	0.0706	0.0000	OK
60 minute winter	6	47	25.964	0.060	4.6	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	3	11.2	1.153	0.217	0.3827	
60 minute winter	2	2.000	3	2.8	0.639	0.054	0.2082	
60 minute winter	3	1.001	4	4.4	0.262	0.110	0.4811	
60 minute winter	4	Hydro-Brake®	5	4.6				
60 minute winter	5	1.003	6	4.6	0.685	0.340	0.0936	20.7

Results for 30 year Critical Storm Duration. Lowest mass balance: 98.95%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute winter	1	52	26.483	0.141	11.2	0.2001	0.0000	OK
60 minute winter	2	52	26.482	0.288	5.4	0.1618	0.0000	SURCHARGED
60 minute winter	3	52	26.482	0.389	25.0	23.6772	0.0000	SURCHARGED
60 minute winter	4	52	26.481	0.468	5.4	0.6051	0.0000	SURCHARGED
60 minute winter	5	63	26.051	0.065	5.0	0.0738	0.0000	OK
60 minute winter	6	63	25.967	0.063	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)
60 minute winter	1	1.000	3	11.2	0.919	0.216	0.8273	
60 minute winter	2	2.000	3	5.3	0.723	0.102	0.4036	
60 minute winter	3	1.001	4	4.9	0.267	0.123	0.5381	
60 minute winter	4	Hydro-Brake®	5	5.0				
60 minute winter	5	1.003	6	5.0	0.699	0.368	0.0992	39.5

Results for 100 year +45% CC +10% A Critical Storm Duration. Lowest mass balance: 98.95%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
120 minute winter	1	86	27.467	1.125	14.8	1.7404	5.7893	FLOOD
120 minute winter	2	86	27.495	1.301	7.1	0.7821	0.0000	SURCHARGED
120 minute winter	3	86	27.492	1.399	32.0	61.2361	0.0000	FLOOD RISK
120 minute winter	4	86	27.495	1.482	7.3	1.9399	0.0721	FLOOD
120 minute winter	5	86	26.052	0.066	5.1	0.0743	0.0000	OK
120 minute winter	6	92	25.967	0.063	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)
120 minute winter	1	1.000	3	14.1	0.912	0.272	0.9985	
120 minute winter	2	2.000	3	6.6	0.670	0.127	0.4036	
120 minute winter	3	1.001	4	6.2	0.270	0.155	0.5381	
120 minute winter	4	Hydro-Brake®	5	5.1				
120 minute winter	5	1.003	6	5.0	0.700	0.371	0.0999	94.5

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	9	26.405	0.063	8.2	0.0902	0.0000	OK
15 minute summer	2	9	26.237	0.043	3.9	0.0239	0.0000	OK
15 minute summer	3	15	26.184	0.091	18.5	5.5584	0.0000	OK
15 minute summer	4	19	26.184	0.171	6.2	0.2216	0.0000	SURCHARGED
15 minute summer	5	15	26.045	0.059	4.2	0.0669	0.0000	OK
15 minute summer	6	15	25.961	0.057	4.2	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	1	1.000	3	8.3	1.146	0.160	0.2467	
15 minute summer	2	2.000	3	3.9	0.822	0.075	0.0877	
15 minute summer	3	1.001	4	5.6	0.312	0.139	0.3210	
15 minute summer	4	Hydro-Brake®	5	4.2				
15 minute summer	5	1.003	6	4.2	0.668	0.308	0.0871	8.4

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	26.407	0.065	8.7	0.0918	0.0000	OK
15 minute winter	2	10	26.238	0.044	4.2	0.0247	0.0000	OK
15 minute winter	3	16	26.197	0.104	19.4	6.3330	0.0000	OK
15 minute winter	4	17	26.200	0.187	5.9	0.2420	0.0000	SURCHARGED
15 minute winter	5	17	26.046	0.060	4.3	0.0676	0.0000	OK
15 minute winter	6	16	25.962	0.058	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 winter	1	1.000	3	8.7	1.125	0.168	0.2775	
15 minute winter	2	2.000	3	4.2	0.816	0.080	0.1018	
15 minute winter	3	1.001	4	5.5	0.307	0.138	0.3590	
15 minute winter	4	Hydro-Brake®	5	4.3				
15 minute winter	5	1.003	6	4.3	0.672	0.315	0.0885	9.4

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	17	26.401	0.059	7.5	0.0834	0.0000	OK
30 minute summer	2	17	26.234	0.040	3.6	0.0225	0.0000	OK
30 minute summer	3	24	26.199	0.106	16.9	6.4608	0.0000	OK
30 minute summer	4	25	26.203	0.190	5.8	0.2456	0.0000	SURCHARGED
30 minute summer	5	24	26.046	0.060	4.3	0.0677	0.0000	OK
30 minute summer	6	24	25.962	0.058	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)
30 minute summer	1	1.000	3	7.6	0.936	0.146	0.2806	
30 minute summer	2	2.000	3	3.6	0.669	0.069	0.1035	
30 minute summer	3	1.001	4	5.0	0.293	0.126	0.3662	
30 minute summer	4	Hydro-Brake®	5	4.3				
30 minute summer	5	1.003	6	4.3	0.672	0.315	0.0886	11.2

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	26.397	0.055	6.8	0.0778	0.0000	OK
30 minute winter	2	18	26.232	0.038	3.2	0.0212	0.0000	OK
30 minute winter	3	26	26.212	0.119	15.1	7.2059	0.0000	OK
30 minute winter	4	25	26.211	0.198	5.7	0.2559	0.0000	SURCHARGED
30 minute winter	5	25	26.046	0.060	4.4	0.0684	0.0000	OK
30 minute winter	6	25	25.962	0.058	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)
30 minute winter	1	1.000	3	6.8	0.872	0.131	0.3132	
30 minute winter	2	2.000	3	3.2	0.673	0.062	0.1176	
30 minute winter	3	1.001	4	4.9	0.287	0.122	0.3932	
30 minute winter	4	Hydro-Brake®	5	4.4				
30 minute winter	5	1.003	6	4.4	0.675	0.321	0.0897	12.4

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	26.392	0.050	5.7	0.0712	0.0000	OK
60 minute summer	2	33	26.229	0.035	2.7	0.0195	0.0000	OK
60 minute summer	3	41	26.204	0.111	12.7	6.7462	0.0000	OK
60 minute summer	4	42	26.205	0.192	5.0	0.2478	0.0000	SURCHARGED
60 minute summer	5	42	26.046	0.060	4.3	0.0678	0.0000	OK
60 minute summer	6	42	25.962	0.058	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	3	5.7	0.735	0.110	0.2878	
60 minute summer	2	2.000	3	2.7	0.585	0.052	0.1084	
60 minute summer	3	1.001	4	4.4	0.265	0.109	0.3756	
60 minute summer	4	Hydro-Brake®	5	4.3				
60 minute summer	5	1.003	6	4.3	0.672	0.316	0.0887	14.3

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	33	26.387	0.045	4.6	0.0641	0.0000	OK
60 minute winter	2	33	26.225	0.031	2.2	0.0177	0.0000	OK
60 minute winter	3	45	26.213	0.120	10.3	7.3149	0.0000	OK
60 minute winter	4	44	26.213	0.200	4.7	0.2588	0.0000	SURCHARGED
60 minute winter	5	45	26.046	0.060	4.4	0.0684	0.0000	OK
60 minute winter	6	45	25.962	0.058	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)
60 minute winter	1	1.000	3	4.6	0.762	0.089	0.3131	
60 minute winter	2	2.000	3	2.2	0.605	0.042	0.1191	
60 minute winter	3	1.001	4	4.2	0.261	0.105	0.3986	
60 minute winter	4	Hydro-Brake®	5	4.4				
60 minute winter	5	1.003	6	4.4	0.675	0.321	0.0897	16.1

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	26.383	0.041	3.8	0.0584	0.0000	OK
120 minute summer	2	64	26.223	0.029	1.8	0.0160	0.0000	OK
120 minute summer	3	76	26.193	0.100	8.5	6.0839	0.0000	OK
120 minute summer	4	76	26.193	0.180	4.4	0.2325	0.0000	SURCHARGED
120 minute summer	5	76	26.045	0.059	4.2	0.0671	0.0000	OK
120 minute summer	6	76	25.961	0.057	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)
120 minute summer	1	1.000	3	3.8	0.656	0.073	0.2529	
120 minute summer	2	2.000	3	1.8	0.522	0.035	0.0958	
120 minute summer	3	1.001	4	4.0	0.251	0.100	0.3455	
120 minute summer	4	Hydro-Brake®	5	4.2				
120 minute summer	5	1.003	6	4.2	0.669	0.310	0.0875	18.3

Results for 1 year 120 minute winter. 360 minute analysis at 2 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
120 minute winter	1	64	26.379	0.037	3.0	0.0520	0.0000	OK
120 minute winter	2	64	26.219	0.025	1.4	0.0143	0.0000	OK
120 minute winter	3	80	26.193	0.100	6.7	6.0874	0.0000	OK
120 minute winter	4	80	26.193	0.180	4.3	0.2322	0.0000	SURCHARGED
120 minute winter	5	80	26.045	0.059	4.2	0.0671	0.0000	OK
120 minute winter	6	82	25.961	0.057	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)
120 minute winter	1	1.000	3	3.0	0.647	0.058	0.2526	
120 minute winter	2	2.000	3	1.4	0.519	0.027	0.0957	
120 minute winter	3	1.001	4	4.0	0.249	0.100	0.3453	
120 minute winter	4	Hydro-Brake®	5	4.2				
120 minute winter	5	1.003	6	4.2	0.669	0.310	0.0874	20.5

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	26.378	0.036	2.9	0.0512	0.0000	OK
180 minute summer	2	96	26.219	0.025	1.4	0.0143	0.0000	OK
180 minute summer	3	108	26.179	0.086	6.5	5.2118	0.0000	OK
180 minute summer	4	108	26.178	0.165	4.1	0.2136	0.0000	SURCHARGED
180 minute summer	5	108	26.044	0.058	4.1	0.0660	0.0000	OK
180 minute summer	6	108	25.960	0.056	4.1	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
180 minute summer	1	1.000	3	2.9	0.584	0.056	0.2112	
180 minute summer	2	2.000	3	1.4	0.459	0.027	0.0795	
180 minute summer	3	1.001	4	3.9	0.247	0.097	0.3053	
180 minute summer	4	Hydro-Brake®	5	4.1				
180 minute summer	5	1.003	6	4.1	0.664	0.301	0.0856	20.7

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	26.374	0.032	2.3	0.0457	0.0000	OK
180 minute winter	2	96	26.217	0.023	1.1	0.0127	0.0000	OK
180 minute winter	3	112	26.172	0.079	5.1	4.7915	0.0000	OK
180 minute winter	4	112	26.171	0.158	4.0	0.2045	0.0000	SURCHARGED
180 minute winter	5	112	26.044	0.058	4.0	0.0653	0.0000	OK
180 minute winter	6	112	25.960	0.056	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)
180 minute winter	1	1.000	3	2.3	0.602	0.044	0.1919	
180 minute winter	2	2.000	3	1.1	0.437	0.021	0.0715	
180 minute winter	3	1.001	4	3.8	0.248	0.096	0.2855	
180 minute winter	4	Hydro-Brake®	5	4.0				
180 minute winter	5	1.003	6	4.0	0.660	0.296	0.0844	23.6

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

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
240 minute summer	1	124	26.375	0.033	2.5	0.0475	0.0000	OK
240 minute summer	2	124	26.218	0.024	1.2	0.0132	0.0000	OK
240 minute summer	3	136	26.168	0.075	5.6	4.5396	0.0000	OK
240 minute summer	4	136	26.167	0.154	4.0	0.1991	0.0000	SURCHARGED
240 minute summer	5	140	26.043	0.057	4.0	0.0647	0.0000	OK
240 minute summer	6	140	25.959	0.055	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)
240 minute summer	1	1.000	3	2.5	0.520	0.048	0.1813	
240 minute summer	2	2.000	3	1.2	0.462	0.023	0.0668	
240 minute summer	3	1.001	4	3.7	0.247	0.093	0.2737	
240 minute summer	4	Hydro-Brake®	5	4.0				
240 minute summer	5	1.003	6	4.0	0.658	0.291	0.0835	22.8

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

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
240 minute winter	1	124	26.371	0.029	1.9	0.0418	0.0000	OK
240 minute winter	2	120	26.215	0.021	0.9	0.0116	0.0000	OK
240 minute winter	3	140	26.157	0.064	4.2	3.8868	0.0000	OK
240 minute winter	4	140	26.156	0.143	3.8	0.1853	0.0000	OK
240 minute winter	5	140	26.041	0.055	3.7	0.0628	0.0000	OK
240 minute winter	6	140	25.958	0.054	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)
240 minute winter	1	1.000	3	1.9	0.579	0.037	0.1506	
240 minute winter	2	2.000	3	0.9	0.398	0.017	0.0554	
240 minute winter	3	1.001	4	3.5	0.248	0.088	0.2432	
240 minute winter	4	Hydro-Brake®	5	3.7				
240 minute winter	5	1.003	6	3.7	0.648	0.275	0.0801	26.0

Results for 1 year 360 minute summer. 600 minute analysis at 8 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
360 minute summer	1	184	26.372	0.030	2.0	0.0427	0.0000	OK
360 minute summer	2	184	26.215	0.021	0.9	0.0115	0.0000	OK
360 minute summer	3	200	26.151	0.058	4.4	3.5289	0.0000	OK
360 minute summer	4	200	26.150	0.137	3.6	0.1774	0.0000	OK
360 minute summer	5	200	26.040	0.054	3.6	0.0615	0.0000	OK
360 minute summer	6	200	25.956	0.052	3.6	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
360 minute summer	1	1.000	3	2.0	0.531	0.038	0.1342	
360 minute summer	2	2.000	3	0.9	0.410	0.017	0.0489	
360 minute summer	3	1.001	4	3.4	0.244	0.085	0.2263	
360 minute summer	4	Hydro-Brake®	5	3.6				
360 minute summer	5	1.003	6	3.6	0.642	0.265	0.0779	25.8

Results for 1 year 360 minute winter. 600 minute analysis at 8 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
360 minute winter	1	184	26.367	0.025	1.4	0.0362	0.0000	OK
360 minute winter	2	184	26.212	0.018	0.7	0.0103	0.0000	OK
360 minute winter	3	192	26.136	0.043	3.2	2.6335	0.0000	OK
360 minute winter	4	192	26.136	0.123	3.2	0.1586	0.0000	OK
360 minute winter	5	192	26.037	0.051	3.2	0.0579	0.0000	OK
360 minute winter	6	192	25.954	0.050	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)
360 minute winter	1	1.000	3	1.4	0.465	0.027	0.0978	
360 minute winter	2	2.000	3	0.7	0.441	0.013	0.0347	
360 minute winter	3	1.001	4	3.0	0.244	0.076	0.1857	
360 minute winter	4	Hydro-Brake®	5	3.2				
360 minute winter	5	1.003	6	3.2	0.623	0.237	0.0719	28.6

Results for 1 year 480 minute summer. 720 minute analysis at 8 minute timestep. Mass balance: 99.88%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
480 minute summer	1	248	26.369	0.027	1.6	0.0385	0.0000	OK
480 minute summer	2	248	26.214	0.020	0.8	0.0110	0.0000	OK
480 minute summer	3	256	26.142	0.049	3.6	2.9615	0.0000	OK
480 minute summer	4	256	26.141	0.128	3.4	0.1656	0.0000	OK
480 minute summer	5	256	26.038	0.052	3.4	0.0592	0.0000	OK
480 minute summer	6	256	25.955	0.051	3.4	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)
480 minute summer	1	1.000	3	1.6	0.431	0.031	0.1114	
480 minute summer	2	2.000	3	0.8	0.435	0.015	0.0400	
480 minute summer	3	1.001	4	3.2	0.246	0.079	0.2005	
480 minute summer	4	Hydro-Brake®	5	3.4				
480 minute summer	5	1.003	6	3.4	0.630	0.248	0.0741	28.5

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

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
480 minute winter	1	248	26.366	0.024	1.2	0.0336	0.0000	OK
480 minute winter	2	248	26.211	0.017	0.6	0.0096	0.0000	OK
480 minute winter	3	248	26.132	0.039	2.7	2.3491	0.0000	OK
480 minute winter	4	264	26.119	0.106	2.8	0.1370	0.0000	OK
480 minute winter	5	264	26.033	0.047	2.8	0.0533	0.0000	OK
480 minute winter	6	264	25.950	0.046	2.8	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
480 minute winter	1	1.000	3	1.2	0.436	0.023	0.0845	
480 minute winter	2	2.000	3	0.6	0.392	0.012	0.0299	
480 minute winter	3	1.001	4	2.6	0.243	0.065	0.1546	
480 minute winter	4	Hydro-Brake®	5	2.8				
480 minute winter	5	1.003	6	2.8	0.598	0.204	0.0643	31.8

Results for 1 year 600 minute summer. 840 minute analysis at 15 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
600 minute summer	1	315	26.367	0.025	1.3	0.0349	0.0000	OK
600 minute summer	2	315	26.211	0.017	0.6	0.0096	0.0000	OK
600 minute summer	3	315	26.133	0.040	2.9	2.4349	0.0000	OK
600 minute summer	4	315	26.125	0.112	3.0	0.1450	0.0000	OK
600 minute summer	5	315	26.035	0.049	3.0	0.0551	0.0000	OK
600 minute summer	6	315	25.951	0.047	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)
600 minute summer	1	1.000	3	1.3	0.384	0.025	0.0890	
600 minute summer	2	2.000	3	0.6	0.357	0.012	0.0311	
600 minute summer	3	1.001	4	2.8	0.243	0.070	0.1658	
600 minute summer	4	Hydro-Brake®	5	3.0				
600 minute summer	5	1.003	6	2.9	0.607	0.216	0.0672	29.9

Results for 1 year 600 minute winter. 840 minute analysis at 15 minute timestep. Mass balance: 99.82%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
600 minute winter	1	315	26.364	0.022	1.0	0.0308	0.0000	OK
600 minute winter	2	300	26.210	0.016	0.5	0.0088	0.0000	OK
600 minute winter	3	315	26.129	0.036	2.3	2.1697	0.0000	OK
600 minute winter	4	315	26.106	0.093	2.4	0.1201	0.0000	OK
600 minute winter	5	315	26.029	0.043	2.4	0.0492	0.0000	OK
600 minute winter	6	315	25.946	0.042	2.4	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)
600 minute winter	1	1.000	3	1.0	0.418	0.019	0.0749	
600 minute winter	2	2.000	3	0.5	0.429	0.010	0.0265	
600 minute winter	3	1.001	4	2.2	0.243	0.055	0.1318	
600 minute winter	4	Hydro-Brake®	5	2.4				
600 minute winter	5	1.003	6	2.4	0.573	0.175	0.0575	34.3

Results for 1 year 720 minute summer. 960 minute analysis at 15 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
720 minute summer	1	375	26.366	0.024	1.2	0.0336	0.0000	OK
720 minute summer	2	375	26.211	0.017	0.6	0.0096	0.0000	OK
720 minute summer	3	375	26.132	0.039	2.7	2.3498	0.0000	OK
720 minute summer	4	375	26.119	0.106	2.8	0.1365	0.0000	OK
720 minute summer	5	375	26.033	0.047	2.8	0.0532	0.0000	OK
720 minute summer	6	375	25.950	0.046	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)
720 minute summer	1	1.000	3	1.2	0.382	0.023	0.0845	
720 minute summer	2	2.000	3	0.6	0.370	0.012	0.0299	
720 minute summer	3	1.001	4	2.6	0.243	0.065	0.1543	
720 minute summer	4	Hydro-Brake®	5	2.8				
720 minute summer	5	1.003	6	2.8	0.597	0.203	0.0640	32.3

Results for 1 year 720 minute winter. 960 minute analysis at 15 minute timestep. Mass balance: 99.88%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
720 minute winter	1	375	26.363	0.021	0.9	0.0293	0.0000	OK
720 minute winter	2	360	26.208	0.014	0.4	0.0080	0.0000	OK
720 minute winter	3	375	26.126	0.033	2.0	2.0289	0.0000	OK
720 minute winter	4	375	26.094	0.081	2.0	0.1042	0.0000	OK
720 minute winter	5	375	26.026	0.040	2.0	0.0449	0.0000	OK
720 minute winter	6	375	25.943	0.039	2.0	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
720 minute winter	1	1.000	3	0.9	0.442	0.017	0.0685	
720 minute winter	2	2.000	3	0.4	0.323	0.008	0.0238	
720 minute winter	3	1.001	4	1.9	0.243	0.048	0.1111	
720 minute winter	4	Hydro-Brake®	5	2.0				
720 minute winter	5	1.003	6	2.0	0.546	0.147	0.0507	35.4

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

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
960 minute summer	1	495	26.364	0.022	1.0	0.0308	0.0000	OK
960 minute summer	2	495	26.210	0.016	0.5	0.0088	0.0000	OK
960 minute summer	3	495	26.128	0.035	2.2	2.1246	0.0000	OK
960 minute summer	4	495	26.103	0.090	2.3	0.1162	0.0000	OK
960 minute summer	5	495	26.029	0.043	2.3	0.0481	0.0000	OK
960 minute summer	6	495	25.945	0.041	2.3	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
960 minute summer	1	1.000	3	1.0	0.402	0.019	0.0734	
960 minute summer	2	2.000	3	0.5	0.209	0.010	0.0259	
960 minute summer	3	1.001	4	2.1	0.243	0.053	0.1264	
960 minute summer	4	Hydro-Brake®	5	2.3				
960 minute summer	5	1.003	6	2.3	0.567	0.168	0.0558	34.6

Results for 1 year 960 minute winter. 1200 minute analysis at 15 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
960 minute winter	1	465	26.360	0.018	0.7	0.0260	0.0000	OK
960 minute winter	2	420	26.206	0.012	0.3	0.0069	0.0000	OK
960 minute winter	3	465	26.122	0.029	1.5	1.7663	0.0000	OK
960 minute winter	4	465	26.078	0.065	1.5	0.0839	0.0000	OK
960 minute winter	5	465	26.021	0.034	1.5	0.0390	0.0000	OK
960 minute winter	6	465	25.938	0.034	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)
960 minute winter	1	1.000	3	0.7	0.464	0.013	0.0565	
960 minute winter	2	2.000	3	0.3	0.236	0.006	0.0194	
960 minute winter	3	1.001	4	1.4	0.239	0.036	0.0842	
960 minute winter	4	Hydro-Brake®	5	1.5				
960 minute winter	5	1.003	6	1.5	0.506	0.112	0.0417	38.2

Results for 1 year 1440 minute summer. 1680 minute analysis at 30 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
1440 minute summer	1	750	26.360	0.018	0.7	0.0260	0.0000	OK
1440 minute summer	2	720	26.206	0.012	0.3	0.0069	0.0000	OK
1440 minute summer	3	750	26.122	0.029	1.5	1.7660	0.0000	OK
1440 minute summer	4	750	26.078	0.065	1.5	0.0839	0.0000	OK
1440 minute summer	5	750	26.021	0.034	1.5	0.0390	0.0000	OK
1440 minute summer	6	750	25.938	0.034	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)
1440 minute summer	1	1.000	3	0.7	0.401	0.013	0.0564	
1440 minute summer	2	2.000	3	0.3	0.174	0.006	0.0194	
1440 minute summer	3	1.001	4	1.4	0.239	0.036	0.0842	
1440 minute summer	4	Hydro-Brake®	5	1.5				
1440 minute summer	5	1.003	6	1.5	0.506	0.112	0.0417	39.5

Results for 1 year 1440 minute winter. 1680 minute analysis at 30 minute timestep. Mass balance: 99.67%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
1440 minute winter	1	720	26.358	0.016	0.5	0.0224	0.0000	OK
1440 minute winter	2	750	26.206	0.012	0.3	0.0069	0.0000	OK
1440 minute winter	3	750	26.119	0.026	1.2	1.5882	0.0000	OK
1440 minute winter	4	750	26.068	0.055	1.2	0.0709	0.0000	OK
1440 minute winter	5	750	26.017	0.031	1.2	0.0351	0.0000	OK
1440 minute winter	6	750	25.934	0.030	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	3	0.5	0.454	0.010	0.0472	
1440 minute winter	2	2.000	3	0.3	0.184	0.006	0.0172	
1440 minute winter	3	1.001	4	1.1	0.237	0.029	0.0678	
1440 minute winter	4	Hydro-Brake®	5	1.2				
1440 minute winter	5	1.003	6	1.2	0.477	0.091	0.0359	43.2

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

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	1	10	26.414	0.072	10.7	0.1020	0.0000	OK
15 minute summer	2	10	26.243	0.049	5.1	0.0274	0.0000	OK
15 minute summer	3	16	26.216	0.123	23.9	7.4587	0.0000	OK
15 minute summer	4	16	26.223	0.210	7.1	0.2718	0.0000	SURCHARGED
15 minute summer	5	15	26.047	0.061	4.4	0.0688	0.0000	OK
15 minute summer	6	15	25.962	0.058	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 summer	1	1.000	3	10.8	1.184	0.208	0.3390	
15 minute summer	2	2.000	3	5.1	0.831	0.098	0.1235	
15 minute summer	3	1.001	4	5.7	0.318	0.142	0.4110	
15 minute summer	4	Hydro-Brake®	5	4.4				
15 minute summer	5	1.003	6	4.4	0.677	0.324	0.0904	11.1

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	26.415	0.073	11.2	0.1031	0.0000	OK
15 minute winter	2	10	26.243	0.049	5.4	0.0276	0.0000	OK
15 minute winter	3	17	26.233	0.140	25.2	8.4894	0.0000	OK
15 minute winter	4	16	26.238	0.225	6.7	0.2908	0.0000	SURCHARGED
15 minute winter	5	16	26.047	0.061	4.5	0.0693	0.0000	OK
15 minute winter	6	17	25.963	0.059	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)
15 minute winter	1	1.000	3	11.2	1.153	0.217	0.3827	
15 minute winter	2	2.000	3	5.5	0.825	0.106	0.1543	
15 minute winter	3	1.001	4	5.1	0.296	0.129	0.4436	
15 minute winter	4	Hydro-Brake®	5	4.5				
15 minute winter	5	1.003	6	4.5	0.680	0.329	0.0914	12.4

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	17	26.408	0.066	9.6	0.0935	0.0000	OK
30 minute summer	2	18	26.239	0.045	4.6	0.0253	0.0000	OK
30 minute summer	3	26	26.236	0.143	21.5	8.6852	0.0000	OK
30 minute summer	4	25	26.238	0.225	5.9	0.2904	0.0000	SURCHARGED
30 minute summer	5	24	26.048	0.062	4.5	0.0697	0.0000	OK
30 minute summer	6	24	25.963	0.059	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)
30 minute summer	1	1.000	3	9.6	0.949	0.186	0.3849	
30 minute summer	2	2.000	3	4.6	0.692	0.088	0.1621	
30 minute summer	3	1.001	4	4.6	0.289	0.114	0.4483	
30 minute summer	4	Hydro-Brake®	5	4.5				
30 minute summer	5	1.003	6	4.5	0.681	0.332	0.0919	14.6

Results for 2 year 30 minute winter. 1470 minute analysis at 1 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
30 minute winter	1	18	26.404	0.062	8.7	0.0881	0.0000	OK
30 minute winter	2	27	26.257	0.063	4.2	0.0354	0.0000	OK
30 minute winter	3	28	26.255	0.162	19.5	9.8273	0.0000	OK
30 minute winter	4	26	26.255	0.242	6.0	0.3133	0.0000	SURCHARGED
30 minute winter	5	28	26.048	0.062	4.6	0.0705	0.0000	OK
30 minute winter	6	28	25.964	0.060	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	3	8.7	0.923	0.168	0.4328	
30 minute winter	2	2.000	3	4.2	0.698	0.081	0.2011	
30 minute winter	3	1.001	4	4.7	0.287	0.118	0.4756	
30 minute winter	4	Hydro-Brake®	5	4.6				
30 minute winter	5	1.003	6	4.6	0.684	0.339	0.0933	16.3

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	33	26.399	0.057	7.3	0.0806	0.0000	OK
60 minute summer	2	43	26.243	0.049	3.5	0.0273	0.0000	OK
60 minute summer	3	42	26.242	0.149	16.3	9.0843	0.0000	OK
60 minute summer	4	43	26.242	0.229	5.2	0.2965	0.0000	SURCHARGED
60 minute summer	5	43	26.048	0.062	4.5	0.0699	0.0000	OK
60 minute summer	6	42	25.963	0.059	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)
60 minute summer	1	1.000	3	7.3	0.761	0.141	0.3963	
60 minute summer	2	2.000	3	3.5	0.633	0.067	0.1738	
60 minute summer	3	1.001	4	4.3	0.263	0.109	0.4584	
60 minute summer	4	Hydro-Brake®	5	4.5				
60 minute summer	5	1.003	6	4.5	0.682	0.334	0.0923	18.5

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

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute winter	1	33	26.393	0.051	5.9	0.0725	0.0000	OK
60 minute winter	2	46	26.260	0.066	2.8	0.0370	0.0000	OK
60 minute winter	3	46	26.259	0.166	13.2	10.0725	0.0000	OK
60 minute winter	4	46	26.258	0.245	5.0	0.3165	0.0000	SURCHARGED
60 minute winter	5	47	26.048	0.062	4.6	0.0706	0.0000	OK
60 minute winter	6	47	25.964	0.060	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)
60 minute winter	1	1.000	3	5.9	0.802	0.114	0.4379	
60 minute winter	2	2.000	3	2.8	0.639	0.054	0.2082	
60 minute winter	3	1.001	4	4.4	0.262	0.110	0.4811	
60 minute winter	4	Hydro-Brake®	5	4.6				
60 minute winter	5	1.003	6	4.6	0.685	0.340	0.0936	20.7

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	26.388	0.046	4.8	0.0654	0.0000	OK
120 minute summer	2	78	26.230	0.036	2.3	0.0202	0.0000	OK
120 minute summer	3	78	26.230	0.137	10.8	8.3388	0.0000	OK
120 minute summer	4	78	26.230	0.217	4.6	0.2800	0.0000	SURCHARGED
120 minute summer	5	78	26.047	0.061	4.5	0.0693	0.0000	OK
120 minute summer	6	78	25.963	0.059	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 summer	1	1.000	3	4.8	0.682	0.093	0.3595	
120 minute summer	2	2.000	3	2.3	0.519	0.044	0.1493	
120 minute summer	3	1.001	4	4.2	0.251	0.106	0.4370	
120 minute summer	4	Hydro-Brake®	5	4.5				
120 minute summer	5	1.003	6	4.5	0.679	0.329	0.0913	23.1

Results for 2 year 120 minute winter. 1560 minute analysis at 2 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
120 minute winter	1	64	26.383	0.041	3.7	0.0576	0.0000	OK
120 minute winter	2	84	26.234	0.040	1.8	0.0225	0.0000	OK
120 minute winter	3	82	26.235	0.142	8.3	8.6079	0.0000	OK
120 minute winter	4	82	26.234	0.221	4.5	0.2856	0.0000	SURCHARGED
120 minute winter	5	84	26.047	0.061	4.5	0.0695	0.0000	OK
120 minute winter	6	84	25.963	0.059	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	3	3.7	0.670	0.071	0.3705	
120 minute winter	2	2.000	3	1.8	0.551	0.035	0.1575	
120 minute winter	3	1.001	4	4.2	0.250	0.106	0.4457	
120 minute winter	4	Hydro-Brake®	5	4.5				
120 minute winter	5	1.003	6	4.5	0.680	0.331	0.0917	25.7

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	26.382	0.040	3.6	0.0569	0.0000	OK
180 minute summer	2	96	26.222	0.028	1.7	0.0156	0.0000	OK
180 minute summer	3	112	26.211	0.118	8.1	7.1693	0.0000	OK
180 minute summer	4	112	26.210	0.197	4.4	0.2550	0.0000	SURCHARGED
180 minute summer	5	112	26.046	0.060	4.4	0.0682	0.0000	OK
180 minute summer	6	112	25.962	0.058	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)
180 minute summer	1	1.000	3	3.6	0.602	0.070	0.3033	
180 minute summer	2	2.000	3	1.7	0.539	0.033	0.1163	
180 minute summer	3	1.001	4	4.1	0.246	0.103	0.3921	
180 minute summer	4	Hydro-Brake®	5	4.4				
180 minute summer	5	1.003	6	4.4	0.674	0.320	0.0895	26.2

Results for 2 year 180 minute winter. 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 winter	1	96	26.377	0.035	2.8	0.0503	0.0000	OK
180 minute winter	2	92	26.219	0.025	1.3	0.0138	0.0000	OK
180 minute winter	3	116	26.207	0.114	6.2	6.9382	0.0000	OK
180 minute winter	4	116	26.207	0.194	4.3	0.2502	0.0000	SURCHARGED
180 minute winter	5	116	26.046	0.060	4.3	0.0680	0.0000	OK
180 minute winter	6	116	25.962	0.058	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 winter	1	1.000	3	2.8	0.629	0.054	0.2918	
180 minute winter	2	2.000	3	1.3	0.494	0.025	0.1119	
180 minute winter	3	1.001	4	4.1	0.247	0.102	0.3825	
180 minute winter	4	Hydro-Brake®	5	4.3				
180 minute winter	5	1.003	6	4.3	0.673	0.318	0.0891	29.3

Results for 2 year 240 minute summer. 1680 minute analysis at 4 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
240 minute summer	1	124	26.379	0.037	3.1	0.0527	0.0000	OK
240 minute summer	2	124	26.220	0.026	1.5	0.0147	0.0000	OK
240 minute summer	3	140	26.196	0.103	7.0	6.2525	0.0000	OK
240 minute summer	4	140	26.195	0.182	4.3	0.2356	0.0000	SURCHARGED
240 minute summer	5	140	26.045	0.059	4.2	0.0673	0.0000	OK
240 minute summer	6	144	25.961	0.057	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)
240 minute summer	1	1.000	3	3.1	0.584	0.060	0.2595	
240 minute summer	2	2.000	3	1.5	0.459	0.029	0.0989	
240 minute summer	3	1.001	4	4.0	0.245	0.100	0.3526	
240 minute summer	4	Hydro-Brake®	5	4.2				
240 minute summer	5	1.003	6	4.2	0.670	0.312	0.0878	28.3

Results for 2 year 240 minute winter. 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 winter	1	124	26.374	0.032	2.3	0.0457	0.0000	OK
240 minute winter	2	120	26.217	0.023	1.1	0.0127	0.0000	OK
240 minute winter	3	148	26.184	0.091	5.2	5.5604	0.0000	OK
240 minute winter	4	148	26.184	0.171	4.2	0.2209	0.0000	SURCHARGED
240 minute winter	5	148	26.045	0.059	4.1	0.0664	0.0000	OK
240 minute winter	6	148	25.961	0.057	4.1	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
240 minute winter	1	1.000	3	2.3	0.555	0.044	0.2267	
240 minute winter	2	2.000	3	1.1	0.449	0.021	0.0859	
240 minute winter	3	1.001	4	3.9	0.246	0.098	0.3212	
240 minute winter	4	Hydro-Brake®	5	4.1				
240 minute winter	5	1.003	6	4.1	0.666	0.305	0.0864	31.9

Results for 2 year 360 minute summer. 1800 minute analysis at 8 minute timestep. Mass balance: 99.89%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
360 minute summer	1	184	26.375	0.033	2.4	0.0466	0.0000	OK
360 minute summer	2	184	26.218	0.024	1.2	0.0132	0.0000	OK
360 minute summer	3	200	26.173	0.080	5.4	4.8499	0.0000	OK
360 minute summer	4	200	26.172	0.159	4.0	0.2058	0.0000	SURCHARGED
360 minute summer	5	200	26.044	0.058	4.0	0.0654	0.0000	OK
360 minute summer	6	200	25.960	0.056	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)
360 minute summer	1	1.000	3	2.4	0.504	0.046	0.1944	
360 minute summer	2	2.000	3	1.2	0.380	0.023	0.0725	
360 minute summer	3	1.001	4	3.8	0.247	0.096	0.2883	
360 minute summer	4	Hydro-Brake®	5	4.0				
360 minute summer	5	1.003	6	4.0	0.661	0.297	0.0846	31.9

Results for 2 year 360 minute winter. 1800 minute analysis at 8 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
360 minute winter	1	184	26.370	0.028	1.7	0.0396	0.0000	OK
360 minute winter	2	176	26.214	0.020	0.8	0.0110	0.0000	OK
360 minute winter	3	208	26.154	0.061	3.8	3.6880	0.0000	OK
360 minute winter	4	208	26.153	0.140	3.7	0.1811	0.0000	OK
360 minute winter	5	208	26.041	0.055	3.7	0.0620	0.0000	OK
360 minute winter	6	208	25.957	0.053	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	3	1.7	0.554	0.033	0.1418	
360 minute winter	2	2.000	3	0.8	0.431	0.015	0.0520	
360 minute winter	3	1.001	4	3.4	0.245	0.085	0.2340	
360 minute winter	4	Hydro-Brake®	5	3.7				
360 minute winter	5	1.003	6	3.7	0.645	0.270	0.0789	35.8

Results for 2 year 480 minute summer. 1920 minute analysis at 8 minute timestep. Mass balance: 99.88%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
480 minute summer	1	248	26.371	0.029	1.9	0.0418	0.0000	OK
480 minute summer	2	248	26.215	0.021	0.9	0.0116	0.0000	OK
480 minute summer	3	264	26.155	0.062	4.2	3.7993	0.0000	OK
480 minute summer	4	264	26.155	0.142	3.7	0.1834	0.0000	OK
480 minute summer	5	264	26.041	0.055	3.7	0.0625	0.0000	OK
480 minute summer	6	264	25.957	0.053	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)
480 minute summer	1	1.000	3	1.9	0.531	0.037	0.1471	
480 minute summer	2	2.000	3	0.9	0.410	0.017	0.0536	
480 minute summer	3	1.001	4	3.5	0.244	0.087	0.2391	
480 minute summer	4	Hydro-Brake®	5	3.7				
480 minute summer	5	1.003	6	3.7	0.647	0.273	0.0796	34.3

Results for 2 year 480 minute winter. 1920 minute analysis at 8 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
480 minute winter	1	240	26.367	0.025	1.4	0.0362	0.0000	OK
480 minute winter	2	240	26.212	0.018	0.7	0.0103	0.0000	OK
480 minute winter	3	248	26.136	0.043	3.2	2.6302	0.0000	OK
480 minute winter	4	248	26.136	0.123	3.2	0.1586	0.0000	OK
480 minute winter	5	248	26.037	0.051	3.2	0.0579	0.0000	OK
480 minute winter	6	248	25.954	0.050	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)
480 minute winter	1	1.000	3	1.4	0.485	0.027	0.0977	
480 minute winter	2	2.000	3	0.7	0.451	0.013	0.0347	
480 minute winter	3	1.001	4	3.0	0.243	0.076	0.1856	
480 minute winter	4	Hydro-Brake®	5	3.2				
480 minute winter	5	1.003	6	3.2	0.623	0.237	0.0719	38.7

Results for 2 year 600 minute summer. 2040 minute analysis at 15 minute timestep. Mass balance: 99.88%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
600 minute summer	1	315	26.369	0.027	1.6	0.0385	0.0000	OK
600 minute summer	2	315	26.214	0.020	0.8	0.0110	0.0000	OK
600 minute summer	3	330	26.145	0.052	3.6	3.1540	0.0000	OK
600 minute summer	4	330	26.144	0.131	3.5	0.1696	0.0000	OK
600 minute summer	5	330	26.039	0.053	3.4	0.0600	0.0000	OK
600 minute summer	6	330	25.955	0.051	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)
600 minute summer	1	1.000	3	1.6	0.398	0.031	0.1189	
600 minute summer	2	2.000	3	0.8	0.357	0.015	0.0428	
600 minute summer	3	1.001	4	3.2	0.243	0.081	0.2091	
600 minute summer	4	Hydro-Brake®	5	3.4				
600 minute summer	5	1.003	6	3.5	0.634	0.254	0.0755	37.4

Results for 2 year 600 minute winter. 2040 minute analysis at 15 minute timestep. Mass balance: 99.74%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
600 minute winter	1	315	26.366	0.024	1.2	0.0336	0.0000	OK
600 minute winter	2	315	26.211	0.017	0.6	0.0096	0.0000	OK
600 minute winter	3	315	26.132	0.039	2.7	2.3468	0.0000	OK
600 minute winter	4	315	26.119	0.106	2.8	0.1365	0.0000	OK
600 minute winter	5	315	26.033	0.047	2.8	0.0532	0.0000	OK
600 minute winter	6	315	25.950	0.046	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)
600 minute winter	1	1.000	3	1.2	0.411	0.023	0.0843	
600 minute winter	2	2.000	3	0.6	0.399	0.012	0.0298	
600 minute winter	3	1.001	4	2.6	0.243	0.065	0.1542	
600 minute winter	4	Hydro-Brake®	5	2.8				
600 minute winter	5	1.003	6	2.8	0.597	0.203	0.0640	40.6

Results for 2 year 720 minute summer. 2160 minute analysis at 15 minute timestep. Mass balance: 99.92%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
720 minute summer	1	375	26.367	0.025	1.4	0.0362	0.0000	OK
720 minute summer	2	375	26.212	0.018	0.7	0.0103	0.0000	OK
720 minute summer	3	375	26.136	0.043	3.2	2.6339	0.0000	OK
720 minute summer	4	375	26.136	0.123	3.2	0.1586	0.0000	OK
720 minute summer	5	375	26.037	0.051	3.2	0.0579	0.0000	OK
720 minute summer	6	375	25.954	0.050	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)
720 minute summer	1	1.000	3	1.4	0.383	0.027	0.0978	
720 minute summer	2	2.000	3	0.7	0.357	0.013	0.0348	
720 minute summer	3	1.001	4	3.0	0.243	0.076	0.1857	
720 minute summer	4	Hydro-Brake®	5	3.2				
720 minute summer	5	1.003	6	3.2	0.623	0.237	0.0719	38.5

Results for 2 year 720 minute winter. 2160 minute analysis at 15 minute timestep. Mass balance: 99.52%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
720 minute winter	1	375	26.365	0.023	1.1	0.0321	0.0000	OK
720 minute winter	2	345	26.210	0.016	0.5	0.0088	0.0000	OK
720 minute winter	3	375	26.129	0.036	2.4	2.2139	0.0000	OK
720 minute winter	4	375	26.109	0.096	2.5	0.1240	0.0000	OK
720 minute winter	5	375	26.030	0.044	2.5	0.0502	0.0000	OK
720 minute winter	6	375	25.947	0.043	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)
720 minute winter	1	1.000	3	1.1	0.442	0.021	0.0781	
720 minute winter	2	2.000	3	0.5	0.323	0.010	0.0272	
720 minute winter	3	1.001	4	2.3	0.243	0.058	0.1371	
720 minute winter	4	Hydro-Brake®	5	2.5				
720 minute winter	5	1.003	6	2.5	0.579	0.182	0.0591	42.9

Results for 2 year 960 minute summer. 2400 minute analysis at 15 minute timestep. Mass balance: 99.89%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
960 minute summer	1	495	26.366	0.024	1.2	0.0336	0.0000	OK
960 minute summer	2	495	26.211	0.017	0.6	0.0096	0.0000	OK
960 minute summer	3	495	26.132	0.039	2.7	2.3499	0.0000	OK
960 minute summer	4	495	26.119	0.106	2.8	0.1366	0.0000	OK
960 minute summer	5	495	26.033	0.047	2.8	0.0532	0.0000	OK
960 minute summer	6	495	25.950	0.046	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)
960 minute summer	1	1.000	3	1.2	0.402	0.023	0.0845	
960 minute summer	2	2.000	3	0.6	0.236	0.012	0.0299	
960 minute summer	3	1.001	4	2.6	0.243	0.065	0.1543	
960 minute summer	4	Hydro-Brake®	5	2.8				
960 minute summer	5	1.003	6	2.8	0.597	0.203	0.0640	42.3

Results for 2 year 960 minute winter. 2400 minute analysis at 15 minute timestep. Mass balance: 99.89%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
960 minute winter	1	495	26.363	0.021	0.9	0.0293	0.0000	OK
960 minute winter	2	480	26.208	0.014	0.4	0.0080	0.0000	OK
960 minute winter	3	495	26.126	0.033	2.0	2.0289	0.0000	OK
960 minute winter	4	495	26.094	0.081	2.0	0.1042	0.0000	OK
960 minute winter	5	495	26.026	0.040	2.0	0.0449	0.0000	OK
960 minute winter	6	495	25.943	0.039	2.0	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
960 minute winter	1	1.000	3	0.9	0.442	0.017	0.0685	
960 minute winter	2	2.000	3	0.4	0.258	0.008	0.0238	
960 minute winter	3	1.001	4	1.9	0.243	0.048	0.1111	
960 minute winter	4	Hydro-Brake®	5	2.0				
960 minute winter	5	1.003	6	2.0	0.546	0.147	0.0507	47.2

Results for 2 year 1440 minute summer. 2880 minute analysis at 30 minute timestep. Mass balance: 99.79%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
1440 minute summer	1	750	26.363	0.021	0.9	0.0293	0.0000	OK
1440 minute summer	2	750	26.208	0.014	0.4	0.0080	0.0000	OK
1440 minute summer	3	750	26.126	0.033	1.9	1.9791	0.0000	OK
1440 minute summer	4	750	26.091	0.078	1.9	0.1003	0.0000	OK
1440 minute summer	5	750	26.025	0.039	1.9	0.0438	0.0000	OK
1440 minute summer	6	750	25.942	0.038	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)
1440 minute summer	1	1.000	3	0.9	0.346	0.017	0.0669	
1440 minute summer	2	2.000	3	0.4	0.186	0.008	0.0231	
1440 minute summer	3	1.001	4	1.8	0.243	0.046	0.1058	
1440 minute summer	4	Hydro-Brake®	5	1.9				
1440 minute summer	5	1.003	6	1.9	0.538	0.140	0.0489	46.8

Results for 2 year 1440 minute winter. 2880 minute analysis at 30 minute timestep. Mass balance: 99.11%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
1440 minute winter	1	690	26.359	0.017	0.6	0.0243	0.0000	OK
1440 minute winter	2	660	26.206	0.012	0.3	0.0069	0.0000	OK
1440 minute winter	3	720	26.121	0.028	1.4	1.7086	0.0000	OK
1440 minute winter	4	720	26.075	0.062	1.4	0.0796	0.0000	OK
1440 minute winter	5	720	26.019	0.033	1.4	0.0378	0.0000	OK
1440 minute winter	6	720	25.937	0.033	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)
1440 minute winter	1	1.000	3	0.6	0.454	0.012	0.0528	
1440 minute winter	2	2.000	3	0.3	0.184	0.006	0.0187	
1440 minute winter	3	1.001	4	1.3	0.239	0.034	0.0787	
1440 minute winter	4	Hydro-Brake®	5	1.4				
1440 minute winter	5	1.003	6	1.4	0.497	0.105	0.0398	52.0

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	26.441	0.099	20.2	0.1413	0.0000	OK
15 minute summer	2	16	26.348	0.154	9.7	0.0863	0.0000	OK
15 minute summer	3	17	26.348	0.255	45.0	15.5039	0.0000	SURCHARGED
15 minute summer	4	17	26.348	0.335	7.6	0.4326	0.0000	SURCHARGED
15 minute summer	5	18	26.051	0.065	4.9	0.0730	0.0000	OK
15 minute summer	6	18	25.966	0.062	4.9	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	1	1.000	3	20.1	1.258	0.388	0.6488	
15 minute summer	2	2.000	3	9.6	0.855	0.186	0.3485	
15 minute summer	3	1.001	4	5.0	0.298	0.124	0.5381	
15 minute summer	4	Hydro-Brake®	5	4.9				
15 minute summer	5	1.003	6	4.9	0.695	0.360	0.0977	20.7

Results for 30 year 15 minute winter. 255 minute analysis at 1 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	1	10	26.444	0.102	21.2	0.1442	0.0000	OK
15 minute winter	2	18	26.384	0.190	10.2	0.1067	0.0000	OK
15 minute winter	3	17	26.384	0.291	47.6	17.7101	0.0000	SURCHARGED
15 minute winter	4	18	26.383	0.370	6.7	0.4779	0.0000	SURCHARGED
15 minute winter	5	18	26.051	0.065	5.0	0.0735	0.0000	OK
15 minute winter	6	18	25.966	0.062	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	3	21.4	1.233	0.413	0.6797	
15 minute winter	2	2.000	3	10.1	0.903	0.195	0.3836	
15 minute winter	3	1.001	4	4.9	0.318	0.122	0.5381	
15 minute winter	4	Hydro-Brake®	5	5.0				
15 minute winter	5	1.003	6	5.0	0.697	0.364	0.0985	23.3

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

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
30 minute summer	1	18	26.434	0.092	18.3	0.1303	0.0000	OK
30 minute summer	2	30	26.405	0.211	8.8	0.1181	0.0000	OK
30 minute summer	3	31	26.405	0.312	40.6	18.9434	0.0000	SURCHARGED
30 minute summer	4	30	26.403	0.390	6.2	0.5044	0.0000	SURCHARGED
30 minute summer	5	31	26.051	0.065	5.0	0.0736	0.0000	OK
30 minute summer	6	31	25.966	0.062	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	3	18.3	0.998	0.354	0.6742	
30 minute summer	2	2.000	3	8.7	0.770	0.168	0.3980	
30 minute summer	3	1.001	4	4.9	0.281	0.122	0.5381	
30 minute summer	4	Hydro-Brake®	5	5.0				
30 minute summer	5	1.003	6	5.0	0.698	0.366	0.0989	27.6

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	31	26.450	0.108	16.6	0.1538	0.0000	OK
30 minute winter	2	31	26.450	0.256	7.9	0.1439	0.0000	SURCHARGED
30 minute winter	3	31	26.451	0.358	35.8	21.7441	0.0000	SURCHARGED
30 minute winter	4	31	26.449	0.436	6.7	0.5638	0.0000	SURCHARGED
30 minute winter	5	31	26.051	0.065	5.0	0.0738	0.0000	OK
30 minute winter	6	31	25.967	0.063	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	3	16.6	1.039	0.321	0.7362	
30 minute winter	2	2.000	3	7.4	0.790	0.142	0.4036	
30 minute winter	3	1.001	4	4.9	0.288	0.123	0.5381	
30 minute winter	4	Hydro-Brake®	5	5.0				
30 minute winter	5	1.003	6	5.0	0.699	0.367	0.0992	30.9

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	47	26.431	0.089	13.9	0.1262	0.0000	OK
60 minute summer	2	48	26.430	0.236	6.7	0.1326	0.0000	SURCHARGED
60 minute summer	3	48	26.430	0.337	30.3	20.5145	0.0000	SURCHARGED
60 minute summer	4	48	26.429	0.416	5.4	0.5379	0.0000	SURCHARGED
60 minute summer	5	50	26.051	0.065	5.0	0.0738	0.0000	OK
60 minute summer	6	50	25.967	0.063	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	3	13.9	0.895	0.269	0.6819	
60 minute summer	2	2.000	3	6.2	0.701	0.119	0.4036	
60 minute summer	3	1.001	4	4.9	0.260	0.123	0.5381	
60 minute summer	4	Hydro-Brake®	5	5.0				
60 minute summer	5	1.003	6	5.0	0.698	0.367	0.0991	35.1

Results for 30 year 60 minute winter. 300 minute analysis at 1 minute timestep. Mass balance: 99.92%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute winter	1	52	26.483	0.141	11.2	0.2001	0.0000	OK
60 minute winter	2	52	26.482	0.288	5.4	0.1618	0.0000	SURCHARGED
60 minute winter	3	52	26.482	0.389	25.0	23.6772	0.0000	SURCHARGED
60 minute winter	4	52	26.481	0.468	5.4	0.6051	0.0000	SURCHARGED
60 minute winter	5	63	26.051	0.065	5.0	0.0738	0.0000	OK
60 minute winter	6	63	25.967	0.063	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	3	11.2	0.919	0.216	0.8273	
60 minute winter	2	2.000	3	5.3	0.723	0.102	0.4036	
60 minute winter	3	1.001	4	4.9	0.267	0.123	0.5381	
60 minute winter	4	Hydro-Brake®	5	5.0				
60 minute winter	5	1.003	6	5.0	0.699	0.368	0.0992	39.5

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	84	26.425	0.083	9.1	0.1183	0.0000	OK
120 minute summer	2	84	26.425	0.231	4.4	0.1295	0.0000	SURCHARGED
120 minute summer	3	84	26.425	0.332	20.3	20.1754	0.0000	SURCHARGED
120 minute summer	4	84	26.423	0.410	5.2	0.5306	0.0000	SURCHARGED
120 minute summer	5	84	26.051	0.065	5.0	0.0737	0.0000	OK
120 minute summer	6	84	25.967	0.063	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	3	9.1	0.785	0.176	0.6667	
120 minute summer	2	2.000	3	4.2	0.630	0.082	0.4036	
120 minute summer	3	1.001	4	4.8	0.246	0.121	0.5381	
120 minute summer	4	Hydro-Brake®	5	5.0				
120 minute summer	5	1.003	6	5.0	0.698	0.367	0.0990	43.6

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

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
120 minute winter	1	90	26.469	0.127	7.1	0.1807	0.0000	OK
120 minute winter	2	90	26.469	0.275	3.4	0.1543	0.0000	SURCHARGED
120 minute winter	3	90	26.469	0.376	15.6	22.8597	0.0000	SURCHARGED
120 minute winter	4	90	26.468	0.455	5.2	0.5877	0.0000	SURCHARGED
120 minute winter	5	90	26.051	0.065	5.0	0.0738	0.0000	OK
120 minute winter	6	90	25.967	0.063	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	3	7.1	0.759	0.137	0.7896	
120 minute winter	2	2.000	3	3.1	0.611	0.059	0.4036	
120 minute winter	3	1.001	4	4.9	0.256	0.123	0.5381	
120 minute winter	4	Hydro-Brake®	5	5.0				
120 minute winter	5	1.003	6	5.0	0.699	0.368	0.0992	48.9

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

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
180 minute summer	1	116	26.400	0.058	6.8	0.0820	0.0000	OK
180 minute summer	2	120	26.401	0.207	3.3	0.1160	0.0000	OK
180 minute summer	3	120	26.400	0.307	15.2	18.6918	0.0000	SURCHARGED
180 minute summer	4	120	26.399	0.386	5.1	0.4991	0.0000	SURCHARGED
180 minute summer	5	120	26.051	0.065	5.0	0.0736	0.0000	OK
180 minute summer	6	120	25.966	0.062	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	3	6.8	0.725	0.131	0.6000	
180 minute summer	2	2.000	3	3.3	0.576	0.063	0.3958	
180 minute summer	3	1.001	4	4.8	0.251	0.119	0.5381	
180 minute summer	4	Hydro-Brake®	5	5.0				
180 minute summer	5	1.003	6	5.0	0.698	0.366	0.0988	48.7

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

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
180 minute winter	1	128	26.430	0.088	5.3	0.1255	0.0000	OK
180 minute winter	2	128	26.430	0.236	2.5	0.1325	0.0000	SURCHARGED
180 minute winter	3	128	26.430	0.337	11.5	20.4992	0.0000	SURCHARGED
180 minute winter	4	128	26.429	0.416	5.1	0.5375	0.0000	SURCHARGED
180 minute winter	5	128	26.051	0.065	5.0	0.0738	0.0000	OK
180 minute winter	6	128	25.967	0.063	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	3	5.3	0.705	0.102	0.6806	
180 minute winter	2	2.000	3	2.2	0.510	0.043	0.4036	
180 minute winter	3	1.001	4	4.8	0.242	0.119	0.5381	
180 minute winter	4	Hydro-Brake®	5	5.0				
180 minute winter	5	1.003	6	5.0	0.698	0.367	0.0991	54.8

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	26.392	0.050	5.8	0.0717	0.0000	OK
240 minute summer	2	152	26.375	0.181	2.8	0.1018	0.0000	OK
240 minute summer	3	152	26.375	0.282	12.9	17.1708	0.0000	SURCHARGED
240 minute summer	4	152	26.374	0.361	5.0	0.4667	0.0000	SURCHARGED
240 minute summer	5	152	26.051	0.065	4.9	0.0734	0.0000	OK
240 minute summer	6	152	25.966	0.062	4.9	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
240 minute summer	1	1.000	3	5.8	0.688	0.112	0.5717	
240 minute summer	2	2.000	3	2.8	0.521	0.053	0.3760	
240 minute summer	3	1.001	4	4.7	0.244	0.118	0.5381	
240 minute summer	4	Hydro-Brake®	5	4.9				
240 minute summer	5	1.003	6	4.9	0.697	0.363	0.0984	52.7

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

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
240 minute winter	1	164	26.389	0.047	4.3	0.0673	0.0000	OK
240 minute winter	2	164	26.389	0.195	2.1	0.1094	0.0000	OK
240 minute winter	3	164	26.389	0.296	9.5	17.9986	0.0000	SURCHARGED
240 minute winter	4	164	26.388	0.375	5.0	0.4843	0.0000	SURCHARGED
240 minute winter	5	164	26.051	0.065	5.0	0.0735	0.0000	OK
240 minute winter	6	164	25.966	0.062	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 winter	1	1.000	3	4.3	0.630	0.083	0.5753	
240 minute winter	2	2.000	3	2.0	0.494	0.038	0.3875	
240 minute winter	3	1.001	4	4.7	0.252	0.119	0.5381	
240 minute winter	4	Hydro-Brake®	5	5.0				
240 minute winter	5	1.003	6	5.0	0.697	0.365	0.0986	59.2

Results for 30 year 360 minute summer. 600 minute analysis at 8 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
360 minute summer	1	184	26.386	0.044	4.4	0.0625	0.0000	OK
360 minute summer	2	216	26.321	0.127	2.1	0.0713	0.0000	OK
360 minute summer	3	216	26.321	0.228	9.5	13.8635	0.0000	SURCHARGED
360 minute summer	4	216	26.320	0.307	4.9	0.3965	0.0000	SURCHARGED
360 minute summer	5	216	26.050	0.064	4.8	0.0725	0.0000	OK
360 minute summer	6	216	25.966	0.062	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)
360 minute summer	1	1.000	3	4.4	0.569	0.085	0.5451	
360 minute summer	2	2.000	3	1.8	0.420	0.035	0.3191	
360 minute summer	3	1.001	4	4.6	0.245	0.115	0.5381	
360 minute summer	4	Hydro-Brake®	5	4.8				
360 minute summer	5	1.003	6	4.8	0.693	0.356	0.0968	58.7

Results for 30 year 360 minute winter. 600 minute analysis at 8 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
360 minute winter	1	184	26.380	0.038	3.2	0.0536	0.0000	OK
360 minute winter	2	232	26.309	0.115	1.5	0.0644	0.0000	OK
360 minute winter	3	232	26.309	0.216	7.0	13.1124	0.0000	OK
360 minute winter	4	232	26.307	0.294	4.8	0.3804	0.0000	SURCHARGED
360 minute winter	5	232	26.050	0.064	4.8	0.0722	0.0000	OK
360 minute winter	6	232	25.965	0.061	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)
360 minute winter	1	1.000	3	3.2	0.570	0.062	0.5337	
360 minute winter	2	2.000	3	1.5	0.502	0.029	0.3021	
360 minute winter	3	1.001	4	4.5	0.243	0.114	0.5341	
360 minute winter	4	Hydro-Brake®	5	4.8				
360 minute winter	5	1.003	6	4.8	0.692	0.353	0.0963	65.6

Results for 30 year 480 minute summer. 720 minute analysis at 8 minute timestep. Mass balance: 99.95%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
480 minute summer	1	248	26.381	0.039	3.4	0.0553	0.0000	OK
480 minute summer	2	280	26.279	0.085	1.6	0.0474	0.0000	OK
480 minute summer	3	280	26.278	0.185	7.6	11.2726	0.0000	OK
480 minute summer	4	280	26.277	0.264	4.7	0.3419	0.0000	SURCHARGED
480 minute summer	5	280	26.049	0.063	4.7	0.0713	0.0000	OK
480 minute summer	6	280	25.965	0.061	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)
480 minute summer	1	1.000	3	3.4	0.567	0.066	0.4802	
480 minute summer	2	2.000	3	1.6	0.358	0.031	0.2468	
480 minute summer	3	1.001	4	4.4	0.243	0.111	0.5059	
480 minute summer	4	Hydro-Brake®	5	4.7				
480 minute summer	5	1.003	6	4.7	0.688	0.346	0.0948	62.8

Results for 30 year 480 minute winter. 720 minute analysis at 8 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
480 minute winter	1	248	26.376	0.034	2.6	0.0485	0.0000	OK
480 minute winter	2	288	26.249	0.055	1.2	0.0309	0.0000	OK
480 minute winter	3	288	26.249	0.156	5.7	9.5017	0.0000	OK
480 minute winter	4	288	26.249	0.236	4.6	0.3045	0.0000	SURCHARGED
480 minute winter	5	288	26.048	0.062	4.6	0.0702	0.0000	OK
480 minute winter	6	288	25.964	0.060	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)
480 minute winter	1	1.000	3	2.6	0.526	0.050	0.4094	
480 minute winter	2	2.000	3	1.2	0.398	0.023	0.1874	
480 minute winter	3	1.001	4	4.3	0.245	0.108	0.4682	
480 minute winter	4	Hydro-Brake®	5	4.6				
480 minute winter	5	1.003	6	4.6	0.683	0.336	0.0929	70.5

Results for 30 year 600 minute summer. 840 minute analysis at 15 minute timestep. Mass balance: 99.89%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
600 minute summer	1	315	26.377	0.035	2.8	0.0503	0.0000	OK
600 minute summer	2	345	26.245	0.051	1.3	0.0285	0.0000	OK
600 minute summer	3	345	26.244	0.151	6.2	9.2099	0.0000	OK
600 minute summer	4	345	26.244	0.231	4.6	0.2983	0.0000	SURCHARGED
600 minute summer	5	345	26.048	0.062	4.6	0.0700	0.0000	OK
600 minute summer	6	345	25.963	0.059	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)
600 minute summer	1	1.000	3	2.8	0.455	0.054	0.3962	
600 minute summer	2	2.000	3	1.3	0.253	0.025	0.1782	
600 minute summer	3	1.001	4	4.3	0.243	0.108	0.4614	
600 minute summer	4	Hydro-Brake®	5	4.6				
600 minute summer	5	1.003	6	4.6	0.682	0.335	0.0925	66.5

Results for 30 year 600 minute winter. 840 minute analysis at 15 minute timestep. Mass balance: 99.96%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
600 minute winter	1	315	26.374	0.032	2.2	0.0448	0.0000	OK
600 minute winter	2	300	26.216	0.022	1.0	0.0121	0.0000	OK
600 minute winter	3	345	26.207	0.114	4.8	6.9326	0.0000	OK
600 minute winter	4	360	26.206	0.193	4.3	0.2501	0.0000	SURCHARGED
600 minute winter	5	360	26.046	0.060	4.3	0.0680	0.0000	OK
600 minute winter	6	360	25.962	0.058	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)
600 minute winter	1	1.000	3	2.2	0.455	0.043	0.2916	
600 minute winter	2	2.000	3	1.0	0.327	0.019	0.1116	
600 minute winter	3	1.001	4	4.0	0.245	0.102	0.3823	
600 minute winter	4	Hydro-Brake®	5	4.3				
600 minute winter	5	1.003	6	4.3	0.673	0.318	0.0891	75.2

Results for 30 year 720 minute summer. 960 minute analysis at 15 minute timestep. Mass balance: 99.92%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
720 minute summer	1	375	26.376	0.034	2.5	0.0476	0.0000	OK
720 minute summer	2	405	26.218	0.024	1.2	0.0137	0.0000	OK
720 minute summer	3	405	26.219	0.126	5.6	7.6481	0.0000	OK
720 minute summer	4	405	26.218	0.205	4.4	0.2651	0.0000	SURCHARGED
720 minute summer	5	405	26.047	0.061	4.4	0.0687	0.0000	OK
720 minute summer	6	405	25.962	0.058	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)
720 minute summer	1	1.000	3	2.5	0.405	0.048	0.3220	
720 minute summer	2	2.000	3	1.2	0.281	0.023	0.1275	
720 minute summer	3	1.001	4	4.1	0.242	0.103	0.4114	
720 minute summer	4	Hydro-Brake®	5	4.4				
720 minute summer	5	1.003	6	4.4	0.676	0.324	0.0903	68.9

Results for 30 year 720 minute winter. 960 minute analysis at 15 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
720 minute winter	1	375	26.371	0.029	1.9	0.0418	0.0000	OK
720 minute winter	2	360	26.215	0.021	0.9	0.0116	0.0000	OK
720 minute winter	3	405	26.177	0.084	4.2	5.1219	0.0000	OK
720 minute winter	4	405	26.177	0.164	4.1	0.2116	0.0000	SURCHARGED
720 minute winter	5	405	26.044	0.058	4.1	0.0659	0.0000	OK
720 minute winter	6	405	25.960	0.056	4.1	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
720 minute winter	1	1.000	3	1.9	0.502	0.037	0.2064	
720 minute winter	2	2.000	3	0.9	0.376	0.017	0.0777	
720 minute winter	3	1.001	4	3.8	0.242	0.095	0.3009	
720 minute winter	4	Hydro-Brake®	5	4.1				
720 minute winter	5	1.003	6	4.1	0.663	0.300	0.0854	78.4

Results for 30 year 960 minute summer. 1200 minute analysis at 15 minute timestep. Mass balance: 99.90%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
960 minute summer	1	495	26.372	0.030	2.0	0.0428	0.0000	OK
960 minute summer	2	495	26.216	0.022	1.0	0.0121	0.0000	OK
960 minute summer	3	510	26.180	0.087	4.6	5.2948	0.0000	OK
960 minute summer	4	510	26.179	0.166	4.1	0.2152	0.0000	SURCHARGED
960 minute summer	5	510	26.044	0.058	4.1	0.0661	0.0000	OK
960 minute summer	6	525	25.960	0.056	4.1	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
960 minute summer	1	1.000	3	2.0	0.443	0.039	0.2147	
960 minute summer	2	2.000	3	1.0	0.317	0.019	0.0811	
960 minute summer	3	1.001	4	3.8	0.245	0.096	0.3090	
960 minute summer	4	Hydro-Brake®	5	4.1				
960 minute summer	5	1.003	6	4.1	0.664	0.302	0.0858	73.7

Results for 30 year 960 minute winter. 1200 minute analysis at 15 minute timestep. Mass balance: 99.80%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
960 minute winter	1	480	26.368	0.026	1.5	0.0373	0.0000	OK
960 minute winter	2	465	26.212	0.018	0.7	0.0103	0.0000	OK
960 minute winter	3	510	26.147	0.054	3.4	3.2585	0.0000	OK
960 minute winter	4	510	26.146	0.133	3.5	0.1720	0.0000	OK
960 minute winter	5	510	26.039	0.053	3.5	0.0604	0.0000	OK
960 minute winter	6	510	25.956	0.052	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)
960 minute winter	1	1.000	3	1.5	0.418	0.029	0.1231	
960 minute winter	2	2.000	3	0.7	0.429	0.013	0.0444	
960 minute winter	3	1.001	4	3.3	0.242	0.082	0.2141	
960 minute winter	4	Hydro-Brake®	5	3.5				
960 minute winter	5	1.003	6	3.5	0.636	0.257	0.0761	82.3

Results for 30 year 1440 minute summer. 1680 minute analysis at 30 minute timestep. Mass balance: 99.94%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
1440 minute summer	1	750	26.368	0.026	1.5	0.0373	0.0000	OK
1440 minute summer	2	750	26.212	0.018	0.7	0.0103	0.0000	OK
1440 minute summer	3	750	26.140	0.047	3.3	2.8501	0.0000	OK
1440 minute summer	4	750	26.139	0.126	3.3	0.1632	0.0000	OK
1440 minute summer	5	750	26.038	0.052	3.3	0.0588	0.0000	OK
1440 minute summer	6	750	25.954	0.050	3.3	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
1440 minute summer	1	1.000	3	1.5	0.389	0.029	0.1073	
1440 minute summer	2	2.000	3	0.7	0.254	0.013	0.0380	
1440 minute summer	3	1.001	4	3.1	0.242	0.079	0.1955	
1440 minute summer	4	Hydro-Brake®	5	3.3				
1440 minute summer	5	1.003	6	3.3	0.628	0.244	0.0734	79.7

Results for 30 year 1440 minute winter. 1680 minute analysis at 30 minute timestep. Mass balance: 98.95%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
1440 minute winter	1	690	26.365	0.023	1.1	0.0321	0.0000	OK
1440 minute winter	2	690	26.210	0.016	0.5	0.0088	0.0000	OK
1440 minute winter	3	690	26.129	0.036	2.4	2.2138	0.0000	OK
1440 minute winter	4	690	26.109	0.096	2.5	0.1240	0.0000	OK
1440 minute winter	5	690	26.030	0.044	2.5	0.0502	0.0000	OK
1440 minute winter	6	690	25.947	0.043	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)
1440 minute winter	1	1.000	3	1.1	0.358	0.021	0.0781	
1440 minute winter	2	2.000	3	0.5	0.351	0.010	0.0272	
1440 minute winter	3	1.001	4	2.3	0.241	0.058	0.1371	
1440 minute winter	4	Hydro-Brake®	5	2.5				
1440 minute winter	5	1.003	6	2.5	0.579	0.182	0.0591	91.0

Results for 100 year +45% CC +10% A 15 minute summer. 255 minute analysis at 1 minute timestep. Mass balance: 99.61%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	1	18	26.671	0.329	41.5	0.5097	0.0000	SURCHARGED
15 minute summer	2	19	26.672	0.478	19.9	0.2875	0.0000	SURCHARGED
15 minute summer	3	19	26.673	0.580	89.4	35.2756	0.0000	SURCHARGED
15 minute summer	4	18	26.672	0.659	9.4	0.8621	0.0000	SURCHARGED
15 minute summer	5	64	26.051	0.065	5.0	0.0738	0.0000	OK
15 minute summer	6	64	25.967	0.063	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	3	38.9	1.269	0.751	0.9985	
15 minute summer	2	2.000	3	18.0	0.997	0.346	0.4036	
15 minute summer	3	1.001	4	4.9	0.323	0.123	0.5381	
15 minute summer	4	Hydro-Brake®	5	5.0				
15 minute summer	5	1.003	6	5.0	0.699	0.368	0.0992	43.0

Results for 100 year +45% CC +10% A 15 minute winter. 255 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
15 minute winter	1	18	26.751	0.409	43.7	0.6328	0.0000	SURCHARGED
15 minute winter	2	19	26.753	0.559	20.9	0.3358	0.0000	SURCHARGED
15 minute winter	3	19	26.753	0.660	93.1	40.1666	0.0000	SURCHARGED
15 minute winter	4	19	26.752	0.739	9.4	0.9673	0.0000	SURCHARGED
15 minute winter	5	82	26.051	0.065	5.0	0.0738	0.0000	OK
15 minute winter	6	82	25.967	0.063	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	3	40.4	1.322	0.780	0.9985	
15 minute winter	2	2.000	3	19.8	1.014	0.380	0.4036	
15 minute winter	3	1.001	4	4.9	0.291	0.123	0.5381	
15 minute winter	4	Hydro-Brake®	5	5.0				
15 minute winter	5	1.003	6	5.0	0.699	0.368	0.0992	48.2

Results for 100 year +45% CC +10% A 30 minute summer. 270 minute analysis at 1 minute timestep. Mass balance: 99.75%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
30 minute summer	1	33	26.848	0.506	38.1	0.7831	0.0000	SURCHARGED
30 minute summer	2	33	26.849	0.655	18.3	0.3934	0.0000	SURCHARGED
30 minute summer	3	33	26.849	0.756	82.4	45.9955	0.0000	SURCHARGED
30 minute summer	4	33	26.848	0.834	7.4	1.0924	0.0000	SURCHARGED
30 minute summer	5	120	26.051	0.065	5.0	0.0738	0.0000	OK
30 minute summer	6	120	25.967	0.063	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	3	36.4	1.150	0.703	0.9985	
30 minute summer	2	2.000	3	17.1	0.876	0.328	0.4036	
30 minute summer	3	1.001	4	4.9	0.297	0.123	0.5381	
30 minute summer	4	Hydro-Brake®	5	5.0				
30 minute summer	5	1.003	6	5.0	0.699	0.368	0.0992	57.5

Results for 100 year +45% CC +10% A 30 minute winter. 270 minute analysis at 1 minute timestep. Mass balance: 99.81%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
30 minute winter	1	33	26.958	0.616	34.5	0.9535	0.0000	SURCHARGED
30 minute winter	2	33	26.959	0.765	16.5	0.4598	0.0000	SURCHARGED
30 minute winter	3	33	26.959	0.866	74.1	52.7271	0.0000	SURCHARGED
30 minute winter	4	33	26.958	0.945	7.5	1.2372	0.0000	SURCHARGED
30 minute winter	5	148	26.051	0.065	5.0	0.0738	0.0000	OK
30 minute winter	6	148	25.967	0.063	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	3	32.7	1.184	0.631	0.9985	
30 minute winter	2	2.000	3	15.3	0.917	0.295	0.4036	
30 minute winter	3	1.001	4	4.9	0.299	0.123	0.5381	
30 minute winter	4	Hydro-Brake®	5	5.0				
30 minute winter	5	1.003	6	5.0	0.699	0.368	0.0992	64.2

Results for 100 year +45% CC +10% A 60 minute summer. 300 minute analysis at 1 minute timestep. Mass balance: 99.86%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute summer	1	62	26.997	0.655	29.1	1.0129	0.0000	SURCHARGED
60 minute summer	2	62	26.997	0.803	13.9	0.4826	0.0000	SURCHARGED
60 minute summer	3	62	26.997	0.904	62.4	55.0219	0.0000	SURCHARGED
60 minute summer	4	62	26.996	0.983	6.3	1.2867	0.0000	SURCHARGED
60 minute summer	5	188	26.051	0.065	5.0	0.0738	0.0000	OK
60 minute summer	6	188	25.967	0.063	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	3	27.4	1.042	0.530	0.9985	
60 minute summer	2	2.000	3	12.9	0.806	0.248	0.4036	
60 minute summer	3	1.001	4	4.9	0.278	0.123	0.5381	
60 minute summer	4	Hydro-Brake®	5	5.0				
60 minute summer	5	1.003	6	5.0	0.699	0.368	0.0992	73.2

Results for 100 year +45% CC +10% A 60 minute winter. 300 minute analysis at 1 minute timestep. Mass balance: 99.78%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute winter	1	58	27.467	1.125	23.5	1.7404	0.4809	FLOOD
60 minute winter	2	58	27.479	1.285	11.3	0.7722	0.0000	SURCHARGED
60 minute winter	3	58	27.477	1.384	50.6	61.2233	0.0000	SURCHARGED
60 minute winter	4	58	27.478	1.465	6.5	1.9174	0.0000	FLOOD RISK
60 minute winter	5	59	26.052	0.066	5.0	0.0741	0.0000	OK
60 minute winter	6	59	25.967	0.063	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	3	22.2	1.064	0.430	0.9985	
60 minute winter	2	2.000	3	10.5	0.832	0.202	0.4036	
60 minute winter	3	1.001	4	5.8	0.287	0.146	0.5381	
60 minute winter	4	Hydro-Brake®	5	5.0				
60 minute winter	5	1.003	6	5.0	0.700	0.371	0.0998	79.3

Results for 100 year +45% CC +10% A 120 minute summer. 360 minute analysis at 2 minute timestep. Mass balance: 99.96%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
120 minute summer	1	114	27.057	0.715	19.2	1.1064	0.0000	SURCHARGED
120 minute summer	2	114	27.057	0.863	9.2	0.5185	0.0000	SURCHARGED
120 minute summer	3	114	27.057	0.964	41.5	58.6555	0.0000	SURCHARGED
120 minute summer	4	114	27.056	1.043	5.8	1.3648	0.0000	SURCHARGED
120 minute summer	5	262	26.051	0.065	5.0	0.0738	0.0000	OK
120 minute summer	6	262	25.967	0.063	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	3	18.4	0.942	0.355	0.9985	
120 minute summer	2	2.000	3	8.6	0.707	0.165	0.4036	
120 minute summer	3	1.001	4	4.9	0.263	0.123	0.5381	
120 minute summer	4	Hydro-Brake®	5	5.0				
120 minute summer	5	1.003	6	5.0	0.699	0.368	0.0992	90.3

Results for 100 year +45% CC +10% A 120 minute winter. 360 minute analysis at 2 minute timestep. Mass balance: 99.66%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
120 minute winter	1	86	27.467	1.125	14.8	1.7404	5.7893	FLOOD
120 minute winter	2	86	27.495	1.301	7.1	0.7821	0.0000	SURCHARGED
120 minute winter	3	86	27.492	1.399	32.0	61.2361	0.0000	FLOOD RISK
120 minute winter	4	86	27.495	1.482	7.3	1.9399	0.0721	FLOOD
120 minute winter	5	86	26.052	0.066	5.1	0.0743	0.0000	OK
120 minute winter	6	92	25.967	0.063	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	3	14.1	0.912	0.272	0.9985	
120 minute winter	2	2.000	3	6.6	0.670	0.127	0.4036	
120 minute winter	3	1.001	4	6.2	0.270	0.155	0.5381	
120 minute winter	4	Hydro-Brake®	5	5.1				
120 minute winter	5	1.003	6	5.0	0.700	0.371	0.0999	94.5

Results for 100 year +45% CC +10% A 180 minute summer. 420 minute analysis at 4 minute timestep. Mass balance: 99.95%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
180 minute summer	1	148	27.041	0.699	14.3	1.0818	0.0000	SURCHARGED
180 minute summer	2	148	27.041	0.847	6.9	0.5090	0.0000	SURCHARGED
180 minute summer	3	148	27.041	0.948	30.9	57.6930	0.0000	SURCHARGED
180 minute summer	4	148	27.040	1.027	5.6	1.3441	0.0000	SURCHARGED
180 minute summer	5	312	26.051	0.065	5.0	0.0738	0.0000	OK
180 minute summer	6	312	25.967	0.063	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	3	13.6	0.868	0.263	0.9985	
180 minute summer	2	2.000	3	6.5	0.649	0.124	0.4036	
180 minute summer	3	1.001	4	4.9	0.259	0.123	0.5381	
180 minute summer	4	Hydro-Brake®	5	5.0				
180 minute summer	5	1.003	6	5.0	0.699	0.368	0.0992	101.4

Results for 100 year +45% CC +10% A 180 minute winter. 420 minute analysis at 4 minute timestep. Mass balance: 99.77%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
180 minute winter	1	128	27.467	1.125	11.0	1.7404	3.4479	FLOOD
180 minute winter	2	136	27.474	1.280	5.3	0.7693	0.0000	SURCHARGED
180 minute winter	3	136	27.473	1.380	23.8	61.2197	0.0000	SURCHARGED
180 minute winter	4	136	27.473	1.460	7.4	1.9114	0.0000	FLOOD RISK
180 minute winter	5	136	26.052	0.066	5.0	0.0741	0.0000	OK
180 minute winter	6	136	25.967	0.063	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	3	10.5	0.785	0.202	0.9985	
180 minute winter	2	2.000	3	5.0	0.630	0.096	0.4036	
180 minute winter	3	1.001	4	6.5	0.260	0.163	0.5381	
180 minute winter	4	Hydro-Brake®	5	5.0				
180 minute winter	5	1.003	6	5.0	0.700	0.370	0.0996	108.4

Results for 100 year +45% CC +10% A 240 minute summer. 480 minute analysis at 4 minute timestep. Mass balance: 99.96%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
240 minute summer	1	180	27.013	0.671	12.1	1.0377	0.0000	SURCHARGED
240 minute summer	2	180	27.012	0.818	5.8	0.4919	0.0000	SURCHARGED
240 minute summer	3	180	27.012	0.919	26.1	55.9575	0.0000	SURCHARGED
240 minute summer	4	180	27.011	0.998	5.5	1.3069	0.0000	SURCHARGED
240 minute summer	5	356	26.051	0.065	5.0	0.0738	0.0000	OK
240 minute summer	6	356	25.967	0.063	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	3	11.5	0.820	0.223	0.9985	
240 minute summer	2	2.000	3	5.4	0.635	0.104	0.4036	
240 minute summer	3	1.001	4	4.9	0.249	0.123	0.5381	
240 minute summer	4	Hydro-Brake®	5	5.0				
240 minute summer	5	1.003	6	5.0	0.699	0.368	0.0992	109.8

Results for 100 year +45% CC +10% A 240 minute winter. 480 minute analysis at 4 minute timestep. Mass balance: 99.86%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
240 minute winter	1	172	27.467	1.125	9.0	1.7404	1.3393	FLOOD
240 minute winter	2	176	27.474	1.280	4.3	0.7694	0.0000	SURCHARGED
240 minute winter	3	176	27.473	1.380	19.4	61.2199	0.0000	SURCHARGED
240 minute winter	4	176	27.474	1.461	6.5	1.9121	0.0000	FLOOD RISK
240 minute winter	5	176	26.052	0.066	5.0	0.0741	0.0000	OK
240 minute winter	6	176	25.967	0.063	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 winter	1	1.000	3	8.6	0.739	0.166	0.9985	
240 minute winter	2	2.000	3	4.0	0.534	0.078	0.4036	
240 minute winter	3	1.001	4	5.8	0.253	0.146	0.5381	
240 minute winter	4	Hydro-Brake®	5	5.0				
240 minute winter	5	1.003	6	5.0	0.700	0.370	0.0997	120.5

Results for 100 year +45% CC +10% A 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	256	26.939	0.597	9.1	0.9237	0.0000	SURCHARGED
360 minute summer	2	248	26.938	0.744	4.4	0.4473	0.0000	SURCHARGED
360 minute summer	3	248	26.938	0.845	19.3	51.4458	0.0000	SURCHARGED
360 minute summer	4	248	26.937	0.924	5.3	1.2099	0.0000	SURCHARGED
360 minute summer	5	432	26.051	0.065	5.0	0.0738	0.0000	OK
360 minute summer	6	432	25.967	0.063	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)
360 minute summer	1	1.000	3	8.3	0.616	0.160	0.9985	
360 minute summer	2	2.000	3	4.1	0.425	0.080	0.4036	
360 minute summer	3	1.001	4	4.9	0.249	0.123	0.5381	
360 minute summer	4	Hydro-Brake®	5	5.0				
360 minute summer	5	1.003	6	5.0	0.699	0.368	0.0992	120.9

Results for 100 year +45% CC +10% A 360 minute winter. 600 minute analysis at 8 minute timestep. Mass balance: 99.91%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
360 minute winter	1	272	27.061	0.719	6.6	1.1130	0.0000	SURCHARGED
360 minute winter	2	272	27.061	0.867	3.2	0.5211	0.0000	SURCHARGED
360 minute winter	3	272	27.061	0.968	14.4	58.9211	0.0000	SURCHARGED
360 minute winter	4	272	27.060	1.047	5.2	1.3705	0.0000	SURCHARGED
360 minute winter	5	472	26.051	0.065	5.0	0.0738	0.0000	OK
360 minute winter	6	472	25.967	0.063	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)
360 minute winter	1	1.000	3	6.3	0.686	0.122	0.9985	
360 minute winter	2	2.000	3	3.0	0.482	0.058	0.4036	
360 minute winter	3	1.001	4	4.9	0.246	0.123	0.5381	
360 minute winter	4	Hydro-Brake®	5	5.0				
360 minute winter	5	1.003	6	5.0	0.699	0.368	0.0992	135.5

Results for 100 year +45% CC +10% A 480 minute summer. 720 minute analysis at 8 minute timestep. Mass balance: 99.94%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
480 minute summer	1	320	26.857	0.515	7.1	0.7973	0.0000	SURCHARGED
480 minute summer	2	320	26.857	0.663	3.4	0.3985	0.0000	SURCHARGED
480 minute summer	3	320	26.857	0.764	15.2	46.4979	0.0000	SURCHARGED
480 minute summer	4	320	26.856	0.843	5.2	1.1034	0.0000	SURCHARGED
480 minute summer	5	480	26.051	0.065	5.0	0.0738	0.0000	OK
480 minute summer	6	480	25.967	0.063	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)
480 minute summer	1	1.000	3	6.6	0.593	0.128	0.9985	
480 minute summer	2	2.000	3	3.2	0.416	0.062	0.4036	
480 minute summer	3	1.001	4	4.9	0.245	0.123	0.5381	
480 minute summer	4	Hydro-Brake®	5	5.0				
480 minute summer	5	1.003	6	5.0	0.699	0.368	0.0992	129.4

Results for 100 year +45% CC +10% A 480 minute winter. 720 minute analysis at 8 minute timestep. Mass balance: 99.92%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
480 minute winter	1	352	26.951	0.609	5.3	0.9419	0.0000	SURCHARGED
480 minute winter	2	352	26.951	0.757	2.5	0.4547	0.0000	SURCHARGED
480 minute winter	3	352	26.951	0.858	11.5	52.1910	0.0000	SURCHARGED
480 minute winter	4	352	26.950	0.937	5.1	1.2259	0.0000	SURCHARGED
480 minute winter	5	536	26.051	0.065	5.0	0.0738	0.0000	OK
480 minute winter	6	536	25.967	0.063	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)
480 minute winter	1	1.000	3	5.1	0.615	0.098	0.9985	
480 minute winter	2	2.000	3	2.4	0.481	0.046	0.4036	
480 minute winter	3	1.001	4	4.9	0.253	0.123	0.5381	
480 minute winter	4	Hydro-Brake®	5	5.0				
480 minute winter	5	1.003	6	5.0	0.699	0.368	0.0992	145.1

Results for 100 year +45% CC +10% A 600 minute summer. 840 minute analysis at 15 minute timestep. Mass balance: 99.92%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
600 minute summer	1	390	26.774	0.432	5.8	0.6684	0.0000	SURCHARGED
600 minute summer	2	390	26.774	0.580	2.8	0.3486	0.0000	SURCHARGED
600 minute summer	3	390	26.774	0.681	12.4	41.4487	0.0000	SURCHARGED
600 minute summer	4	390	26.773	0.760	5.2	0.9945	0.0000	SURCHARGED
600 minute summer	5	525	26.051	0.065	5.0	0.0738	0.0000	OK
600 minute summer	6	525	25.967	0.063	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)
600 minute summer	1	1.000	3	5.4	0.445	0.104	0.9985	
600 minute summer	2	2.000	3	2.7	0.317	0.051	0.4036	
600 minute summer	3	1.001	4	4.8	0.243	0.121	0.5381	
600 minute summer	4	Hydro-Brake®	5	5.0				
600 minute summer	5	1.003	6	5.0	0.699	0.368	0.0992	136.6

Results for 100 year +45% CC +10% A 600 minute winter. 840 minute analysis at 15 minute timestep. Mass balance: 99.83%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
600 minute winter	1	420	26.810	0.468	4.4	0.7242	0.0000	SURCHARGED
600 minute winter	2	420	26.810	0.616	2.1	0.3701	0.0000	SURCHARGED
600 minute winter	3	420	26.810	0.717	9.5	43.6205	0.0000	SURCHARGED
600 minute winter	4	420	26.809	0.796	5.1	1.0413	0.0000	SURCHARGED
600 minute winter	5	570	26.051	0.065	5.0	0.0738	0.0000	OK
600 minute winter	6	570	25.967	0.063	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)
600 minute winter	1	1.000	3	4.2	0.528	0.081	0.9985	
600 minute winter	2	2.000	3	2.0	0.331	0.039	0.4036	
600 minute winter	3	1.001	4	4.9	0.245	0.122	0.5381	
600 minute winter	4	Hydro-Brake®	5	5.0				
600 minute winter	5	1.003	6	5.0	0.699	0.368	0.0992	152.7

Results for 100 year +45% CC +10% A 720 minute summer. 960 minute analysis at 15 minute timestep. Mass balance: 99.84%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
720 minute summer	1	450	26.696	0.354	5.1	0.5477	0.0000	SURCHARGED
720 minute summer	2	450	26.695	0.501	2.5	0.3010	0.0000	SURCHARGED
720 minute summer	3	450	26.695	0.602	11.3	36.6224	0.0000	SURCHARGED
720 minute summer	4	450	26.693	0.680	5.1	0.8904	0.0000	SURCHARGED
720 minute summer	5	555	26.051	0.065	5.0	0.0738	0.0000	OK
720 minute summer	6	555	25.967	0.063	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)
720 minute summer	1	1.000	3	5.1	0.473	0.098	0.9985	
720 minute summer	2	2.000	3	2.4	0.268	0.046	0.4036	
720 minute summer	3	1.001	4	4.8	0.242	0.121	0.5381	
720 minute summer	4	Hydro-Brake®	5	5.0				
720 minute summer	5	1.003	6	5.0	0.699	0.368	0.0992	142.1

Results for 100 year +45% CC +10% A 720 minute winter. 960 minute analysis at 15 minute timestep. Mass balance: 99.85%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
720 minute winter	1	480	26.687	0.345	3.9	0.5331	0.0000	SURCHARGED
720 minute winter	2	480	26.686	0.492	1.8	0.2958	0.0000	SURCHARGED
720 minute winter	3	480	26.686	0.593	8.3	36.0969	0.0000	SURCHARGED
720 minute winter	4	480	26.685	0.672	5.1	0.8793	0.0000	SURCHARGED
720 minute winter	5	375	26.051	0.065	5.0	0.0738	0.0000	OK
720 minute winter	6	375	25.967	0.063	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)
720 minute winter	1	1.000	3	3.7	0.513	0.071	0.9985	
720 minute winter	2	2.000	3	1.7	0.373	0.034	0.4036	
720 minute winter	3	1.001	4	4.8	0.243	0.121	0.5381	
720 minute winter	4	Hydro-Brake®	5	5.0				
720 minute winter	5	1.003	6	5.0	0.699	0.368	0.0992	158.6

Results for 100 year +45% CC +10% A 960 minute summer. 1200 minute analysis at 15 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
960 minute summer	1	570	26.568	0.226	4.2	0.3498	0.0000	SURCHARGED
960 minute summer	2	570	26.568	0.374	2.0	0.2246	0.0000	SURCHARGED
960 minute summer	3	570	26.568	0.475	9.2	28.8866	0.0000	SURCHARGED
960 minute summer	4	570	26.566	0.553	5.1	0.7241	0.0000	SURCHARGED
960 minute summer	5	510	26.051	0.065	5.0	0.0738	0.0000	OK
960 minute summer	6	510	25.967	0.063	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)
960 minute summer	1	1.000	3	4.2	0.440	0.081	0.9982	
960 minute summer	2	2.000	3	1.9	0.292	0.037	0.4036	
960 minute summer	3	1.001	4	4.8	0.241	0.121	0.5381	
960 minute summer	4	Hydro-Brake®	5	5.0				
960 minute summer	5	1.003	6	5.0	0.699	0.368	0.0992	152.8

Results for 100 year +45% CC +10% A 960 minute winter. 1200 minute analysis at 15 minute timestep. Mass balance: 99.93%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
960 minute winter	1	600	26.498	0.156	3.1	0.2420	0.0000	OK
960 minute winter	2	600	26.498	0.304	1.5	0.1828	0.0000	SURCHARGED
960 minute winter	3	600	26.498	0.405	6.9	24.6559	0.0000	SURCHARGED
960 minute winter	4	600	26.497	0.484	5.0	0.6331	0.0000	SURCHARGED
960 minute winter	5	555	26.051	0.065	5.0	0.0738	0.0000	OK
960 minute winter	6	555	25.967	0.063	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)
960 minute winter	1	1.000	3	3.1	0.456	0.060	0.8692	
960 minute winter	2	2.000	3	1.4	0.328	0.028	0.4036	
960 minute winter	3	1.001	4	4.8	0.242	0.120	0.5381	
960 minute winter	4	Hydro-Brake®	5	5.0				
960 minute winter	5	1.003	6	5.0	0.699	0.368	0.0992	170.6

Results for 100 year +45% CC +10% A 1440 minute summer. 1680 minute analysis at 30 minute timestep. Mass balance: 99.98%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
1440 minute summer	1	810	26.384	0.042	3.0	0.0647	0.0000	OK
1440 minute summer	2	810	26.383	0.189	1.4	0.1139	0.0000	OK
1440 minute summer	3	810	26.383	0.290	6.7	17.6773	0.0000	SURCHARGED
1440 minute summer	4	810	26.382	0.369	5.0	0.4830	0.0000	SURCHARGED
1440 minute summer	5	810	26.051	0.065	5.0	0.0734	0.0000	OK
1440 minute summer	6	810	25.966	0.062	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)
1440 minute summer	1	1.000	3	3.0	0.380	0.058	0.5629	
1440 minute summer	2	2.000	3	1.4	0.224	0.026	0.3830	
1440 minute summer	3	1.001	4	4.7	0.243	0.117	0.5381	
1440 minute summer	4	Hydro-Brake®	5	5.0				
1440 minute summer	5	1.003	6	5.0	0.697	0.364	0.0985	166.2

Results for 100 year +45% CC +10% A 1440 minute winter. 1680 minute analysis at 30 minute timestep. Mass balance: 99.92%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
1440 minute winter	1	750	26.374	0.032	2.3	0.0498	0.0000	OK
1440 minute winter	2	810	26.277	0.083	1.1	0.0499	0.0000	OK
1440 minute winter	3	810	26.277	0.184	5.1	11.2014	0.0000	OK
1440 minute winter	4	810	26.276	0.263	4.7	0.3444	0.0000	SURCHARGED
1440 minute winter	5	810	26.049	0.063	4.7	0.0713	0.0000	OK
1440 minute winter	6	810	25.965	0.061	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)
1440 minute winter	1	1.000	3	2.3	0.372	0.044	0.4771	
1440 minute winter	2	2.000	3	1.1	0.221	0.021	0.2439	
1440 minute winter	3	1.001	4	4.4	0.242	0.110	0.5043	
1440 minute winter	4	Hydro-Brake®	5	4.7				
1440 minute winter	5	1.003	6	4.7	0.688	0.345	0.0947	187.4