

Design Settings

Rainfall Methodology	FSR	Maximum Time of Concentration (mins)	30.00
Return Period (years)	2	Maximum Rainfall (mm/hr)	50.0
Additional Flow (%)	0	Minimum Velocity (m/s)	1.00
FSR Region	England and Wales	Connection Type	Level Soffits
M5-60 (mm)	17.000	Minimum Backdrop Height (m)	0.200
Ratio-R	0.300	Preferred Cover Depth (m)	1.000
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)
374	1200	749	1500
499	1350	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	Auto Increment (mm)	75
Barrels	1	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	0.009	5.00	102.050	1200	360865.958	175937.484	1.000
2	0.026	5.00	102.050	1200	360861.378	175933.808	1.294
3	0.000		100.640	1200	360864.029	175911.753	0.995
6	0.017	5.00	102.050	1200	360847.522	175934.878	1.000
7	0.010	5.00	102.050	1200	360832.457	175925.365	1.891
8	0.012	5.00	102.050	1200	360843.476	175910.223	2.827
4	0.000		100.200	1200	360851.797	175898.797	1.684
5			98.000	1200	360874.783	175866.822	1.453

Links

Name	US Node	DS Node	Length (m)	ks (mm) / n	US IL (m)	DS IL (m)	Fall (m)	Slope (1:X)	Dia (mm)	T of C (mins)	Rain (mm/hr)
1.000	1	2	5.873	0.600	101.050	100.756	0.294	20.0	150	5.04	50.0
1.001	2	3	22.214	0.600	100.756	99.645	1.111	20.0	150	5.21	50.0
1.002	3	4	17.818	0.600	99.645	98.932	0.713	25.0	150	5.35	50.0
2.000	6	7	17.817	0.600	101.050	100.159	0.891	20.0	150	5.13	50.0
2.001	7	8	18.727	0.600	100.159	99.223	0.936	20.0	150	5.27	50.0
2.002	8	4	14.135	0.600	99.223	98.516	0.707	20.0	150	5.37	50.0
1.003	4	5	39.380	0.600	98.516	96.547	1.969	20.0	150	5.66	49.0

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	2.262	40.0	1.2	0.850	1.144	0.009	0.0	18	1.013
1.001	2.262	40.0	4.7	1.144	0.845	0.035	0.0	35	1.528
1.002	2.022	35.7	4.7	0.845	1.118	0.035	0.0	37	1.404
2.000	2.262	40.0	2.3	0.850	1.741	0.017	0.0	24	1.231
2.001	2.262	40.0	3.7	1.741	2.677	0.027	0.0	31	1.419
2.002	2.262	40.0	5.3	2.677	1.534	0.039	0.0	37	1.572
1.003	2.262	40.0	9.8	1.534	1.303	0.074	0.0	51	1.879

Pipeline Schedule

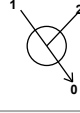
Link	Length (m)	Slope (1:X)	Dia (mm)	Link Type	US CL (m)	US IL (m)	US Depth (m)	DS CL (m)	DS IL (m)	DS Depth (m)
1.000	5.873	20.0	150	Circular_Default Sewer Type	102.050	101.050	0.850	102.050	100.756	1.144
1.001	22.214	20.0	150	Circular_Default Sewer Type	102.050	100.756	1.144	100.640	99.645	0.845
1.002	17.818	25.0	150	Circular_Default Sewer Type	100.640	99.645	0.845	100.200	98.932	1.118
2.000	17.817	20.0	150	Circular_Default Sewer Type	102.050	101.050	0.850	102.050	100.159	1.741
2.001	18.727	20.0	150	Circular_Default Sewer Type	102.050	100.159	1.741	102.050	99.223	2.677
2.002	14.135	20.0	150	Circular_Default Sewer Type	102.050	99.223	2.677	100.200	98.516	1.534
1.003	39.380	20.0	150	Circular_Default Sewer Type	100.200	98.516	1.534	98.000	96.547	1.303

Link	US Node	Dia (mm)	Node Type	MH Type	DS Node	Dia (mm)	Node Type	MH Type
1.000	1	1200	Manhole	Adoptable	2	1200	Manhole	Adoptable
1.001	2	1200	Manhole	Adoptable	3	1200	Manhole	Adoptable
1.002	3	1200	Manhole	Adoptable	4	1200	Manhole	Adoptable
2.000	6	1200	Manhole	Adoptable	7	1200	Manhole	Adoptable
2.001	7	1200	Manhole	Adoptable	8	1200	Manhole	Adoptable
2.002	8	1200	Manhole	Adoptable	4	1200	Manhole	Adoptable
1.003	4	1200	Manhole	Adoptable	5	1200	Manhole	Adoptable

Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)
1	360865.958	175937.484	102.050	1.000	1200				
						0	1.000	101.050	150
2	360861.378	175933.808	102.050	1.294	1200				
						1	1.000	100.756	150
						0	1.001	100.756	150

Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)
3	360864.029	175911.753	100.640	0.995	1200		1 1.001	99.645	150
6	360847.522	175934.878	102.050	1.000	1200		0 1.002	99.645	150
7	360832.457	175925.365	102.050	1.891	1200		1 2.000	101.050	150
8	360843.476	175910.223	102.050	2.827	1200		0 2.001	100.159	150
4	360851.797	175898.797	100.200	1.684	1200		1 2.002	98.516	150
5	360874.783	175866.822	98.000	1.453	1200		2 1.002	98.932	150
							0 1.003	98.516	150
							1 1.003	96.547	150

Simulation Settings

Rainfall Methodology	FSR	Skip Steady State	✓
FSR Region	England and Wales	Drain Down Time (mins)	240
M5-60 (mm)	20.000	Additional Storage (m³/ha)	20.0
Ratio-R	0.450	Check Discharge Rate(s)	✓
Summer CV	0.750	100 year (l/s)	5.0
Winter CV	0.840	Check Discharge Volume	✓
Analysis Speed	Normal	100 year 360 minute (m³)	

Storm Durations

15 | 30 | 60 | 120 | 180 | 240 | 360 | 480 | 600 | 720 | 960 | 1440

Return Period (years)	Climate Change (CC %)	Additional Area (A %)	Additional Flow (Q %)
1	0	0	0
30	0	0	0
100	40	0	0

Pre-development Discharge Rate

Site Makeup	Greenfield	Region	1
Greenfield Method	IH124	Growth Factor 100 year	2.48
Positively Drained Area (ha)	0.200	Betterment (%)	0
SAAR (mm)	995	QBar	0.1
Soil Index	1	Q 100 year (l/s)	0.1
SPR	0.10		

Pre-development Discharge Volume

Site Makeup	Greenfield	Return Period (years)	100
Greenfield Method	FSR/FEH	Climate Change (%)	0
Positively Drained Area (ha)	0.200	Storm Duration (mins)	360
Soil Index	1	Betterment (%)	0
SPR	0.10	PR	
CWI		Runoff Volume (m ³)	

Node 4 Online Hydro-Brake® Control

Flap Valve	x	Objective	(HE) Minimise upstream storage
Replaces Downstream Link	x	Sump Available	✓
Invert Level (m)	98.516	Product Number	CTL-SHE-0091-5000-2080-5000
Design Depth (m)	2.080	Min Outlet Diameter (m)	0.150
Design Flow (l/s)	5.0	Min Node Diameter (mm)	1200

Node 5 Online Depth/Flow Control

Flap Valve	✓	Invert Level (m)	96.547	Design Flow (l/s)	5.0
Replaces Downstream Link	✓	Design Depth (m)	1.200		

Depth (m)	Flow (l/s)
1.200	5.000

Node 4 Depth/Area Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Safety Factor	2.0	Invert Level (m)	98.516
Side Inf Coefficient (m/hr)	0.00000	Porosity	1.00	Time to half empty (mins)	82

Depth (m)	Area (m ²)	Inf Area (m ²)	Depth (m)	Area (m ²)	Inf Area (m ²)	Depth (m)	Area (m ²)	Inf Area (m ²)	Depth (m)	Area (m ²)	Inf Area (m ²)
0.000	15.0	0.0	1.200	15.0	0.0	1.210	0.0	0.0	1.800	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	✓	Full Bore Velocity	✓
Node Losses	x	Minimum Full Bore Velocity (m/s)	1.000
Link Size	✓	Maximum Full Bore Velocity (m/s)	4.000
Minimum Diameter (mm)	100	Proportional Velocity	✓
Link Length	✓	Return Period (years)	2
Maximum Length (m)	100.000	Minimum Proportional Velocity (m/s)	0.600
Coordinates	✓	Maximum Proportional Velocity (m/s)	4.000
Accuracy (m)	1.000	Surcharged Depth	✓
Crossings	x	Return Period (years)	2
Cover Depth	✓	Maximum Surcharged Depth (m)	0.100
Minimum Cover Depth (m)	1.000	Flooding	✓
Maximum Cover Depth (m)	3.000	Return Period (years)	30
Backdrops	✓	Time to Half Empty	✓
Minimum Backdrop Height (m)	0.200	Return Period (years)	10
Maximum Backdrop Height (m)	1.500	Discharge Rates	✓

Approval Settings

2 year (l/s) 5.0 100 year +40% 540 minute (m³) 67
Discharge Volume ✓

Rainfall

Event	Peak Intensity (mm/hr)	Average Intensity (mm/hr)	Event	Peak Intensity (mm/hr)	Average Intensity (mm/hr)
1 year 15 minute summer	113.891	32.227	30 year 360 minute summer	29.722	7.648
1 year 15 minute winter	79.924	32.227	30 year 360 minute winter	19.320	7.648
1 year 30 minute summer	72.999	20.656	30 year 480 minute summer	22.976	6.072
1 year 30 minute winter	51.228	20.656	30 year 480 minute winter	15.265	6.072
1 year 60 minute summer	48.435	12.800	30 year 600 minute summer	18.550	5.074
1 year 60 minute winter	32.179	12.800	30 year 600 minute winter	12.675	5.074
1 year 120 minute summer	29.356	7.758	30 year 720 minute summer	16.343	4.380
1 year 120 minute winter	19.504	7.758	30 year 720 minute winter	10.984	4.380
1 year 180 minute summer	22.370	5.757	30 year 960 minute summer	13.183	3.472
1 year 180 minute winter	14.541	5.757	30 year 960 minute winter	8.733	3.472
1 year 240 minute summer	17.603	4.652	30 year 1440 minute summer	9.325	2.499
1 year 240 minute winter	11.695	4.652	30 year 1440 minute winter	6.267	2.499
1 year 360 minute summer	13.361	3.438	100 year +40% CC 15 minute summer	508.733	143.954
1 year 360 minute winter	8.685	3.438	100 year +40% CC 15 minute winter	357.006	143.954
1 year 480 minute summer	10.443	2.760	100 year +40% CC 30 minute summer	327.353	92.629
1 year 480 minute winter	6.938	2.760	100 year +40% CC 30 minute winter	229.721	92.629
1 year 600 minute summer	8.506	2.327	100 year +40% CC 60 minute summer	214.603	56.713
1 year 600 minute winter	5.812	2.327	100 year +40% CC 60 minute winter	142.577	56.713
1 year 720 minute summer	7.550	2.024	100 year +40% CC 120 minute summer	127.078	33.583
1 year 720 minute winter	5.074	2.024	100 year +40% CC 120 minute winter	84.428	33.583
1 year 960 minute summer	6.166	1.624	100 year +40% CC 180 minute summer	94.911	24.424
1 year 960 minute winter	4.084	1.624	100 year +40% CC 180 minute winter	61.695	24.424
1 year 1440 minute summer	4.442	1.190	100 year +40% CC 240 minute summer	73.369	19.389
1 year 1440 minute winter	2.985	1.190	100 year +40% CC 240 minute winter	48.744	19.389
30 year 15 minute summer	279.602	79.118	100 year +40% CC 360 minute summer	54.109	13.924
30 year 15 minute winter	196.212	79.118	100 year +40% CC 360 minute winter	35.173	13.924
30 year 30 minute summer	178.541	50.521	100 year +40% CC 480 minute summer	41.690	11.018
30 year 30 minute winter	125.292	50.521	100 year +40% CC 480 minute winter	27.698	11.018
30 year 60 minute summer	116.589	30.811	100 year +40% CC 600 minute summer	33.569	9.182
30 year 60 minute winter	77.459	30.811	100 year +40% CC 600 minute winter	22.936	9.182
30 year 120 minute summer	69.050	18.248	100 year +40% CC 720 minute summer	29.508	7.908
30 year 120 minute winter	45.875	18.248	100 year +40% CC 720 minute winter	19.831	7.908
30 year 180 minute summer	51.693	13.302	100 year +40% CC 960 minute summer	23.715	6.245
30 year 180 minute winter	33.602	13.302	100 year +40% CC 960 minute winter	15.709	6.245
30 year 240 minute summer	40.075	10.591	100 year +40% CC 1440 minute summer	16.682	4.471
30 year 240 minute winter	26.625	10.591	100 year +40% CC 1440 minute winter	11.211	4.471

Results for 1 year Critical Storm Duration. Lowest mass balance: 97.82%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	1	10	101.069	0.019	1.3	0.0243	0.0000	OK
15 minute winter	2	10	100.792	0.036	5.1	0.0554	0.0000	OK
15 minute winter	3	11	99.684	0.039	5.0	0.0437	0.0000	OK
15 minute winter	6	10	101.075	0.025	2.5	0.0373	0.0000	OK
15 minute winter	7	10	100.191	0.032	4.0	0.0392	0.0000	OK
15 minute winter	8	10	99.261	0.038	5.7	0.0463	0.0000	OK
30 minute winter	4	24	98.714	0.198	8.2	3.1946	0.0000	SURCHARGED
60 minute winter	5	51	97.253	0.706	3.5	0.7980	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	1	1.000	2	1.3	0.598	0.032	0.0130	
15 minute winter	2	1.001	3	5.0	1.472	0.126	0.0759	
15 minute winter	3	1.002	4	5.0	1.406	0.139	0.0629	
15 minute winter	6	2.000	7	2.5	1.057	0.062	0.0416	
15 minute winter	7	2.001	8	3.9	1.254	0.097	0.0582	
15 minute winter	8	2.002	4	5.6	1.420	0.140	0.1466	
30 minute winter	4	1.003	5	3.6	0.651	0.090	0.3970	
60 minute winter	5	Depth/Flow		2.9				7.9

Results for 30 year Critical Storm Duration. Lowest mass balance: 97.82%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	1	10	101.079	0.029	3.2	0.0376	0.0000	OK
15 minute winter	2	10	100.814	0.058	12.6	0.0893	0.0000	OK
15 minute winter	3	10	99.708	0.063	12.5	0.0714	0.0000	OK
15 minute winter	6	10	101.090	0.040	6.1	0.0582	0.0000	OK
15 minute winter	7	10	100.209	0.050	9.7	0.0619	0.0000	OK
15 minute winter	8	10	99.284	0.061	13.9	0.0739	0.0000	OK
30 minute winter	4	29	99.141	0.625	20.1	10.0812	0.0000	SURCHARGED
120 minute winter	5	100	97.514	0.967	4.1	1.0933	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute winter	1	1.000	2	3.2	0.752	0.079	0.0254	
15 minute winter	2	1.001	3	12.5	1.867	0.312	0.1483	
15 minute winter	3	1.002	4	12.2	1.790	0.343	0.1707	
15 minute winter	6	2.000	7	6.1	1.373	0.152	0.0788	
15 minute winter	7	2.001	8	9.6	1.619	0.239	0.1108	
15 minute winter	8	2.002	4	13.8	1.611	0.344	0.1717	
30 minute winter	4	1.003	5	4.1	0.793	0.102	0.4015	
120 minute winter	5	Depth/Flow		4.0				22.6

Results for 100 year +40% CC Critical Storm Duration. Lowest mass balance: 97.82%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	1	10	101.089	0.039	5.9	0.0510	0.0000	OK
15 minute winter	2	10	100.839	0.083	22.8	0.1268	0.0000	OK
60 minute winter	3	53	100.120	0.475	11.3	0.5375	0.0000	SURCHARGED
15 minute winter	6	10	101.104	0.054	11.1	0.0793	0.0000	OK
15 minute winter	7	10	100.228	0.069	17.5	0.0857	0.0000	OK
60 minute winter	8	54	100.120	0.897	12.6	1.0911	0.0000	SURCHARGED
60 minute winter	4	54	100.117	1.601	23.0	19.8860	0.0000	FLOOD RISK
60 minute winter	5	64	97.553	1.006	4.4	1.1377	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute winter	1	1.000	2	5.9	0.876	0.147	0.0399	
15 minute winter	2	1.001	3	22.7	2.175	0.567	0.2349	
60 minute winter	3	1.002	4	11.3	1.660	0.316	0.3137	
15 minute winter	6	2.000	7	11.0	1.619	0.276	0.1216	
15 minute winter	7	2.001	8	17.4	1.757	0.435	0.2376	
60 minute winter	8	2.002	4	11.8	1.429	0.295	0.2488	
60 minute winter	4	1.003	5	4.4	0.796	0.110	0.4046	
60 minute winter	5	Depth/Flow		4.2				35.3

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

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	1	10	101.069	0.019	1.3	0.0243	0.0000	OK
15 minute summer	2	10	100.791	0.035	4.9	0.0543	0.0000	OK
15 minute summer	3	11	99.683	0.038	4.8	0.0430	0.0000	OK
15 minute summer	6	10	101.075	0.025	2.4	0.0366	0.0000	OK
15 minute summer	7	10	100.190	0.031	3.8	0.0384	0.0000	OK
15 minute summer	8	10	99.260	0.037	5.4	0.0453	0.0000	OK
15 minute summer	4	15	98.685	0.169	10.1	2.7321	0.0000	SURCHARGED
15 minute summer	5	24	97.076	0.529	3.4	0.5985	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	1	1.000	2	1.3	0.598	0.032	0.0130	
15 minute summer	2	1.001	3	4.8	1.457	0.121	0.0740	
15 minute summer	3	1.002	4	4.8	1.394	0.135	0.0616	
15 minute summer	6	2.000	7	2.4	1.051	0.060	0.0405	
15 minute summer	7	2.001	8	3.7	1.240	0.093	0.0565	
15 minute summer	8	2.002	4	5.4	1.373	0.134	0.1446	
15 minute summer	4	1.003	5	3.4	0.872	0.086	0.3953	
15 minute summer	5	Depth/Flow		2.2				4.5

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

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	1	10	101.069	0.019	1.3	0.0243	0.0000	OK
15 minute winter	2	10	100.792	0.036	5.1	0.0554	0.0000	OK
15 minute winter	3	11	99.684	0.039	5.0	0.0437	0.0000	OK
15 minute winter	6	10	101.075	0.025	2.5	0.0373	0.0000	OK
15 minute winter	7	10	100.191	0.032	4.0	0.0392	0.0000	OK
15 minute winter	8	10	99.261	0.038	5.7	0.0463	0.0000	OK
15 minute winter	4	15	98.705	0.189	10.5	3.0524	0.0000	SURCHARGED
15 minute winter	5	25	97.131	0.584	3.6	0.6603	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute winter	1	1.000	2	1.3	0.587	0.032	0.0132	
15 minute winter	2	1.001	3	5.0	1.472	0.126	0.0759	
15 minute winter	3	1.002	4	5.0	1.406	0.139	0.0629	
15 minute winter	6	2.000	7	2.5	1.057	0.062	0.0416	
15 minute winter	7	2.001	8	3.9	1.254	0.097	0.0582	
15 minute winter	8	2.002	4	5.6	1.420	0.140	0.1466	
15 minute winter	4	1.003	5	3.6	0.890	0.089	0.3965	
15 minute winter	5	Depth/Flow		2.4				5.0

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

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
30 minute summer	1	18	101.067	0.017	1.1	0.0226	0.0000	OK
30 minute summer	2	18	100.789	0.033	4.3	0.0510	0.0000	OK
30 minute summer	3	18	99.681	0.036	4.3	0.0406	0.0000	OK
30 minute summer	6	18	101.073	0.023	2.1	0.0345	0.0000	OK
30 minute summer	7	18	100.188	0.029	3.3	0.0361	0.0000	OK
30 minute summer	8	18	99.258	0.035	4.8	0.0427	0.0000	OK
30 minute summer	4	23	98.700	0.184	9.1	2.9651	0.0000	SURCHARGED
30 minute summer	5	34	97.173	0.626	3.5	0.7084	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
30 minute summer	1	1.000	2	1.1	0.564	0.028	0.0118	
30 minute summer	2	1.001	3	4.3	1.407	0.108	0.0681	
30 minute summer	3	1.002	4	4.3	1.349	0.120	0.0567	
30 minute summer	6	2.000	7	2.1	1.015	0.053	0.0370	
30 minute summer	7	2.001	8	3.3	1.194	0.083	0.0519	
30 minute summer	8	2.002	4	4.8	1.178	0.120	0.1451	
30 minute summer	4	1.003	5	3.5	0.612	0.088	0.3962	
30 minute summer	5	Depth/Flow		2.6				5.7

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	101.067	0.016	1.0	0.0216	0.0000	OK
30 minute winter	2	18	100.788	0.032	3.9	0.0486	0.0000	OK
30 minute winter	3	18	99.679	0.034	3.9	0.0386	0.0000	OK
30 minute winter	6	18	101.072	0.022	1.9	0.0328	0.0000	OK
30 minute winter	7	18	100.187	0.028	3.0	0.0345	0.0000	OK
30 minute winter	8	18	99.256	0.033	4.3	0.0404	0.0000	OK
30 minute winter	4	24	98.714	0.198	8.2	3.1946	0.0000	SURCHARGED
30 minute winter	5	35	97.228	0.681	3.6	0.7706	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
30 minute winter	1	1.000	2	1.0	0.549	0.025	0.0110	
30 minute winter	2	1.001	3	3.9	1.367	0.098	0.0634	
30 minute winter	3	1.002	4	3.9	1.313	0.109	0.0528	
30 minute winter	6	2.000	7	1.9	0.983	0.048	0.0346	
30 minute winter	7	2.001	8	3.0	1.167	0.075	0.0482	
30 minute winter	8	2.002	4	4.3	1.225	0.107	0.1446	
30 minute winter	4	1.003	5	3.6	0.651	0.090	0.3970	
30 minute winter	5	Depth/Flow		2.8				6.3

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

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute summer	1	33	101.065	0.015	0.8	0.0194	0.0000	OK
60 minute summer	2	33	100.785	0.029	3.2	0.0441	0.0000	OK
60 minute summer	3	33	99.676	0.031	3.2	0.0349	0.0000	OK
60 minute summer	6	33	101.070	0.020	1.5	0.0293	0.0000	OK
60 minute summer	7	33	100.184	0.025	2.4	0.0309	0.0000	OK
60 minute summer	8	33	99.253	0.030	3.5	0.0365	0.0000	OK
60 minute summer	4	39	98.691	0.175	6.7	2.8268	0.0000	SURCHARGED
60 minute summer	5	50	97.209	0.662	3.5	0.7490	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
60 minute summer	1	1.000	2	0.8	0.521	0.020	0.0095	
60 minute summer	2	1.001	3	3.2	1.296	0.080	0.0551	
60 minute summer	3	1.002	4	3.2	1.241	0.089	0.0458	
60 minute summer	6	2.000	7	1.5	0.911	0.038	0.0294	
60 minute summer	7	2.001	8	2.4	1.096	0.060	0.0415	
60 minute summer	8	2.002	4	3.5	1.098	0.088	0.1411	
60 minute summer	4	1.003	5	3.5	0.504	0.087	0.3957	
60 minute summer	5	Depth/Flow		2.8				7.1

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	101.064	0.014	0.7	0.0182	0.0000	OK
60 minute winter	2	33	100.782	0.026	2.6	0.0399	0.0000	OK
60 minute winter	3	33	99.673	0.028	2.6	0.0314	0.0000	OK
60 minute winter	6	33	101.068	0.018	1.2	0.0264	0.0000	OK
60 minute winter	7	34	100.181	0.022	1.9	0.0276	0.0000	OK
60 minute winter	8	33	99.250	0.027	2.8	0.0328	0.0000	OK
60 minute winter	4	41	98.691	0.175	5.4	2.8155	0.0000	SURCHARGED
60 minute winter	5	51	97.253	0.706	3.5	0.7980	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
60 minute winter	1	1.000	2	0.7	0.506	0.018	0.0084	
60 minute winter	2	1.001	3	2.6	1.216	0.065	0.0475	
60 minute winter	3	1.002	4	2.6	1.167	0.072	0.0395	
60 minute winter	6	2.000	7	1.2	0.857	0.030	0.0251	
60 minute winter	7	2.001	8	1.9	1.020	0.048	0.0353	
60 minute winter	8	2.002	4	2.8	1.078	0.070	0.1393	
60 minute winter	4	1.003	5	3.5	0.533	0.087	0.3956	
60 minute winter	5	Depth/Flow		2.9				7.9

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	101.062	0.012	0.5	0.0156	0.0000	OK
120 minute summer	2	64	100.779	0.023	2.0	0.0351	0.0000	OK
120 minute summer	3	64	99.669	0.024	2.0	0.0277	0.0000	OK
120 minute summer	6	64	101.067	0.016	1.0	0.0242	0.0000	OK
120 minute summer	7	64	100.180	0.021	1.6	0.0254	0.0000	OK
120 minute summer	8	64	99.247	0.024	2.3	0.0298	0.0000	OK
120 minute summer	4	70	98.657	0.141	4.3	2.2705	0.0000	OK
120 minute summer	5	80	97.171	0.624	3.1	0.7058	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
120 minute summer	1	1.000	2	0.5	0.452	0.013	0.0069	
120 minute summer	2	1.001	3	2.0	1.128	0.050	0.0395	
120 minute summer	3	1.002	4	2.0	1.083	0.056	0.0329	
120 minute summer	6	2.000	7	1.0	0.805	0.025	0.0222	
120 minute summer	7	2.001	8	1.6	0.969	0.040	0.0310	
120 minute summer	8	2.002	4	2.3	1.079	0.058	0.1319	
120 minute summer	4	1.003	5	3.1	0.433	0.078	0.3923	
120 minute summer	5	Depth/Flow		2.6				8.8

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

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
120 minute winter	1	60	101.061	0.011	0.4	0.0141	0.0000	OK
120 minute winter	2	64	100.777	0.021	1.6	0.0315	0.0000	OK
120 minute winter	3	64	99.667	0.022	1.6	0.0248	0.0000	OK
120 minute winter	6	64	101.065	0.015	0.8	0.0218	0.0000	OK
120 minute winter	7	64	100.178	0.019	1.3	0.0230	0.0000	OK
120 minute winter	8	64	99.245	0.022	1.8	0.0264	0.0000	OK
120 minute winter	4	72	98.644	0.128	3.4	2.0572	0.0000	OK
120 minute winter	5	82	97.155	0.608	2.9	0.6873	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
120 minute winter	1	1.000	2	0.4	0.437	0.010	0.0059	
120 minute winter	2	1.001	3	1.6	1.056	0.040	0.0337	
120 minute winter	3	1.002	4	1.6	1.015	0.045	0.0281	
120 minute winter	6	2.000	7	0.8	0.751	0.020	0.0191	
120 minute winter	7	2.001	8	1.3	0.924	0.033	0.0264	
120 minute winter	8	2.002	4	1.8	1.076	0.045	0.1225	
120 minute winter	4	1.003	5	2.9	0.449	0.071	0.3894	
120 minute winter	5	Depth/Flow		2.5				9.5

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	101.061	0.011	0.4	0.0141	0.0000	OK
180 minute summer	2	96	100.776	0.020	1.5	0.0306	0.0000	OK
180 minute summer	3	96	99.666	0.021	1.5	0.0240	0.0000	OK
180 minute summer	6	96	101.064	0.014	0.7	0.0204	0.0000	OK
180 minute summer	7	96	100.176	0.017	1.1	0.0213	0.0000	OK
180 minute summer	8	96	99.244	0.021	1.6	0.0250	0.0000	OK
180 minute summer	4	100	98.633	0.117	3.1	1.8856	0.0000	OK
180 minute summer	5	112	97.093	0.546	2.6	0.6176	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
180 minute summer	1	1.000	2	0.4	0.426	0.010	0.0057	
180 minute summer	2	1.001	3	1.5	1.035	0.038	0.0322	
180 minute summer	3	1.002	4	1.5	0.996	0.042	0.0268	
180 minute summer	6	2.000	7	0.7	0.729	0.018	0.0172	
180 minute summer	7	2.001	8	1.1	0.861	0.028	0.0240	
180 minute summer	8	2.002	4	1.6	0.715	0.040	0.1135	
180 minute summer	4	1.003	5	2.6	0.325	0.065	0.3866	
180 minute summer	5	Depth/Flow		2.3				9.5

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	92	101.059	0.009	0.3	0.0123	0.0000	OK
180 minute winter	2	96	100.774	0.018	1.2	0.0275	0.0000	OK
180 minute winter	3	96	99.664	0.019	1.2	0.0216	0.0000	OK
180 minute winter	6	96	101.063	0.013	0.6	0.0190	0.0000	OK
180 minute winter	7	96	100.175	0.016	0.9	0.0194	0.0000	OK
180 minute winter	8	96	99.242	0.019	1.3	0.0226	0.0000	OK
180 minute winter	4	104	98.622	0.106	2.5	1.7035	0.0000	OK
180 minute winter	5	112	97.059	0.512	2.3	0.5787	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
180 minute winter	1	1.000	2	0.3	0.395	0.008	0.0048	
180 minute winter	2	1.001	3	1.2	0.969	0.030	0.0276	
180 minute winter	3	1.002	4	1.2	0.932	0.034	0.0230	
180 minute winter	6	2.000	7	0.6	0.708	0.015	0.0151	
180 minute winter	7	2.001	8	0.9	0.813	0.023	0.0208	
180 minute winter	8	2.002	4	1.3	0.861	0.033	0.1020	
180 minute winter	4	1.003	5	2.3	0.375	0.057	0.3833	
180 minute winter	5	Depth/Flow		2.1				11.1

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

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
240 minute summer	1	124	101.059	0.009	0.3	0.0123	0.0000	OK
240 minute summer	2	124	100.775	0.019	1.3	0.0285	0.0000	OK
240 minute summer	3	124	99.665	0.020	1.3	0.0223	0.0000	OK
240 minute summer	6	124	101.063	0.013	0.6	0.0190	0.0000	OK
240 minute summer	7	124	100.175	0.016	1.0	0.0203	0.0000	OK
240 minute summer	8	124	99.242	0.019	1.4	0.0233	0.0000	OK
240 minute summer	4	132	98.623	0.107	2.7	1.7241	0.0000	OK
240 minute summer	5	144	97.046	0.499	2.3	0.5642	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
240 minute summer	1	1.000	2	0.3	0.394	0.008	0.0050	
240 minute summer	2	1.001	3	1.3	0.993	0.032	0.0289	
240 minute summer	3	1.002	4	1.3	0.950	0.036	0.0240	
240 minute summer	6	2.000	7	0.6	0.706	0.015	0.0157	
240 minute summer	7	2.001	8	1.0	0.846	0.025	0.0219	
240 minute summer	8	2.002	4	1.4	0.734	0.035	0.1034	
240 minute summer	4	1.003	5	2.3	0.338	0.058	0.3837	
240 minute summer	5	Depth/Flow		2.1				10.1

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

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
240 minute winter	1	104	101.058	0.008	0.2	0.0102	0.0000	OK
240 minute winter	2	120	100.772	0.016	0.9	0.0240	0.0000	OK
240 minute winter	3	124	99.662	0.017	0.9	0.0188	0.0000	OK
240 minute winter	6	124	101.062	0.012	0.5	0.0175	0.0000	OK
240 minute winter	7	128	100.174	0.015	0.8	0.0183	0.0000	OK
240 minute winter	8	128	99.240	0.017	1.1	0.0209	0.0000	OK
240 minute winter	4	132	98.609	0.093	2.0	1.4970	0.0000	OK
240 minute winter	5	148	96.975	0.428	1.9	0.4836	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
240 minute winter	1	1.000	2	0.2	0.357	0.005	0.0038	
240 minute winter	2	1.001	3	0.9	0.890	0.023	0.0225	
240 minute winter	3	1.002	4	0.9	0.855	0.025	0.0188	
240 minute winter	6	2.000	7	0.5	0.656	0.013	0.0137	
240 minute winter	7	2.001	8	0.8	0.800	0.020	0.0188	
240 minute winter	8	2.002	4	1.1	0.806	0.028	0.0884	
240 minute winter	4	1.003	5	1.9	0.374	0.048	0.3789	
240 minute winter	5	Depth/Flow		1.8				11.3

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	101.059	0.009	0.3	0.0122	0.0000	OK
360 minute summer	2	184	100.772	0.016	1.0	0.0251	0.0000	OK
360 minute summer	3	184	99.662	0.017	1.0	0.0195	0.0000	OK
360 minute summer	6	184	101.062	0.012	0.5	0.0174	0.0000	OK
360 minute summer	7	184	100.174	0.015	0.8	0.0181	0.0000	OK
360 minute summer	8	184	99.240	0.017	1.1	0.0207	0.0000	OK
360 minute summer	4	192	98.606	0.090	2.0	1.4448	0.0000	OK
360 minute summer	5	200	96.937	0.389	1.8	0.4405	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
360 minute summer	1	1.000	2	0.3	0.409	0.007	0.0043	
360 minute summer	2	1.001	3	1.0	0.917	0.025	0.0239	
360 minute summer	3	1.002	4	1.0	0.874	0.027	0.0198	
360 minute summer	6	2.000	7	0.5	0.656	0.012	0.0136	
360 minute summer	7	2.001	8	0.8	0.795	0.020	0.0185	
360 minute summer	8	2.002	4	1.1	0.206	0.027	0.0845	
360 minute summer	4	1.003	5	1.8	0.234	0.045	0.3777	
360 minute summer	5	Depth/Flow		1.6				10.5

Results for 1 year 360 minute winter. 600 minute analysis at 8 minute timestep. Mass balance: 99.70%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
360 minute winter	1	168	101.058	0.008	0.2	0.0102	0.0000	OK
360 minute winter	2	176	100.770	0.014	0.7	0.0213	0.0000	OK
360 minute winter	3	184	99.660	0.015	0.7	0.0167	0.0000	OK
360 minute winter	6	160	101.059	0.009	0.3	0.0138	0.0000	OK
360 minute winter	7	160	100.171	0.012	0.5	0.0147	0.0000	OK
360 minute winter	8	160	99.237	0.014	0.7	0.0169	0.0000	OK
360 minute winter	4	192	98.592	0.076	1.4	1.2287	0.0000	OK
360 minute winter	5	216	96.870	0.323	1.4	0.3653	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
360 minute winter	1	1.000	2	0.2	0.378	0.005	0.0034	
360 minute winter	2	1.001	3	0.7	0.825	0.018	0.0189	
360 minute winter	3	1.002	4	0.7	0.793	0.020	0.0157	
360 minute winter	6	2.000	7	0.3	0.550	0.008	0.0098	
360 minute winter	7	2.001	8	0.5	0.690	0.013	0.0136	
360 minute winter	8	2.002	4	0.7	0.287	0.018	0.0692	
360 minute winter	4	1.003	5	1.4	0.280	0.035	0.3724	
360 minute winter	5	Depth/Flow		1.3				12.1

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

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
480 minute summer	1	240	101.058	0.008	0.2	0.0102	0.0000	OK
480 minute summer	2	248	100.771	0.015	0.8	0.0227	0.0000	OK
480 minute summer	3	248	99.661	0.016	0.8	0.0178	0.0000	OK
480 minute summer	6	248	101.061	0.011	0.4	0.0158	0.0000	OK
480 minute summer	7	248	100.172	0.013	0.6	0.0160	0.0000	OK
480 minute summer	8	248	99.239	0.016	0.9	0.0190	0.0000	OK
480 minute summer	4	256	98.598	0.082	1.7	1.3305	0.0000	OK
480 minute summer	5	264	96.899	0.352	1.6	0.3983	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
480 minute summer	1	1.000	2	0.2	0.353	0.005	0.0036	
480 minute summer	2	1.001	3	0.8	0.858	0.020	0.0207	
480 minute summer	3	1.002	4	0.8	0.825	0.022	0.0173	
480 minute summer	6	2.000	7	0.4	0.624	0.010	0.0114	
480 minute summer	7	2.001	8	0.6	0.708	0.015	0.0159	
480 minute summer	8	2.002	4	0.9	0.211	0.023	0.0763	
480 minute summer	4	1.003	5	1.6	0.259	0.040	0.3749	
480 minute summer	5	Depth/Flow		1.5				11.1

Results for 1 year 480 minute winter. 720 minute analysis at 8 minute timestep. Mass balance: 99.65%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
480 minute winter	1	168	101.056	0.006	0.1	0.0074	0.0000	OK
480 minute winter	2	224	100.768	0.012	0.5	0.0182	0.0000	OK
480 minute winter	3	232	99.658	0.013	0.5	0.0142	0.0000	OK
480 minute winter	6	232	101.059	0.009	0.3	0.0138	0.0000	OK
480 minute winter	7	232	100.171	0.012	0.5	0.0147	0.0000	OK
480 minute winter	8	232	99.237	0.014	0.7	0.0169	0.0000	OK
480 minute winter	4	256	98.586	0.070	1.2	1.1242	0.0000	OK
480 minute winter	5	272	96.823	0.276	1.2	0.3127	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
480 minute winter	1	1.000	2	0.1	0.306	0.003	0.0025	
480 minute winter	2	1.001	3	0.5	0.745	0.013	0.0149	
480 minute winter	3	1.002	4	0.5	0.717	0.014	0.0124	
480 minute winter	6	2.000	7	0.3	0.550	0.008	0.0098	
480 minute winter	7	2.001	8	0.5	0.690	0.013	0.0136	
480 minute winter	8	2.002	4	0.7	0.202	0.018	0.0624	
480 minute winter	4	1.003	5	1.2	0.259	0.030	0.3698	
480 minute winter	5	Depth/Flow		1.2				12.5

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

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
600 minute summer	1	315	101.058	0.008	0.2	0.0102	0.0000	OK
600 minute summer	2	315	100.770	0.014	0.7	0.0213	0.0000	OK
600 minute summer	3	315	99.660	0.015	0.7	0.0167	0.0000	OK
600 minute summer	6	315	101.059	0.009	0.3	0.0138	0.0000	OK
600 minute summer	7	315	100.171	0.012	0.5	0.0147	0.0000	OK
600 minute summer	8	315	99.237	0.014	0.7	0.0169	0.0000	OK
600 minute summer	4	315	98.591	0.075	1.4	1.2072	0.0000	OK
600 minute summer	5	330	96.853	0.306	1.3	0.3463	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
600 minute summer	1	1.000	2	0.2	0.357	0.005	0.0034	
600 minute summer	2	1.001	3	0.7	0.824	0.018	0.0189	
600 minute summer	3	1.002	4	0.7	0.793	0.020	0.0157	
600 minute summer	6	2.000	7	0.3	0.550	0.008	0.0098	
600 minute summer	7	2.001	8	0.5	0.690	0.013	0.0136	
600 minute summer	8	2.002	4	0.7	0.216	0.018	0.0678	
600 minute summer	4	1.003	5	1.3	0.212	0.034	0.3719	
600 minute summer	5	Depth/Flow		1.3				10.8

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

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
600 minute winter	1	225	101.056	0.006	0.1	0.0074	0.0000	OK
600 minute winter	2	315	100.768	0.012	0.5	0.0182	0.0000	OK
600 minute winter	3	315	99.658	0.013	0.5	0.0142	0.0000	OK
600 minute winter	6	255	101.058	0.008	0.2	0.0114	0.0000	OK
600 minute winter	7	255	100.168	0.009	0.3	0.0116	0.0000	OK
600 minute winter	8	300	99.235	0.012	0.5	0.0144	0.0000	OK
600 minute winter	4	330	98.579	0.063	1.0	1.0113	0.0000	OK
600 minute winter	5	330	96.774	0.227	1.0	0.2568	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
600 minute winter	1	1.000	2	0.1	0.306	0.003	0.0025	
600 minute winter	2	1.001	3	0.5	0.745	0.013	0.0149	
600 minute winter	3	1.002	4	0.5	0.717	0.014	0.0124	
600 minute winter	6	2.000	7	0.2	0.504	0.005	0.0071	
600 minute winter	7	2.001	8	0.3	0.601	0.008	0.0103	
600 minute winter	8	2.002	4	0.5	0.197	0.013	0.0538	
600 minute winter	4	1.003	5	1.0	0.212	0.025	0.3669	
600 minute winter	5	Depth/Flow		0.9				12.9

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	300	101.056	0.006	0.1	0.0074	0.0000	OK
720 minute summer	2	375	100.768	0.012	0.5	0.0182	0.0000	OK
720 minute summer	3	375	99.658	0.013	0.5	0.0142	0.0000	OK
720 minute summer	6	375	101.059	0.009	0.3	0.0138	0.0000	OK
720 minute summer	7	375	100.171	0.012	0.5	0.0147	0.0000	OK
720 minute summer	8	375	99.237	0.014	0.7	0.0169	0.0000	OK
720 minute summer	4	375	98.585	0.069	1.2	1.1081	0.0000	OK
720 minute summer	5	390	96.812	0.265	1.2	0.3003	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
720 minute summer	1	1.000	2	0.1	0.306	0.003	0.0025	
720 minute summer	2	1.001	3	0.5	0.745	0.013	0.0149	
720 minute summer	3	1.002	4	0.5	0.717	0.014	0.0124	
720 minute summer	6	2.000	7	0.3	0.550	0.008	0.0098	
720 minute summer	7	2.001	8	0.5	0.690	0.013	0.0136	
720 minute summer	8	2.002	4	0.7	0.191	0.018	0.0613	
720 minute summer	4	1.003	5	1.2	0.212	0.029	0.3694	
720 minute summer	5	Depth/Flow		1.1				10.8

Results for 1 year 720 minute winter. 960 minute analysis at 15 minute timestep. Mass balance: 98.60%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
720 minute winter	1	270	101.056	0.006	0.1	0.0074	0.0000	OK
720 minute winter	2	330	100.767	0.011	0.4	0.0164	0.0000	OK
720 minute winter	3	330	99.656	0.011	0.4	0.0128	0.0000	OK
720 minute winter	6	315	101.058	0.008	0.2	0.0114	0.0000	OK
720 minute winter	7	315	100.168	0.009	0.3	0.0116	0.0000	OK
720 minute winter	8	315	99.234	0.011	0.4	0.0130	0.0000	OK
720 minute winter	4	345	98.572	0.056	0.8	0.8978	0.0000	OK
720 minute winter	5	435	96.731	0.184	0.8	0.2084	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
720 minute winter	1	1.000	2	0.1	0.306	0.003	0.0022	
720 minute winter	2	1.001	3	0.4	0.695	0.010	0.0128	
720 minute winter	3	1.002	4	0.4	0.668	0.011	0.0107	
720 minute winter	6	2.000	7	0.2	0.504	0.005	0.0071	
720 minute winter	7	2.001	8	0.3	0.601	0.008	0.0094	
720 minute winter	8	2.002	4	0.4	0.197	0.010	0.0459	
720 minute winter	4	1.003	5	0.8	0.212	0.020	0.3640	
720 minute winter	5	Depth/Flow		0.8				13.5

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	420	101.056	0.006	0.1	0.0074	0.0000	OK
960 minute summer	2	465	100.767	0.011	0.4	0.0164	0.0000	OK
960 minute summer	3	465	99.656	0.011	0.4	0.0128	0.0000	OK
960 minute summer	6	465	101.058	0.008	0.2	0.0114	0.0000	OK
960 minute summer	7	465	100.168	0.009	0.3	0.0116	0.0000	OK
960 minute summer	8	495	99.235	0.012	0.5	0.0144	0.0000	OK
960 minute summer	4	495	98.575	0.059	0.9	0.9536	0.0000	OK
960 minute summer	5	510	96.752	0.205	0.9	0.2322	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
960 minute summer	1	1.000	2	0.1	0.306	0.003	0.0022	
960 minute summer	2	1.001	3	0.4	0.695	0.010	0.0128	
960 minute summer	3	1.002	4	0.4	0.668	0.011	0.0107	
960 minute summer	6	2.000	7	0.2	0.504	0.005	0.0071	
960 minute summer	7	2.001	8	0.3	0.601	0.008	0.0103	
960 minute summer	8	2.002	4	0.5	0.199	0.013	0.0501	
960 minute summer	4	1.003	5	0.9	0.212	0.022	0.3655	
960 minute summer	5	Depth/Flow		0.9				10.6

Results for 1 year 960 minute winter. 1200 minute analysis at 15 minute timestep. Mass balance: 99.37%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
960 minute winter	1	375	101.056	0.006	0.1	0.0074	0.0000	OK
960 minute winter	2	390	100.765	0.009	0.3	0.0144	0.0000	OK
960 minute winter	3	390	99.655	0.010	0.3	0.0113	0.0000	OK
960 minute winter	6	465	101.058	0.008	0.2	0.0114	0.0000	OK
960 minute winter	7	465	100.168	0.009	0.3	0.0116	0.0000	OK
960 minute winter	8	465	99.234	0.011	0.4	0.0130	0.0000	OK
960 minute winter	4	480	98.568	0.052	0.7	0.8331	0.0000	OK
960 minute winter	5	540	96.709	0.161	0.7	0.1827	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
960 minute winter	1	1.000	2	0.1	0.366	0.003	0.0019	
960 minute winter	2	1.001	3	0.3	0.637	0.008	0.0105	
960 minute winter	3	1.002	4	0.3	0.612	0.008	0.0087	
960 minute winter	6	2.000	7	0.2	0.504	0.005	0.0071	
960 minute winter	7	2.001	8	0.3	0.601	0.008	0.0094	
960 minute winter	8	2.002	4	0.4	0.195	0.010	0.0418	
960 minute winter	4	1.003	5	0.7	0.212	0.017	0.3624	
960 minute winter	5	Depth/Flow		0.7				13.0

Results for 1 year 1440 minute summer. 1680 minute analysis at 30 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
1440 minute summer	1	690	101.056	0.006	0.1	0.0074	0.0000	OK
1440 minute summer	2	690	100.765	0.009	0.3	0.0144	0.0000	OK
1440 minute summer	3	690	99.655	0.010	0.3	0.0113	0.0000	OK
1440 minute summer	6	750	101.058	0.008	0.2	0.0114	0.0000	OK
1440 minute summer	7	750	100.168	0.009	0.3	0.0116	0.0000	OK
1440 minute summer	8	750	99.234	0.011	0.4	0.0130	0.0000	OK
1440 minute summer	4	750	98.568	0.052	0.7	0.8324	0.0000	OK
1440 minute summer	5	780	96.708	0.161	0.7	0.1819	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
1440 minute summer	1	1.000	2	0.1	0.306	0.003	0.0019	
1440 minute summer	2	1.001	3	0.3	0.636	0.008	0.0105	
1440 minute summer	3	1.002	4	0.3	0.612	0.008	0.0087	
1440 minute summer	6	2.000	7	0.2	0.504	0.005	0.0071	
1440 minute summer	7	2.001	8	0.3	0.601	0.008	0.0094	
1440 minute summer	8	2.002	4	0.4	0.181	0.010	0.0418	
1440 minute summer	4	1.003	5	0.7	0.191	0.017	0.3624	
1440 minute summer	5	Depth/Flow		0.7				10.8

Results for 1 year 1440 minute winter. 1680 minute analysis at 30 minute timestep. Mass balance: 97.82%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
1440 minute winter	1	660	101.056	0.006	0.1	0.0074	0.0000	OK
1440 minute winter	2	660	100.765	0.009	0.3	0.0144	0.0000	OK
1440 minute winter	3	660	99.655	0.010	0.3	0.0113	0.0000	OK
1440 minute winter	6	570	101.056	0.006	0.1	0.0084	0.0000	OK
1440 minute winter	7	630	100.167	0.008	0.2	0.0096	0.0000	OK
1440 minute winter	8	630	99.232	0.009	0.3	0.0114	0.0000	OK
1440 minute winter	4	690	98.564	0.048	0.6	0.7698	0.0000	OK
1440 minute winter	5	690	96.684	0.137	0.6	0.1547	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
1440 minute winter	1	1.000	2	0.1	0.306	0.003	0.0019	
1440 minute winter	2	1.001	3	0.3	0.636	0.008	0.0105	
1440 minute winter	3	1.002	4	0.3	0.612	0.008	0.0087	
1440 minute winter	6	2.000	7	0.1	0.477	0.003	0.0049	
1440 minute winter	7	2.001	8	0.2	0.504	0.005	0.0074	
1440 minute winter	8	2.002	4	0.3	0.179	0.008	0.0372	
1440 minute winter	4	1.003	5	0.6	0.191	0.015	0.3461	
1440 minute winter	5	Depth/Flow		0.6				13.7

Results for 30 year 15 minute summer. 255 minute analysis at 1 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
15 minute summer	1	10	101.078	0.028	3.1	0.0370	0.0000	OK
15 minute summer	2	10	100.813	0.057	12.0	0.0869	0.0000	OK
15 minute summer	3	10	99.707	0.062	11.9	0.0696	0.0000	OK
15 minute summer	6	10	101.089	0.039	5.8	0.0568	0.0000	OK
15 minute summer	7	10	100.208	0.049	9.2	0.0604	0.0000	OK
15 minute summer	8	10	99.282	0.059	13.2	0.0721	0.0000	OK
15 minute summer	4	17	99.004	0.488	24.9	7.8691	0.0000	SURCHARGED
15 minute summer	5	38	97.441	0.894	4.1	1.0114	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	1	1.000	2	3.1	0.752	0.077	0.0246	
15 minute summer	2	1.001	3	11.9	1.844	0.297	0.1432	
15 minute summer	3	1.002	4	11.7	1.772	0.328	0.1180	
15 minute summer	6	2.000	7	5.8	1.355	0.144	0.0761	
15 minute summer	7	2.001	8	9.1	1.597	0.228	0.1071	
15 minute summer	8	2.002	4	13.1	1.533	0.329	0.1701	
15 minute summer	4	1.003	5	4.1	0.929	0.102	0.4015	
15 minute summer	5	Depth/Flow		3.7				10.9

Results for 30 year 15 minute winter. 255 minute analysis at 1 minute timestep. Mass balance: 99.48%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	1	10	101.079	0.029	3.2	0.0376	0.0000	OK
15 minute winter	2	10	100.814	0.058	12.6	0.0893	0.0000	OK
15 minute winter	3	10	99.708	0.063	12.5	0.0714	0.0000	OK
15 minute winter	6	10	101.090	0.040	6.1	0.0582	0.0000	OK
15 minute winter	7	10	100.209	0.050	9.7	0.0619	0.0000	OK
15 minute winter	8	10	99.284	0.061	13.9	0.0739	0.0000	OK
15 minute winter	4	17	99.072	0.556	26.0	8.9685	0.0000	SURCHARGED
15 minute winter	5	41	97.466	0.919	4.1	1.0395	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute winter	1	1.000	2	3.2	0.752	0.079	0.0254	
15 minute winter	2	1.001	3	12.5	1.867	0.312	0.1483	
15 minute winter	3	1.002	4	12.2	1.790	0.343	0.1707	
15 minute winter	6	2.000	7	6.1	1.373	0.152	0.0788	
15 minute winter	7	2.001	8	9.6	1.619	0.239	0.1108	
15 minute winter	8	2.002	4	13.8	1.611	0.344	0.1717	
15 minute winter	4	1.003	5	4.1	0.959	0.102	0.4015	
15 minute winter	5	Depth/Flow		3.8				12.3

Results for 30 year 30 minute summer. 270 minute analysis at 1 minute timestep. Mass balance: 99.59%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
30 minute summer	1	18	101.077	0.026	2.7	0.0347	0.0000	OK
30 minute summer	2	18	100.809	0.053	10.5	0.0810	0.0000	OK
30 minute summer	3	18	99.703	0.058	10.5	0.0653	0.0000	OK
30 minute summer	6	18	101.086	0.036	5.1	0.0533	0.0000	OK
30 minute summer	7	18	100.205	0.046	8.1	0.0567	0.0000	OK
30 minute summer	8	18	99.279	0.056	11.7	0.0676	0.0000	OK
30 minute summer	4	26	99.061	0.545	22.2	8.7912	0.0000	SURCHARGED
30 minute summer	5	52	97.483	0.936	4.1	1.0587	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
30 minute summer	1	1.000	2	2.7	0.726	0.068	0.0224	
30 minute summer	2	1.001	3	10.5	1.784	0.263	0.1309	
30 minute summer	3	1.002	4	10.5	1.722	0.294	0.1599	
30 minute summer	6	2.000	7	5.1	1.306	0.128	0.0697	
30 minute summer	7	2.001	8	8.1	1.546	0.203	0.0982	
30 minute summer	8	2.002	4	11.7	1.383	0.293	0.1664	
30 minute summer	4	1.003	5	4.1	0.753	0.102	0.4015	
30 minute summer	5	Depth/Flow		3.9				14.0

Results for 30 year 30 minute winter. 270 minute analysis at 1 minute timestep. Mass balance: 99.58%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
30 minute winter	1	18	101.075	0.025	2.4	0.0328	0.0000	OK
30 minute winter	2	18	100.806	0.050	9.5	0.0768	0.0000	OK
30 minute winter	3	18	99.700	0.055	9.5	0.0618	0.0000	OK
30 minute winter	6	18	101.084	0.034	4.6	0.0506	0.0000	OK
30 minute winter	7	18	100.203	0.043	7.3	0.0538	0.0000	OK
30 minute winter	8	18	99.276	0.053	10.6	0.0642	0.0000	OK
30 minute winter	4	29	99.141	0.625	20.1	10.0812	0.0000	SURCHARGED
30 minute winter	5	56	97.498	0.951	4.1	1.0752	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
30 minute winter	1	1.000	2	2.4	0.697	0.060	0.0208	
30 minute winter	2	1.001	3	9.5	1.738	0.238	0.1215	
30 minute winter	3	1.002	4	9.5	1.678	0.266	0.1883	
30 minute winter	6	2.000	7	4.6	1.269	0.115	0.0648	
30 minute winter	7	2.001	8	7.3	1.499	0.183	0.0913	
30 minute winter	8	2.002	4	10.6	1.405	0.265	0.1635	
30 minute winter	4	1.003	5	4.1	0.793	0.102	0.4015	
30 minute winter	5	Depth/Flow		4.0				15.7

Results for 30 year 60 minute summer. 300 minute analysis at 1 minute timestep. Mass balance: 99.73%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute summer	1	33	101.073	0.023	2.0	0.0300	0.0000	OK
60 minute summer	2	33	100.801	0.045	7.7	0.0687	0.0000	OK
60 minute summer	3	33	99.694	0.049	7.7	0.0551	0.0000	OK
60 minute summer	6	33	101.081	0.031	3.7	0.0454	0.0000	OK
60 minute summer	7	33	100.198	0.039	5.9	0.0483	0.0000	OK
60 minute summer	8	33	99.270	0.047	8.5	0.0572	0.0000	OK
60 minute summer	4	43	99.051	0.535	16.2	8.6345	0.0000	SURCHARGED
60 minute summer	5	70	97.505	0.958	4.1	1.0838	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
60 minute summer	1	1.000	2	2.0	0.673	0.050	0.0179	
60 minute summer	2	1.001	3	7.7	1.645	0.193	0.1041	
60 minute summer	3	1.002	4	7.7	1.585	0.215	0.1499	
60 minute summer	6	2.000	7	3.7	1.190	0.093	0.0556	
60 minute summer	7	2.001	8	5.9	1.416	0.148	0.0782	
60 minute summer	8	2.002	4	8.5	1.289	0.213	0.1577	
60 minute summer	4	1.003	5	4.1	0.652	0.102	0.4015	
60 minute summer	5	Depth/Flow		4.0				17.1

Results for 30 year 60 minute winter. 300 minute analysis at 1 minute timestep. Mass balance: 99.71%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute winter	1	32	101.071	0.021	1.6	0.0269	0.0000	OK
60 minute winter	2	33	100.796	0.040	6.2	0.0614	0.0000	OK
60 minute winter	3	33	99.688	0.043	6.2	0.0491	0.0000	OK
60 minute winter	6	33	101.078	0.028	3.0	0.0410	0.0000	OK
60 minute winter	7	33	100.194	0.035	4.8	0.0435	0.0000	OK
60 minute winter	8	33	99.265	0.042	6.9	0.0513	0.0000	OK
60 minute winter	4	47	99.113	0.597	13.1	9.6353	0.0000	SURCHARGED
60 minute winter	5	76	97.510	0.963	4.1	1.0890	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
60 minute winter	1	1.000	2	1.6	0.635	0.040	0.0153	
60 minute winter	2	1.001	3	6.2	1.553	0.155	0.0888	
60 minute winter	3	1.002	4	6.2	1.495	0.174	0.1805	
60 minute winter	6	2.000	7	3.0	1.118	0.075	0.0480	
60 minute winter	7	2.001	8	4.8	1.336	0.120	0.0674	
60 minute winter	8	2.002	4	6.9	1.255	0.173	0.1531	
60 minute winter	4	1.003	5	4.1	0.687	0.102	0.4015	
60 minute winter	5	Depth/Flow		4.0				19.1

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

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
120 minute summer	1	64	101.068	0.018	1.2	0.0235	0.0000	OK
120 minute summer	2	64	100.791	0.035	4.8	0.0539	0.0000	OK
120 minute summer	3	64	99.683	0.038	4.8	0.0430	0.0000	OK
120 minute summer	6	64	101.075	0.024	2.3	0.0360	0.0000	OK
120 minute summer	7	64	100.190	0.031	3.7	0.0382	0.0000	OK
120 minute summer	8	64	99.260	0.037	5.4	0.0454	0.0000	OK
120 minute summer	4	78	98.962	0.446	10.2	7.1868	0.0000	SURCHARGED
120 minute summer	5	96	97.505	0.958	4.1	1.0839	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
120 minute summer	1	1.000	2	1.2	0.573	0.030	0.0127	
120 minute summer	2	1.001	3	4.8	1.448	0.120	0.0737	
120 minute summer	3	1.002	4	4.8	1.392	0.134	0.0614	
120 minute summer	6	2.000	7	2.3	1.032	0.058	0.0399	
120 minute summer	7	2.001	8	3.7	1.233	0.093	0.0564	
120 minute summer	8	2.002	4	5.4	1.129	0.135	0.1485	
120 minute summer	4	1.003	5	4.1	0.535	0.102	0.4015	
120 minute summer	5	Depth/Flow		4.0				20.2

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

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
120 minute winter	1	64	101.067	0.016	1.0	0.0216	0.0000	OK
120 minute winter	2	64	100.787	0.031	3.8	0.0480	0.0000	OK
120 minute winter	3	64	99.679	0.034	3.8	0.0381	0.0000	OK
120 minute winter	6	64	101.072	0.022	1.8	0.0320	0.0000	OK
120 minute winter	7	64	100.186	0.027	2.9	0.0339	0.0000	OK
120 minute winter	8	64	99.256	0.033	4.2	0.0400	0.0000	OK
120 minute winter	4	82	98.970	0.454	8.0	7.3205	0.0000	SURCHARGED
120 minute winter	5	100	97.514	0.967	4.1	1.0933	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
120 minute winter	1	1.000	2	1.0	0.556	0.025	0.0109	
120 minute winter	2	1.001	3	3.8	1.356	0.095	0.0623	
120 minute winter	3	1.002	4	3.8	1.304	0.106	0.0519	
120 minute winter	6	2.000	7	1.8	0.971	0.045	0.0336	
120 minute winter	7	2.001	8	2.9	1.151	0.073	0.0473	
120 minute winter	8	2.002	4	4.2	1.128	0.105	0.1446	
120 minute winter	4	1.003	5	4.1	0.579	0.102	0.4015	
120 minute winter	5	Depth/Flow		4.0				22.6

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

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
180 minute summer	1	96	101.066	0.016	0.9	0.0205	0.0000	OK
180 minute summer	2	96	100.786	0.030	3.5	0.0461	0.0000	OK
180 minute summer	3	96	99.677	0.032	3.5	0.0366	0.0000	OK
180 minute summer	6	96	101.071	0.021	1.7	0.0311	0.0000	OK
180 minute summer	7	96	100.186	0.026	2.7	0.0328	0.0000	OK
180 minute summer	8	96	99.255	0.032	3.9	0.0385	0.0000	OK
180 minute summer	4	112	98.866	0.350	7.4	5.6515	0.0000	SURCHARGED
180 minute summer	5	124	97.490	0.943	4.0	1.0668	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
180 minute summer	1	1.000	2	0.9	0.534	0.023	0.0102	
180 minute summer	2	1.001	3	3.5	1.325	0.088	0.0587	
180 minute summer	3	1.002	4	3.5	1.274	0.098	0.0490	
180 minute summer	6	2.000	7	1.7	0.948	0.043	0.0321	
180 minute summer	7	2.001	8	2.7	1.128	0.068	0.0449	
180 minute summer	8	2.002	4	3.9	1.070	0.098	0.1435	
180 minute summer	4	1.003	5	4.0	0.473	0.101	0.4012	
180 minute summer	5	Depth/Flow		3.9				22.1

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	92	101.064	0.014	0.7	0.0182	0.0000	OK
180 minute winter	2	96	100.783	0.026	2.7	0.0406	0.0000	OK
180 minute winter	3	96	99.673	0.028	2.7	0.0321	0.0000	OK
180 minute winter	6	92	101.069	0.019	1.3	0.0274	0.0000	OK
180 minute winter	7	96	100.182	0.023	2.1	0.0290	0.0000	OK
180 minute winter	8	96	99.251	0.028	3.0	0.0339	0.0000	OK
180 minute winter	4	116	98.837	0.321	5.7	5.1821	0.0000	SURCHARGED
180 minute winter	5	128	97.490	0.943	4.0	1.0668	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
180 minute winter	1	1.000	2	0.7	0.506	0.018	0.0085	
180 minute winter	2	1.001	3	2.7	1.228	0.068	0.0489	
180 minute winter	3	1.002	4	2.7	1.182	0.076	0.0407	
180 minute winter	6	2.000	7	1.3	0.885	0.033	0.0267	
180 minute winter	7	2.001	8	2.1	1.052	0.053	0.0375	
180 minute winter	8	2.002	4	3.0	0.959	0.075	0.1403	
180 minute winter	4	1.003	5	4.0	0.489	0.100	0.4008	
180 minute winter	5	Depth/Flow		3.9				24.5

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

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
240 minute summer	1	124	101.065	0.015	0.8	0.0193	0.0000	OK
240 minute summer	2	124	100.784	0.028	3.0	0.0426	0.0000	OK
240 minute summer	3	124	99.675	0.030	3.0	0.0336	0.0000	OK
240 minute summer	6	124	101.069	0.019	1.4	0.0283	0.0000	OK
240 minute summer	7	124	100.183	0.024	2.2	0.0296	0.0000	OK
240 minute summer	8	124	99.252	0.029	3.2	0.0348	0.0000	OK
240 minute summer	4	140	98.797	0.281	6.1	4.5360	0.0000	SURCHARGED
240 minute summer	5	152	97.459	0.912	3.9	1.0314	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
240 minute summer	1	1.000	2	0.8	0.522	0.020	0.0092	
240 minute summer	2	1.001	3	3.0	1.267	0.074	0.0522	
240 minute summer	3	1.002	4	2.9	1.213	0.083	0.0433	
240 minute summer	6	2.000	7	1.4	0.897	0.035	0.0278	
240 minute summer	7	2.001	8	2.2	1.059	0.055	0.0388	
240 minute summer	8	2.002	4	3.2	0.964	0.079	0.1410	
240 minute summer	4	1.003	5	3.9	0.453	0.098	0.4001	
240 minute summer	5	Depth/Flow		3.8				23.3

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	124	101.063	0.013	0.6	0.0169	0.0000	OK
240 minute winter	2	124	100.780	0.024	2.2	0.0367	0.0000	OK
240 minute winter	3	128	99.671	0.026	2.2	0.0290	0.0000	OK
240 minute winter	6	124	101.067	0.017	1.1	0.0253	0.0000	OK
240 minute winter	7	124	100.180	0.021	1.7	0.0261	0.0000	OK
240 minute winter	8	124	99.248	0.025	2.4	0.0303	0.0000	OK
240 minute winter	4	144	98.748	0.232	4.6	3.7377	0.0000	SURCHARGED
240 minute winter	5	156	97.432	0.885	3.8	1.0012	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
240 minute winter	1	1.000	2	0.6	0.486	0.015	0.0074	
240 minute winter	2	1.001	3	2.2	1.157	0.055	0.0422	
240 minute winter	3	1.002	4	2.2	1.113	0.062	0.0352	
240 minute winter	6	2.000	7	1.1	0.840	0.027	0.0233	
240 minute winter	7	2.001	8	1.7	0.991	0.042	0.0320	
240 minute winter	8	2.002	4	2.4	0.993	0.060	0.1379	
240 minute winter	4	1.003	5	3.8	0.455	0.094	0.3986	
240 minute winter	5	Depth/Flow		3.7				26.4

Results for 30 year 360 minute summer. 600 minute analysis at 8 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
360 minute summer	1	184	101.063	0.013	0.6	0.0169	0.0000	OK
360 minute summer	2	184	100.780	0.024	2.2	0.0366	0.0000	OK
360 minute summer	3	184	99.670	0.025	2.2	0.0288	0.0000	OK
360 minute summer	6	184	101.067	0.017	1.1	0.0253	0.0000	OK
360 minute summer	7	184	100.180	0.021	1.7	0.0260	0.0000	OK
360 minute summer	8	184	99.248	0.025	2.4	0.0302	0.0000	OK
360 minute summer	4	200	98.704	0.188	4.5	3.0397	0.0000	SURCHARGED
360 minute summer	5	208	97.368	0.821	3.6	0.9281	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
360 minute summer	1	1.000	2	0.6	0.485	0.015	0.0074	
360 minute summer	2	1.001	3	2.2	1.158	0.055	0.0420	
360 minute summer	3	1.002	4	2.2	1.109	0.061	0.0349	
360 minute summer	6	2.000	7	1.1	0.841	0.027	0.0232	
360 minute summer	7	2.001	8	1.7	0.991	0.042	0.0319	
360 minute summer	8	2.002	4	2.4	0.774	0.059	0.1379	
360 minute summer	4	1.003	5	3.6	0.332	0.089	0.3965	
360 minute summer	5	Depth/Flow		3.4				25.8

Results for 30 year 360 minute winter. 600 minute analysis at 8 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
360 minute winter	1	176	101.061	0.011	0.4	0.0141	0.0000	OK
360 minute winter	2	184	100.777	0.021	1.6	0.0315	0.0000	OK
360 minute winter	3	184	99.667	0.022	1.6	0.0247	0.0000	OK
360 minute winter	6	184	101.065	0.015	0.8	0.0217	0.0000	OK
360 minute winter	7	184	100.178	0.019	1.3	0.0229	0.0000	OK
360 minute winter	8	184	99.245	0.022	1.8	0.0263	0.0000	OK
360 minute winter	4	192	98.657	0.141	3.4	2.2788	0.0000	OK
360 minute winter	5	216	97.273	0.726	3.1	0.8212	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
360 minute winter	1	1.000	2	0.4	0.426	0.010	0.0059	
360 minute winter	2	1.001	3	1.6	1.055	0.040	0.0336	
360 minute winter	3	1.002	4	1.6	1.013	0.045	0.0280	
360 minute winter	6	2.000	7	0.8	0.751	0.020	0.0190	
360 minute winter	7	2.001	8	1.3	0.921	0.032	0.0263	
360 minute winter	8	2.002	4	1.8	0.877	0.045	0.1320	
360 minute winter	4	1.003	5	3.1	0.299	0.079	0.3924	
360 minute winter	5	Depth/Flow		3.0				28.4

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

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
480 minute summer	1	240	101.061	0.011	0.4	0.0141	0.0000	OK
480 minute summer	2	248	100.777	0.021	1.6	0.0315	0.0000	OK
480 minute summer	3	248	99.667	0.022	1.6	0.0248	0.0000	OK
480 minute summer	6	248	101.065	0.015	0.8	0.0218	0.0000	OK
480 minute summer	7	248	100.178	0.019	1.3	0.0230	0.0000	OK
480 minute summer	8	248	99.245	0.022	1.9	0.0271	0.0000	OK
480 minute summer	4	256	98.662	0.146	3.5	2.3579	0.0000	OK
480 minute summer	5	264	97.282	0.735	3.2	0.8313	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
480 minute summer	1	1.000	2	0.4	0.424	0.010	0.0059	
480 minute summer	2	1.001	3	1.6	1.055	0.040	0.0337	
480 minute summer	3	1.002	4	1.6	1.015	0.045	0.0281	
480 minute summer	6	2.000	7	0.8	0.751	0.020	0.0191	
480 minute summer	7	2.001	8	1.3	0.904	0.033	0.0270	
480 minute summer	8	2.002	4	1.9	0.834	0.048	0.1341	
480 minute summer	4	1.003	5	3.2	0.367	0.081	0.3933	
480 minute summer	5	Depth/Flow		3.1				27.2

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	216	101.059	0.009	0.3	0.0123	0.0000	OK
480 minute winter	2	232	100.774	0.018	1.2	0.0275	0.0000	OK
480 minute winter	3	232	99.664	0.019	1.2	0.0216	0.0000	OK
480 minute winter	6	232	101.063	0.013	0.6	0.0190	0.0000	OK
480 minute winter	7	248	100.176	0.016	1.0	0.0204	0.0000	OK
480 minute winter	8	248	99.242	0.019	1.4	0.0235	0.0000	OK
480 minute winter	4	256	98.631	0.115	2.6	1.8581	0.0000	OK
480 minute winter	5	280	97.139	0.592	2.5	0.6696	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
480 minute winter	1	1.000	2	0.3	0.395	0.008	0.0048	
480 minute winter	2	1.001	3	1.2	0.968	0.030	0.0276	
480 minute winter	3	1.002	4	1.2	0.932	0.034	0.0230	
480 minute winter	6	2.000	7	0.6	0.708	0.015	0.0158	
480 minute winter	7	2.001	8	1.0	0.848	0.025	0.0221	
480 minute winter	8	2.002	4	1.4	0.666	0.035	0.1118	
480 minute winter	4	1.003	5	2.5	0.365	0.064	0.3861	
480 minute winter	5	Depth/Flow		2.5				31.0

Results for 30 year 600 minute summer. 840 minute analysis at 15 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
600 minute summer	1	300	101.059	0.009	0.3	0.0123	0.0000	OK
600 minute summer	2	315	100.775	0.019	1.3	0.0285	0.0000	OK
600 minute summer	3	315	99.665	0.020	1.3	0.0224	0.0000	OK
600 minute summer	6	315	101.064	0.014	0.7	0.0204	0.0000	OK
600 minute summer	7	315	100.176	0.017	1.1	0.0213	0.0000	OK
600 minute summer	8	315	99.244	0.021	1.6	0.0250	0.0000	OK
600 minute summer	4	315	98.641	0.125	2.9	2.0132	0.0000	OK
600 minute summer	5	330	97.190	0.643	2.8	0.7271	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
600 minute summer	1	1.000	2	0.3	0.394	0.008	0.0050	
600 minute summer	2	1.001	3	1.3	0.992	0.033	0.0291	
600 minute summer	3	1.002	4	1.3	0.955	0.036	0.0243	
600 minute summer	6	2.000	7	0.7	0.729	0.018	0.0172	
600 minute summer	7	2.001	8	1.1	0.861	0.028	0.0240	
600 minute summer	8	2.002	4	1.6	0.396	0.040	0.1209	
600 minute summer	4	1.003	5	2.8	0.234	0.070	0.3887	
600 minute summer	5	Depth/Flow		2.7				27.4

Results for 30 year 600 minute winter. 840 minute analysis at 15 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
600 minute winter	1	300	101.059	0.009	0.3	0.0123	0.0000	OK
600 minute winter	2	315	100.773	0.017	1.1	0.0264	0.0000	OK
600 minute winter	3	315	99.663	0.018	1.1	0.0207	0.0000	OK
600 minute winter	6	300	101.062	0.012	0.5	0.0175	0.0000	OK
600 minute winter	7	300	100.174	0.015	0.8	0.0183	0.0000	OK
600 minute winter	8	315	99.241	0.018	1.2	0.0218	0.0000	OK
600 minute winter	4	315	98.621	0.105	2.3	1.6888	0.0000	OK
600 minute winter	5	315	97.071	0.524	2.3	0.5932	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
600 minute winter	1	1.000	2	0.3	0.410	0.008	0.0046	
600 minute winter	2	1.001	3	1.1	0.943	0.028	0.0259	
600 minute winter	3	1.002	4	1.1	0.907	0.031	0.0216	
600 minute winter	6	2.000	7	0.5	0.656	0.013	0.0137	
600 minute winter	7	2.001	8	0.8	0.798	0.020	0.0194	
600 minute winter	8	2.002	4	1.2	0.650	0.030	0.1011	
600 minute winter	4	1.003	5	2.3	0.278	0.057	0.3830	
600 minute winter	5	Depth/Flow		2.2				31.8

Results for 30 year 720 minute summer. 960 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
720 minute summer	1	360	101.059	0.009	0.3	0.0123	0.0000	OK
720 minute summer	2	375	100.774	0.018	1.2	0.0275	0.0000	OK
720 minute summer	3	375	99.664	0.019	1.2	0.0216	0.0000	OK
720 minute summer	6	375	101.063	0.013	0.6	0.0190	0.0000	OK
720 minute summer	7	375	100.175	0.016	0.9	0.0194	0.0000	OK
720 minute summer	8	375	99.242	0.019	1.3	0.0226	0.0000	OK
720 minute summer	4	375	98.627	0.111	2.5	1.7888	0.0000	OK
720 minute summer	5	390	97.111	0.564	2.4	0.6374	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
720 minute summer	1	1.000	2	0.3	0.411	0.008	0.0048	
720 minute summer	2	1.001	3	1.2	0.968	0.030	0.0276	
720 minute summer	3	1.002	4	1.2	0.932	0.034	0.0230	
720 minute summer	6	2.000	7	0.6	0.708	0.015	0.0151	
720 minute summer	7	2.001	8	0.9	0.813	0.023	0.0208	
720 minute summer	8	2.002	4	1.3	0.396	0.033	0.1075	
720 minute summer	4	1.003	5	2.4	0.225	0.061	0.3849	
720 minute summer	5	Depth/Flow		2.3				28.4

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	300	101.058	0.008	0.2	0.0102	0.0000	OK
720 minute winter	2	375	100.772	0.016	0.9	0.0240	0.0000	OK
720 minute winter	3	375	99.662	0.017	0.9	0.0188	0.0000	OK
720 minute winter	6	330	101.061	0.011	0.4	0.0158	0.0000	OK
720 minute winter	7	375	100.173	0.014	0.7	0.0172	0.0000	OK
720 minute winter	8	375	99.239	0.016	1.0	0.0200	0.0000	OK
720 minute winter	4	375	98.607	0.091	1.9	1.4759	0.0000	OK
720 minute winter	5	390	96.982	0.435	1.9	0.4924	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
720 minute winter	1	1.000	2	0.2	0.382	0.005	0.0038	
720 minute winter	2	1.001	3	0.9	0.888	0.023	0.0225	
720 minute winter	3	1.002	4	0.9	0.855	0.025	0.0188	
720 minute winter	6	2.000	7	0.4	0.624	0.010	0.0122	
720 minute winter	7	2.001	8	0.7	0.755	0.018	0.0174	
720 minute winter	8	2.002	4	1.0	0.341	0.025	0.0869	
720 minute winter	4	1.003	5	1.9	0.223	0.047	0.3784	
720 minute winter	5	Depth/Flow		1.8				32.0

Results for 30 year 960 minute summer. 1200 minute analysis at 15 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
960 minute summer	1	450	101.058	0.008	0.2	0.0102	0.0000	OK
960 minute summer	2	495	100.772	0.016	0.9	0.0240	0.0000	OK
960 minute summer	3	495	99.662	0.017	0.9	0.0188	0.0000	OK
960 minute summer	6	495	101.062	0.012	0.5	0.0175	0.0000	OK
960 minute summer	7	495	100.174	0.015	0.8	0.0183	0.0000	OK
960 minute summer	8	495	99.240	0.017	1.1	0.0209	0.0000	OK
960 minute summer	4	495	98.611	0.094	2.0	1.5244	0.0000	OK
960 minute summer	5	510	97.004	0.457	2.0	0.5164	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
960 minute summer	1	1.000	2	0.2	0.357	0.005	0.0038	
960 minute summer	2	1.001	3	0.9	0.888	0.023	0.0225	
960 minute summer	3	1.002	4	0.9	0.855	0.025	0.0188	
960 minute summer	6	2.000	7	0.5	0.656	0.013	0.0137	
960 minute summer	7	2.001	8	0.8	0.800	0.020	0.0188	
960 minute summer	8	2.002	4	1.1	0.193	0.028	0.0905	
960 minute summer	4	1.003	5	2.0	0.245	0.049	0.3795	
960 minute summer	5	Depth/Flow		1.9				28.4

Results for 30 year 960 minute winter. 1200 minute analysis at 15 minute timestep. Mass balance: 98.97%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
960 minute winter	1	435	101.058	0.008	0.2	0.0102	0.0000	OK
960 minute winter	2	450	100.770	0.014	0.7	0.0213	0.0000	OK
960 minute winter	3	450	99.660	0.015	0.7	0.0167	0.0000	OK
960 minute winter	6	405	101.059	0.009	0.3	0.0138	0.0000	OK
960 minute winter	7	420	100.171	0.012	0.5	0.0147	0.0000	OK
960 minute winter	8	420	99.237	0.014	0.7	0.0169	0.0000	OK
960 minute winter	4	450	98.592	0.076	1.4	1.2254	0.0000	OK
960 minute winter	5	570	96.867	0.320	1.4	0.3621	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
960 minute winter	1	1.000	2	0.2	0.380	0.005	0.0034	
960 minute winter	2	1.001	3	0.7	0.824	0.018	0.0189	
960 minute winter	3	1.002	4	0.7	0.793	0.020	0.0157	
960 minute winter	6	2.000	7	0.3	0.600	0.008	0.0098	
960 minute winter	7	2.001	8	0.5	0.690	0.013	0.0136	
960 minute winter	8	2.002	4	0.7	0.341	0.018	0.0690	
960 minute winter	4	1.003	5	1.4	0.223	0.035	0.3723	
960 minute winter	5	Depth/Flow		1.3				32.4

Results for 30 year 1440 minute summer. 1680 minute analysis at 30 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
1440 minute summer	1	750	101.058	0.008	0.2	0.0102	0.0000	OK
1440 minute summer	2	750	100.770	0.014	0.7	0.0213	0.0000	OK
1440 minute summer	3	750	99.660	0.015	0.7	0.0167	0.0000	OK
1440 minute summer	6	720	101.059	0.009	0.3	0.0138	0.0000	OK
1440 minute summer	7	720	100.171	0.012	0.5	0.0147	0.0000	OK
1440 minute summer	8	720	99.237	0.014	0.7	0.0169	0.0000	OK
1440 minute summer	4	750	98.592	0.076	1.4	1.2255	0.0000	OK
1440 minute summer	5	780	96.867	0.320	1.4	0.3622	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
1440 minute summer	1	1.000	2	0.2	0.368	0.005	0.0034	
1440 minute summer	2	1.001	3	0.7	0.824	0.018	0.0189	
1440 minute summer	3	1.002	4	0.7	0.793	0.020	0.0157	
1440 minute summer	6	2.000	7	0.3	0.550	0.008	0.0098	
1440 minute summer	7	2.001	8	0.5	0.690	0.013	0.0136	
1440 minute summer	8	2.002	4	0.7	0.183	0.018	0.0690	
1440 minute summer	4	1.003	5	1.4	0.191	0.035	0.3723	
1440 minute summer	5	Depth/Flow		1.3				28.0

Results for 30 year 1440 minute winter. 1680 minute analysis at 30 minute timestep. Mass balance: 99.41%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
1440 minute winter	1	510	101.056	0.006	0.1	0.0074	0.0000	OK
1440 minute winter	2	720	100.768	0.012	0.5	0.0182	0.0000	OK
1440 minute winter	3	720	99.658	0.013	0.5	0.0142	0.0000	OK
1440 minute winter	6	600	101.058	0.008	0.2	0.0114	0.0000	OK
1440 minute winter	7	600	100.168	0.009	0.3	0.0116	0.0000	OK
1440 minute winter	8	690	99.235	0.012	0.5	0.0144	0.0000	OK
1440 minute winter	4	720	98.579	0.063	1.0	1.0094	0.0000	OK
1440 minute winter	5	810	96.776	0.229	1.0	0.2590	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
1440 minute winter	1	1.000	2	0.1	0.306	0.003	0.0025	
1440 minute winter	2	1.001	3	0.5	0.744	0.013	0.0149	
1440 minute winter	3	1.002	4	0.5	0.717	0.014	0.0124	
1440 minute winter	6	2.000	7	0.2	0.504	0.005	0.0071	
1440 minute winter	7	2.001	8	0.3	0.601	0.008	0.0103	
1440 minute winter	8	2.002	4	0.5	0.179	0.013	0.0537	
1440 minute winter	4	1.003	5	1.0	0.191	0.025	0.3669	
1440 minute winter	5	Depth/Flow		1.0				32.9

Results for 100 year +40% CC 15 minute summer. 255 minute analysis at 1 minute timestep. Mass balance: 98.65%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	1	10	101.088	0.038	5.6	0.0497	0.0000	OK
15 minute summer	2	10	100.836	0.080	21.8	0.1230	0.0000	OK
15 minute summer	3	10	99.734	0.089	21.6	0.1004	0.0000	OK
15 minute summer	6	10	101.103	0.053	10.6	0.0774	0.0000	OK
15 minute summer	7	10	100.227	0.068	16.7	0.0835	0.0000	OK
15 minute summer	8	18	99.485	0.262	24.1	0.3190	0.0000	SURCHARGED
15 minute summer	4	18	99.484	0.968	44.3	15.6203	0.0000	SURCHARGED
15 minute summer	5	73	97.504	0.957	4.1	1.0820	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	1	1.000	2	5.6	0.865	0.139	0.0384	
15 minute summer	2	1.001	3	21.6	2.158	0.541	0.2271	
15 minute summer	3	1.002	4	21.4	2.043	0.599	0.2457	
15 minute summer	6	2.000	7	10.5	1.600	0.264	0.1176	
15 minute summer	7	2.001	8	16.6	1.787	0.416	0.2275	
15 minute summer	8	2.002	4	22.9	1.706	0.573	0.2488	
15 minute summer	4	1.003	5	4.1	1.009	0.102	0.4015	
15 minute summer	5	Depth/Flow		4.0				20.1

Results for 100 year +40% CC 15 minute winter. 255 minute analysis at 1 minute timestep. Mass balance: 98.59%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	1	10	101.089	0.039	5.9	0.0510	0.0000	OK
15 minute winter	2	10	100.839	0.083	22.8	0.1268	0.0000	OK
15 minute winter	3	10	99.736	0.091	22.7	0.1030	0.0000	OK
15 minute winter	6	10	101.104	0.054	11.1	0.0793	0.0000	OK
15 minute winter	7	10	100.228	0.069	17.5	0.0857	0.0000	OK
15 minute winter	8	18	99.610	0.387	25.3	0.4705	0.0000	SURCHARGED
15 minute winter	4	18	99.609	1.093	46.8	17.6251	0.0000	SURCHARGED
15 minute winter	5	84	97.505	0.958	4.1	1.0830	0.0000	OK
Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute winter	1	1.000	2	5.9	0.876	0.147	0.0399	
15 minute winter	2	1.001	3	22.7	2.175	0.567	0.2349	
15 minute winter	3	1.002	4	23.0	2.008	0.643	0.2485	
15 minute winter	6	2.000	7	11.0	1.619	0.276	0.1216	
15 minute winter	7	2.001	8	17.4	1.757	0.435	0.2376	
15 minute winter	8	2.002	4	23.9	1.781	0.597	0.2488	
15 minute winter	4	1.003	5	4.1	1.028	0.102	0.4015	
15 minute winter	5	Depth/Flow		4.0				22.6

Results for 100 year +40% CC 30 minute summer. 270 minute analysis at 1 minute timestep. Mass balance: 98.99%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
30 minute summer	1	18	101.086	0.036	4.9	0.0466	0.0000	OK
30 minute summer	2	18	100.831	0.075	19.2	0.1154	0.0000	OK
30 minute summer	3	17	99.726	0.081	19.2	0.0913	0.0000	OK
30 minute summer	6	18	101.099	0.049	9.3	0.0725	0.0000	OK
30 minute summer	7	18	100.222	0.063	14.8	0.0782	0.0000	OK
30 minute summer	8	32	99.652	0.429	21.4	0.5216	0.0000	SURCHARGED
30 minute summer	4	32	99.650	1.134	39.2	18.2999	0.0000	SURCHARGED
30 minute summer	5	102	97.505	0.958	4.1	1.0833	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
30 minute summer	1	1.000	2	4.9	0.836	0.123	0.0353	
30 minute summer	2	1.001	3	19.2	2.118	0.480	0.2037	
30 minute summer	3	1.002	4	19.2	1.906	0.537	0.2397	
30 minute summer	6	2.000	7	9.3	1.543	0.233	0.1076	
30 minute summer	7	2.001	8	14.8	1.671	0.370	0.2274	
30 minute summer	8	2.002	4	20.0	1.542	0.501	0.2488	
30 minute summer	4	1.003	5	4.1	0.860	0.102	0.4015	
30 minute summer	5	Depth/Flow		4.0				25.8

Results for 100 year +40% CC 30 minute winter. 270 minute analysis at 1 minute timestep. Mass balance: 99.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
30 minute winter	1	18	101.084	0.034	4.5	0.0446	0.0000	OK
30 minute winter	2	18	100.827	0.071	17.4	0.1087	0.0000	OK
30 minute winter	3	32	99.977	0.332	17.4	0.3755	0.0000	SURCHARGED
30 minute winter	6	18	101.097	0.047	8.5	0.0692	0.0000	OK
30 minute winter	7	18	100.219	0.060	13.5	0.0744	0.0000	OK
30 minute winter	8	32	99.977	0.754	19.5	0.9168	0.0000	SURCHARGED
30 minute winter	4	32	99.975	1.459	35.2	19.7247	0.0000	FLOOD RISK
30 minute winter	5	114	97.505	0.958	4.2	1.0835	0.0000	OK
Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
30 minute winter	1	1.000	2	4.5	0.820	0.113	0.0329	
30 minute winter	2	1.001	3	17.4	2.068	0.435	0.2265	
30 minute winter	3	1.002	4	17.4	1.842	0.487	0.3137	
30 minute winter	6	2.000	7	8.5	1.507	0.213	0.1007	
30 minute winter	7	2.001	8	13.5	1.657	0.338	0.2244	
30 minute winter	8	2.002	4	18.2	1.626	0.454	0.2488	
30 minute winter	4	1.003	5	4.2	0.901	0.105	0.4028	
30 minute winter	5	Depth/Flow		4.0				29.0

Results for 100 year +40% CC 60 minute summer. 300 minute analysis at 1 minute timestep. Mass balance: 99.43%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute summer	1	33	101.081	0.030	3.6	0.0399	0.0000	OK
60 minute summer	2	33	100.819	0.063	14.0	0.0958	0.0000	OK
60 minute summer	3	33	99.710	0.065	14.0	0.0738	0.0000	OK
60 minute summer	6	33	101.092	0.042	6.8	0.0617	0.0000	OK
60 minute summer	7	33	100.212	0.053	10.8	0.0659	0.0000	OK
60 minute summer	8	52	99.684	0.461	15.6	0.5608	0.0000	SURCHARGED
60 minute summer	4	55	99.682	1.166	28.7	18.8076	0.0000	SURCHARGED
60 minute summer	5	132	97.505	0.958	4.1	1.0835	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
60 minute summer	1	1.000	2	3.6	0.776	0.090	0.0279	
60 minute summer	2	1.001	3	14.0	1.959	0.350	0.1587	
60 minute summer	3	1.002	4	14.0	1.743	0.392	0.2223	
60 minute summer	6	2.000	7	6.8	1.417	0.170	0.0857	
60 minute summer	7	2.001	8	10.8	1.600	0.270	0.2125	
60 minute summer	8	2.002	4	14.8	1.418	0.370	0.2488	
60 minute summer	4	1.003	5	4.1	0.760	0.102	0.4015	
60 minute summer	5	Depth/Flow		4.0				31.5

Results for 100 year +40% CC 60 minute winter. 300 minute analysis at 1 minute timestep. Mass balance: 99.53%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute winter	1	32	101.077	0.027	2.9	0.0359	0.0000	OK
60 minute winter	2	33	100.811	0.055	11.3	0.0850	0.0000	OK
60 minute winter	3	53	100.120	0.475	11.3	0.5375	0.0000	SURCHARGED
60 minute winter	6	33	101.088	0.038	5.5	0.0554	0.0000	OK
60 minute winter	7	33	100.207	0.048	8.7	0.0589	0.0000	OK
60 minute winter	8	54	100.120	0.897	12.6	1.0911	0.0000	SURCHARGED
60 minute winter	4	54	100.117	1.601	23.0	19.8860	0.0000	FLOOD RISK
60 minute winter	5	64	97.553	1.006	4.4	1.1377	0.0000	OK
Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
60 minute winter	1	1.000	2	2.9	0.737	0.073	0.0238	
60 minute winter	2	1.001	3	11.3	1.854	0.283	0.2331	
60 minute winter	3	1.002	4	11.3	1.660	0.316	0.3137	
60 minute winter	6	2.000	7	5.5	1.337	0.138	0.0735	
60 minute winter	7	2.001	8	8.7	1.549	0.218	0.2095	
60 minute winter	8	2.002	4	11.8	1.429	0.295	0.2488	
60 minute winter	4	1.003	5	4.4	0.796	0.110	0.4046	
60 minute winter	5	Depth/Flow		4.2				35.3

Results for 100 year +40% CC 120 minute summer. 360 minute analysis at 2 minute timestep. Mass balance: 99.73%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
120 minute summer	1	64	101.075	0.024	2.3	0.0321	0.0000	OK
120 minute summer	2	64	100.805	0.049	8.9	0.0747	0.0000	OK
120 minute summer	3	64	99.696	0.051	8.9	0.0577	0.0000	OK
120 minute summer	6	64	101.083	0.033	4.3	0.0490	0.0000	OK
120 minute summer	7	64	100.201	0.042	6.8	0.0519	0.0000	OK
120 minute summer	8	86	99.608	0.385	9.8	0.4676	0.0000	SURCHARGED
120 minute summer	4	88	99.605	1.089	18.7	17.5732	0.0000	SURCHARGED
120 minute summer	5	174	97.505	0.958	4.1	1.0834	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
120 minute summer	1	1.000	2	2.3	0.693	0.058	0.0200	
120 minute summer	2	1.001	3	8.9	1.739	0.223	0.1137	
120 minute summer	3	1.002	4	8.9	1.591	0.249	0.2039	
120 minute summer	6	2.000	7	4.3	1.247	0.108	0.0616	
120 minute summer	7	2.001	8	6.8	1.474	0.170	0.1938	
120 minute summer	8	2.002	4	9.8	1.249	0.245	0.2488	
120 minute summer	4	1.003	5	4.1	0.624	0.102	0.4015	
120 minute summer	5	Depth/Flow		4.0				37.3

Results for 100 year +40% CC 120 minute winter. 360 minute analysis at 2 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
120 minute winter	1	64	101.072	0.022	1.8	0.0285	0.0000	OK
120 minute winter	2	64	100.799	0.043	6.9	0.0653	0.0000	OK
120 minute winter	3	92	99.760	0.115	6.9	0.1298	0.0000	OK
120 minute winter	6	64	101.079	0.029	3.3	0.0429	0.0000	OK
120 minute winter	7	64	100.196	0.037	5.3	0.0457	0.0000	OK
120 minute winter	8	94	99.760	0.537	7.6	0.6533	0.0000	SURCHARGED
120 minute winter	4	94	99.758	1.242	14.4	19.4797	0.0000	SURCHARGED
120 minute winter	5	188	97.505	0.958	4.1	1.0836	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
120 minute winter	1	1.000	2	1.8	0.652	0.045	0.0167	
120 minute winter	2	1.001	3	6.9	1.622	0.173	0.1789	
120 minute winter	3	1.002	4	6.9	1.481	0.193	0.2856	
120 minute winter	6	2.000	7	3.3	1.148	0.083	0.0514	
120 minute winter	7	2.001	8	5.3	1.374	0.133	0.1948	
120 minute winter	8	2.002	4	7.6	1.163	0.189	0.2488	
120 minute winter	4	1.003	5	4.1	0.629	0.102	0.4015	
120 minute winter	5	Depth/Flow		4.0				41.7

Results for 100 year +40% CC 180 minute summer. 420 minute analysis at 4 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
180 minute summer	1	96	101.071	0.021	1.7	0.0277	0.0000	OK
180 minute summer	2	96	100.797	0.041	6.5	0.0633	0.0000	OK
180 minute summer	3	96	99.688	0.043	6.5	0.0490	0.0000	OK
180 minute summer	6	96	101.078	0.028	3.1	0.0417	0.0000	OK
180 minute summer	7	96	100.195	0.036	4.9	0.0440	0.0000	OK
180 minute summer	8	124	99.493	0.270	7.1	0.3278	0.0000	SURCHARGED
180 minute summer	4	124	99.491	0.975	13.6	15.7271	0.0000	SURCHARGED
180 minute summer	5	208	97.507	0.960	4.1	1.0854	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
180 minute summer	1	1.000	2	1.7	0.642	0.043	0.0160	
180 minute summer	2	1.001	3	6.5	1.596	0.163	0.0905	
180 minute summer	3	1.002	4	6.5	1.428	0.182	0.1944	
180 minute summer	6	2.000	7	3.1	1.134	0.078	0.0489	
180 minute summer	7	2.001	8	4.9	1.340	0.123	0.1852	
180 minute summer	8	2.002	4	7.1	1.178	0.178	0.2488	
180 minute summer	4	1.003	5	4.1	0.607	0.102	0.4014	
180 minute summer	5	Depth/Flow		4.0				40.4

Results for 100 year +40% CC 180 minute winter. 420 minute analysis at 4 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
180 minute winter	1	96	101.069	0.019	1.3	0.0244	0.0000	OK
180 minute winter	2	96	100.792	0.036	5.0	0.0553	0.0000	OK
180 minute winter	3	96	99.683	0.038	5.0	0.0429	0.0000	OK
180 minute winter	6	96	101.075	0.025	2.4	0.0368	0.0000	OK
180 minute winter	7	96	100.190	0.031	3.8	0.0387	0.0000	OK
180 minute winter	8	132	99.594	0.371	5.5	0.4507	0.0000	SURCHARGED
180 minute winter	4	132	99.591	1.075	10.5	17.3471	0.0000	SURCHARGED
180 minute winter	5	224	97.505	0.958	4.1	1.0833	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
180 minute winter	1	1.000	2	1.3	0.594	0.033	0.0132	
180 minute winter	2	1.001	3	5.0	1.482	0.125	0.0749	
180 minute winter	3	1.002	4	5.0	1.353	0.140	0.1880	
180 minute winter	6	2.000	7	2.4	1.051	0.060	0.0408	
180 minute winter	7	2.001	8	3.8	1.246	0.095	0.1870	
180 minute winter	8	2.002	4	5.5	0.906	0.138	0.2488	
180 minute winter	4	1.003	5	4.1	0.512	0.102	0.4015	
180 minute winter	5	Depth/Flow		4.0				45.5

Results for 100 year +40% CC 240 minute summer. 480 minute analysis at 4 minute timestep. Mass balance: 99.88%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
240 minute summer	1	124	101.069	0.019	1.4	0.0252	0.0000	OK
240 minute summer	2	124	100.794	0.037	5.4	0.0574	0.0000	OK
240 minute summer	3	124	99.684	0.039	5.4	0.0445	0.0000	OK
240 minute summer	6	124	101.076	0.026	2.6	0.0382	0.0000	OK
240 minute summer	7	124	100.191	0.032	4.1	0.0401	0.0000	OK
240 minute summer	8	156	99.388	0.165	5.9	0.2002	0.0000	SURCHARGED
240 minute summer	4	156	99.386	0.870	11.2	14.0300	0.0000	SURCHARGED
240 minute summer	5	232	97.512	0.965	4.1	1.0914	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
240 minute summer	1	1.000	2	1.4	0.605	0.035	0.0139	
240 minute summer	2	1.001	3	5.4	1.514	0.135	0.0789	
240 minute summer	3	1.002	4	5.4	1.400	0.150	0.1882	
240 minute summer	6	2.000	7	2.6	1.078	0.065	0.0430	
240 minute summer	7	2.001	8	4.1	1.274	0.102	0.1777	
240 minute summer	8	2.002	4	5.9	1.104	0.146	0.2488	
240 minute summer	4	1.003	5	4.1	0.531	0.102	0.4014	
240 minute summer	5	Depth/Flow		4.0				43.1

Results for 100 year +40% CC 240 minute winter. 480 minute analysis at 4 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
240 minute winter	1	120	101.067	0.016	1.0	0.0216	0.0000	OK
240 minute winter	2	124	100.788	0.032	4.0	0.0493	0.0000	OK
240 minute winter	3	124	99.679	0.034	4.0	0.0383	0.0000	OK
240 minute winter	6	124	101.072	0.022	1.9	0.0328	0.0000	OK
240 minute winter	7	124	100.187	0.028	3.0	0.0345	0.0000	OK
240 minute winter	8	168	99.425	0.202	4.4	0.2452	0.0000	SURCHARGED
240 minute winter	4	172	99.423	0.907	8.4	14.6252	0.0000	SURCHARGED
240 minute winter	5	252	97.510	0.963	4.1	1.0890	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
240 minute winter	1	1.000	2	1.0	0.555	0.025	0.0112	
240 minute winter	2	1.001	3	4.0	1.392	0.100	0.0638	
240 minute winter	3	1.002	4	4.0	1.301	0.112	0.1830	
240 minute winter	6	2.000	7	1.9	0.982	0.048	0.0346	
240 minute winter	7	2.001	8	3.0	1.167	0.075	0.1802	
240 minute winter	8	2.002	4	4.4	0.902	0.110	0.2488	
240 minute winter	4	1.003	5	4.1	0.525	0.102	0.4015	
240 minute winter	5	Depth/Flow		4.0				47.9

Results for 100 year +40% CC 360 minute summer. 600 minute analysis at 8 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
360 minute summer	1	184	101.067	0.016	1.0	0.0216	0.0000	OK
360 minute summer	2	184	100.788	0.032	3.9	0.0485	0.0000	OK
360 minute summer	3	184	99.679	0.034	3.9	0.0385	0.0000	OK
360 minute summer	6	184	101.072	0.022	1.9	0.0328	0.0000	OK
360 minute summer	7	184	100.187	0.028	3.0	0.0344	0.0000	OK
360 minute summer	8	184	99.257	0.034	4.4	0.0408	0.0000	OK
360 minute summer	4	216	99.157	0.641	8.2	10.3342	0.0000	SURCHARGED
360 minute summer	5	264	97.516	0.969	4.1	1.0962	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
360 minute summer	1	1.000	2	1.0	0.549	0.025	0.0110	
360 minute summer	2	1.001	3	3.9	1.367	0.097	0.0632	
360 minute summer	3	1.002	4	3.9	1.310	0.108	0.1777	
360 minute summer	6	2.000	7	1.9	0.982	0.047	0.0345	
360 minute summer	7	2.001	8	3.0	1.155	0.075	0.0485	
360 minute summer	8	2.002	4	4.4	0.578	0.109	0.1452	
360 minute summer	4	1.003	5	4.1	0.331	0.102	0.4015	
360 minute summer	5	Depth/Flow		4.0				46.3

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

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
360 minute winter	1	176	101.064	0.014	0.7	0.0182	0.0000	OK
360 minute winter	2	184	100.783	0.027	2.8	0.0413	0.0000	OK
360 minute winter	3	184	99.674	0.029	2.8	0.0327	0.0000	OK
360 minute winter	6	184	101.069	0.019	1.4	0.0284	0.0000	OK
360 minute winter	7	184	100.183	0.024	2.2	0.0296	0.0000	OK
360 minute winter	8	184	99.252	0.029	3.2	0.0350	0.0000	OK
360 minute winter	4	224	99.068	0.552	6.0	8.9042	0.0000	SURCHARGED
360 minute winter	5	264	97.519	0.972	4.1	1.0988	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
360 minute winter	1	1.000	2	0.7	0.497	0.018	0.0087	
360 minute winter	2	1.001	3	2.8	1.242	0.070	0.0501	
360 minute winter	3	1.002	4	2.8	1.194	0.078	0.1658	
360 minute winter	6	2.000	7	1.4	0.898	0.035	0.0278	
360 minute winter	7	2.001	8	2.2	1.061	0.055	0.0390	
360 minute winter	8	2.002	4	3.2	0.817	0.080	0.1411	
360 minute winter	4	1.003	5	4.1	0.383	0.102	0.4015	
360 minute winter	5	Depth/Flow		4.0				52.0

Results for 100 year +40% CC 480 minute summer. 720 minute analysis at 8 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
480 minute summer	1	248	101.065	0.015	0.8	0.0194	0.0000	OK
480 minute summer	2	248	100.784	0.028	3.1	0.0434	0.0000	OK
480 minute summer	3	248	99.675	0.030	3.1	0.0344	0.0000	OK
480 minute summer	6	248	101.070	0.020	1.5	0.0293	0.0000	OK
480 minute summer	7	248	100.184	0.025	2.4	0.0309	0.0000	OK
480 minute summer	8	248	99.253	0.030	3.4	0.0360	0.0000	OK
480 minute summer	4	272	98.988	0.472	6.5	7.6074	0.0000	SURCHARGED
480 minute summer	5	296	97.520	0.973	4.1	1.1005	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
480 minute summer	1	1.000	2	0.8	0.516	0.020	0.0094	
480 minute summer	2	1.001	3	3.1	1.279	0.078	0.0539	
480 minute summer	3	1.002	4	3.1	1.231	0.087	0.0692	
480 minute summer	6	2.000	7	1.5	0.911	0.038	0.0294	
480 minute summer	7	2.001	8	2.4	1.098	0.060	0.0410	
480 minute summer	8	2.002	4	3.4	0.586	0.085	0.1418	
480 minute summer	4	1.003	5	4.1	0.331	0.102	0.4015	
480 minute summer	5	Depth/Flow		4.1				48.9

Results for 100 year +40% CC 480 minute winter. 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 winter	1	240	101.063	0.013	0.6	0.0169	0.0000	OK
480 minute winter	2	248	100.781	0.024	2.3	0.0375	0.0000	OK
480 minute winter	3	248	99.671	0.026	2.3	0.0297	0.0000	OK
480 minute winter	6	240	101.067	0.017	1.1	0.0253	0.0000	OK
480 minute winter	7	240	100.180	0.021	1.7	0.0262	0.0000	OK
480 minute winter	8	240	99.249	0.026	2.5	0.0310	0.0000	OK
480 minute winter	4	280	98.847	0.331	4.8	5.3371	0.0000	SURCHARGED
480 minute winter	5	296	97.504	0.957	4.0	1.0825	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
480 minute winter	1	1.000	2	0.6	0.486	0.015	0.0076	
480 minute winter	2	1.001	3	2.3	1.172	0.058	0.0436	
480 minute winter	3	1.002	4	2.3	1.128	0.064	0.0363	
480 minute winter	6	2.000	7	1.1	0.841	0.028	0.0234	
480 minute winter	7	2.001	8	1.7	0.978	0.043	0.0327	
480 minute winter	8	2.002	4	2.5	1.002	0.063	0.1384	
480 minute winter	4	1.003	5	4.0	0.415	0.100	0.4009	
480 minute winter	5	Depth/Flow		4.0				54.6

Results for 100 year +40% CC 600 minute summer. 840 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
600 minute summer	1	315	101.063	0.013	0.6	0.0169	0.0000	OK
600 minute summer	2	315	100.781	0.025	2.4	0.0383	0.0000	OK
600 minute summer	3	315	99.672	0.027	2.4	0.0303	0.0000	OK
600 minute summer	6	315	101.068	0.018	1.2	0.0264	0.0000	OK
600 minute summer	7	315	100.181	0.022	1.9	0.0276	0.0000	OK
600 minute summer	8	315	99.249	0.026	2.7	0.0322	0.0000	OK
600 minute summer	4	330	98.846	0.330	5.1	5.3173	0.0000	SURCHARGED
600 minute summer	5	345	97.501	0.954	4.0	1.0791	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
600 minute summer	1	1.000	2	0.6	0.467	0.015	0.0078	
600 minute summer	2	1.001	3	2.4	1.187	0.060	0.0449	
600 minute summer	3	1.002	4	2.4	1.142	0.067	0.0375	
600 minute summer	6	2.000	7	1.2	0.856	0.030	0.0251	
600 minute summer	7	2.001	8	1.9	1.023	0.048	0.0348	
600 minute summer	8	2.002	4	2.7	0.284	0.068	0.1392	
600 minute summer	4	1.003	5	4.0	0.328	0.100	0.4009	
600 minute summer	5	Depth/Flow		4.0				51.8

Results for 100 year +40% CC 600 minute winter. 840 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
600 minute winter	1	300	101.062	0.012	0.5	0.0156	0.0000	OK
600 minute winter	2	315	100.778	0.022	1.9	0.0342	0.0000	OK
600 minute winter	3	315	99.669	0.024	1.9	0.0270	0.0000	OK
600 minute winter	6	300	101.066	0.016	0.9	0.0230	0.0000	OK
600 minute winter	7	300	100.178	0.019	1.4	0.0239	0.0000	OK
600 minute winter	8	300	99.246	0.023	2.0	0.0278	0.0000	OK
600 minute winter	4	330	98.726	0.210	3.9	3.3955	0.0000	SURCHARGED
600 minute winter	5	360	97.418	0.871	3.7	0.9850	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
600 minute winter	1	1.000	2	0.5	0.465	0.013	0.0067	
600 minute winter	2	1.001	3	1.9	1.111	0.048	0.0381	
600 minute winter	3	1.002	4	1.9	1.068	0.053	0.0317	
600 minute winter	6	2.000	7	0.9	0.790	0.023	0.0204	
600 minute winter	7	2.001	8	1.4	0.932	0.035	0.0282	
600 minute winter	8	2.002	4	2.0	0.482	0.050	0.1364	
600 minute winter	4	1.003	5	3.7	0.418	0.092	0.3977	
600 minute winter	5	Depth/Flow		3.6				57.3

Results for 100 year +40% CC 720 minute summer. 960 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
720 minute summer	1	375	101.063	0.013	0.6	0.0169	0.0000	OK
720 minute summer	2	375	100.780	0.024	2.2	0.0367	0.0000	OK
720 minute summer	3	375	99.671	0.026	2.2	0.0290	0.0000	OK
720 minute summer	6	375	101.067	0.016	1.0	0.0242	0.0000	OK
720 minute summer	7	375	100.180	0.021	1.6	0.0254	0.0000	OK
720 minute summer	8	375	99.247	0.024	2.3	0.0298	0.0000	OK
720 minute summer	4	390	98.766	0.250	4.5	4.0354	0.0000	SURCHARGED
720 minute summer	5	405	97.455	0.908	3.8	1.0265	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
720 minute summer	1	1.000	2	0.6	0.486	0.015	0.0074	
720 minute summer	2	1.001	3	2.2	1.158	0.055	0.0422	
720 minute summer	3	1.002	4	2.2	1.113	0.062	0.0352	
720 minute summer	6	2.000	7	1.0	0.805	0.025	0.0222	
720 minute summer	7	2.001	8	1.6	0.969	0.040	0.0310	
720 minute summer	8	2.002	4	2.3	0.417	0.058	0.1376	
720 minute summer	4	1.003	5	3.8	0.344	0.096	0.3992	
720 minute summer	5	Depth/Flow		3.8				54.0

Results for 100 year +40% CC 720 minute winter. 960 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
720 minute winter	1	345	101.061	0.011	0.4	0.0141	0.0000	OK
720 minute winter	2	360	100.777	0.021	1.6	0.0315	0.0000	OK
720 minute winter	3	360	99.667	0.022	1.6	0.0248	0.0000	OK
720 minute winter	6	360	101.065	0.015	0.8	0.0218	0.0000	OK
720 minute winter	7	375	100.178	0.019	1.3	0.0230	0.0000	OK
720 minute winter	8	375	99.245	0.022	1.9	0.0271	0.0000	OK
720 minute winter	4	390	98.676	0.160	3.5	2.5877	0.0000	SURCHARGED
720 minute winter	5	405	97.343	0.796	3.4	0.9003	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
720 minute winter	1	1.000	2	0.4	0.425	0.010	0.0059	
720 minute winter	2	1.001	3	1.6	1.055	0.040	0.0337	
720 minute winter	3	1.002	4	1.6	1.015	0.045	0.0281	
720 minute winter	6	2.000	7	0.8	0.775	0.020	0.0191	
720 minute winter	7	2.001	8	1.3	0.904	0.033	0.0270	
720 minute winter	8	2.002	4	1.9	0.733	0.048	0.1359	
720 minute winter	4	1.003	5	3.4	0.284	0.084	0.3946	
720 minute winter	5	Depth/Flow		3.3				58.5

Results for 100 year +40% CC 960 minute summer. 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 summer	1	480	101.061	0.011	0.4	0.0141	0.0000	OK
960 minute summer	2	495	100.777	0.021	1.7	0.0324	0.0000	OK
960 minute summer	3	495	99.668	0.023	1.7	0.0255	0.0000	OK
960 minute summer	6	495	101.065	0.015	0.8	0.0218	0.0000	OK
960 minute summer	7	495	100.178	0.019	1.3	0.0230	0.0000	OK
960 minute summer	8	495	99.245	0.022	1.9	0.0271	0.0000	OK
960 minute summer	4	510	98.679	0.163	3.6	2.6294	0.0000	SURCHARGED
960 minute summer	5	525	97.338	0.791	3.4	0.8942	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
960 minute summer	1	1.000	2	0.4	0.425	0.010	0.0061	
960 minute summer	2	1.001	3	1.7	1.074	0.043	0.0352	
960 minute summer	3	1.002	4	1.7	1.034	0.048	0.0293	
960 minute summer	6	2.000	7	0.8	0.751	0.020	0.0191	
960 minute summer	7	2.001	8	1.3	0.904	0.033	0.0270	
960 minute summer	8	2.002	4	1.9	0.415	0.048	0.1359	
960 minute summer	4	1.003	5	3.4	0.361	0.085	0.3948	
960 minute summer	5	Depth/Flow		3.3				55.7

Results for 100 year +40% CC 960 minute winter. 1200 minute analysis at 15 minute timestep. Mass balance: 99.87%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
960 minute winter	1	420	101.059	0.009	0.3	0.0123	0.0000	OK
960 minute winter	2	495	100.775	0.019	1.3	0.0285	0.0000	OK
960 minute winter	3	495	99.665	0.020	1.3	0.0224	0.0000	OK
960 minute winter	6	450	101.063	0.013	0.6	0.0190	0.0000	OK
960 minute winter	7	480	100.176	0.016	1.0	0.0204	0.0000	OK
960 minute winter	8	480	99.242	0.019	1.4	0.0235	0.0000	OK
960 minute winter	4	495	98.635	0.119	2.7	1.9122	0.0000	OK
960 minute winter	5	540	97.166	0.619	2.6	0.7006	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
960 minute winter	1	1.000	2	0.3	0.411	0.008	0.0050	
960 minute winter	2	1.001	3	1.3	0.992	0.033	0.0291	
960 minute winter	3	1.002	4	1.3	0.955	0.036	0.0243	
960 minute winter	6	2.000	7	0.6	0.708	0.015	0.0158	
960 minute winter	7	2.001	8	1.0	0.848	0.025	0.0221	
960 minute winter	8	2.002	4	1.4	0.463	0.035	0.1148	
960 minute winter	4	1.003	5	2.6	0.333	0.066	0.3870	
960 minute winter	5	Depth/Flow		2.6				63.6

Results for 100 year +40% CC 1440 minute summer. 1680 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	720	101.059	0.009	0.3	0.0123	0.0000	OK
1440 minute summer	2	750	100.774	0.018	1.2	0.0275	0.0000	OK
1440 minute summer	3	750	99.664	0.019	1.2	0.0216	0.0000	OK
1440 minute summer	6	750	101.063	0.013	0.6	0.0190	0.0000	OK
1440 minute summer	7	750	100.175	0.016	0.9	0.0194	0.0000	OK
1440 minute summer	8	750	99.242	0.019	1.3	0.0226	0.0000	OK
1440 minute summer	4	750	98.628	0.112	2.5	1.8030	0.0000	OK
1440 minute summer	5	780	97.122	0.575	2.5	0.6502	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
1440 minute summer	1	1.000	2	0.3	0.395	0.008	0.0048	
1440 minute summer	2	1.001	3	1.2	0.968	0.030	0.0276	
1440 minute summer	3	1.002	4	1.2	0.932	0.034	0.0230	
1440 minute summer	6	2.000	7	0.6	0.708	0.015	0.0151	
1440 minute summer	7	2.001	8	0.9	0.813	0.023	0.0208	
1440 minute summer	8	2.002	4	1.3	0.183	0.033	0.1083	
1440 minute summer	4	1.003	5	2.5	0.225	0.061	0.3851	
1440 minute summer	5	Depth/Flow		2.4				57.6

Results for 100 year +40% CC 1440 minute winter. 1680 minute analysis at 30 minute timestep. Mass balance: 99.32%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
1440 minute winter	1	600	101.058	0.008	0.2	0.0102	0.0000	OK
1440 minute winter	2	720	100.772	0.016	0.9	0.0240	0.0000	OK
1440 minute winter	3	720	99.662	0.017	0.9	0.0188	0.0000	OK
1440 minute winter	6	660	101.061	0.011	0.4	0.0158	0.0000	OK
1440 minute winter	7	720	100.173	0.014	0.7	0.0172	0.0000	OK
1440 minute winter	8	720	99.239	0.016	1.0	0.0200	0.0000	OK
1440 minute winter	4	720	98.607	0.091	1.9	1.4721	0.0000	OK
1440 minute winter	5	810	96.983	0.436	1.9	0.4936	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
1440 minute winter	1	1.000	2	0.2	0.357	0.005	0.0038	
1440 minute winter	2	1.001	3	0.9	0.888	0.023	0.0225	
1440 minute winter	3	1.002	4	0.9	0.855	0.025	0.0188	
1440 minute winter	6	2.000	7	0.4	0.624	0.010	0.0122	
1440 minute winter	7	2.001	8	0.7	0.755	0.018	0.0174	
1440 minute winter	8	2.002	4	1.0	0.183	0.025	0.0866	
1440 minute winter	4	1.003	5	1.9	0.205	0.047	0.3783	
1440 minute winter	5	Depth/Flow		1.8				65.4