

**Design Settings**

Rainfall Methodology	FSR	Maximum Time of Concentration (mins)	30.00
Return Period (years)	10	Maximum Rainfall (mm/hr)	50.0
Additional Flow (%)	0	Minimum Velocity (m/s)	0.60
FSR Region	England and Wales	Connection Type	Level Soffits
M5-60 (mm)	17.000	Minimum Backdrop Height (m)	0.200
Ratio-R	0.400	Preferred Cover Depth (m)	0.600
CV	0.750	Include Intermediate Ground	✓
Time of Entry (mins)	10.00	Enforce best practice design rules	x

Nodes

Name	T of E (mins)	Cover Level (m)	Diameter (mm)	Depth (m)
✓ 6	10.00	56.204	1200	1.351
✓ 7		55.826	1200	1.865
✓ 4	10.00	55.111	1200	1.350
✓ 8		55.277	1200	1.926
✓ 9		54.994	1200	2.197
✓ 10	10.00	55.788	1200	0.693
✓ 11		54.917	1200	1.350
✓ 12		53.936	1200	1.375
✓ 13		54.156	1350	1.884
✓ 14		54.783	1800	2.527
✓ 14_OUT		54.948	1350	2.709
✓ 5		55.204	1200	1.839
✓ 2		54.901	1200	1.350
✓ 1	10.00	55.084	1200	1.350
✓ 3		55.012	1200	1.532

Links (Results)

Name	US Node	DS Node	Vel (m/s)	Cap (l/s)	Flow (l/s)	US Depth (m)	DS Depth (m)	Σ Area (ha)	Pro Depth (mm)	Pro Velocity (m/s)
✓ 1.007	14	14_OUT	0.607	76.2	64.2	2.127	2.309	0.473	282	0.677
✓ 1.006	13	14	0.603	75.8	64.2	1.484	2.127	0.473	283	0.674
✓ 1.005	9	13	0.968	47.5	42.9	1.947	1.200	0.316	187	1.092
✓ 4.002	12	13	0.605	14.5	13.2	1.200	1.484	0.097	131	0.684
✓ 4.001	11	12	1.774	31.4	7.9	1.200	1.200	0.058	51	1.482
? 4.000	10	11	2.556	45.2	6.1	0.543	1.200	0.045	37	1.793
✓ 1.004	8	9	1.720	68.4	40.9	1.701	1.947	0.302	125	1.793
✓ 3.001	7	8	0.604	14.5	14.0	1.690	1.202	0.104	139	0.686
✓ 1.003	5	8	0.606	24.1	19.8	1.614	1.701	0.146	156	0.675
✓ 1.002	3	5	0.600	14.4	13.4	1.357	1.614	0.099	134	0.680
✓ 2.000	4	5	0.604	10.7	6.4	1.200	1.358	0.047	84	0.632
✓ 1.001	2	3	0.607	10.7	9.3	1.200	1.357	0.069	108	0.682
✓ 1.000	1	2	1.609	28.4	0.0	1.200	1.200	0.000	0	0.000
✓ 3.000	6	7	1.983	35.0	10.4	1.201	1.690	0.077	56	1.732

**Simulation Settings**

Rainfall Methodology	FSR	Analysis Speed	Normal
FSR Region	England and Wales	Skip Steady State	x
M5-60 (mm)	17.000	Drain Down Time (mins)	240
Ratio-R	0.400	Additional Storage (m ³ /ha)	0.0
Summer CV	0.750	Check Discharge Rate(s)	x
Winter CV	0.840	Check Discharge Volume	x

Storm Durations

15	30	60	120	180	240	360
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Return Period (years)	Climate Change (CC %)	Additional Area (A %)	Additional Flow (Q %)
2	0	0	0
30	0	0	0
100	40	0	0

Node 14 Online Hydro-Brake® Control

Flap Valve	x	Objective	(HE) Minimise upstream storage
Replaces Downstream Link	✓	Sump Available	✓
Invert Level (m)	52.256	Product Number	CTL-SHE-0163-1700-2500-1700
Design Depth (m)	2.500	Min Outlet Diameter (m)	0.225
Design Flow (l/s)	17.0	Min Node Diameter (mm)	1800

Node 14 Depth/Area Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Safety Factor	2.0	Invert Level (m)	52.256
Side Inf Coefficient (m/hr)	0.00000	Porosity	1.00	Time to half empty (mins)	90

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	150.0	0.0	1.000	150.0	0.0	1.001	0.0	0.0

**Results for 2 year Critical Storm Duration. Lowest mass balance: 99.89%**

Node Event	US Node	Peak (mins)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)
15 minute summer	6	1	0.000	0.0	0.0000	0.0000
15 minute winter	3.000:50%	13	0.049	8.0	0.0029	0.0000
15 minute winter	7	13	0.101	8.0	0.1137	0.0000
15 minute winter	3.001:50%	13	0.109	10.8	0.0000	0.0000
15 minute winter	4	14	0.039	0.3	0.0445	0.0000
15 minute winter	2.000:50%	14	0.071	4.9	0.1787	0.0000
15 minute winter	8	14	0.098	25.9	0.1110	0.0000
15 minute winter	1.004:50%	14	0.108	31.3	0.0234	0.0000
15 minute winter	9	14	0.160	31.3	0.1812	0.0000
15 minute winter	1.005:50%	14	0.158	32.8	0.0000	0.0000
15 minute summer	10	1	0.000	0.0	0.0000	0.0000
15 minute winter	4.000:50%	13	0.033	4.7	0.0000	0.0000
15 minute winter	11	13	0.039	4.7	0.0444	0.0000
15 minute winter	4.001:50%	13	0.045	6.1	0.0000	0.0000
15 minute winter	12	13	0.087	6.1	0.0989	0.0000
15 minute winter	4.002:50%	14	0.106	10.2	0.0000	0.0000
15 minute winter	13	9	0.304	43.0	0.4350	0.0000
15 minute winter	1.006:50%	9	0.309	49.3	0.0000	0.0000
60 minute winter	14	50	0.206	34.2	31.4850	0.0000
15 minute summer	14_OUT	1	0.000	10.4	0.0000	0.0000
15 minute winter	5	14	0.123	15.1	0.1387	0.0000
15 minute winter	2	13	0.066	0.5	0.0746	0.0000
15 minute winter	1.001:50%	13	0.089	7.2	0.1387	0.0000
15 minute summer	1	1	0.000	0.0	0.0000	0.0000

US Node	Peak (mins)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)
6	1	0.000	0.0	0.0000	0.0000
3.000:50%	13	0.049	8.0	0.0029	0.0000
7	13	0.101	8.0	0.1137	0.0000
3.001:50%	13	0.109	10.8	0.0000	0.0000
4	14	0.039	0.3	0.0445	0.0000
2.000:50%	14	0.071	4.9	0.1787	0.0000
8	14	0.098	25.9	0.1110	0.0000
1.004:50%	14	0.108	31.3	0.0234	0.0000
9	14	0.160	31.3	0.1812	0.0000
1.005:50%	14	0.158	32.8	0.0000	0.0000
10	1	0.000	0.0	0.0000	0.0000
4.000:50%	13	0.033	4.7	0.0000	0.0000
11	13	0.039	4.7	0.0444	0.0000
4.001:50%	13	0.045	6.1	0.0000	0.0000
12	13	0.087	6.1	0.0989	0.0000
4.002:50%	14	0.106	10.2	0.0000	0.0000
13	9	0.304	43.0	0.4350	0.0000
1.006:50%	9	0.309	49.3	0.0000	0.0000
14	50	0.206	34.2	31.4850	0.0000
14_OUT	1	0.000	10.4	0.0000	0.0000
5	14	0.123	15.1	0.1387	0.0000
2	13	0.066	0.5	0.0746	0.0000
1.001:50%	13	0.089	7.2	0.1387	0.0000
1	1	0.000	0.0	0.0000	0.0000



Results for 2 year Critical Storm Duration. Lowest mass balance: 99.89%

Node Event	US Node	Peak (mins)	Depth (m)	Inflow (l/s)	Node Vol (m ³)	Flood (m ³)
15 minute winter	3	14	0.094	7.2	0.1067	0.0000
15 minute winter	1.002:50%	14	0.106	10.3	0.0000	0.0000

US Node	Peak (mins)	Depth (m)	Inflow (l/s)	Node Vol (m ³)	Flood (m ³)
3	14	0.094	7.2	0.1067	0.0000
1.002:50%	14	0.106	10.3	0.0000	0.0000

**Results for 30 year Critical Storm Duration. Lowest mass balance: 99.89%**

Node Event	US Node	Peak (mins)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)
15 minute summer	6	1	0.000	0.0	0.0000	0.0000
15 minute winter	3.000:50%	13	0.069	15.1	0.0057	0.0000
15 minute winter	7	14	0.183	15.1	0.2067	0.0000
15 minute winter	3.001:50%	14	0.176	20.3	0.0000	0.0000
15 minute winter	4	14	0.073	0.5	0.0824	0.0000
15 minute winter	2.000:50%	14	0.105	9.3	0.3840	0.0000
15 minute winter	8	14	0.148	48.2	0.1677	0.0000
15 minute winter	1.004:50%	14	0.186	58.4	0.0691	0.0000
15 minute winter	9	15	0.303	58.1	0.3429	0.0000
15 minute winter	1.005:50%	15	0.260	60.8	0.0000	0.0000
15 minute summer	10	1	0.000	0.0	0.0000	0.0000
15 minute winter	4.000:50%	13	0.045	8.8	0.0000	0.0000
15 minute winter	11	13	0.054	8.8	0.0615	0.0000
15 minute winter	4.001:50%	13	0.063	11.5	0.0000	0.0000
15 minute winter	12	14	0.152	11.5	0.1717	0.0000
15 minute winter	4.002:50%	14	0.166	19.1	0.0000	0.0000
60 minute winter	13	54	0.416	57.9	0.5956	0.0000
60 minute winter	1.006:50%	54	0.424	65.5	0.0000	0.0000
60 minute winter	14	54	0.431	64.5	65.8132	0.0000
15 minute summer	14_OUT	1	0.000	14.7	0.0000	0.0000
15 minute winter	5	14	0.185	27.9	0.2091	0.0000
15 minute winter	2	15	0.130	0.6	0.1474	0.0000
15 minute winter	1.001:50%	15	0.153	13.5	0.4109	0.0000
15 minute summer	1	1	0.000	0.0	0.0000	0.0000

US Node	Peak (mins)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)
6	1	0.000	0.0	0.0000	0.0000
3.000:50%	13	0.069	15.1	0.0057	0.0000
7	14	0.183	15.1	0.2067	0.0000
3.001:50%	14	0.176	20.3	0.0000	0.0000
4	14	0.073	0.5	0.0824	0.0000
2.000:50%	14	0.105	9.3	0.3840	0.0000
8	14	0.148	48.2	0.1677	0.0000
1.004:50%	14	0.186	58.4	0.0691	0.0000
9	15	0.303	58.1	0.3429	0.0000
1.005:50%	15	0.260	60.8	0.0000	0.0000
10	1	0.000	0.0	0.0000	0.0000
4.000:50%	13	0.045	8.8	0.0000	0.0000
11	13	0.054	8.8	0.0615	0.0000
4.001:50%	13	0.063	11.5	0.0000	0.0000
12	14	0.152	11.5	0.1717	0.0000
4.002:50%	14	0.166	19.1	0.0000	0.0000
13	54	0.416	57.9	0.5956	0.0000
1.006:50%	54	0.424	65.5	0.0000	0.0000
14	54	0.431	64.5	65.8132	0.0000
14_OUT	1	0.000	14.7	0.0000	0.0000
5	14	0.185	27.9	0.2091	0.0000
2	15	0.130	0.6	0.1474	0.0000
1.001:50%	15	0.153	13.5	0.4109	0.0000
1	1	0.000	0.0	0.0000	0.0000

**Results for 30 year Critical Storm Duration. Lowest mass balance: 99.89%**

Node Event	US Node	Peak (mins)	Depth (m)	Inflow (l/s)	Node Vol (m ³)	Flood (m ³)
15 minute winter	3	15	0.163	13.0	0.1840	0.0000
15 minute winter	1.002:50%	14	0.170	18.8	0.0000	0.0000

US Node	Peak (mins)	Depth (m)	Inflow (l/s)	Node Vol (m ³)	Flood (m ³)
3	15	0.163	13.0	0.1840	0.0000
1.002:50%	14	0.170	18.8	0.0000	0.0000

**Results for 100 year +40% CC Critical Storm Duration. Lowest mass balance: 99.89%**

Node Event	US Node	Peak (mins)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)
15 minute summer	6	1	0.000	0.0	0.0000	0.0000
15 minute winter	3.000:50%	14	0.294	27.3	0.1044	0.0000
15 minute winter	7	14	0.446	26.9	0.5040	0.0000
15 minute winter	3.001:50%	14	0.352	36.3	0.0000	0.0000
15 minute winter	4	17	0.261	0.8	0.2953	0.0000
15 minute winter	2.000:50%	17	0.293	16.9	2.9985	0.0000
15 minute winter	8	16	0.602	62.8	0.6814	0.0000
15 minute winter	1.004:50%	15	0.607	78.7	0.7342	0.0000
15 minute winter	9	15	0.482	78.4	0.5448	0.0000
120 minute winter	1.005:50%	100	0.433	52.6	0.0000	0.0000
15 minute summer	10	1	0.000	0.0	0.0000	0.0000
15 minute winter	4.000:50%	13	0.061	15.9	0.0000	0.0000
15 minute winter	11	13	0.076	15.9	0.0855	0.0000
120 minute winter	4.001:50%	100	0.109	9.8	0.0000	0.0000
120 minute winter	12	100	0.623	9.8	0.7046	0.0000
120 minute winter	4.002:50%	100	0.654	15.7	0.0000	0.0000
120 minute winter	13	100	0.909	67.9	1.3013	0.0000
120 minute winter	1.006:50%	98	0.917	77.3	0.0000	0.0000
120 minute winter	14	100	0.924	76.9	141.0066	0.0000
15 minute summer	14_OUT	1	0.000	16.6	0.0000	0.0000
15 minute winter	5	16	0.621	43.6	0.7027	0.0000
15 minute winter	2	18	0.575	4.2	0.6500	0.0000
15 minute winter	1.001:50%	18	0.597	24.4	6.2396	0.0000
15 minute winter	1	18	0.392	2.3	0.4433	0.0000

US Node	Peak (mins)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)
6	1	0.000	0.0	0.0000	0.0000
3.000:50%	14	0.294	27.3	0.1044	0.0000
7	14	0.446	26.9	0.5040	0.0000
3.001:50%	14	0.352	36.3	0.0000	0.0000
4	17	0.261	0.8	0.2953	0.0000
2.000:50%	17	0.293	16.9	2.9985	0.0000
8	16	0.602	62.8	0.6814	0.0000
1.004:50%	15	0.607	78.7	0.7342	0.0000
9	15	0.482	78.4	0.5448	0.0000
1.005:50%	100	0.433	52.6	0.0000	0.0000
10	1	0.000	0.0	0.0000	0.0000
4.000:50%	13	0.061	15.9	0.0000	0.0000
11	13	0.076	15.9	0.0855	0.0000
4.001:50%	100	0.109	9.8	0.0000	0.0000
12	100	0.623	9.8	0.7046	0.0000
4.002:50%	100	0.654	15.7	0.0000	0.0000
13	100	0.909	67.9	1.3013	0.0000
1.006:50%	98	0.917	77.3	0.0000	0.0000
14	100	0.924	76.9	141.0066	0.0000
14_OUT	1	0.000	16.6	0.0000	0.0000
5	16	0.621	43.6	0.7027	0.0000
2	18	0.575	4.2	0.6500	0.0000
1.001:50%	18	0.597	24.4	6.2396	0.0000
1	18	0.392	2.3	0.4433	0.0000

**Results for 100 year +40% CC Critical Storm Duration. Lowest mass balance: 99.89%**

Node Event	US Node	Peak (mins)	Depth (m)	Inflow (l/s)	Node Vol (m ³)	Flood (m ³)
15 minute winter	3	17	0.603	24.1	0.6820	0.0000
15 minute winter	1.002:50%	16	0.607	26.4	0.0000	0.0000

US Node	Peak (mins)	Depth (m)	Inflow (l/s)	Node Vol (m ³)	Flood (m ³)
3	17	0.603	24.1	0.6820	0.0000
1.002:50%	16	0.607	26.4	0.0000	0.0000

**Results for 2 year 15 minute summer. 255 minute analysis at 1 minute timestep. Mass balance: 99.89%**

Node Event	US Node	Peak (mins)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	
15 minute summer	6	1	0.000	0.0	0.0000	0.0000	OK	
15 minute summer	3.000:50%	13	0.046	7.1	0.0025	0.0000	OK	
15 minute summer	7	14	0.093	7.1	0.1050	0.0000	OK	
15 minute summer	3.001:50%	14	0.102	9.6	0.0000	0.0000	OK	
15 minute summer	4	15	0.035	0.4	0.0398	0.0000	OK	
15 minute summer	2.000:50%	14	0.067	4.4	0.1589	0.0000	OK	
15 minute summer	8	14	0.092	23.1	0.1040	0.0000	OK	
15 minute summer	1.004:50%	14	0.101	27.9	0.0204	0.0000	OK	
15 minute summer	9	14	0.148	27.9	0.1679	0.0000	OK	
15 minute summer	1.005:50%	14	0.147	29.2	0.0000	0.0000	OK	
15 minute summer	10	1	0.000	0.0	0.0000	0.0000	OK	
15 minute summer	4.000:50%	13	0.031	4.2	0.0000	0.0000	OK	
15 minute summer	11	13	0.037	4.2	0.0420	0.0000	OK	
15 minute summer	4.001:50%	13	0.043	5.5	0.0000	0.0000	OK	
15 minute summer	12	13	0.081	5.5	0.0916	0.0000	OK	
15 minute summer	4.002:50%	14	0.099	9.1	0.0000	0.0000	OK	
15 minute summer	13	9	0.279	38.3	0.3994	0.0000	OK	
15 minute summer	1.006:50%	9	0.285	44.0	0.0000	0.0000	OK	
15 minute summer	14	21	0.150	54.9	22.9412	0.0000	OK	
15 minute summer	14_OUT	1	0.000	10.4	0.0000	0.0000	OK	
15 minute summer	5	14	0.115	13.5	0.1300	0.0000	OK	
15 minute summer	2	13	0.060	0.6	0.0680	0.0000	OK	
15 minute summer	1.001:50%	13	0.083	6.4	0.1208	0.0000	OK	
15 minute summer	1	1	0.000	0.0	0.0000	0.0000	OK	
Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	6	3.000	3.000:50%	0.0	0.000	0.000	0.0256	
15 minute summer	6	3.000	7	7.1	1.306	0.203	0.0692	
15 minute summer	7	3.001	3.001:50%	7.1	0.518	0.489	0.1390	
15 minute summer	7	3.001	8	9.6	0.731	0.661	0.1332	
15 minute summer	4	2.000	2.000:50%	-0.4	-0.115	-0.035	0.0478	
15 minute summer	4	2.000	5	4.4	0.615	0.411	0.0632	
15 minute summer	8	1.004	1.004:50%	23.1	1.422	0.338	0.2494	
15 minute summer	8	1.004	9	27.9	1.411	0.408	0.3034	
15 minute summer	9	1.005	1.005:50%	27.9	0.927	0.588	0.2854	
15 minute summer	9	1.005	13	29.2	1.012	0.615	0.2739	
15 minute summer	10	4.000	4.000:50%	0.0	0.000	0.000	0.0157	
15 minute summer	10	4.000	11	4.2	1.403	0.093	0.0360	
15 minute summer	11	4.001	4.001:50%	4.2	1.123	0.134	0.0595	
15 minute summer	11	4.001	12	5.5	1.209	0.175	0.0802	
15 minute summer	12	4.002	4.002:50%	5.5	0.442	0.377	0.1316	
15 minute summer	12	4.002	13	9.1	0.717	0.623	0.1342	
15 minute summer	13	1.006	1.006:50%	38.7	0.806	0.510	0.7200	
15 minute summer	13	1.006	14	54.9	1.795	0.724	0.3661	
15 minute summer	14	Hydro-Brake®	14_OUT	10.4				27.8
15 minute summer	5	1.003	8	13.5	0.761	0.562	0.1136	
15 minute summer	2	1.001	1.001:50%	-0.6	-0.141	-0.056	0.0516	
15 minute summer	2	1.001	3	6.4	0.687	0.594	0.0575	
15 minute summer	1	1.000	2	0.0	0.000	0.000	0.0237	

**Results for 2 year 15 minute summer. 255 minute analysis at 1 minute timestep. Mass balance: 99.89%**

Node Event	US Node	Peak (mins)	Depth (m)	Inflow (l/s)	Node Vol (m ³)	Flood (m ³)	Status
15 minute summer	3	14	0.087	6.4	0.0987	0.0000	OK
15 minute summer	1.002:50%	14	0.099	9.2	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
15 minute summer	3	1.002	1.002:50%	6.4	0.489	0.441	0.1425	
15 minute summer	3	1.002	5	9.2	0.718	0.635	0.1396	

**Results for 2 year 15 minute winter. 255 minute analysis at 1 minute timestep. Mass balance: 99.91%**

Node Event	US Node	Peak (mins)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	6	1	0.000	0.0	0.0000	0.0000	OK
15 minute winter	3.000:50%	13	0.049	8.0	0.0029	0.0000	OK
15 minute winter	7	13	0.101	8.0	0.1137	0.0000	OK
15 minute winter	3.001:50%	13	0.109	10.8	0.0000	0.0000	OK
15 minute winter	4	14	0.039	0.3	0.0445	0.0000	OK
15 minute winter	2.000:50%	14	0.071	4.9	0.1787	0.0000	OK
15 minute winter	8	14	0.098	25.9	0.1110	0.0000	OK
15 minute winter	1.004:50%	14	0.108	31.3	0.0234	0.0000	OK
15 minute winter	9	14	0.160	31.3	0.1812	0.0000	OK
15 minute winter	1.005:50%	14	0.158	32.8	0.0000	0.0000	OK
15 minute winter	10	1	0.000	0.0	0.0000	0.0000	OK
15 minute winter	4.000:50%	13	0.033	4.7	0.0000	0.0000	OK
15 minute winter	11	13	0.039	4.7	0.0444	0.0000	OK
15 minute winter	4.001:50%	13	0.045	6.1	0.0000	0.0000	OK
15 minute winter	12	13	0.087	6.1	0.0989	0.0000	OK
15 minute winter	4.002:50%	14	0.106	10.2	0.0000	0.0000	OK
15 minute winter	13	9	0.304	43.0	0.4350	0.0000	OK
15 minute winter	1.006:50%	9	0.309	49.3	0.0000	0.0000	OK
15 minute winter	14	21	0.167	51.8	25.4487	0.0000	OK
15 minute winter	14_OUT	1	0.000	11.5	0.0000	0.0000	OK
15 minute winter	5	14	0.123	15.1	0.1387	0.0000	OK
15 minute winter	2	13	0.066	0.5	0.0746	0.0000	OK
15 minute winter	1.001:50%	13	0.089	7.2	0.1387	0.0000	OK
15 minute winter	1	1	0.000	0.0	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute winter	6	3.000	3.000:50%	0.0	0.000	0.000	0.0279	
15 minute winter	6	3.000	7	8.0	1.260	0.228	0.0780	
15 minute winter	7	3.001	3.001:50%	8.0	0.533	0.551	0.1522	
15 minute winter	7	3.001	8	10.8	0.757	0.743	0.1444	
15 minute winter	4	2.000	2.000:50%	-0.3	-0.115	-0.031	0.0530	
15 minute winter	4	2.000	5	4.9	0.634	0.457	0.0681	
15 minute winter	8	1.004	1.004:50%	25.9	1.459	0.379	0.2723	
15 minute winter	8	1.004	9	31.3	1.428	0.458	0.3359	
15 minute winter	9	1.005	1.005:50%	31.3	0.952	0.659	0.3116	
15 minute winter	9	1.005	13	32.8	1.048	0.690	0.2965	
15 minute winter	10	4.000	4.000:50%	0.0	0.000	0.000	0.0170	
15 minute winter	10	4.000	11	4.7	1.450	0.104	0.0390	
15 minute winter	11	4.001	4.001:50%	4.7	1.163	0.150	0.0643	
15 minute winter	11	4.001	12	6.1	1.215	0.194	0.0902	
15 minute winter	12	4.002	4.002:50%	6.1	0.448	0.418	0.1440	
15 minute winter	12	4.002	13	10.2	0.742	0.700	0.1455	
15 minute winter	13	1.006	1.006:50%	43.4	0.814	0.573	0.7844	
15 minute winter	13	1.006	14	51.8	1.802	0.683	0.3982	
15 minute winter	14	Hydro-Brake®	14_OUT	11.5				31.3
15 minute winter	5	1.003	8	15.1	0.782	0.628	0.1235	
15 minute winter	2	1.001	1.001:50%	-0.5	-0.139	-0.042	0.0570	
15 minute winter	2	1.001	3	7.2	0.713	0.668	0.0624	
15 minute winter	1	1.000	2	0.0	0.000	0.000	0.0268	

**Results for 2 year 15 minute winter. 255 minute analysis at 1 minute timestep. Mass balance: 99.91%**

Node Event	US Node	Peak (mins)	Depth (m)	Inflow (l/s)	Node Vol (m ³)	Flood (m ³)	Status
15 minute winter	3	14	0.094	7.2	0.1067	0.0000	OK
15 minute winter	1.002:50%	14	0.106	10.3	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
15 minute winter	3	1.002	1.002:50%	7.2	0.503	0.496	0.1558	
15 minute winter	3	1.002	5	10.3	0.743	0.711	0.1509	

**Results for 2 year 30 minute summer. 270 minute analysis at 1 minute timestep. Mass balance: 99.92%**

Node Event	US Node	Peak (mins)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
30 minute summer	6	1	0.000	0.0	0.0000	0.0000	OK
30 minute summer	3.000:50%	20	0.046	7.3	0.0026	0.0000	OK
30 minute summer	7	20	0.094	7.3	0.1063	0.0000	OK
30 minute summer	3.001:50%	21	0.103	9.8	0.0000	0.0000	OK
30 minute summer	4	21	0.036	0.2	0.0403	0.0000	OK
30 minute summer	2.000:50%	21	0.068	4.5	0.1595	0.0000	OK
30 minute summer	8	21	0.093	23.4	0.1047	0.0000	OK
30 minute summer	1.004:50%	21	0.102	28.3	0.0208	0.0000	OK
30 minute summer	9	21	0.150	28.3	0.1694	0.0000	OK
30 minute summer	1.005:50%	21	0.149	29.7	0.0000	0.0000	OK
30 minute summer	10	1	0.000	0.0	0.0000	0.0000	OK
30 minute summer	4.000:50%	20	0.031	4.2	0.0000	0.0000	OK
30 minute summer	11	21	0.037	4.2	0.0420	0.0000	OK
30 minute summer	4.001:50%	21	0.043	5.5	0.0000	0.0000	OK
30 minute summer	12	21	0.081	5.5	0.0921	0.0000	OK
30 minute summer	4.002:50%	21	0.099	9.2	0.0000	0.0000	OK
30 minute summer	13	22	0.188	38.8	0.2689	0.0000	OK
30 minute summer	1.006:50%	22	0.177	44.4	0.0000	0.0000	OK
30 minute summer	14	31	0.176	52.0	26.8029	0.0000	OK
30 minute summer	14_OUT	1	0.000	12.1	0.0000	0.0000	OK
30 minute summer	5	21	0.116	13.6	0.1307	0.0000	OK
30 minute summer	2	21	0.061	0.3	0.0684	0.0000	OK
30 minute summer	1.001:50%	21	0.084	6.5	0.1221	0.0000	OK
30 minute summer	1	1	0.000	0.0	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
30 minute summer	6	3.000	3.000:50%	0.0	0.000	0.000	0.0261	
30 minute summer	6	3.000	7	7.3	1.250	0.208	0.0707	
30 minute summer	7	3.001	3.001:50%	7.3	0.523	0.499	0.1408	
30 minute summer	7	3.001	8	9.8	0.735	0.672	0.1347	
30 minute summer	4	2.000	2.000:50%	-0.2	-0.076	-0.019	0.0482	36.6
30 minute summer	4	2.000	5	4.4	0.616	0.412	0.0634	
30 minute summer	8	1.004	1.004:50%	23.4	1.425	0.342	0.2518	
30 minute summer	8	1.004	9	28.3	1.413	0.414	0.3070	
30 minute summer	9	1.005	1.005:50%	28.3	0.929	0.595	0.2885	
30 minute summer	9	1.005	13	29.6	1.016	0.623	0.2764	
30 minute summer	10	4.000	4.000:50%	0.0	0.000	0.000	0.0157	
30 minute summer	10	4.000	11	4.2	1.404	0.093	0.0360	
30 minute summer	11	4.001	4.001:50%	4.2	1.123	0.134	0.0595	
30 minute summer	11	4.001	12	5.5	1.186	0.175	0.0807	
30 minute summer	12	4.002	4.002:50%	5.5	0.439	0.378	0.1328	
30 minute summer	12	4.002	13	9.2	0.719	0.631	0.1355	
30 minute summer	13	1.006	1.006:50%	38.8	0.769	0.512	0.4236	
30 minute summer	13	1.006	14	52.0	1.561	0.687	0.3937	
30 minute summer	14	Hydro-Brake®	14_OUT	12.1				
30 minute summer	5	1.003	8	13.6	0.762	0.566	0.1145	
30 minute summer	2	1.001	1.001:50%	-0.3	-0.062	-0.027	0.0520	
30 minute summer	2	1.001	3	6.4	0.690	0.600	0.0579	
30 minute summer	1	1.000	2	0.0	0.000	0.000	0.0239	

**Results for 2 year 30 minute summer. 270 minute analysis at 1 minute timestep. Mass balance: 99.92%**

Node Event	US Node	Peak (mins)	Depth (m)	Inflow (l/s)	Node Vol (m ³)	Flood (m ³)	Status
30 minute summer	3	21	0.088	6.4	0.0994	0.0000	OK
30 minute summer	1.002:50%	21	0.100	9.2	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
30 minute summer	3	1.002	1.002:50%	6.4	0.490	0.446	0.1436	
30 minute summer	3	1.002	5	9.2	0.720	0.641	0.1405	

**Results for 2 year 30 minute winter. 270 minute analysis at 1 minute timestep. Mass balance: 99.93%**

Node Event	US Node	Peak (mins)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
30 minute winter	6	1	0.000	0.0	0.0000	0.0000	OK
30 minute winter	3.000:50%	20	0.048	7.7	0.0028	0.0000	OK
30 minute winter	7	20	0.097	7.7	0.1099	0.0000	OK
30 minute winter	3.001:50%	21	0.106	10.3	0.0000	0.0000	OK
30 minute winter	4	21	0.038	0.1	0.0426	0.0000	OK
30 minute winter	2.000:50%	21	0.070	4.7	0.1693	0.0000	OK
30 minute winter	8	21	0.095	24.6	0.1077	0.0000	OK
30 minute winter	1.004:50%	21	0.105	29.8	0.0221	0.0000	OK
30 minute winter	9	21	0.155	29.8	0.1750	0.0000	OK
30 minute winter	1.005:50%	21	0.153	31.1	0.0000	0.0000	OK
30 minute winter	10	1	0.000	0.0	0.0000	0.0000	OK
30 minute winter	4.000:50%	20	0.032	4.5	0.0000	0.0000	OK
30 minute winter	11	20	0.038	4.5	0.0433	0.0000	OK
30 minute winter	4.001:50%	21	0.044	5.8	0.0000	0.0000	OK
30 minute winter	12	21	0.084	5.8	0.0952	0.0000	OK
30 minute winter	4.002:50%	21	0.102	9.7	0.0000	0.0000	OK
30 minute winter	13	21	0.189	40.6	0.2698	0.0000	OK
30 minute winter	1.006:50%	31	0.189	48.7	0.0000	0.0000	OK
30 minute winter	14	32	0.196	51.9	29.9115	0.0000	OK
30 minute winter	14_OUT	1	0.000	13.1	0.0000	0.0000	OK
30 minute winter	5	21	0.119	14.3	0.1345	0.0000	OK
30 minute winter	2	21	0.063	0.2	0.0709	0.0000	OK
30 minute winter	1.001:50%	21	0.086	6.8	0.1288	0.0000	OK
30 minute winter	1	1	0.000	0.0	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
30 minute winter	6	3.000	3.000:50%	0.0	0.000	0.000	0.0271	
30 minute winter	6	3.000	7	7.7	1.239	0.219	0.0743	
30 minute winter	7	3.001	3.001:50%	7.6	0.528	0.524	0.1462	
30 minute winter	7	3.001	8	10.3	0.747	0.707	0.1394	
30 minute winter	4	2.000	2.000:50%	-0.1	-0.063	-0.013	0.0507	
30 minute winter	4	2.000	5	4.6	0.625	0.435	0.0658	
30 minute winter	8	1.004	1.004:50%	24.6	1.441	0.359	0.2618	
30 minute winter	8	1.004	9	29.8	1.421	0.435	0.3210	
30 minute winter	9	1.005	1.005:50%	29.7	0.941	0.625	0.2992	
30 minute winter	9	1.005	13	31.0	1.030	0.653	0.2855	
30 minute winter	10	4.000	4.000:50%	0.0	0.000	0.000	0.0164	
30 minute winter	10	4.000	11	4.5	1.431	0.099	0.0376	
30 minute winter	11	4.001	4.001:50%	4.5	1.150	0.142	0.0618	
30 minute winter	11	4.001	12	5.8	1.181	0.183	0.0850	
30 minute winter	12	4.002	4.002:50%	5.8	0.443	0.396	0.1380	
30 minute winter	12	4.002	13	9.6	0.730	0.663	0.1402	
30 minute winter	13	1.006	1.006:50%	42.9	0.812	0.567	0.4334	
30 minute winter	13	1.006	14	51.9	1.543	0.685	0.4544	
30 minute winter	14	Hydro-Brake®	14_OUT	13.1				41.2
30 minute winter	5	1.003	8	14.3	0.773	0.595	0.1188	
30 minute winter	2	1.001	1.001:50%	-0.2	-0.074	-0.019	0.0540	
30 minute winter	2	1.001	3	6.7	0.700	0.628	0.0598	
30 minute winter	1	1.000	2	0.0	0.000	0.000	0.0251	

**Results for 2 year 30 minute winter. 270 minute analysis at 1 minute timestep. Mass balance: 99.93%**

Node Event	US Node	Peak (mins)	Depth (m)	Inflow (l/s)	Node Vol (m ³)	Flood (m ³)	Status
30 minute winter	3	21	0.091	6.7	0.1025	0.0000	OK
30 minute winter	1.002:50%	21	0.103	9.7	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
30 minute winter	3	1.002	1.002:50%	6.7	0.494	0.466	0.1489	
30 minute winter	3	1.002	5	9.7	0.730	0.672	0.1452	

**Results for 2 year 60 minute summer. 300 minute analysis at 1 minute timestep. Mass balance: 100.00%**

Node Event	US Node	Peak (mins)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute summer	6	1	0.000	0.0	0.0000	0.0000	OK
60 minute summer	3.000:50%	35	0.043	6.3	0.0022	0.0000	OK
60 minute summer	7	35	0.086	6.3	0.0967	0.0000	OK
60 minute summer	3.001:50%	36	0.094	8.5	0.0000	0.0000	OK
60 minute summer	4	36	0.031	0.1	0.0346	0.0000	OK
60 minute summer	2.000:50%	36	0.062	3.9	0.1361	0.0000	OK
60 minute summer	8	36	0.085	20.3	0.0965	0.0000	OK
60 minute summer	1.004:50%	36	0.094	24.6	0.0177	0.0000	OK
60 minute summer	9	36	0.137	24.6	0.1546	0.0000	OK
60 minute summer	1.005:50%	36	0.136	25.7	0.0000	0.0000	OK
60 minute summer	10	1	0.000	0.0	0.0000	0.0000	OK
60 minute summer	4.000:50%	35	0.029	3.7	0.0000	0.0000	OK
60 minute summer	11	35	0.035	3.7	0.0392	0.0000	OK
60 minute summer	4.001:50%	36	0.039	4.8	0.0000	0.0000	OK
60 minute summer	12	36	0.074	4.8	0.0835	0.0000	OK
60 minute summer	4.002:50%	36	0.092	8.0	0.0000	0.0000	OK
60 minute summer	13	39	0.176	33.6	0.2524	0.0000	OK
60 minute summer	1.006:50%	46	0.182	38.2	0.0000	0.0000	OK
60 minute summer	14	47	0.189	37.7	28.7857	0.0000	OK
60 minute summer	14_OUT	1	0.000	12.9	0.0000	0.0000	OK
60 minute summer	5	36	0.107	11.8	0.1205	0.0000	OK
60 minute summer	2	36	0.054	0.2	0.0611	0.0000	OK
60 minute summer	1.001:50%	36	0.077	5.6	0.1038	0.0000	OK
60 minute summer	1	1	0.000	0.0	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
60 minute summer	6	3.000	3.000:50%	0.0	0.000	0.000	0.0235	
60 minute summer	6	3.000	7	6.3	1.233	0.179	0.0609	
60 minute summer	7	3.001	3.001:50%	6.3	0.504	0.430	0.1260	
60 minute summer	7	3.001	8	8.5	0.704	0.583	0.1219	
60 minute summer	4	2.000	2.000:50%	-0.1	-0.048	-0.011	0.0421	46.2
60 minute summer	4	2.000	5	3.8	0.591	0.357	0.0571	
60 minute summer	8	1.004	1.004:50%	20.3	1.377	0.297	0.2261	
60 minute summer	8	1.004	9	24.6	1.391	0.359	0.2710	
60 minute summer	9	1.005	1.005:50%	24.5	0.899	0.516	0.2587	
60 minute summer	9	1.005	13	25.6	0.974	0.540	0.2498	
60 minute summer	10	4.000	4.000:50%	0.0	0.000	0.000	0.0143	
60 minute summer	10	4.000	11	3.7	1.352	0.082	0.0327	
60 minute summer	11	4.001	4.001:50%	3.7	1.084	0.117	0.0538	
60 minute summer	11	4.001	12	4.8	1.171	0.152	0.0688	
60 minute summer	12	4.002	4.002:50%	4.8	0.427	0.327	0.1184	
60 minute summer	12	4.002	13	7.9	0.689	0.546	0.1224	
60 minute summer	13	1.006	1.006:50%	33.4	0.739	0.441	0.4121	
60 minute summer	13	1.006	14	37.7	1.167	0.498	0.4324	
60 minute summer	14	Hydro-Brake®	14_OUT	12.9				
60 minute summer	5	1.003	8	11.8	0.735	0.490	0.1030	
60 minute summer	2	1.001	1.001:50%	-0.2	-0.041	-0.017	0.0460	
60 minute summer	2	1.001	3	5.6	0.662	0.521	0.0525	
60 minute summer	1	1.000	2	0.0	0.000	0.000	0.0206	

**Results for 2 year 60 minute summer. 300 minute analysis at 1 minute timestep. Mass balance: 100.00%**

Node Event	US Node	Peak (mins)	Depth (m)	Inflow (l/s)	Node Vol (m ³)	Flood (m ³)	Status
60 minute summer	3	36	0.080	5.6	0.0906	0.0000	OK
60 minute summer	1.002:50%	36	0.092	8.0	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
60 minute summer	3	1.002	1.002:50%	5.6	0.475	0.387	0.1285	
60 minute summer	3	1.002	5	8.0	0.690	0.555	0.1269	

**Results for 2 year 60 minute winter. 300 minute analysis at 1 minute timestep. Mass balance: 100.00%**

Node Event	US Node	Peak (mins)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute winter	6	1	0.000	0.0	0.0000	0.0000	OK
60 minute winter	3.000:50%	35	0.041	5.7	0.0020	0.0000	OK
60 minute winter	7	35	0.080	5.7	0.0908	0.0000	OK
60 minute winter	3.001:50%	36	0.089	7.7	0.0000	0.0000	OK
60 minute winter	4	36	0.027	0.1	0.0310	0.0000	OK
60 minute winter	2.000:50%	36	0.059	3.5	0.1234	0.0000	OK
60 minute winter	8	36	0.081	18.4	0.0913	0.0000	OK
60 minute winter	1.004:50%	36	0.089	22.3	0.0158	0.0000	OK
60 minute winter	9	36	0.128	22.2	0.1451	0.0000	OK
60 minute winter	1.005:50%	36	0.128	23.3	0.0000	0.0000	OK
60 minute winter	10	1	0.000	0.0	0.0000	0.0000	OK
60 minute winter	4.000:50%	35	0.028	3.3	0.0000	0.0000	OK
60 minute winter	11	36	0.033	3.3	0.0372	0.0000	OK
60 minute winter	4.001:50%	36	0.038	4.3	0.0000	0.0000	OK
60 minute winter	12	36	0.069	4.3	0.0780	0.0000	OK
60 minute winter	4.002:50%	36	0.086	7.2	0.0000	0.0000	OK
60 minute winter	13	49	0.192	30.4	0.2752	0.0000	OK
60 minute winter	1.006:50%	49	0.199	34.6	0.0000	0.0000	OK
60 minute winter	14	50	0.206	34.2	31.4850	0.0000	OK
60 minute winter	14_OUT	1	0.000	13.3	0.0000	0.0000	OK
60 minute winter	5	36	0.101	10.7	0.1141	0.0000	OK
60 minute winter	2	36	0.050	0.1	0.0562	0.0000	OK
60 minute winter	1.001:50%	36	0.073	5.1	0.0924	0.0000	OK
60 minute winter	1	1	0.000	0.0	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
60 minute winter	6	3.000	3.000:50%	0.0	0.000	0.000	0.0219	
60 minute winter	6	3.000	7	5.7	1.220	0.162	0.0550	
60 minute winter	7	3.001	3.001:50%	5.7	0.491	0.389	0.1168	
60 minute winter	7	3.001	8	7.7	0.683	0.528	0.1138	
60 minute winter	4	2.000	2.000:50%	-0.1	-0.043	-0.007	0.0385	
60 minute winter	4	2.000	5	3.5	0.576	0.326	0.0536	
60 minute winter	8	1.004	1.004:50%	18.4	1.342	0.268	0.2098	
60 minute winter	8	1.004	9	22.2	1.375	0.325	0.2480	
60 minute winter	9	1.005	1.005:50%	22.2	0.880	0.467	0.2393	
60 minute winter	9	1.005	13	23.3	0.952	0.490	0.2316	
60 minute winter	10	4.000	4.000:50%	0.0	0.000	0.000	0.0132	
60 minute winter	10	4.000	11	3.3	1.308	0.073	0.0303	
60 minute winter	11	4.001	4.001:50%	3.3	1.049	0.105	0.0500	
60 minute winter	11	4.001	12	4.3	1.162	0.137	0.0615	
60 minute winter	12	4.002	4.002:50%	4.3	0.419	0.295	0.1093	
60 minute winter	12	4.002	13	7.2	0.669	0.494	0.1140	
60 minute winter	13	1.006	1.006:50%	30.3	0.686	0.399	0.4645	
60 minute winter	13	1.006	14	34.2	1.086	0.452	0.4859	
60 minute winter	14	Hydro-Brake®	14_OUT	13.3				52.1
60 minute winter	5	1.003	8	10.7	0.717	0.444	0.0957	
60 minute winter	2	1.001	1.001:50%	-0.1	-0.047	-0.011	0.0420	
60 minute winter	2	1.001	3	5.0	0.642	0.470	0.0488	
60 minute winter	1	1.000	2	0.0	0.000	0.000	0.0183	

**Results for 2 year 60 minute winter. 300 minute analysis at 1 minute timestep. Mass balance: 100.00%**

Node Event	US Node	Peak (mins)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute winter	3	36	0.075	5.0	0.0849	0.0000	OK
60 minute winter	1.002:50%	36	0.087	7.2	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
60 minute winter	3	1.002	1.002:50%	5.0	0.464	0.349	0.1188	
60 minute winter	3	1.002	5	7.2	0.670	0.501	0.1182	

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

Node Event	US Node	Peak (mins)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
120 minute summer	6	2	0.000	0.0	0.0000	0.0000	OK
120 minute summer	3.000:50%	66	0.036	4.5	0.0016	0.0000	OK
120 minute summer	7	66	0.070	4.5	0.0790	0.0000	OK
120 minute summer	3.001:50%	66	0.079	6.1	0.0000	0.0000	OK
120 minute summer	4	66	0.021	0.1	0.0234	0.0000	OK
120 minute summer	2.000:50%	66	0.053	2.8	0.0973	0.0000	OK
120 minute summer	8	66	0.071	14.7	0.0807	0.0000	OK
120 minute summer	1.004:50%	66	0.079	17.7	0.0124	0.0000	OK
120 minute summer	9	66	0.112	17.7	0.1265	0.0000	OK
120 minute summer	1.005:50%	66	0.112	18.5	0.0000	0.0000	OK
120 minute summer	10	2	0.000	0.0	0.0000	0.0000	OK
120 minute summer	4.000:50%	66	0.024	2.6	0.0000	0.0000	OK
120 minute summer	11	66	0.029	2.6	0.0331	0.0000	OK
120 minute summer	4.001:50%	66	0.034	3.4	0.0000	0.0000	OK
120 minute summer	12	66	0.059	3.4	0.0670	0.0000	OK
120 minute summer	4.002:50%	66	0.076	5.7	0.0000	0.0000	OK
120 minute summer	13	78	0.172	24.2	0.2467	0.0000	OK
120 minute summer	1.006:50%	78	0.179	27.5	0.0000	0.0000	OK
120 minute summer	14	80	0.186	27.3	28.3061	0.0000	OK
120 minute summer	14_OUT	2	0.000	12.7	0.0000	0.0000	OK
120 minute summer	5	66	0.089	8.6	0.1011	0.0000	OK
120 minute summer	2	66	0.041	0.1	0.0463	0.0000	OK
120 minute summer	1.001:50%	66	0.064	4.0	0.0715	0.0000	OK
120 minute summer	1	2	0.000	0.0	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
120 minute summer	6	3.000	3.000:50%	0.0	0.000	0.000	0.0185	
120 minute summer	6	3.000	7	4.5	1.215	0.128	0.0434	
120 minute summer	7	3.001	3.001:50%	4.5	0.464	0.310	0.0983	
120 minute summer	7	3.001	8	6.1	0.639	0.420	0.0968	
120 minute summer	4	2.000	2.000:50%	-0.1	-0.035	-0.006	0.0309	
120 minute summer	4	2.000	5	2.8	0.540	0.261	0.0457	
120 minute summer	8	1.004	1.004:50%	14.6	1.264	0.214	0.1777	
120 minute summer	8	1.004	9	17.7	1.339	0.259	0.2031	
120 minute summer	9	1.005	1.005:50%	17.7	0.836	0.373	0.2007	
120 minute summer	9	1.005	13	18.5	0.898	0.389	0.1950	
120 minute summer	10	4.000	4.000:50%	0.0	0.000	0.000	0.0112	
120 minute summer	10	4.000	11	2.6	1.219	0.058	0.0256	
120 minute summer	11	4.001	4.001:50%	2.6	0.973	0.083	0.0425	
120 minute summer	11	4.001	12	3.4	1.149	0.108	0.0473	
120 minute summer	12	4.002	4.002:50%	3.4	0.397	0.234	0.0910	
120 minute summer	12	4.002	13	5.7	0.625	0.392	0.0967	
120 minute summer	13	1.006	1.006:50%	24.0	0.565	0.317	0.4034	
120 minute summer	13	1.006	14	27.3	0.798	0.360	0.4230	
120 minute summer	14	Hydro-Brake®	14_OUT	12.7				57.1
120 minute summer	5	1.003	8	8.6	0.673	0.355	0.0813	
120 minute summer	2	1.001	1.001:50%	-0.1	0.032	-0.007	0.0343	
120 minute summer	2	1.001	3	4.0	0.600	0.373	0.0414	
120 minute summer	1	1.000	2	0.0	0.000	0.000	0.0140	

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

Node Event	US Node	Peak (mins)	Depth (m)	Inflow (l/s)	Node Vol (m ³)	Flood (m ³)	Status
120 minute summer	3	66	0.065	4.0	0.0736	0.0000	OK
120 minute summer	1.002:50%	66	0.077	5.8	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
120 minute summer	3	1.002	1.002:50%	4.0	0.438	0.277	0.0998	
120 minute summer	3	1.002	5	5.8	0.627	0.401	0.1009	

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

Node Event	US Node	Peak (mins)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	
120 minute winter	6	2	0.000	0.0	0.0000	0.0000	OK	
120 minute winter	3.000:50%	66	0.033	3.7	0.0013	0.0000	OK	
120 minute winter	7	66	0.062	3.7	0.0703	0.0000	OK	
120 minute winter	3.001:50%	66	0.071	5.0	0.0000	0.0000	OK	
120 minute winter	4	66	0.016	0.0	0.0177	0.0000	OK	
120 minute winter	2.000:50%	66	0.048	2.3	0.0794	0.0000	OK	
120 minute winter	8	66	0.064	12.0	0.0724	0.0000	OK	
120 minute winter	1.004:50%	66	0.071	14.5	0.0101	0.0000	OK	
120 minute winter	9	66	0.099	14.5	0.1125	0.0000	OK	
120 minute winter	1.005:50%	68	0.100	15.1	0.0000	0.0000	OK	
120 minute winter	10	2	0.000	0.0	0.0000	0.0000	OK	
120 minute winter	4.000:50%	64	0.022	2.1	0.0000	0.0000	OK	
120 minute winter	11	66	0.026	2.1	0.0298	0.0000	OK	
120 minute winter	4.001:50%	66	0.030	2.7	0.0000	0.0000	OK	
120 minute winter	12	66	0.051	2.7	0.0580	0.0000	OK	
120 minute winter	4.002:50%	66	0.068	4.6	0.0000	0.0000	OK	
120 minute winter	13	82	0.178	19.7	0.2552	0.0000	OK	
120 minute winter	1.006:50%	84	0.185	22.4	0.0000	0.0000	OK	
120 minute winter	14	84	0.192	22.2	29.2502	0.0000	OK	
120 minute winter	14_OUT	2	0.000	13.0	0.0000	0.0000	OK	
120 minute winter	5	66	0.080	7.0	0.0909	0.0000	OK	
120 minute winter	2	66	0.035	0.0	0.0391	0.0000	OK	
120 minute winter	1.001:50%	66	0.058	3.3	0.0583	0.0000	OK	
120 minute winter	1	2	0.000	0.0	0.0000	0.0000	OK	
Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
120 minute winter	6	3.000	3.000:50%	0.0	0.000	0.000	0.0161	
120 minute winter	6	3.000	7	3.7	1.208	0.106	0.0352	
120 minute winter	7	3.001	3.001:50%	3.7	0.443	0.255	0.0848	
120 minute winter	7	3.001	8	5.0	0.603	0.344	0.0842	
120 minute winter	4	2.000	2.000:50%	0.0	-0.022	-0.003	0.0256	
120 minute winter	4	2.000	5	2.3	0.512	0.215	0.0397	
120 minute winter	8	1.004	1.004:50%	12.0	1.197	0.175	0.1534	
120 minute winter	8	1.004	9	14.5	1.304	0.211	0.1700	
120 minute winter	9	1.005	1.005:50%	14.4	0.795	0.304	0.1723	
120 minute winter	9	1.005	13	15.2	0.854	0.319	0.1684	
120 minute winter	10	4.000	4.000:50%	0.0	0.000	0.000	0.0096	
120 minute winter	10	4.000	11	2.1	1.144	0.046	0.0221	
120 minute winter	11	4.001	4.001:50%	2.1	0.917	0.067	0.0364	
120 minute winter	11	4.001	12	2.7	1.084	0.086	0.0396	
120 minute winter	12	4.002	4.002:50%	2.7	0.378	0.186	0.0767	
120 minute winter	12	4.002	13	4.6	0.587	0.316	0.0831	
120 minute winter	13	1.006	1.006:50%	19.6	0.499	0.259	0.4214	
120 minute winter	13	1.006	14	22.2	0.858	0.293	0.4419	
120 minute winter	14	Hydro-Brake®	14_OUT	13.0				64.2
120 minute winter	5	1.003	8	7.0	0.636	0.289	0.0701	
120 minute winter	2	1.001	1.001:50%	0.0	-0.026	-0.004	0.0289	
120 minute winter	2	1.001	3	3.3	0.568	0.308	0.0362	
120 minute winter	1	1.000	2	0.0	0.000	0.000	0.0110	

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

Node Event	US Node	Peak (mins)	Depth (m)	Inflow (l/s)	Node Vol (m ³)	Flood (m ³)	Status
120 minute winter	3	66	0.058	3.3	0.0656	0.0000	OK
120 minute winter	1.002:50%	66	0.069	4.7	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
120 minute winter	3	1.002	1.002:50%	3.3	0.421	0.228	0.0857	
120 minute winter	3	1.002	5	4.7	0.590	0.325	0.0869	

**Results for 2 year 180 minute summer. 420 minute analysis at 4 minute timestep. Mass balance: 100.00%**

Node Event	US Node	Peak (mins)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	
180 minute summer	6	4	0.000	0.0	0.0000	0.0000	OK	
180 minute summer	3.000:50%	96	0.032	3.5	0.0012	0.0000	OK	
180 minute summer	7	96	0.060	3.5	0.0678	0.0000	OK	
180 minute summer	3.001:50%	96	0.068	4.7	0.0000	0.0000	OK	
180 minute summer	4	96	0.014	0.0	0.0159	0.0000	OK	
180 minute summer	2.000:50%	96	0.046	2.2	0.0741	0.0000	OK	
180 minute summer	8	96	0.062	11.2	0.0699	0.0000	OK	
180 minute summer	1.004:50%	96	0.069	13.6	0.0095	0.0000	OK	
180 minute summer	9	96	0.096	13.6	0.1084	0.0000	OK	
180 minute summer	1.005:50%	96	0.096	14.2	0.0000	0.0000	OK	
180 minute summer	10	4	0.000	0.0	0.0000	0.0000	OK	
180 minute summer	4.000:50%	96	0.022	2.0	0.0000	0.0000	OK	
180 minute summer	11	96	0.026	2.0	0.0290	0.0000	OK	
180 minute summer	4.001:50%	96	0.029	2.6	0.0000	0.0000	OK	
180 minute summer	12	96	0.050	2.6	0.0563	0.0000	OK	
180 minute summer	4.002:50%	96	0.066	4.4	0.0000	0.0000	OK	
180 minute summer	13	112	0.161	18.5	0.2310	0.0000	OK	
180 minute summer	1.006:50%	112	0.168	21.1	0.0000	0.0000	OK	
180 minute summer	14	112	0.174	20.9	26.6189	0.0000	OK	
180 minute summer	14_OUT	4	0.000	12.1	0.0000	0.0000	OK	
180 minute summer	5	96	0.078	6.6	0.0880	0.0000	OK	
180 minute summer	2	96	0.033	0.0	0.0369	0.0000	OK	
180 minute summer	1.001:50%	96	0.056	3.1	0.0541	0.0000	OK	
180 minute summer	1	4	0.000	0.0	0.0000	0.0000	OK	
Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
180 minute summer	6	3.000	3.000:50%	0.0	0.000	0.000	0.0155	
180 minute summer	6	3.000	7	3.5	1.204	0.100	0.0330	
180 minute summer	7	3.001	3.001:50%	3.5	0.437	0.239	0.0806	
180 minute summer	7	3.001	8	4.6	0.591	0.320	0.0799	
180 minute summer	4	2.000	2.000:50%	0.0	-0.020	-0.003	0.0239	
180 minute summer	4	2.000	5	2.1	0.501	0.200	0.0378	
180 minute summer	8	1.004	1.004:50%	11.2	1.172	0.164	0.1464	
180 minute summer	8	1.004	9	13.6	1.294	0.198	0.1606	
180 minute summer	9	1.005	1.005:50%	13.5	0.781	0.284	0.1640	
180 minute summer	9	1.005	13	14.2	0.838	0.298	0.1602	
180 minute summer	10	4.000	4.000:50%	0.0	0.000	0.000	0.0093	
180 minute summer	10	4.000	11	2.0	1.128	0.044	0.0213	
180 minute summer	11	4.001	4.001:50%	2.0	0.899	0.063	0.0352	
180 minute summer	11	4.001	12	2.6	1.069	0.082	0.0383	
180 minute summer	12	4.002	4.002:50%	2.6	0.372	0.177	0.0736	
180 minute summer	12	4.002	13	4.3	0.578	0.299	0.0798	
180 minute summer	13	1.006	1.006:50%	18.4	0.481	0.242	0.3705	
180 minute summer	13	1.006	14	20.9	0.727	0.275	0.3901	
180 minute summer	14	Hydro-Brake®	14_OUT	12.1				
180 minute summer	5	1.003	8	6.6	0.627	0.273	0.0670	
180 minute summer	2	1.001	1.001:50%	0.0	0.020	0.004	0.0272	
180 minute summer	2	1.001	3	3.1	0.557	0.287	0.0344	
180 minute summer	1	1.000	2	0.0	0.000	0.000	0.0101	

**Results for 2 year 180 minute summer. 420 minute analysis at 4 minute timestep. Mass balance: 100.00%**

Node Event	US Node	Peak (mins)	Depth (m)	Inflow (l/s)	Node Vol (m ³)	Flood (m ³)	Status
180 minute summer	3	96	0.056	3.1	0.0629	0.0000	OK
180 minute summer	1.002:50%	96	0.067	4.5	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
180 minute summer	3	1.002	1.002:50%	3.1	0.411	0.213	0.0819	
180 minute summer	3	1.002	5	4.4	0.581	0.308	0.0837	

**Results for 2 year 180 minute winter. 420 minute analysis at 4 minute timestep. Mass balance: 100.00%**

Node Event	US Node	Peak (mins)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	
180 minute winter	6	4	0.000	0.0	0.0000	0.0000	OK	
180 minute winter	3.000:50%	96	0.029	2.8	0.0010	0.0000	OK	
180 minute winter	7	96	0.053	2.8	0.0598	0.0000	OK	
180 minute winter	3.001:50%	96	0.061	3.8	0.0000	0.0000	OK	
180 minute winter	4	96	0.009	0.0	0.0101	0.0000	OK	
180 minute winter	2.000:50%	100	0.041	1.7	0.0585	0.0000	OK	
180 minute winter	8	96	0.055	9.0	0.0623	0.0000	OK	
180 minute winter	1.004:50%	96	0.062	10.9	0.0076	0.0000	OK	
180 minute winter	9	96	0.085	10.9	0.0959	0.0000	OK	
180 minute winter	1.005:50%	96	0.085	11.4	0.0000	0.0000	OK	
180 minute winter	10	4	0.000	0.0	0.0000	0.0000	OK	
180 minute winter	4.000:50%	96	0.019	1.6	0.0000	0.0000	OK	
180 minute winter	11	96	0.023	1.6	0.0261	0.0000	OK	
180 minute winter	4.001:50%	100	0.027	2.1	0.0000	0.0000	OK	
180 minute winter	12	100	0.045	2.1	0.0504	0.0000	OK	
180 minute winter	4.002:50%	100	0.059	3.5	0.0000	0.0000	OK	
180 minute winter	13	116	0.160	14.9	0.2292	0.0000	OK	
180 minute winter	1.006:50%	116	0.167	16.9	0.0000	0.0000	OK	
180 minute winter	14	116	0.173	16.7	26.3744	0.0000	OK	
180 minute winter	14_OUT	4	0.000	11.9	0.0000	0.0000	OK	
180 minute winter	5	96	0.070	5.3	0.0787	0.0000	OK	
180 minute winter	2	96	0.027	0.0	0.0301	0.0000	OK	
180 minute winter	1.001:50%	96	0.050	2.5	0.0431	0.0000	OK	
180 minute winter	1	4	0.000	0.0	0.0000	0.0000	OK	
Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
180 minute winter	6	3.000	3.000:50%	0.0	0.000	0.000	0.0135	
180 minute winter	6	3.000	7	2.8	1.180	0.080	0.0267	
180 minute winter	7	3.001	3.001:50%	2.8	0.412	0.192	0.0686	
180 minute winter	7	3.001	8	3.8	0.555	0.259	0.0688	
180 minute winter	4	2.000	2.000:50%	0.0	-0.014	0.002	0.0191	
180 minute winter	4	2.000	5	1.7	0.471	0.159	0.0320	
180 minute winter	8	1.004	1.004:50%	9.0	1.102	0.131	0.1252	
180 minute winter	8	1.004	9	10.9	1.253	0.159	0.1330	
180 minute winter	9	1.005	1.005:50%	10.9	0.741	0.229	0.1390	
180 minute winter	9	1.005	13	11.4	0.790	0.239	0.1363	
180 minute winter	10	4.000	4.000:50%	0.0	0.000	0.000	0.0080	
180 minute winter	10	4.000	11	1.6	1.054	0.035	0.0182	
180 minute winter	11	4.001	4.001:50%	1.6	0.840	0.051	0.0303	
180 minute winter	11	4.001	12	2.1	1.007	0.067	0.0332	
180 minute winter	12	4.002	4.002:50%	2.1	0.355	0.144	0.0631	
180 minute winter	12	4.002	13	3.5	0.543	0.241	0.0684	
180 minute winter	13	1.006	1.006:50%	14.8	0.422	0.195	0.3666	
180 minute winter	13	1.006	14	16.7	0.772	0.221	0.3856	
180 minute winter	14	Hydro-Brake®	14_OUT	11.9				72.2
180 minute winter	5	1.003	8	5.3	0.591	0.218	0.0572	
180 minute winter	2	1.001	1.001:50%	0.0	0.016	-0.002	0.0223	
180 minute winter	2	1.001	3	2.5	0.523	0.231	0.0295	
180 minute winter	1	1.000	2	0.0	0.000	0.000	0.0076	

**Results for 2 year 180 minute winter. 420 minute analysis at 4 minute timestep. Mass balance: 100.00%**

Node Event	US Node	Peak (mins)	Depth (m)	Inflow (l/s)	Node Vol (m ³)	Flood (m ³)	Status
180 minute winter	3	96	0.049	2.5	0.0555	0.0000	OK
180 minute winter	1.002:50%	96	0.059	3.6	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
180 minute winter	3	1.002	1.002:50%	2.5	0.390	0.171	0.0694	
180 minute winter	3	1.002	5	3.6	0.545	0.246	0.0714	

**Results for 2 year 240 minute summer. 480 minute analysis at 4 minute timestep. Mass balance: 100.00%**

Node Event	US Node	Peak (mins)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
240 minute summer	6	4	0.000	0.0	0.0000	0.0000	OK
240 minute summer	3.000:50%	128	0.030	2.9	0.0011	0.0000	OK
240 minute summer	7	128	0.054	2.9	0.0611	0.0000	OK
240 minute summer	3.001:50%	128	0.062	3.9	0.0000	0.0000	OK
240 minute summer	4	128	0.010	0.0	0.0114	0.0000	OK
240 minute summer	2.000:50%	128	0.042	1.8	0.0618	0.0000	OK
240 minute summer	8	128	0.056	9.4	0.0638	0.0000	OK
240 minute summer	1.004:50%	128	0.063	11.4	0.0080	0.0000	OK
240 minute summer	9	128	0.087	11.4	0.0984	0.0000	OK
240 minute summer	1.005:50%	128	0.088	11.9	0.0000	0.0000	OK
240 minute summer	10	4	0.000	0.0	0.0000	0.0000	OK
240 minute summer	4.000:50%	128	0.020	1.7	0.0000	0.0000	OK
240 minute summer	11	128	0.024	1.7	0.0269	0.0000	OK
240 minute summer	4.001:50%	128	0.027	2.2	0.0000	0.0000	OK
240 minute summer	12	128	0.046	2.2	0.0516	0.0000	OK
240 minute summer	4.002:50%	128	0.061	3.7	0.0000	0.0000	OK
240 minute summer	13	140	0.151	15.6	0.2159	0.0000	OK
240 minute summer	1.006:50%	144	0.157	17.8	0.0000	0.0000	OK
240 minute summer	14	144	0.164	17.6	24.9503	0.0000	OK
240 minute summer	14_OUT	4	0.000	11.3	0.0000	0.0000	OK
240 minute summer	5	128	0.071	5.5	0.0804	0.0000	OK
240 minute summer	2	128	0.028	0.0	0.0315	0.0000	OK
240 minute summer	1.001:50%	128	0.051	2.6	0.0453	0.0000	OK
240 minute summer	1	4	0.000	0.0	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
240 minute summer	6	3.000	3.000:50%	0.0	0.000	0.000	0.0138	
240 minute summer	6	3.000	7	2.9	1.194	0.083	0.0274	
240 minute summer	7	3.001	3.001:50%	2.9	0.417	0.200	0.0705	
240 minute summer	7	3.001	8	3.9	0.561	0.269	0.0706	
240 minute summer	4	2.000	2.000:50%	0.0	-0.014	0.002	0.0201	
240 minute summer	4	2.000	5	1.8	0.478	0.169	0.0333	
240 minute summer	8	1.004	1.004:50%	9.4	1.115	0.137	0.1294	
240 minute summer	8	1.004	9	11.4	1.267	0.167	0.1380	
240 minute summer	9	1.005	1.005:50%	11.4	0.751	0.240	0.1440	
240 minute summer	9	1.005	13	11.9	0.800	0.250	0.1410	
240 minute summer	10	4.000	4.000:50%	0.0	0.000	0.000	0.0083	
240 minute summer	10	4.000	11	1.7	1.074	0.038	0.0190	
240 minute summer	11	4.001	4.001:50%	1.7	0.860	0.054	0.0314	
240 minute summer	11	4.001	12	2.2	1.020	0.070	0.0343	
240 minute summer	12	4.002	4.002:50%	2.2	0.358	0.151	0.0654	
240 minute summer	12	4.002	13	3.7	0.552	0.254	0.0712	
240 minute summer	13	1.006	1.006:50%	15.5	0.429	0.205	0.3385	
240 minute summer	13	1.006	14	17.6	0.659	0.233	0.3576	
240 minute summer	14	Hydro-Brake®	14_OUT	11.3				69.9
240 minute summer	5	1.003	8	5.5	0.596	0.228	0.0591	
240 minute summer	2	1.001	1.001:50%	0.0	-0.024	0.003	0.0233	
240 minute summer	2	1.001	3	2.6	0.530	0.243	0.0305	
240 minute summer	1	1.000	2	0.0	0.000	0.000	0.0081	

**Results for 2 year 240 minute summer. 480 minute analysis at 4 minute timestep. Mass balance: 100.00%**

Node Event	US Node	Peak (mins)	Depth (m)	Inflow (l/s)	Node Vol (m ³)	Flood (m ³)	Status
240 minute summer	3	128	0.051	2.6	0.0572	0.0000	OK
240 minute summer	1.002:50%	128	0.061	3.7	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
240 minute summer	3	1.002	1.002:50%	2.6	0.397	0.180	0.0717	
240 minute summer	3	1.002	5	3.7	0.551	0.256	0.0735	

**Results for 2 year 240 minute winter. 480 minute analysis at 4 minute timestep. Mass balance: 100.00%**

	Node Event	US	Peak	Depth	Inflow	Node	Flood	Status		
		Node	(mins)	(m)	(l/s)	Vol (m³)	(m³)			
Node	240 minute winter	6	4	0.000	0.0	0.0000	0.0000	OK		
	240 minute winter	3.000:50%	124	0.026	2.2	0.0008	0.0000	OK		
	240 minute winter	7	124	0.046	2.2	0.0523	0.0000	OK		
	240 minute winter	3.001:50%	128	0.054	3.0	0.0000	0.0000	OK		
	240 minute winter	4	128	0.005	0.0	0.0059	0.0000	OK		
	240 minute winter	2.000:50%	124	0.037	1.4	0.0483	0.0000	OK		
	240 minute winter	8	124	0.050	7.3	0.0560	0.0000	OK		
	240 minute winter	1.004:50%	124	0.055	8.8	0.0061	0.0000	OK		
	240 minute winter	9	124	0.076	8.8	0.0855	0.0000	OK		
	240 minute winter	1.005:50%	128	0.076	9.2	0.0000	0.0000	OK		
	240 minute winter	10	4	0.000	0.0	0.0000	0.0000	OK		
	240 minute winter	4.000:50%	124	0.018	1.3	0.0000	0.0000	OK		
	240 minute winter	11	124	0.021	1.3	0.0236	0.0000	OK		
	240 minute winter	4.001:50%	128	0.024	1.7	0.0000	0.0000	OK		
	240 minute winter	12	128	0.040	1.7	0.0453	0.0000	OK		
	240 minute winter	4.002:50%	128	0.053	2.8	0.0000	0.0000	OK		
	240 minute winter	13	148	0.145	12.0	0.2070	0.0000	OK		
	240 minute winter	1.006:50%	148	0.151	13.6	0.0000	0.0000	OK		
	240 minute winter	14	148	0.157	13.6	23.9402	0.0000	OK		
	240 minute winter	14_OUT	4	0.000	10.8	0.0000	0.0000	OK		
240 minute winter	5	124	0.063	4.3	0.0711	0.0000	OK			
240 minute winter	2	128	0.021	0.0	0.0242	0.0000	OK			
240 minute winter	1.001:50%	124	0.044	2.0	0.0346	0.0000	OK			
240 minute winter	1	4	0.000	0.0	0.0000	0.0000	OK			
Link	Link Event	US	Link	DS	Outflow	Velocity	Flow/Cap	Link	Discharge	
		Node		Node	(l/s)	(m/s)		Vol (m³)		
	240 minute winter	6	3.000	3.000:50%	0.0	0.000	0.000	0.0113		
	240 minute winter	6	3.000	7	2.2	1.101	0.063	0.0225		
	240 minute winter	7	3.001	3.001:50%	2.2	0.387	0.152	0.0578		
	240 minute winter	7	3.001	8	3.0	0.521	0.207	0.0585		
	240 minute winter	4	2.000	2.000:50%	0.0	-0.011	-0.001	0.0158		
	240 minute winter	4	2.000	5	1.4	0.445	0.132	0.0280		
	240 minute winter	8	1.004	1.004:50%	7.3	1.043	0.107	0.1074		
	240 minute winter	8	1.004	9	8.8	1.181	0.129	0.1143		
	240 minute winter	9	1.005	1.005:50%	8.8	0.702	0.185	0.1189		
	240 minute winter	9	1.005	13	9.2	0.746	0.194	0.1169		
	240 minute winter	10	4.000	4.000:50%	0.0	0.000	0.000	0.0069		
	240 minute winter	10	4.000	11	1.3	0.991	0.029	0.0158		
	240 minute winter	11	4.001	4.001:50%	1.3	0.792	0.041	0.0261		
	240 minute winter	11	4.001	12	1.7	0.947	0.054	0.0285		
	240 minute winter	12	4.002	4.002:50%	1.7	0.335	0.117	0.0540		
	240 minute winter	12	4.002	13	2.8	0.509	0.192	0.0584		
	240 minute winter	13	1.006	1.006:50%	11.9	0.381	0.158	0.3202		
	240 minute winter	13	1.006	14	13.6	0.705	0.179	0.3383		
240 minute winter	14	Hydro-Brake®	14_OUT	10.8				78.3		
240 minute winter	5	1.003	8	4.3	0.557	0.179	0.0495			
240 minute winter	2	1.001	1.001:50%	0.0	-0.014	-0.002	0.0183			
240 minute winter	2	1.001	3	2.0	0.492	0.187	0.0253			
240 minute winter	1	1.000	2	0.0	0.000	0.000	0.0055			

**Results for 2 year 240 minute winter. 480 minute analysis at 4 minute timestep. Mass balance: 100.00%**

Node Event	US Node	Peak (mins)	Depth (m)	Inflow (l/s)	Node Vol (m ³)	Flood (m ³)	Status
240 minute winter	3	124	0.044	2.0	0.0496	0.0000	OK
240 minute winter	1.002:50%	128	0.054	2.9	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
240 minute winter	3	1.002	1.002:50%	2.0	0.368	0.139	0.0597	
240 minute winter	3	1.002	5	2.9	0.514	0.201	0.0619	

**Results for 2 year 360 minute summer. 600 minute analysis at 8 minute timestep. Mass balance: 100.00%**

Node Event	US Node	Peak (mins)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
360 minute summer	6	8	0.000	0.0	0.0000	0.0000	OK
360 minute summer	3.000:50%	192	0.026	2.2	0.0008	0.0000	OK
360 minute summer	7	192	0.046	2.2	0.0523	0.0000	OK
360 minute summer	3.001:50%	192	0.054	3.0	0.0000	0.0000	OK
360 minute summer	4	192	0.004	0.0	0.0042	0.0000	OK
360 minute summer	2.000:50%	192	0.036	1.3	0.0447	0.0000	OK
360 minute summer	8	192	0.048	7.0	0.0548	0.0000	OK
360 minute summer	1.004:50%	192	0.054	8.5	0.0059	0.0000	OK
360 minute summer	9	192	0.074	8.5	0.0839	0.0000	OK
360 minute summer	1.005:50%	192	0.075	8.9	0.0000	0.0000	OK
360 minute summer	10	8	0.000	0.0	0.0000	0.0000	OK
360 minute summer	4.000:50%	192	0.018	1.3	0.0000	0.0000	OK
360 minute summer	11	192	0.021	1.3	0.0236	0.0000	OK
360 minute summer	4.001:50%	192	0.024	1.7	0.0000	0.0000	OK
360 minute summer	12	192	0.040	1.7	0.0453	0.0000	OK
360 minute summer	4.002:50%	192	0.053	2.8	0.0000	0.0000	OK
360 minute summer	13	208	0.132	11.7	0.1892	0.0000	OK
360 minute summer	1.006:50%	208	0.138	13.3	0.0000	0.0000	OK
360 minute summer	14	208	0.144	13.3	22.0264	0.0000	OK
360 minute summer	14_OUT	8	0.000	9.9	0.0000	0.0000	OK
360 minute summer	5	192	0.061	4.0	0.0690	0.0000	OK
360 minute summer	2	192	0.020	0.0	0.0229	0.0000	OK
360 minute summer	1.001:50%	192	0.043	1.9	0.0328	0.0000	OK
360 minute summer	1	8	0.000	0.0	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
360 minute summer	6	3.000	3.000:50%	0.0	0.000	0.000	0.0113	
360 minute summer	6	3.000	7	2.2	1.101	0.063	0.0225	
360 minute summer	7	3.001	3.001:50%	2.2	0.387	0.152	0.0578	
360 minute summer	7	3.001	8	3.0	0.521	0.207	0.0585	
360 minute summer	4	2.000	2.000:50%	0.0	-0.011	-0.001	0.0147	
360 minute summer	4	2.000	5	1.3	0.436	0.122	0.0264	
360 minute summer	8	1.004	1.004:50%	7.0	1.028	0.102	0.1044	
360 minute summer	8	1.004	9	8.5	1.170	0.124	0.1114	
360 minute summer	9	1.005	1.005:50%	8.5	0.695	0.179	0.1159	
360 minute summer	9	1.005	13	8.9	0.739	0.187	0.1141	
360 minute summer	10	4.000	4.000:50%	0.0	0.000	0.000	0.0069	
360 minute summer	10	4.000	11	1.3	0.991	0.029	0.0158	
360 minute summer	11	4.001	4.001:50%	1.3	0.792	0.041	0.0261	
360 minute summer	11	4.001	12	1.7	0.947	0.054	0.0285	
360 minute summer	12	4.002	4.002:50%	1.7	0.335	0.117	0.0540	
360 minute summer	12	4.002	13	2.8	0.509	0.192	0.0584	
360 minute summer	13	1.006	1.006:50%	11.6	0.371	0.154	0.2840	
360 minute summer	13	1.006	14	13.3	0.554	0.175	0.3016	
360 minute summer	14	Hydro-Brake®	14_OUT	9.9				77.2
360 minute summer	5	1.003	8	4.0	0.537	0.166	0.0477	
360 minute summer	2	1.001	1.001:50%	0.0	-0.014	0.001	0.0174	
360 minute summer	2	1.001	3	1.9	0.485	0.177	0.0243	
360 minute summer	1	1.000	2	0.0	0.000	0.000	0.0051	

**Results for 2 year 360 minute summer. 600 minute analysis at 8 minute timestep. Mass balance: 100.00%**

Node Event	US Node	Peak (mins)	Depth (m)	Inflow (l/s)	Node Vol (m ³)	Flood (m ³)	Status
360 minute summer	3	192	0.043	1.9	0.0483	0.0000	OK
360 minute summer	1.002:50%	192	0.052	2.7	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
360 minute summer	3	1.002	1.002:50%	1.9	0.365	0.132	0.0571	
360 minute summer	3	1.002	5	2.7	0.504	0.187	0.0587	

**Results for 2 year 360 minute winter. 600 minute analysis at 8 minute timestep. Mass balance: 100.00%**

Node Event	US Node	Peak (mins)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	
360 minute winter	6	8	0.000	0.0	0.0000	0.0000	OK	
360 minute winter	3.000:50%	192	0.023	1.7	0.0006	0.0000	OK	
360 minute winter	7	192	0.040	1.7	0.0456	0.0000	OK	
360 minute winter	3.001:50%	192	0.047	2.3	0.0000	0.0000	OK	
360 minute winter	4	8	0.000	0.0	0.0000	0.0000	OK	
360 minute winter	2.000:50%	192	0.031	1.0	0.0345	0.0000	OK	
360 minute winter	8	192	0.043	5.5	0.0486	0.0000	OK	
360 minute winter	1.004:50%	192	0.048	6.6	0.0046	0.0000	OK	
360 minute winter	9	192	0.065	6.6	0.0734	0.0000	OK	
360 minute winter	1.005:50%	192	0.066	6.9	0.0000	0.0000	OK	
360 minute winter	10	8	0.000	0.0	0.0000	0.0000	OK	
360 minute winter	4.000:50%	192	0.016	1.0	0.0000	0.0000	OK	
360 minute winter	11	192	0.018	1.0	0.0209	0.0000	OK	
360 minute winter	4.001:50%	192	0.021	1.3	0.0000	0.0000	OK	
360 minute winter	12	192	0.035	1.3	0.0397	0.0000	OK	
360 minute winter	4.002:50%	192	0.047	2.2	0.0000	0.0000	OK	
360 minute winter	13	208	0.122	9.1	0.1753	0.0000	OK	
360 minute winter	1.006:50%	208	0.128	10.4	0.0000	0.0000	OK	
360 minute winter	14	216	0.134	10.3	20.3986	0.0000	OK	
360 minute winter	14_OUT	8	0.000	9.0	0.0000	0.0000	OK	
360 minute winter	5	192	0.055	3.2	0.0619	0.0000	OK	
360 minute winter	2	192	0.015	0.0	0.0174	0.0000	OK	
360 minute winter	1.001:50%	192	0.038	1.5	0.0258	0.0000	OK	
360 minute winter	1	8	0.000	0.0	0.0000	0.0000	OK	
Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
360 minute winter	6	3.000	3.000:50%	0.0	0.000	0.000	0.0094	
360 minute winter	6	3.000	7	1.7	1.022	0.049	0.0187	
360 minute winter	7	3.001	3.001:50%	1.7	0.362	0.117	0.0477	
360 minute winter	7	3.001	8	2.3	0.483	0.158	0.0483	
360 minute winter	4	2.000	2.000:50%	0.0	0.000	0.000	0.0118	
360 minute winter	4	2.000	5	1.0	0.405	0.094	0.0219	
360 minute winter	8	1.004	1.004:50%	5.5	0.965	0.080	0.0874	
360 minute winter	8	1.004	9	6.6	1.089	0.096	0.0929	
360 minute winter	9	1.005	1.005:50%	6.6	0.651	0.139	0.0962	
360 minute winter	9	1.005	13	6.9	0.689	0.145	0.0950	
360 minute winter	10	4.000	4.000:50%	0.0	0.000	0.000	0.0057	
360 minute winter	10	4.000	11	1.0	0.916	0.022	0.0131	
360 minute winter	11	4.001	4.001:50%	1.0	0.735	0.032	0.0217	
360 minute winter	11	4.001	12	1.3	0.874	0.041	0.0236	
360 minute winter	12	4.002	4.002:50%	1.3	0.306	0.089	0.0452	
360 minute winter	12	4.002	13	2.2	0.475	0.151	0.0491	
360 minute winter	13	1.006	1.006:50%	9.1	0.328	0.120	0.2555	
360 minute winter	13	1.006	14	10.3	0.616	0.136	0.2714	
360 minute winter	14	Hydro-Brake®	14_OUT	9.0				
360 minute winter	5	1.003	8	3.2	0.505	0.133	0.0405	
360 minute winter	2	1.001	1.001:50%	0.0	0.010	0.001	0.0140	
360 minute winter	2	1.001	3	1.5	0.455	0.140	0.0205	
360 minute winter	1	1.000	2	0.0	0.000	0.000	0.0034	

**Results for 2 year 360 minute winter. 600 minute analysis at 8 minute timestep. Mass balance: 100.00%**

Node Event	US Node	Peak (mins)	Depth (m)	Inflow (l/s)	Node Vol (m ³)	Flood (m ³)	Status
360 minute winter	3	192	0.038	1.5	0.0429	0.0000	OK
360 minute winter	1.002:50%	192	0.047	2.2	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
360 minute winter	3	1.002	1.002:50%	1.5	0.336	0.104	0.0489	
360 minute winter	3	1.002	5	2.2	0.475	0.152	0.0507	

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

Node Event	US Node	Peak (mins)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	6	1	0.000	0.0	0.0000	0.0000	OK
15 minute summer	3.000:50%	13	0.065	13.5	0.0050	0.0000	OK
15 minute summer	7	13	0.153	13.5	0.1730	0.0000	OK
15 minute summer	3.001:50%	13	0.157	18.2	0.0000	0.0000	OK
15 minute summer	4	14	0.066	0.6	0.0742	0.0000	OK
15 minute summer	2.000:50%	14	0.097	8.3	0.3317	0.0000	OK
15 minute summer	8	14	0.136	43.3	0.1539	0.0000	OK
15 minute summer	1.004:50%	13	0.159	52.4	0.0502	0.0000	OK
15 minute summer	9	14	0.251	52.4	0.2842	0.0000	SURCHARGED
15 minute summer	1.005:50%	14	0.230	54.9	0.0000	0.0000	OK
15 minute summer	10	1	0.000	0.0	0.0000	0.0000	OK
15 minute summer	4.000:50%	12	0.042	7.8	0.0000	0.0000	OK
15 minute summer	11	13	0.051	7.8	0.0577	0.0000	OK
15 minute summer	4.001:50%	13	0.059	10.2	0.0000	0.0000	OK
15 minute summer	12	13	0.134	10.2	0.1510	0.0000	OK
15 minute summer	4.002:50%	13	0.150	17.1	0.0000	0.0000	OK
15 minute summer	13	8	0.320	71.9	0.4582	0.0000	OK
15 minute summer	1.006:50%	8	0.325	86.3	0.0000	0.0000	OK
15 minute summer	14	22	0.288	85.1	43.8645	0.0000	OK
15 minute summer	14_OUT	1	0.000	14.7	0.0000	0.0000	OK
15 minute summer	5	14	0.170	25.2	0.1926	0.0000	OK
15 minute summer	2	14	0.109	0.8	0.1234	0.0000	OK
15 minute summer	1.001:50%	14	0.132	12.0	0.3056	0.0000	OK
15 minute summer	1	1	0.000	0.0	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	6	3.000	3.000:50%	0.0	0.000	0.000	0.0409	
15 minute summer	6	3.000	7	13.5	1.305	0.385	0.1310	
15 minute summer	7	3.001	3.001:50%	13.5	0.599	0.928	0.2282	
15 minute summer	7	3.001	8	18.2	0.890	1.250	0.2044	
15 minute summer	4	2.000	2.000:50%	-0.6	-0.135	-0.056	0.0864	
15 minute summer	4	2.000	5	8.2	0.739	0.768	0.0981	
15 minute summer	8	1.004	1.004:50%	43.3	1.581	0.633	0.4214	
15 minute summer	8	1.004	9	52.4	1.478	0.766	0.5338	
15 minute summer	9	1.005	1.005:50%	52.4	1.084	1.103	0.4551	
15 minute summer	9	1.005	13	54.8	1.247	1.154	0.4136	
15 minute summer	10	4.000	4.000:50%	0.0	0.000	0.000	0.0243	
15 minute summer	10	4.000	11	7.8	1.675	0.173	0.0560	
15 minute summer	11	4.001	4.001:50%	7.8	1.341	0.249	0.0928	
15 minute summer	11	4.001	12	10.2	1.272	0.325	0.1593	
15 minute summer	12	4.002	4.002:50%	10.2	0.492	0.699	0.2203	
15 minute summer	12	4.002	13	17.0	0.869	1.171	0.2060	
15 minute summer	13	1.006	1.006:50%	76.0	0.925	1.003	0.8256	
15 minute summer	13	1.006	14	85.1	2.057	1.122	0.7234	
15 minute summer	14	Hydro-Brake®	14_OUT	14.7				54.2
15 minute summer	5	1.003	8	25.2	0.880	1.044	0.1829	
15 minute summer	2	1.001	1.001:50%	0.9	-0.127	0.082	0.0937	
15 minute summer	2	1.001	3	11.8	0.794	1.102	0.0967	
15 minute summer	1	1.000	2	0.0	0.000	0.000	0.0494	

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

Node Event	US Node	Peak (mins)	Depth (m)	Inflow (l/s)	Node Vol (m ³)	Flood (m ³)	Status
15 minute summer	3	14	0.142	11.8	0.1603	0.0000	OK
15 minute summer	1.002:50%	14	0.152	17.0	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
15 minute summer	3	1.002	1.002:50%	11.8	0.558	0.818	0.2351	
15 minute summer	3	1.002	5	17.0	0.851	1.176	0.2173	

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

Node Event	US Node	Peak (mins)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	
15 minute winter	6	1	0.000	0.0	0.0000	0.0000	OK	
15 minute winter	3.000:50%	13	0.069	15.1	0.0057	0.0000	OK	
15 minute winter	7	14	0.183	15.1	0.2067	0.0000	SURCHARGED	
15 minute winter	3.001:50%	14	0.176	20.3	0.0000	0.0000	SURCHARGED	
15 minute winter	4	14	0.073	0.5	0.0824	0.0000	OK	
15 minute winter	2.000:50%	14	0.105	9.3	0.3840	0.0000	OK	
15 minute winter	8	14	0.148	48.2	0.1677	0.0000	OK	
15 minute winter	1.004:50%	14	0.186	58.4	0.0691	0.0000	OK	
15 minute winter	9	15	0.303	58.1	0.3429	0.0000	SURCHARGED	
15 minute winter	1.005:50%	15	0.260	60.8	0.0000	0.0000	SURCHARGED	
15 minute winter	10	1	0.000	0.0	0.0000	0.0000	OK	
15 minute winter	4.000:50%	13	0.045	8.8	0.0000	0.0000	OK	
15 minute winter	11	13	0.054	8.8	0.0615	0.0000	OK	
15 minute winter	4.001:50%	13	0.063	11.5	0.0000	0.0000	OK	
15 minute winter	12	14	0.152	11.5	0.1717	0.0000	OK	
15 minute winter	4.002:50%	14	0.166	19.1	0.0000	0.0000	OK	
15 minute winter	13	8	0.350	79.8	0.5007	0.0000	OK	
15 minute winter	1.006:50%	8	0.348	96.3	0.0000	0.0000	OK	
15 minute winter	14	22	0.325	97.8	49.6346	0.0000	OK	
15 minute winter	14_OUT	1	0.000	15.2	0.0000	0.0000	OK	
15 minute winter	5	14	0.185	27.9	0.2091	0.0000	OK	
15 minute winter	2	15	0.130	0.6	0.1474	0.0000	OK	
15 minute winter	1.001:50%	15	0.153	13.5	0.4109	0.0000	SURCHARGED	
15 minute winter	1	1	0.000	0.0	0.0000	0.0000	OK	
Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute winter	6	3.000	3.000:50%	0.0	0.000	0.000	0.0444	
15 minute winter	6	3.000	7	15.1	1.298	0.431	0.1435	
15 minute winter	7	3.001	3.001:50%	15.1	0.625	1.037	0.2442	
15 minute winter	7	3.001	8	20.3	0.917	1.397	0.2170	
15 minute winter	4	2.000	2.000:50%	-0.5	-0.128	-0.045	0.0958	
15 minute winter	4	2.000	5	9.2	0.765	0.859	0.1060	
15 minute winter	8	1.004	1.004:50%	48.1	1.608	0.703	0.4819	
15 minute winter	8	1.004	9	58.1	1.486	0.849	0.5740	
15 minute winter	9	1.005	1.005:50%	58.1	1.188	1.223	0.4635	
15 minute winter	9	1.005	13	60.9	1.290	1.281	0.4312	
15 minute winter	10	4.000	4.000:50%	0.0	0.000	0.000	0.0265	
15 minute winter	10	4.000	11	8.8	1.731	0.195	0.0610	
15 minute winter	11	4.001	4.001:50%	8.8	1.382	0.281	0.1013	
15 minute winter	11	4.001	12	11.5	1.228	0.367	0.1815	
15 minute winter	12	4.002	4.002:50%	11.4	0.499	0.785	0.2425	
15 minute winter	12	4.002	13	19.1	0.900	1.315	0.2211	
15 minute winter	13	1.006	1.006:50%	84.6	0.988	1.117	0.8837	
15 minute winter	13	1.006	14	97.8	2.056	1.291	0.8219	
15 minute winter	14	Hydro-Brake®	14_OUT	15.2				61.0
15 minute winter	5	1.003	8	27.9	0.901	1.157	0.1999	
15 minute winter	2	1.001	1.001:50%	0.9	-0.143	0.081	0.1051	
15 minute winter	2	1.001	3	13.0	0.789	1.214	0.1072	
15 minute winter	1	1.000	2	0.0	0.000	0.000	0.0585	

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

Node Event	US Node	Peak (mins)	Depth (m)	Inflow (l/s)	Node Vol (m ³)	Flood (m ³)	Status
15 minute winter	3	15	0.163	13.0	0.1840	0.0000	OK
15 minute winter	1.002:50%	14	0.170	18.8	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
15 minute winter	3	1.002	1.002:50%	13.1	0.571	0.906	0.2579	
15 minute winter	3	1.002	5	18.8	0.860	1.300	0.2393	

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

Node Event	US Node	Peak (mins)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
30 minute summer	6	1	0.000	0.0	0.0000	0.0000	OK
30 minute summer	3.000:50%	20	0.066	13.9	0.0052	0.0000	OK
30 minute summer	7	21	0.157	13.9	0.1775	0.0000	OK
30 minute summer	3.001:50%	21	0.160	18.6	0.0000	0.0000	OK
30 minute summer	4	21	0.067	0.3	0.0760	0.0000	OK
30 minute summer	2.000:50%	21	0.099	8.6	0.3435	0.0000	OK
30 minute summer	8	21	0.138	44.2	0.1560	0.0000	OK
30 minute summer	1.004:50%	21	0.160	53.5	0.0513	0.0000	OK
30 minute summer	9	22	0.260	53.5	0.2940	0.0000	SURCHARGED
30 minute summer	1.005:50%	22	0.235	56.0	0.0000	0.0000	OK
30 minute summer	10	1	0.000	0.0	0.0000	0.0000	OK
30 minute summer	4.000:50%	20	0.043	8.1	0.0000	0.0000	OK
30 minute summer	11	20	0.052	8.1	0.0587	0.0000	OK
30 minute summer	4.001:50%	20	0.060	10.5	0.0000	0.0000	OK
30 minute summer	12	21	0.137	10.5	0.1549	0.0000	OK
30 minute summer	4.002:50%	21	0.152	17.4	0.0000	0.0000	OK
30 minute summer	13	32	0.335	73.3	0.4791	0.0000	OK
30 minute summer	1.006:50%	33	0.343	83.8	0.0000	0.0000	OK
30 minute summer	14	33	0.350	89.5	53.4657	0.0000	OK
30 minute summer	14_OUT	1	0.000	15.4	0.0000	0.0000	OK
30 minute summer	5	21	0.173	25.7	0.1953	0.0000	OK
30 minute summer	2	22	0.112	0.5	0.1265	0.0000	OK
30 minute summer	1.001:50%	22	0.135	12.4	0.3176	0.0000	OK
30 minute summer	1	1	0.000	0.0	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
30 minute summer	6	3.000	3.000:50%	0.0	0.000	0.000	0.0417	
30 minute summer	6	3.000	7	13.9	1.232	0.396	0.1338	
30 minute summer	7	3.001	3.001:50%	13.8	0.603	0.948	0.2322	
30 minute summer	7	3.001	8	18.6	0.897	1.280	0.2073	
30 minute summer	4	2.000	2.000:50%	-0.3	-0.060	-0.027	0.0885	
30 minute summer	4	2.000	5	8.4	0.745	0.789	0.1000	
30 minute summer	8	1.004	1.004:50%	44.1	1.587	0.645	0.4275	
30 minute summer	8	1.004	9	53.5	1.478	0.782	0.5367	
30 minute summer	9	1.005	1.005:50%	53.5	1.095	1.125	0.4582	
30 minute summer	9	1.005	13	56.0	1.256	1.179	0.4186	
30 minute summer	10	4.000	4.000:50%	0.0	0.000	0.000	0.0250	
30 minute summer	10	4.000	11	8.1	1.692	0.179	0.0574	
30 minute summer	11	4.001	4.001:50%	8.1	1.354	0.257	0.0948	
30 minute summer	11	4.001	12	10.5	1.208	0.333	0.1638	
30 minute summer	12	4.002	4.002:50%	10.4	0.492	0.718	0.2249	
30 minute summer	12	4.002	13	17.5	0.876	1.200	0.2092	
30 minute summer	13	1.006	1.006:50%	73.1	0.890	0.965	0.8620	
30 minute summer	13	1.006	14	89.5	1.618	1.181	0.8786	
30 minute summer	14	Hydro-Brake®	14_OUT	15.4				71.2
30 minute summer	5	1.003	8	25.7	0.883	1.067	0.1857	
30 minute summer	2	1.001	1.001:50%	0.6	-0.083	0.054	0.0955	
30 minute summer	2	1.001	3	12.0	0.784	1.118	0.0986	
30 minute summer	1	1.000	2	0.0	0.000	0.000	0.0507	

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

Node Event	US Node	Peak (mins)	Depth (m)	Inflow (l/s)	Node Vol (m ³)	Flood (m ³)	Status
30 minute summer	3	22	0.145	12.0	0.1637	0.0000	OK
30 minute summer	1.002:50%	21	0.154	17.3	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
30 minute summer	3	1.002	1.002:50%	12.0	0.558	0.832	0.2390	
30 minute summer	3	1.002	5	17.3	0.855	1.196	0.2212	

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

Node Event	US Node	Peak (mins)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
30 minute winter	6	1	0.000	0.0	0.0000	0.0000	OK
30 minute winter	3.000:50%	20	0.067	14.6	0.0055	0.0000	OK
30 minute winter	7	21	0.167	14.6	0.1885	0.0000	OK
30 minute winter	3.001:50%	21	0.167	19.5	0.0000	0.0000	OK
30 minute winter	4	21	0.070	0.2	0.0793	0.0000	OK
30 minute winter	2.000:50%	21	0.102	9.0	0.3639	0.0000	OK
30 minute winter	8	21	0.142	46.1	0.1610	0.0000	OK
30 minute winter	1.004:50%	22	0.166	55.8	0.0551	0.0000	OK
30 minute winter	9	22	0.282	55.6	0.3191	0.0000	SURCHARGED
30 minute winter	1.005:50%	22	0.248	58.2	0.0000	0.0000	OK
30 minute winter	10	1	0.000	0.0	0.0000	0.0000	OK
30 minute winter	4.000:50%	20	0.044	8.5	0.0000	0.0000	OK
30 minute winter	11	20	0.053	8.5	0.0603	0.0000	OK
30 minute winter	4.001:50%	20	0.061	11.1	0.0000	0.0000	OK
30 minute winter	12	21	0.144	11.0	0.1634	0.0000	OK
30 minute winter	4.002:50%	21	0.159	18.3	0.0000	0.0000	OK
30 minute winter	13	33	0.381	76.3	0.5459	0.0000	OK
30 minute winter	1.006:50%	33	0.389	86.8	0.0000	0.0000	OK
30 minute winter	14	33	0.397	91.8	60.5626	0.0000	OK
30 minute winter	14_OUT	1	0.000	15.8	0.0000	0.0000	OK
30 minute winter	5	21	0.178	26.7	0.2014	0.0000	OK
30 minute winter	2	22	0.119	0.3	0.1350	0.0000	OK
30 minute winter	1.001:50%	22	0.142	13.0	0.3542	0.0000	OK
30 minute winter	1	1	0.000	0.0	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
30 minute winter	6	3.000	3.000:50%	0.0	0.000	0.000	0.0432	
30 minute winter	6	3.000	7	14.6	1.250	0.416	0.1397	
30 minute winter	7	3.001	3.001:50%	14.4	0.609	0.992	0.2400	
30 minute winter	7	3.001	8	19.5	0.909	1.340	0.2129	
30 minute winter	4	2.000	2.000:50%	0.2	-0.066	0.020	0.0923	
30 minute winter	4	2.000	5	8.8	0.755	0.824	0.1031	
30 minute winter	8	1.004	1.004:50%	46.0	1.607	0.673	0.4436	
30 minute winter	8	1.004	9	55.6	1.475	0.813	0.5458	
30 minute winter	9	1.005	1.005:50%	55.6	1.138	1.171	0.4632	
30 minute winter	9	1.005	13	58.3	1.268	1.227	0.4272	
30 minute winter	10	4.000	4.000:50%	0.0	0.000	0.000	0.0259	
30 minute winter	10	4.000	11	8.5	1.715	0.188	0.0594	
30 minute winter	11	4.001	4.001:50%	8.5	1.369	0.270	0.0984	
30 minute winter	11	4.001	12	11.0	1.193	0.352	0.1731	
30 minute winter	12	4.002	4.002:50%	11.0	0.496	0.756	0.2343	
30 minute winter	12	4.002	13	18.3	0.889	1.260	0.2179	
30 minute winter	13	1.006	1.006:50%	75.7	0.992	0.999	0.9429	
30 minute winter	13	1.006	14	91.8	1.775	1.211	0.9502	
30 minute winter	14	Hydro-Brake®	14_OUT	15.8				80.1
30 minute winter	5	1.003	8	26.8	0.891	1.111	0.1920	
30 minute winter	2	1.001	1.001:50%	0.5	-0.094	0.044	0.1003	
30 minute winter	2	1.001	3	12.5	0.786	1.163	0.1031	
30 minute winter	1	1.000	2	0.0	0.000	0.000	0.0541	

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

Node Event	US Node	Peak (mins)	Depth (m)	Inflow (l/s)	Node Vol (m ³)	Flood (m ³)	Status
30 minute winter	3	22	0.152	12.5	0.1722	0.0000	OK
30 minute winter	1.002:50%	22	0.161	18.0	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
30 minute winter	3	1.002	1.002:50%	12.5	0.559	0.865	0.2481	
30 minute winter	3	1.002	5	17.9	0.856	1.244	0.2297	

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

Node Event	US Node	Peak (mins)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute summer	6	1	0.000	0.0	0.0000	0.0000	OK
60 minute summer	3.000:50%	35	0.061	12.0	0.0044	0.0000	OK
60 minute summer	7	36	0.136	12.0	0.1540	0.0000	OK
60 minute summer	3.001:50%	36	0.142	16.1	0.0000	0.0000	OK
60 minute summer	4	36	0.058	0.2	0.0661	0.0000	OK
60 minute summer	2.000:50%	36	0.090	7.4	0.2857	0.0000	OK
60 minute summer	8	36	0.125	38.5	0.1419	0.0000	OK
60 minute summer	1.004:50%	36	0.143	46.6	0.0409	0.0000	OK
60 minute summer	9	37	0.219	46.6	0.2473	0.0000	OK
60 minute summer	1.005:50%	37	0.208	48.7	0.0000	0.0000	OK
60 minute summer	10	1	0.000	0.0	0.0000	0.0000	OK
60 minute summer	4.000:50%	35	0.040	7.0	0.0000	0.0000	OK
60 minute summer	11	35	0.048	7.0	0.0544	0.0000	OK
60 minute summer	4.001:50%	35	0.055	9.1	0.0000	0.0000	OK
60 minute summer	12	36	0.120	9.1	0.1353	0.0000	OK
60 minute summer	4.002:50%	36	0.137	15.1	0.0000	0.0000	OK
60 minute summer	13	50	0.368	63.7	0.5260	0.0000	OK
60 minute summer	1.006:50%	50	0.375	72.3	0.0000	0.0000	OK
60 minute summer	14	50	0.383	71.3	58.4291	0.0000	OK
60 minute summer	14_OUT	1	0.000	15.7	0.0000	0.0000	OK
60 minute summer	5	36	0.157	22.4	0.1776	0.0000	OK
60 minute summer	2	36	0.094	0.3	0.1062	0.0000	OK
60 minute summer	1.001:50%	36	0.117	10.7	0.2389	0.0000	OK
60 minute summer	1	1	0.000	0.0	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
60 minute summer	6	3.000	3.000:50%	0.0	0.000	0.000	0.0375	
60 minute summer	6	3.000	7	12.0	1.224	0.342	0.1161	
60 minute summer	7	3.001	3.001:50%	11.9	0.583	0.822	0.2080	
60 minute summer	7	3.001	8	16.1	0.859	1.112	0.1896	
60 minute summer	4	2.000	2.000:50%	-0.2	-0.038	-0.017	0.0772	
60 minute summer	4	2.000	5	7.3	0.713	0.681	0.0903	
60 minute summer	8	1.004	1.004:50%	38.5	1.561	0.563	0.3784	
60 minute summer	8	1.004	9	46.6	1.469	0.681	0.4826	
60 minute summer	9	1.005	1.005:50%	46.5	1.047	0.979	0.4209	
60 minute summer	9	1.005	13	48.8	1.197	1.026	0.3850	
60 minute summer	10	4.000	4.000:50%	0.0	0.000	0.000	0.0225	
60 minute summer	10	4.000	11	7.0	1.623	0.155	0.0517	
60 minute summer	11	4.001	4.001:50%	7.0	1.299	0.222	0.0853	
60 minute summer	11	4.001	12	9.1	1.182	0.289	0.1396	
60 minute summer	12	4.002	4.002:50%	9.0	0.480	0.622	0.1996	
60 minute summer	12	4.002	13	15.1	0.838	1.040	0.1972	
60 minute summer	13	1.006	1.006:50%	63.2	0.824	0.833	0.9242	
60 minute summer	13	1.006	14	71.3	1.168	0.941	0.9353	
60 minute summer	14	Hydro-Brake®	14_OUT	15.7				89.8
60 minute summer	5	1.003	8	22.4	0.857	0.929	0.1670	
60 minute summer	2	1.001	1.001:50%	0.3	-0.063	0.028	0.0818	
60 minute summer	2	1.001	3	10.5	0.782	0.983	0.0850	
60 minute summer	1	1.000	2	0.0	0.000	0.000	0.0418	

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

Node Event	US Node	Peak (mins)	Depth (m)	Inflow (l/s)	Node Vol (m ³)	Flood (m ³)	Status
60 minute summer	3	36	0.126	10.5	0.1427	0.0000	OK
60 minute summer	1.002:50%	36	0.137	15.2	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
60 minute summer	3	1.002	1.002:50%	10.5	0.544	0.729	0.2120	
60 minute summer	3	1.002	5	15.1	0.837	1.049	0.1970	

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

Node Event	US Node	Peak (mins)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute winter	6	1	0.000	0.0	0.0000	0.0000	OK
60 minute winter	3.000:50%	35	0.057	10.8	0.0039	0.0000	OK
60 minute winter	7	36	0.125	10.8	0.1410	0.0000	OK
60 minute winter	3.001:50%	36	0.132	14.5	0.0000	0.0000	OK
60 minute winter	4	36	0.053	0.1	0.0603	0.0000	OK
60 minute winter	2.000:50%	36	0.085	6.7	0.2544	0.0000	OK
60 minute winter	8	36	0.118	34.9	0.1331	0.0000	OK
60 minute winter	1.004:50%	36	0.133	42.3	0.0351	0.0000	OK
60 minute winter	9	36	0.200	42.3	0.2266	0.0000	OK
60 minute winter	1.005:50%	37	0.193	44.2	0.0000	0.0000	OK
60 minute winter	10	1	0.000	0.0	0.0000	0.0000	OK
60 minute winter	4.000:50%	35	0.038	6.3	0.0000	0.0000	OK
60 minute winter	11	36	0.046	6.3	0.0516	0.0000	OK
60 minute winter	4.001:50%	36	0.052	8.2	0.0000	0.0000	OK
60 minute winter	12	53	0.129	8.2	0.1459	0.0000	OK
60 minute winter	4.002:50%	53	0.161	13.7	0.0000	0.0000	OK
60 minute winter	13	54	0.416	57.9	0.5956	0.0000	SURCHARGED
60 minute winter	1.006:50%	54	0.424	65.5	0.0000	0.0000	SURCHARGED
60 minute winter	14	54	0.431	64.5	65.8132	0.0000	SURCHARGED
60 minute winter	14_OUT	1	0.000	16.1	0.0000	0.0000	OK
60 minute winter	5	36	0.147	20.4	0.1666	0.0000	OK
60 minute winter	2	36	0.084	0.2	0.0954	0.0000	OK
60 minute winter	1.001:50%	36	0.107	9.7	0.2017	0.0000	OK
60 minute winter	1	1	0.000	0.0	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
60 minute winter	6	3.000	3.000:50%	0.0	0.000	0.000	0.0347	
60 minute winter	6	3.000	7	10.8	1.222	0.308	0.1046	
60 minute winter	7	3.001	3.001:50%	10.7	0.569	0.740	0.1916	
60 minute winter	7	3.001	8	14.6	0.831	1.002	0.1770	
60 minute winter	4	2.000	2.000:50%	0.1	0.030	0.011	0.0706	
60 minute winter	4	2.000	5	6.6	0.693	0.619	0.0844	
60 minute winter	8	1.004	1.004:50%	34.9	1.542	0.510	0.3475	
60 minute winter	8	1.004	9	42.3	1.461	0.618	0.4410	
60 minute winter	9	1.005	1.005:50%	42.2	1.023	0.889	0.3912	
60 minute winter	9	1.005	13	44.2	1.157	0.931	0.3619	
60 minute winter	10	4.000	4.000:50%	0.0	0.000	0.000	0.0209	
60 minute winter	10	4.000	11	6.3	1.576	0.139	0.0480	
60 minute winter	11	4.001	4.001:50%	6.3	1.262	0.201	0.0794	
60 minute winter	11	4.001	12	8.2	1.174	0.262	0.1251	
60 minute winter	12	4.002	4.002:50%	8.2	0.473	0.563	0.2233	
60 minute winter	12	4.002	13	13.7	0.813	0.941	0.2503	
60 minute winter	13	1.006	1.006:50%	57.2	0.758	0.755	0.9542	
60 minute winter	13	1.006	14	64.5	1.268	0.852	0.9542	
60 minute winter	14	Hydro-Brake®	14_OUT	16.1				100.8
60 minute winter	5	1.003	8	20.4	0.840	0.845	0.1548	
60 minute winter	2	1.001	1.001:50%	0.2	-0.065	0.015	0.0736	
60 minute winter	2	1.001	3	9.6	0.776	0.896	0.0770	
60 minute winter	1	1.000	2	0.0	0.000	0.000	0.0367	

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

Node Event	US Node	Peak (mins)	Depth (m)	Inflow (l/s)	Node Vol (m ³)	Flood (m ³)	Status
60 minute winter	3	36	0.117	9.6	0.1321	0.0000	OK
60 minute winter	1.002:50%	36	0.128	13.8	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
60 minute winter	3	1.002	1.002:50%	9.6	0.534	0.665	0.1964	
60 minute winter	3	1.002	5	13.8	0.813	0.954	0.1847	

**Results for 30 year 120 minute summer. 360 minute analysis at 2 minute timestep. Mass balance: 99.97%**

Node Event	US Node	Peak (mins)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
120 minute summer	6	2	0.000	0.0	0.0000	0.0000	OK
120 minute summer	3.000:50%	66	0.051	8.6	0.0031	0.0000	OK
120 minute summer	7	66	0.106	8.6	0.1195	0.0000	OK
120 minute summer	3.001:50%	66	0.114	11.6	0.0000	0.0000	OK
120 minute summer	4	66	0.043	0.1	0.0484	0.0000	OK
120 minute summer	2.000:50%	66	0.075	5.3	0.1954	0.0000	OK
120 minute summer	8	66	0.103	27.9	0.1160	0.0000	OK
120 minute summer	1.004:50%	66	0.114	33.8	0.0258	0.0000	OK
120 minute summer	9	66	0.169	33.8	0.1911	0.0000	OK
120 minute summer	1.005:50%	66	0.166	35.4	0.0000	0.0000	OK
120 minute summer	10	2	0.000	0.0	0.0000	0.0000	OK
120 minute summer	4.000:50%	66	0.034	5.0	0.0000	0.0000	OK
120 minute summer	11	66	0.041	5.0	0.0459	0.0000	OK
120 minute summer	4.001:50%	66	0.046	6.5	0.0000	0.0000	OK
120 minute summer	12	66	0.092	6.5	0.1039	0.0000	OK
120 minute summer	4.002:50%	84	0.111	10.9	0.0000	0.0000	OK
120 minute summer	13	84	0.366	46.2	0.5241	0.0000	OK
120 minute summer	1.006:50%	84	0.374	52.4	0.0000	0.0000	OK
120 minute summer	14	84	0.382	51.6	58.2236	0.0000	OK
120 minute summer	14_OUT	2	0.000	15.7	0.0000	0.0000	OK
120 minute summer	5	66	0.128	16.3	0.1450	0.0000	OK
120 minute summer	2	66	0.070	0.1	0.0791	0.0000	OK
120 minute summer	1.001:50%	66	0.093	7.7	0.1509	0.0000	OK
120 minute summer	1	2	0.000	0.0	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
120 minute summer	6	3.000	3.000:50%	0.0	0.000	0.000	0.0294	
120 minute summer	6	3.000	7	8.6	1.215	0.245	0.0838	
120 minute summer	7	3.001	3.001:50%	8.6	0.542	0.592	0.1609	
120 minute summer	7	3.001	8	11.6	0.775	0.799	0.1517	
120 minute summer	4	2.000	2.000:50%	0.1	-0.027	0.007	0.0572	
120 minute summer	4	2.000	5	5.3	0.648	0.494	0.0720	
120 minute summer	8	1.004	1.004:50%	27.9	1.480	0.408	0.2891	
120 minute summer	8	1.004	9	33.8	1.439	0.494	0.3596	
120 minute summer	9	1.005	1.005:50%	33.8	0.970	0.711	0.3301	
120 minute summer	9	1.005	13	35.3	1.073	0.744	0.3120	
120 minute summer	10	4.000	4.000:50%	0.0	0.000	0.000	0.0177	
120 minute summer	10	4.000	11	5.0	1.475	0.111	0.0407	
120 minute summer	11	4.001	4.001:50%	5.0	1.183	0.159	0.0672	
120 minute summer	11	4.001	12	6.5	1.160	0.207	0.0970	
120 minute summer	12	4.002	4.002:50%	6.5	0.453	0.447	0.1521	
120 minute summer	12	4.002	13	10.9	0.757	0.749	0.1950	
120 minute summer	13	1.006	1.006:50%	45.7	0.604	0.603	0.9220	
120 minute summer	13	1.006	14	51.6	0.973	0.681	0.9335	
120 minute summer	14	Hydro-Brake®	14_OUT	15.7				110.0
120 minute summer	5	1.003	8	16.3	0.797	0.678	0.1307	
120 minute summer	2	1.001	1.001:50%	0.1	-0.041	0.012	0.0605	
120 minute summer	2	1.001	3	7.7	0.729	0.717	0.0655	
120 minute summer	1	1.000	2	0.0	0.000	0.000	0.0289	

**Results for 30 year 120 minute summer. 360 minute analysis at 2 minute timestep. Mass balance: 99.97%**

Node Event	US Node	Peak (mins)	Depth (m)	Inflow (l/s)	Node Vol (m ³)	Flood (m ³)	Status
120 minute summer	3	66	0.099	7.7	0.1123	0.0000	OK
120 minute summer	1.002:50%	66	0.111	11.1	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
120 minute summer	3	1.002	1.002:50%	7.7	0.508	0.532	0.1651	
120 minute summer	3	1.002	5	11.1	0.760	0.767	0.1591	

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

Node Event	US Node	Peak (mins)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	
120 minute winter	6	2	0.000	0.0	0.0000	0.0000	OK	
120 minute winter	3.000:50%	66	0.045	7.0	0.0025	0.0000	OK	
120 minute winter	7	66	0.092	7.0	0.1039	0.0000	OK	
120 minute winter	3.001:50%	66	0.100	9.4	0.0000	0.0000	OK	
120 minute winter	4	66	0.035	0.0	0.0391	0.0000	OK	
120 minute winter	2.000:50%	66	0.067	4.3	0.1551	0.0000	OK	
120 minute winter	8	66	0.091	22.6	0.1025	0.0000	OK	
120 minute winter	1.004:50%	66	0.100	27.4	0.0200	0.0000	OK	
120 minute winter	9	66	0.147	27.4	0.1657	0.0000	OK	
120 minute winter	1.005:50%	66	0.145	28.7	0.0000	0.0000	OK	
120 minute winter	10	2	0.000	0.0	0.0000	0.0000	OK	
120 minute winter	4.000:50%	66	0.031	4.1	0.0000	0.0000	OK	
120 minute winter	11	66	0.037	4.1	0.0415	0.0000	OK	
120 minute winter	4.001:50%	66	0.042	5.3	0.0000	0.0000	OK	
120 minute winter	12	90	0.113	5.3	0.1273	0.0000	OK	
120 minute winter	4.002:50%	90	0.144	8.9	0.0000	0.0000	OK	
120 minute winter	13	90	0.400	37.5	0.5723	0.0000	OK	
120 minute winter	1.006:50%	92	0.408	42.5	0.0000	0.0000	SURCHARGED	
120 minute winter	14	90	0.415	41.9	63.3181	0.0000	SURCHARGED	
120 minute winter	14_OUT	2	0.000	16.0	0.0000	0.0000	OK	
120 minute winter	5	66	0.113	13.2	0.1281	0.0000	OK	
120 minute winter	2	66	0.059	0.1	0.0664	0.0000	OK	
120 minute winter	1.001:50%	66	0.082	6.2	0.1169	0.0000	OK	
120 minute winter	1	2	0.000	0.0	0.0000	0.0000	OK	
Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
120 minute winter	6	3.000	3.000:50%	0.0	0.000	0.000	0.0254	
120 minute winter	6	3.000	7	7.0	1.212	0.200	0.0681	
120 minute winter	7	3.001	3.001:50%	7.0	0.518	0.482	0.1371	
120 minute winter	7	3.001	8	9.4	0.726	0.647	0.1313	
120 minute winter	4	2.000	2.000:50%	0.0	-0.022	-0.004	0.0470	
120 minute winter	4	2.000	5	4.3	0.611	0.402	0.0622	
120 minute winter	8	1.004	1.004:50%	22.6	1.412	0.330	0.2452	
120 minute winter	8	1.004	9	27.4	1.408	0.400	0.2981	
120 minute winter	9	1.005	1.005:50%	27.4	0.923	0.576	0.2812	
120 minute winter	9	1.005	13	28.7	1.005	0.603	0.2701	
120 minute winter	10	4.000	4.000:50%	0.0	0.000	0.000	0.0154	
120 minute winter	10	4.000	11	4.1	1.393	0.091	0.0354	
120 minute winter	11	4.001	4.001:50%	4.1	1.120	0.131	0.0582	
120 minute winter	11	4.001	12	5.3	1.155	0.169	0.1010	
120 minute winter	12	4.002	4.002:50%	5.3	0.435	0.364	0.1988	
120 minute winter	12	4.002	13	8.9	0.712	0.612	0.2399	
120 minute winter	13	1.006	1.006:50%	37.1	0.537	0.490	0.9538	
120 minute winter	13	1.006	14	41.9	1.071	0.552	0.9542	
120 minute winter	14	Hydro-Brake®	14_OUT	16.0				123.3
120 minute winter	5	1.003	8	13.2	0.755	0.547	0.1115	
120 minute winter	2	1.001	1.001:50%	-0.1	-0.047	-0.006	0.0503	
120 minute winter	2	1.001	3	6.2	0.682	0.578	0.0564	
120 minute winter	1	1.000	2	0.0	0.000	0.000	0.0230	

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

Node Event	US Node	Peak (mins)	Depth (m)	Inflow (l/s)	Node Vol (m ³)	Flood (m ³)	Status
120 minute winter	3	66	0.086	6.2	0.0969	0.0000	OK
120 minute winter	1.002:50%	66	0.098	8.9	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
120 minute winter	3	1.002	1.002:50%	6.2	0.486	0.429	0.1393	
120 minute winter	3	1.002	5	8.9	0.712	0.616	0.1366	

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

Node Event	US Node	Peak (mins)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
180 minute summer	6	4	0.000	0.0	0.0000	0.0000	OK
180 minute summer	3.000:50%	96	0.044	6.6	0.0023	0.0000	OK
180 minute summer	7	96	0.088	6.6	0.0997	0.0000	OK
180 minute summer	3.001:50%	96	0.097	8.9	0.0000	0.0000	OK
180 minute summer	4	96	0.032	0.0	0.0367	0.0000	OK
180 minute summer	2.000:50%	96	0.064	4.1	0.1451	0.0000	OK
180 minute summer	8	96	0.087	21.2	0.0989	0.0000	OK
180 minute summer	1.004:50%	96	0.096	25.7	0.0185	0.0000	OK
180 minute summer	9	96	0.140	25.6	0.1587	0.0000	OK
180 minute summer	1.005:50%	96	0.140	26.8	0.0000	0.0000	OK
180 minute summer	10	4	0.000	0.0	0.0000	0.0000	OK
180 minute summer	4.000:50%	96	0.030	3.9	0.0000	0.0000	OK
180 minute summer	11	96	0.036	3.9	0.0403	0.0000	OK
180 minute summer	4.001:50%	96	0.041	5.1	0.0000	0.0000	OK
180 minute summer	12	96	0.076	5.1	0.0864	0.0000	OK
180 minute summer	4.002:50%	96	0.094	8.4	0.0000	0.0000	OK
180 minute summer	13	120	0.341	35.0	0.4886	0.0000	OK
180 minute summer	1.006:50%	120	0.349	39.7	0.0000	0.0000	OK
180 minute summer	14	120	0.357	39.1	54.4416	0.0000	OK
180 minute summer	14_OUT	4	0.000	15.5	0.0000	0.0000	OK
180 minute summer	5	96	0.109	12.4	0.1237	0.0000	OK
180 minute summer	2	96	0.056	0.1	0.0634	0.0000	OK
180 minute summer	1.001:50%	96	0.079	5.9	0.1092	0.0000	OK
180 minute summer	1	4	0.000	0.0	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
180 minute summer	6	3.000	3.000:50%	0.0	0.000	0.000	0.0243	
180 minute summer	6	3.000	7	6.6	1.207	0.188	0.0640	
180 minute summer	7	3.001	3.001:50%	6.6	0.510	0.452	0.1306	
180 minute summer	7	3.001	8	8.8	0.713	0.608	0.1256	
180 minute summer	4	2.000	2.000:50%	0.0	-0.019	-0.004	0.0444	
180 minute summer	4	2.000	5	4.0	0.601	0.378	0.0596	
180 minute summer	8	1.004	1.004:50%	21.2	1.390	0.310	0.2336	
180 minute summer	8	1.004	9	25.6	1.398	0.375	0.2812	
180 minute summer	9	1.005	1.005:50%	25.6	0.908	0.538	0.2670	
180 minute summer	9	1.005	13	26.7	0.983	0.562	0.2574	
180 minute summer	10	4.000	4.000:50%	0.0	0.000	0.000	0.0149	
180 minute summer	10	4.000	11	3.9	1.373	0.086	0.0340	
180 minute summer	11	4.001	4.001:50%	3.9	1.098	0.123	0.0561	
180 minute summer	11	4.001	12	5.1	1.143	0.161	0.0731	
180 minute summer	12	4.002	4.002:50%	5.0	0.431	0.344	0.1232	
180 minute summer	12	4.002	13	8.3	0.699	0.574	0.1526	
180 minute summer	13	1.006	1.006:50%	34.6	0.499	0.457	0.8761	
180 minute summer	13	1.006	14	39.1	0.837	0.516	0.8916	
180 minute summer	14	Hydro-Brake®	14_OUT	15.5				122.5
180 minute summer	5	1.003	8	12.4	0.743	0.514	0.1065	
180 minute summer	2	1.001	1.001:50%	0.1	-0.021	0.006	0.0478	
180 minute summer	2	1.001	3	5.8	0.670	0.545	0.0541	
180 minute summer	1	1.000	2	0.0	0.000	0.000	0.0216	

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

Node Event	US Node	Peak (mins)	Depth (m)	Inflow (l/s)	Node Vol (m ³)	Flood (m ³)	Status
180 minute summer	3	96	0.082	5.8	0.0931	0.0000	OK
180 minute summer	1.002:50%	96	0.094	8.4	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
180 minute summer	3	1.002	1.002:50%	5.8	0.478	0.403	0.1330	
180 minute summer	3	1.002	5	8.4	0.699	0.580	0.1310	

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

Node Event	US Node	Peak (mins)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	
180 minute winter	6	4	0.000	0.0	0.0000	0.0000	OK	
180 minute winter	3.000:50%	96	0.039	5.2	0.0018	0.0000	OK	
180 minute winter	7	96	0.076	5.2	0.0860	0.0000	OK	
180 minute winter	3.001:50%	96	0.085	7.0	0.0000	0.0000	OK	
180 minute winter	4	100	0.025	0.0	0.0280	0.0000	OK	
180 minute winter	2.000:50%	100	0.057	3.2	0.1127	0.0000	OK	
180 minute winter	8	96	0.077	16.8	0.0870	0.0000	OK	
180 minute winter	1.004:50%	96	0.085	20.4	0.0144	0.0000	OK	
180 minute winter	9	96	0.122	20.4	0.1377	0.0000	OK	
180 minute winter	1.005:50%	96	0.122	21.4	0.0000	0.0000	OK	
180 minute winter	10	4	0.000	0.0	0.0000	0.0000	OK	
180 minute winter	4.000:50%	96	0.026	3.0	0.0000	0.0000	OK	
180 minute winter	11	96	0.031	3.0	0.0355	0.0000	OK	
180 minute winter	4.001:50%	96	0.036	3.9	0.0000	0.0000	OK	
180 minute winter	12	124	0.071	3.9	0.0808	0.0000	OK	
180 minute winter	4.002:50%	128	0.102	6.6	0.0000	0.0000	OK	
180 minute winter	13	128	0.358	28.0	0.5118	0.0000	OK	
180 minute winter	1.006:50%	128	0.365	31.7	0.0000	0.0000	OK	
180 minute winter	14	128	0.373	31.3	56.9044	0.0000	OK	
180 minute winter	14_OUT	4	0.000	15.7	0.0000	0.0000	OK	
180 minute winter	5	96	0.096	9.9	0.1089	0.0000	OK	
180 minute winter	2	96	0.047	0.0	0.0529	0.0000	OK	
180 minute winter	1.001:50%	96	0.070	4.7	0.0851	0.0000	OK	
180 minute winter	1	4	0.000	0.0	0.0000	0.0000	OK	
Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
180 minute winter	6	3.000	3.000:50%	0.0	0.000	0.000	0.0205	
180 minute winter	6	3.000	7	5.2	1.205	0.148	0.0503	
180 minute winter	7	3.001	3.001:50%	5.2	0.482	0.357	0.1092	
180 minute winter	7	3.001	8	7.0	0.665	0.481	0.1065	
180 minute winter	4	2.000	2.000:50%	0.0	0.015	0.002	0.0355	137.7
180 minute winter	4	2.000	5	3.2	0.562	0.300	0.0504	
180 minute winter	8	1.004	1.004:50%	16.8	1.312	0.246	0.1968	
180 minute winter	8	1.004	9	20.4	1.361	0.298	0.2300	
180 minute winter	9	1.005	1.005:50%	20.4	0.863	0.429	0.2241	
180 minute winter	9	1.005	13	21.4	0.932	0.450	0.2174	
180 minute winter	10	4.000	4.000:50%	0.0	0.000	0.000	0.0124	
180 minute winter	10	4.000	11	3.0	1.271	0.066	0.0284	
180 minute winter	11	4.001	4.001:50%	3.0	1.022	0.096	0.0467	
180 minute winter	11	4.001	12	3.9	1.151	0.124	0.0552	
180 minute winter	12	4.002	4.002:50%	3.9	0.410	0.268	0.1258	
180 minute winter	12	4.002	13	6.6	0.652	0.453	0.1808	
180 minute winter	13	1.006	1.006:50%	27.7	0.448	0.365	0.9075	
180 minute winter	13	1.006	14	31.3	0.924	0.412	0.9206	
180 minute winter	14	Hydro-Brake®	14_OUT	15.7				
180 minute winter	5	1.003	8	9.9	0.701	0.409	0.0899	
180 minute winter	2	1.001	1.001:50%	0.0	-0.026	0.003	0.0394	
180 minute winter	2	1.001	3	4.7	0.628	0.437	0.0463	
180 minute winter	1	1.000	2	0.0	0.000	0.000	0.0168	

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

Node Event	US Node	Peak (mins)	Depth (m)	Inflow (l/s)	Node Vol (m ³)	Flood (m ³)	Status
180 minute winter	3	96	0.072	4.7	0.0809	0.0000	OK
180 minute winter	1.002:50%	96	0.083	6.7	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
180 minute winter	3	1.002	1.002:50%	4.7	0.457	0.324	0.1118	
180 minute winter	3	1.002	5	6.7	0.654	0.462	0.1115	

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

Node Event	US Node	Peak (mins)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
240 minute summer	6	4	0.000	0.0	0.0000	0.0000	OK
240 minute summer	3.000:50%	128	0.040	5.5	0.0020	0.0000	OK
240 minute summer	7	128	0.079	5.5	0.0892	0.0000	OK
240 minute summer	3.001:50%	128	0.088	7.4	0.0000	0.0000	OK
240 minute summer	4	128	0.027	0.0	0.0302	0.0000	OK
240 minute summer	2.000:50%	128	0.059	3.4	0.1203	0.0000	OK
240 minute summer	8	128	0.079	17.8	0.0897	0.0000	OK
240 minute summer	1.004:50%	128	0.087	21.5	0.0152	0.0000	OK
240 minute summer	9	128	0.126	21.5	0.1421	0.0000	OK
240 minute summer	1.005:50%	128	0.125	22.5	0.0000	0.0000	OK
240 minute summer	10	4	0.000	0.0	0.0000	0.0000	OK
240 minute summer	4.000:50%	128	0.027	3.2	0.0000	0.0000	OK
240 minute summer	11	128	0.032	3.2	0.0367	0.0000	OK
240 minute summer	4.001:50%	128	0.037	4.2	0.0000	0.0000	OK
240 minute summer	12	128	0.068	4.2	0.0767	0.0000	OK
240 minute summer	4.002:50%	128	0.085	7.0	0.0000	0.0000	OK
240 minute summer	13	152	0.314	29.5	0.4493	0.0000	OK
240 minute summer	1.006:50%	152	0.322	33.4	0.0000	0.0000	OK
240 minute summer	14	152	0.329	32.9	50.2267	0.0000	OK
240 minute summer	14_OUT	4	0.000	15.2	0.0000	0.0000	OK
240 minute summer	5	128	0.099	10.4	0.1122	0.0000	OK
240 minute summer	2	128	0.049	0.0	0.0549	0.0000	OK
240 minute summer	1.001:50%	128	0.072	4.9	0.0895	0.0000	OK
240 minute summer	1	4	0.000	0.0	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
240 minute summer	6	3.000	3.000:50%	0.0	0.000	0.000	0.0214	
240 minute summer	6	3.000	7	5.5	1.205	0.157	0.0534	
240 minute summer	7	3.001	3.001:50%	5.5	0.489	0.379	0.1141	
240 minute summer	7	3.001	8	7.4	0.677	0.510	0.1110	
240 minute summer	4	2.000	2.000:50%	0.0	-0.014	-0.003	0.0376	
240 minute summer	4	2.000	5	3.4	0.572	0.318	0.0527	
240 minute summer	8	1.004	1.004:50%	17.8	1.333	0.260	0.2047	
240 minute summer	8	1.004	9	21.5	1.370	0.314	0.2407	
240 minute summer	9	1.005	1.005:50%	21.5	0.874	0.452	0.2332	
240 minute summer	9	1.005	13	22.5	0.944	0.473	0.2259	
240 minute summer	10	4.000	4.000:50%	0.0	0.000	0.000	0.0130	
240 minute summer	10	4.000	11	3.2	1.296	0.071	0.0297	
240 minute summer	11	4.001	4.001:50%	3.2	1.037	0.102	0.0491	
240 minute summer	11	4.001	12	4.2	1.145	0.134	0.0598	
240 minute summer	12	4.002	4.002:50%	4.2	0.416	0.289	0.1071	
240 minute summer	12	4.002	13	7.0	0.664	0.481	0.1119	
240 minute summer	13	1.006	1.006:50%	29.2	0.443	0.385	0.8133	
240 minute summer	13	1.006	14	32.9	0.794	0.434	0.8317	
240 minute summer	14	Hydro-Brake®	14_OUT	15.2				131.9
240 minute summer	5	1.003	8	10.4	0.710	0.432	0.0936	
240 minute summer	2	1.001	1.001:50%	0.0	0.016	0.005	0.0410	
240 minute summer	2	1.001	3	4.9	0.637	0.457	0.0478	
240 minute summer	1	1.000	2	0.0	0.000	0.000	0.0177	

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

Node Event	US Node	Peak (mins)	Depth (m)	Inflow (l/s)	Node Vol (m ³)	Flood (m ³)	Status
240 minute summer	3	128	0.074	4.9	0.0834	0.0000	OK
240 minute summer	1.002:50%	128	0.085	7.0	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
240 minute summer	3	1.002	1.002:50%	4.9	0.462	0.340	0.1160	
240 minute summer	3	1.002	5	7.0	0.663	0.485	0.1155	

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

Node Event	US Node	Peak (mins)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
240 minute winter	6	4	0.000	0.0	0.0000	0.0000	OK
240 minute winter	3.000:50%	128	0.035	4.2	0.0015	0.0000	OK
240 minute winter	7	128	0.067	4.2	0.0758	0.0000	OK
240 minute winter	3.001:50%	128	0.076	5.7	0.0000	0.0000	OK
240 minute winter	4	128	0.019	0.0	0.0213	0.0000	OK
240 minute winter	2.000:50%	128	0.051	2.6	0.0906	0.0000	OK
240 minute winter	8	128	0.069	13.8	0.0781	0.0000	OK
240 minute winter	1.004:50%	128	0.076	16.7	0.0117	0.0000	OK
240 minute winter	9	128	0.108	16.7	0.1222	0.0000	OK
240 minute winter	1.005:50%	128	0.108	17.5	0.0000	0.0000	OK
240 minute winter	10	4	0.000	0.0	0.0000	0.0000	OK
240 minute winter	4.000:50%	128	0.024	2.5	0.0000	0.0000	OK
240 minute winter	11	128	0.029	2.5	0.0325	0.0000	OK
240 minute winter	4.001:50%	128	0.033	3.2	0.0000	0.0000	OK
240 minute winter	12	128	0.057	3.2	0.0645	0.0000	OK
240 minute winter	4.002:50%	128	0.074	5.4	0.0000	0.0000	OK
240 minute winter	13	160	0.314	22.9	0.4497	0.0000	OK
240 minute winter	1.006:50%	160	0.322	26.0	0.0000	0.0000	OK
240 minute winter	14	160	0.329	25.7	50.2557	0.0000	OK
240 minute winter	14_OUT	4	0.000	15.2	0.0000	0.0000	OK
240 minute winter	5	128	0.087	8.1	0.0980	0.0000	OK
240 minute winter	2	128	0.039	0.0	0.0444	0.0000	OK
240 minute winter	1.001:50%	128	0.062	3.8	0.0677	0.0000	OK
240 minute winter	1	4	0.000	0.0	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
240 minute winter	6	3.000	3.000:50%	0.0	0.000	0.000	0.0176	
240 minute winter	6	3.000	7	4.2	1.203	0.120	0.0403	
240 minute winter	7	3.001	3.001:50%	4.2	0.456	0.289	0.0934	
240 minute winter	7	3.001	8	5.7	0.627	0.393	0.0923	
240 minute winter	4	2.000	2.000:50%	0.0	-0.014	0.002	0.0290	
240 minute winter	4	2.000	5	2.6	0.530	0.244	0.0435	
240 minute winter	8	1.004	1.004:50%	13.8	1.244	0.202	0.1700	
240 minute winter	8	1.004	9	16.7	1.328	0.244	0.1928	
240 minute winter	9	1.005	1.005:50%	16.7	0.824	0.351	0.1922	
240 minute winter	9	1.005	13	17.5	0.886	0.368	0.1872	
240 minute winter	10	4.000	4.000:50%	0.0	0.000	0.000	0.0109	
240 minute winter	10	4.000	11	2.5	1.205	0.055	0.0249	
240 minute winter	11	4.001	4.001:50%	2.5	0.967	0.080	0.0411	
240 minute winter	11	4.001	12	3.2	1.139	0.102	0.0447	
240 minute winter	12	4.002	4.002:50%	3.2	0.391	0.220	0.0871	
240 minute winter	12	4.002	13	5.4	0.615	0.371	0.1063	
240 minute winter	13	1.006	1.006:50%	22.7	0.399	0.299	0.8140	
240 minute winter	13	1.006	14	25.7	0.828	0.339	0.8322	
240 minute winter	14	Hydro-Brake®	14_OUT	15.2				148.2
240 minute winter	5	1.003	8	8.1	0.665	0.336	0.0778	
240 minute winter	2	1.001	1.001:50%	0.0	0.024	0.002	0.0328	
240 minute winter	2	1.001	3	3.8	0.591	0.354	0.0399	
240 minute winter	1	1.000	2	0.0	0.000	0.000	0.0132	

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

Node Event	US Node	Peak (mins)	Depth (m)	Inflow (l/s)	Node Vol (m ³)	Flood (m ³)	Status
240 minute winter	3	128	0.063	3.8	0.0714	0.0000	OK
240 minute winter	1.002:50%	128	0.075	5.5	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
240 minute winter	3	1.002	1.002:50%	3.8	0.433	0.263	0.0961	
240 minute winter	3	1.002	5	5.5	0.618	0.381	0.0974	

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

Node Event	US Node	Peak (mins)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
360 minute summer	6	8	0.000	0.0	0.0000	0.0000	OK
360 minute summer	3.000:50%	192	0.034	4.0	0.0014	0.0000	OK
360 minute summer	7	192	0.065	4.0	0.0736	0.0000	OK
360 minute summer	3.001:50%	192	0.074	5.4	0.0000	0.0000	OK
360 minute summer	4	192	0.018	0.0	0.0203	0.0000	OK
360 minute summer	2.000:50%	192	0.050	2.5	0.0868	0.0000	OK
360 minute summer	8	192	0.067	13.1	0.0760	0.0000	OK
360 minute summer	1.004:50%	192	0.074	15.8	0.0110	0.0000	OK
360 minute summer	9	192	0.105	15.8	0.1184	0.0000	OK
360 minute summer	1.005:50%	192	0.105	16.6	0.0000	0.0000	OK
360 minute summer	10	8	0.000	0.0	0.0000	0.0000	OK
360 minute summer	4.000:50%	192	0.023	2.3	0.0000	0.0000	OK
360 minute summer	11	192	0.028	2.3	0.0312	0.0000	OK
360 minute summer	4.001:50%	192	0.032	3.0	0.0000	0.0000	OK
360 minute summer	12	192	0.055	3.0	0.0620	0.0000	OK
360 minute summer	4.002:50%	192	0.072	5.1	0.0000	0.0000	OK
360 minute summer	13	216	0.260	21.7	0.3715	0.0000	OK
360 minute summer	1.006:50%	216	0.267	24.6	0.0000	0.0000	OK
360 minute summer	14	216	0.274	24.4	41.8729	0.0000	OK
360 minute summer	14_OUT	8	0.000	14.5	0.0000	0.0000	OK
360 minute summer	5	192	0.084	7.7	0.0954	0.0000	OK
360 minute summer	2	192	0.037	0.0	0.0423	0.0000	OK
360 minute summer	1.001:50%	192	0.060	3.6	0.0639	0.0000	OK
360 minute summer	1	8	0.000	0.0	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
360 minute summer	6	3.000	3.000:50%	0.0	0.000	0.000	0.0170	
360 minute summer	6	3.000	7	4.0	1.200	0.114	0.0383	
360 minute summer	7	3.001	3.001:50%	4.0	0.452	0.275	0.0899	
360 minute summer	7	3.001	8	5.4	0.617	0.372	0.0888	
360 minute summer	4	2.000	2.000:50%	0.0	-0.011	0.001	0.0279	
360 minute summer	4	2.000	5	2.5	0.524	0.234	0.0422	
360 minute summer	8	1.004	1.004:50%	13.1	1.228	0.191	0.1636	
360 minute summer	8	1.004	9	15.8	1.318	0.231	0.1838	
360 minute summer	9	1.005	1.005:50%	15.8	0.812	0.333	0.1846	
360 minute summer	9	1.005	13	16.6	0.874	0.349	0.1801	
360 minute summer	10	4.000	4.000:50%	0.0	0.000	0.000	0.0103	
360 minute summer	10	4.000	11	2.3	1.175	0.051	0.0235	
360 minute summer	11	4.001	4.001:50%	2.3	0.937	0.073	0.0391	
360 minute summer	11	4.001	12	3.0	1.117	0.096	0.0427	
360 minute summer	12	4.002	4.002:50%	3.0	0.384	0.206	0.0831	
360 minute summer	12	4.002	13	5.1	0.605	0.351	0.0895	
360 minute summer	13	1.006	1.006:50%	21.5	0.382	0.284	0.6665	
360 minute summer	13	1.006	14	24.4	0.726	0.321	0.6878	
360 minute summer	14	Hydro-Brake®	14_OUT	14.5				145.6
360 minute summer	5	1.003	8	7.7	0.656	0.320	0.0750	
360 minute summer	2	1.001	1.001:50%	0.0	0.011	0.002	0.0313	
360 minute summer	2	1.001	3	3.6	0.582	0.336	0.0384	
360 minute summer	1	1.000	2	0.0	0.000	0.000	0.0123	

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

Node Event	US Node	Peak (mins)	Depth (m)	Inflow (l/s)	Node Vol (m ³)	Flood (m ³)	Status
360 minute summer	3	192	0.061	3.6	0.0691	0.0000	OK
360 minute summer	1.002:50%	192	0.072	5.2	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
360 minute summer	3	1.002	1.002:50%	3.6	0.428	0.249	0.0922	
360 minute summer	3	1.002	5	5.2	0.608	0.360	0.0936	

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

Node Event	US Node	Peak (mins)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
360 minute winter	6	8	0.000	0.0	0.0000	0.0000	OK
360 minute winter	3.000:50%	184	0.030	3.1	0.0011	0.0000	OK
360 minute winter	7	192	0.056	3.1	0.0635	0.0000	OK
360 minute winter	3.001:50%	192	0.064	4.2	0.0000	0.0000	OK
360 minute winter	4	192	0.011	0.0	0.0128	0.0000	OK
360 minute winter	2.000:50%	192	0.043	1.9	0.0655	0.0000	OK
360 minute winter	8	192	0.059	10.1	0.0662	0.0000	OK
360 minute winter	1.004:50%	192	0.065	12.2	0.0085	0.0000	OK
360 minute winter	9	192	0.090	12.2	0.1022	0.0000	OK
360 minute winter	1.005:50%	192	0.091	12.8	0.0000	0.0000	OK
360 minute winter	10	8	0.000	0.0	0.0000	0.0000	OK
360 minute winter	4.000:50%	192	0.021	1.8	0.0000	0.0000	OK
360 minute winter	11	192	0.024	1.8	0.0277	0.0000	OK
360 minute winter	4.001:50%	192	0.028	2.3	0.0000	0.0000	OK
360 minute winter	12	192	0.047	2.3	0.0528	0.0000	OK
360 minute winter	4.002:50%	192	0.062	3.9	0.0000	0.0000	OK
360 minute winter	13	224	0.238	16.7	0.3406	0.0000	OK
360 minute winter	1.006:50%	224	0.245	19.0	0.0000	0.0000	OK
360 minute winter	14	224	0.253	18.9	38.5291	0.0000	OK
360 minute winter	14_OUT	8	0.000	14.2	0.0000	0.0000	OK
360 minute winter	5	192	0.074	5.9	0.0834	0.0000	OK
360 minute winter	2	192	0.030	0.0	0.0338	0.0000	OK
360 minute winter	1.001:50%	192	0.053	2.8	0.0489	0.0000	OK
360 minute winter	1	8	0.000	0.0	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
360 minute winter	6	3.000	3.000:50%	0.0	0.000	0.000	0.0144	
360 minute winter	6	3.000	7	3.1	1.199	0.088	0.0292	
360 minute winter	7	3.001	3.001:50%	3.1	0.423	0.213	0.0743	
360 minute winter	7	3.001	8	4.2	0.574	0.289	0.0743	
360 minute winter	4	2.000	2.000:50%	0.0	-0.011	-0.001	0.0213	
360 minute winter	4	2.000	5	1.9	0.485	0.178	0.0347	
360 minute winter	8	1.004	1.004:50%	10.1	1.140	0.148	0.1359	
360 minute winter	8	1.004	9	12.2	1.277	0.178	0.1464	
360 minute winter	9	1.005	1.005:50%	12.2	0.762	0.257	0.1518	
360 minute winter	9	1.005	13	12.8	0.816	0.269	0.1487	
360 minute winter	10	4.000	4.000:50%	0.0	0.000	0.000	0.0086	
360 minute winter	10	4.000	11	1.8	1.093	0.040	0.0198	
360 minute winter	11	4.001	4.001:50%	1.8	0.880	0.057	0.0326	
360 minute winter	11	4.001	12	2.3	1.034	0.073	0.0354	
360 minute winter	12	4.002	4.002:50%	2.3	0.361	0.158	0.0678	
360 minute winter	12	4.002	13	3.9	0.559	0.268	0.0740	
360 minute winter	13	1.006	1.006:50%	16.6	0.349	0.219	0.6029	
360 minute winter	13	1.006	14	18.9	0.733	0.249	0.6245	
360 minute winter	14	Hydro-Brake®	14_OUT	14.2				162.9
360 minute winter	5	1.003	8	5.9	0.607	0.245	0.0622	
360 minute winter	2	1.001	1.001:50%	0.0	0.008	0.001	0.0249	
360 minute winter	2	1.001	3	2.8	0.542	0.261	0.0321	
360 minute winter	1	1.000	2	0.0	0.000	0.000	0.0089	

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

Node Event	US Node	Peak (mins)	Depth (m)	Inflow (l/s)	Node Vol (m ³)	Flood (m ³)	Status
360 minute winter	3	192	0.053	2.8	0.0597	0.0000	OK
360 minute winter	1.002:50%	192	0.063	4.0	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
360 minute winter	3	1.002	1.002:50%	2.8	0.404	0.194	0.0760	
360 minute winter	3	1.002	5	4.0	0.563	0.277	0.0777	

**Results for 100 year +40% CC 15 minute summer. 255 minute analysis at 1 minute timestep. Mass balance: 100.00%**

Node Event	US Node	Peak (mins)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	6	1	0.000	0.0	0.0000	0.0000	OK
15 minute summer	3.000:50%	13	0.119	24.3	0.0172	0.0000	OK
15 minute summer	7	13	0.371	24.3	0.4197	0.0000	SURCHARGED
15 minute summer	3.001:50%	13	0.300	32.7	0.0000	0.0000	SURCHARGED
15 minute summer	4	17	0.192	0.8	0.2173	0.0000	SURCHARGED
15 minute summer	2.000:50%	17	0.224	15.0	1.7516	0.0000	SURCHARGED
15 minute summer	8	16	0.526	60.3	0.5950	0.0000	SURCHARGED
15 minute summer	1.004:50%	15	0.545	75.7	0.5921	0.0000	SURCHARGED
15 minute summer	9	15	0.451	75.3	0.5104	0.0000	SURCHARGED
15 minute summer	1.005:50%	15	0.346	79.6	0.0000	0.0000	SURCHARGED
15 minute summer	10	1	0.000	0.0	0.0000	0.0000	OK
15 minute summer	4.000:50%	13	0.058	14.2	0.0000	0.0000	OK
15 minute summer	11	13	0.071	14.2	0.0801	0.0000	OK
15 minute summer	4.001:50%	13	0.087	18.5	0.0000	0.0000	OK
15 minute summer	12	13	0.310	18.5	0.3505	0.0000	SURCHARGED
15 minute summer	4.002:50%	13	0.281	30.8	0.0000	0.0000	SURCHARGED
15 minute summer	13	24	0.524	110.0	0.7492	0.0000	SURCHARGED
15 minute summer	1.006:50%	25	0.532	127.5	0.0000	0.0000	SURCHARGED
15 minute summer	14	25	0.540	126.1	82.3724	0.0000	SURCHARGED
15 minute summer	14_OUT	1	0.000	16.6	0.0000	0.0000	OK
15 minute summer	5	16	0.548	39.2	0.6201	0.0000	SURCHARGED
15 minute summer	2	17	0.504	4.2	0.5701	0.0000	SURCHARGED
15 minute summer	1.001:50%	17	0.527	21.7	4.8576	0.0000	SURCHARGED
15 minute summer	1	17	0.321	2.5	0.3632	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	6	3.000	3.000:50%	0.0	0.000	0.000	0.0847	
15 minute summer	6	3.000	7	24.3	1.405	0.692	0.1838	
15 minute summer	7	3.001	3.001:50%	24.2	1.006	1.668	0.2443	
15 minute summer	7	3.001	8	32.7	1.357	2.249	0.2372	
15 minute summer	4	2.000	2.000:50%	1.3	-0.115	0.123	0.1560	
15 minute summer	4	2.000	5	15.8	0.900	1.484	0.1560	
15 minute summer	8	1.004	1.004:50%	61.0	1.684	0.891	0.6096	
15 minute summer	8	1.004	9	75.3	1.894	1.101	0.6096	
15 minute summer	9	1.005	1.005:50%	75.4	1.542	1.587	0.4635	
15 minute summer	9	1.005	13	79.6	1.629	1.675	0.4504	
15 minute summer	10	4.000	4.000:50%	0.0	0.000	0.000	0.0375	
15 minute summer	10	4.000	11	14.2	1.970	0.314	0.0865	
15 minute summer	11	4.001	4.001:50%	14.2	1.543	0.453	0.1493	
15 minute summer	11	4.001	12	18.5	1.232	0.589	0.2242	
15 minute summer	12	4.002	4.002:50%	18.4	0.765	1.266	0.2554	
15 minute summer	12	4.002	13	30.8	1.280	2.115	0.2554	
15 minute summer	13	1.006	1.006:50%	108.9	1.074	1.437	0.9542	
15 minute summer	13	1.006	14	126.1	2.235	1.664	0.9542	
15 minute summer	14	Hydro-Brake®	14_OUT	16.6				99.3
15 minute summer	5	1.003	8	42.0	1.162	1.744	0.2537	
15 minute summer	2	1.001	1.001:50%	-4.2	0.271	-0.391	0.1093	
15 minute summer	2	1.001	3	22.6	1.284	2.109	0.1093	
15 minute summer	1	1.000	2	-2.5	-0.176	-0.089	0.1268	

**Results for 100 year +40% CC 15 minute summer. 255 minute analysis at 1 minute timestep. Mass balance: 100.00%**

Node Event	US Node	Peak (mins)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	3	17	0.530	22.6	0.5998	0.0000	SURCHARGED
15 minute summer	1.002:50%	16	0.535	25.8	0.0000	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	3	1.002	1.002:50%	24.1	0.999	1.667	0.2635	
15 minute summer	3	1.002	5	27.5	1.141	1.905	0.2635	

**Results for 100 year +40% CC 15 minute winter. 255 minute analysis at 1 minute timestep. Mass balance: 99.96%**

Node Event	US Node	Peak (mins)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	6	1	0.000	0.0	0.0000	0.0000	OK
15 minute winter	3.000:50%	14	0.294	27.3	0.1044	0.0000	SURCHARGED
15 minute winter	7	14	0.446	26.9	0.5040	0.0000	SURCHARGED
15 minute winter	3.001:50%	14	0.352	36.3	0.0000	0.0000	SURCHARGED
15 minute winter	4	17	0.261	0.8	0.2953	0.0000	SURCHARGED
15 minute winter	2.000:50%	17	0.293	16.9	2.9985	0.0000	SURCHARGED
15 minute winter	8	16	0.602	62.8	0.6814	0.0000	SURCHARGED
15 minute winter	1.004:50%	15	0.607	78.7	0.7342	0.0000	SURCHARGED
15 minute winter	9	15	0.482	78.4	0.5448	0.0000	SURCHARGED
15 minute winter	1.005:50%	15	0.364	83.1	0.0000	0.0000	SURCHARGED
15 minute winter	10	1	0.000	0.0	0.0000	0.0000	OK
15 minute winter	4.000:50%	13	0.061	15.9	0.0000	0.0000	OK
15 minute winter	11	13	0.076	15.9	0.0855	0.0000	OK
15 minute winter	4.001:50%	14	0.104	20.7	0.0000	0.0000	OK
15 minute winter	12	14	0.375	20.6	0.4247	0.0000	SURCHARGED
15 minute winter	4.002:50%	16	0.342	34.5	0.0000	0.0000	SURCHARGED
15 minute winter	13	26	0.590	116.9	0.8442	0.0000	SURCHARGED
15 minute winter	1.006:50%	26	0.598	136.8	0.0000	0.0000	SURCHARGED
15 minute winter	14	26	0.606	135.0	92.4596	0.0000	SURCHARGED
15 minute winter	14_OUT	1	0.000	16.7	0.0000	0.0000	OK
15 minute winter	5	16	0.621	43.6	0.7027	0.0000	SURCHARGED
15 minute winter	2	18	0.575	4.2	0.6500	0.0000	SURCHARGED
15 minute winter	1.001:50%	18	0.597	24.4	6.2396	0.0000	SURCHARGED
15 minute winter	1	18	0.392	2.3	0.4433	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute winter	6	3.000	3.000:50%	0.0	0.000	0.000	0.0992	
15 minute winter	6	3.000	7	26.9	1.528	0.768	0.1983	
15 minute winter	7	3.001	3.001:50%	26.8	1.114	1.847	0.2443	
15 minute winter	7	3.001	8	36.3	1.506	2.498	0.2400	
15 minute winter	4	2.000	2.000:50%	1.5	0.139	0.145	0.1560	111.2
15 minute winter	4	2.000	5	18.8	1.069	1.764	0.1560	
15 minute winter	8	1.004	1.004:50%	63.4	1.722	0.927	0.6096	
15 minute winter	8	1.004	9	78.4	1.971	1.146	0.6096	
15 minute winter	9	1.005	1.005:50%	78.4	1.604	1.651	0.4635	
15 minute winter	9	1.005	13	83.1	1.700	1.749	0.4526	
15 minute winter	10	4.000	4.000:50%	0.0	0.000	0.000	0.0407	
15 minute winter	10	4.000	11	15.9	2.029	0.352	0.0940	
15 minute winter	11	4.001	4.001:50%	15.9	1.556	0.507	0.1744	
15 minute winter	11	4.001	12	20.6	1.262	0.658	0.2437	
15 minute winter	12	4.002	4.002:50%	20.6	0.857	1.419	0.2554	
15 minute winter	12	4.002	13	34.5	1.432	2.370	0.2554	
15 minute winter	13	1.006	1.006:50%	115.8	1.131	1.527	0.9542	
15 minute winter	13	1.006	14	135.0	2.167	1.782	0.9542	
15 minute winter	14	Hydro-Brake®	14_OUT	16.7				
15 minute winter	5	1.003	8	46.0	1.229	1.911	0.2537	
15 minute winter	2	1.001	1.001:50%	4.6	0.300	0.432	0.1093	
15 minute winter	2	1.001	3	24.1	1.370	2.249	0.1093	
15 minute winter	1	1.000	2	2.5	0.185	0.089	0.1268	

**Results for 100 year +40% CC 15 minute winter. 255 minute analysis at 1 minute timestep. Mass balance: 99.96%**

Node Event	US Node	Peak (mins)	Depth (m)	Inflow (l/s)	Node Vol (m ³)	Flood (m ³)	Status
15 minute winter	3	17	0.603	24.1	0.6820	0.0000	SURCHARGED
15 minute winter	1.002:50%	16	0.607	26.4	0.0000	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
15 minute winter	3	1.002	1.002:50%	25.3	1.050	1.753	0.2635	
15 minute winter	3	1.002	5	28.2	1.171	1.953	0.2635	

**Results for 100 year +40% CC 30 minute summer. 270 minute analysis at 1 minute timestep. Mass balance: 99.96%**

Node Event	US Node	Peak (mins)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
30 minute summer	6	1	0.000	0.0	0.0000	0.0000	OK
30 minute summer	3.000:50%	22	0.172	25.3	0.0357	0.0000	SURCHARGED
30 minute summer	7	20	0.384	24.7	0.4340	0.0000	SURCHARGED
30 minute summer	3.001:50%	20	0.310	33.4	0.0000	0.0000	SURCHARGED
30 minute summer	4	24	0.207	0.7	0.2338	0.0000	SURCHARGED
30 minute summer	2.000:50%	24	0.238	15.6	1.9849	0.0000	SURCHARGED
30 minute summer	8	23	0.540	60.8	0.6113	0.0000	SURCHARGED
30 minute summer	1.004:50%	23	0.556	76.1	0.6168	0.0000	SURCHARGED
30 minute summer	9	23	0.457	75.9	0.5166	0.0000	SURCHARGED
30 minute summer	1.005:50%	23	0.349	80.2	0.0000	0.0000	SURCHARGED
30 minute summer	10	1	0.000	0.0	0.0000	0.0000	OK
30 minute summer	4.000:50%	20	0.059	14.7	0.0000	0.0000	OK
30 minute summer	11	20	0.072	14.7	0.0816	0.0000	OK
30 minute summer	4.001:50%	21	0.091	19.1	0.0000	0.0000	OK
30 minute summer	12	36	0.389	19.0	0.4399	0.0000	SURCHARGED
30 minute summer	4.002:50%	36	0.421	31.6	0.0000	0.0000	SURCHARGED
30 minute summer	13	36	0.677	110.5	0.9686	0.0000	SURCHARGED
30 minute summer	1.006:50%	36	0.685	128.8	0.0000	0.0000	SURCHARGED
30 minute summer	14	36	0.693	127.5	105.6642	0.0000	SURCHARGED
30 minute summer	14_OUT	1	0.000	16.8	0.0000	0.0000	OK
30 minute summer	5	24	0.561	40.0	0.6349	0.0000	SURCHARGED
30 minute summer	2	25	0.523	4.1	0.5919	0.0000	SURCHARGED
30 minute summer	1.001:50%	25	0.546	22.6	5.2158	0.0000	SURCHARGED
30 minute summer	1	25	0.340	2.6	0.3850	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
30 minute summer	6	3.000	3.000:50%	0.0	0.000	0.000	0.0992	
30 minute summer	6	3.000	7	24.7	1.421	0.705	0.1983	
30 minute summer	7	3.001	3.001:50%	24.6	1.022	1.695	0.2443	
30 minute summer	7	3.001	8	33.3	1.385	2.294	0.2378	
30 minute summer	4	2.000	2.000:50%	1.1	0.079	0.099	0.1560	
30 minute summer	4	2.000	5	16.3	0.947	1.529	0.1560	
30 minute summer	8	1.004	1.004:50%	61.3	1.673	0.896	0.6096	
30 minute summer	8	1.004	9	75.9	1.910	1.110	0.6096	
30 minute summer	9	1.005	1.005:50%	76.0	1.553	1.599	0.4635	
30 minute summer	9	1.005	13	80.2	1.641	1.688	0.4508	
30 minute summer	10	4.000	4.000:50%	0.0	0.000	0.000	0.0384	
30 minute summer	10	4.000	11	14.7	1.988	0.325	0.0886	
30 minute summer	11	4.001	4.001:50%	14.7	1.551	0.468	0.1554	
30 minute summer	11	4.001	12	19.0	1.189	0.607	0.2289	
30 minute summer	12	4.002	4.002:50%	18.7	0.777	1.287	0.2554	
30 minute summer	12	4.002	13	31.5	1.308	2.163	0.2554	
30 minute summer	13	1.006	1.006:50%	109.4	1.044	1.444	0.9542	
30 minute summer	13	1.006	14	127.5	1.840	1.682	0.9542	
30 minute summer	14	Hydro-Brake®	14_OUT	16.8				131.2
30 minute summer	5	1.003	8	41.8	1.120	1.733	0.2537	
30 minute summer	2	1.001	1.001:50%	-4.1	-0.232	-0.381	0.1093	
30 minute summer	2	1.001	3	22.8	1.296	2.127	0.1093	
30 minute summer	1	1.000	2	-2.6	-0.200	-0.090	0.1268	

**Results for 100 year +40% CC 30 minute summer. 270 minute analysis at 1 minute timestep. Mass balance: 99.96%**

Node Event	US Node	Peak (mins)	Depth (m)	Inflow (l/s)	Node Vol (m ³)	Flood (m ³)	Status
30 minute summer	3	24	0.548	22.8	0.6193	0.0000	SURCHARGED
30 minute summer	1.002:50%	24	0.552	26.7	0.0000	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
30 minute summer	3	1.002	1.002:50%	24.1	1.003	1.673	0.2635	
30 minute summer	3	1.002	5	27.9	1.157	1.931	0.2635	

**Results for 100 year +40% CC 30 minute winter. 270 minute analysis at 1 minute timestep. Mass balance: 99.95%**

Node Event	US Node	Peak (mins)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	
30 minute winter	6	1	0.000	0.0	0.0000	0.0000	OK	
30 minute winter	3.000:50%	21	0.237	26.5	0.0680	0.0000	SURCHARGED	
30 minute winter	7	21	0.413	25.8	0.4668	0.0000	SURCHARGED	
30 minute winter	3.001:50%	21	0.329	34.9	0.0000	0.0000	SURCHARGED	
30 minute winter	4	25	0.242	0.6	0.2742	0.0000	SURCHARGED	
30 minute winter	2.000:50%	25	0.274	16.4	2.6234	0.0000	SURCHARGED	
30 minute winter	8	23	0.576	62.3	0.6520	0.0000	SURCHARGED	
30 minute winter	1.004:50%	23	0.585	77.5	0.6823	0.0000	SURCHARGED	
30 minute winter	9	23	0.471	77.4	0.5323	0.0000	SURCHARGED	
30 minute winter	1.005:50%	22	0.357	81.8	0.0000	0.0000	SURCHARGED	
30 minute winter	10	1	0.000	0.0	0.0000	0.0000	OK	
30 minute winter	4.000:50%	20	0.061	15.5	0.0000	0.0000	OK	
30 minute winter	11	20	0.074	15.5	0.0840	0.0000	OK	
30 minute winter	4.001:50%	22	0.102	20.1	0.0000	0.0000	OK	
30 minute winter	12	36	0.481	19.9	0.5438	0.0000	SURCHARGED	
30 minute winter	4.002:50%	36	0.513	32.9	0.0000	0.0000	SURCHARGED	
30 minute winter	13	37	0.769	112.5	1.1003	0.0000	SURCHARGED	
30 minute winter	1.006:50%	37	0.777	131.8	0.0000	0.0000	SURCHARGED	
30 minute winter	14	37	0.785	131.0	119.8049	0.0000	SURCHARGED	
30 minute winter	14_OUT	1	0.000	16.8	0.0000	0.0000	OK	
30 minute winter	5	24	0.599	41.7	0.6770	0.0000	SURCHARGED	
30 minute winter	2	26	0.565	3.4	0.6388	0.0000	SURCHARGED	
30 minute winter	1.001:50%	26	0.588	23.7	6.0405	0.0000	SURCHARGED	
30 minute winter	1	26	0.382	1.9	0.4321	0.0000	SURCHARGED	
Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
30 minute winter	6	3.000	3.000:50%	0.0	0.000	0.000	0.0992	
30 minute winter	6	3.000	7	25.8	1.467	0.737	0.1983	
30 minute winter	7	3.001	3.001:50%	25.8	1.070	1.775	0.2443	
30 minute winter	7	3.001	8	34.7	1.443	2.393	0.2389	
30 minute winter	4	2.000	2.000:50%	1.1	0.083	0.107	0.1560	
30 minute winter	4	2.000	5	17.8	1.014	1.672	0.1560	
30 minute winter	8	1.004	1.004:50%	62.3	1.631	0.911	0.6096	
30 minute winter	8	1.004	9	77.4	1.946	1.131	0.6096	
30 minute winter	9	1.005	1.005:50%	77.4	1.583	1.629	0.4635	
30 minute winter	9	1.005	13	81.7	1.673	1.721	0.4635	
30 minute winter	10	4.000	4.000:50%	0.0	0.000	0.000	0.0399	
30 minute winter	10	4.000	11	15.5	2.016	0.343	0.0920	
30 minute winter	11	4.001	4.001:50%	15.4	1.544	0.492	0.1678	
30 minute winter	11	4.001	12	19.9	1.219	0.635	0.2408	
30 minute winter	12	4.002	4.002:50%	19.3	0.803	1.330	0.2554	
30 minute winter	12	4.002	13	32.3	1.342	2.222	0.2554	
30 minute winter	13	1.006	1.006:50%	111.5	1.034	1.470	0.9542	
30 minute winter	13	1.006	14	131.0	1.753	1.729	0.9542	
30 minute winter	14	Hydro-Brake®	14_OUT	16.8				147.0
30 minute winter	5	1.003	8	42.6	1.109	1.766	0.2537	
30 minute winter	2	1.001	1.001:50%	3.7	0.210	0.345	0.1093	
30 minute winter	2	1.001	3	23.1	1.314	2.158	0.1093	
30 minute winter	1	1.000	2	2.0	0.128	0.072	0.1268	

**Results for 100 year +40% CC 30 minute winter. 270 minute analysis at 1 minute timestep. Mass balance: 99.95%**

Node Event	US Node	Peak (mins)	Depth (m)	Inflow (l/s)	Node Vol (m ³)	Flood (m ³)	Status
30 minute winter	3	25	0.587	23.1	0.6638	0.0000	SURCHARGED
30 minute winter	1.002:50%	24	0.589	26.7	0.0000	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
30 minute winter	3	1.002	1.002:50%	24.5	1.015	1.694	0.2635	
30 minute winter	3	1.002	5	27.8	1.153	1.924	0.2635	

**Results for 100 year +40% CC 60 minute summer. 300 minute analysis at 1 minute timestep. Mass balance: 99.96%**

Node Event	US Node	Peak (mins)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute summer	6	1	0.000	0.0	0.0000	0.0000	OK
60 minute summer	3.000:50%	36	0.098	22.0	0.0117	0.0000	OK
60 minute summer	7	36	0.315	21.9	0.3561	0.0000	SURCHARGED
60 minute summer	3.001:50%	36	0.263	29.5	0.0000	0.0000	SURCHARGED
60 minute summer	4	38	0.116	0.3	0.1307	0.0000	OK
60 minute summer	2.000:50%	38	0.148	13.6	0.7630	0.0000	OK
60 minute summer	8	38	0.448	58.3	0.5066	0.0000	SURCHARGED
60 minute summer	1.004:50%	37	0.483	72.3	0.4652	0.0000	SURCHARGED
60 minute summer	9	37	0.421	72.2	0.4763	0.0000	SURCHARGED
60 minute summer	1.005:50%	37	0.328	76.0	0.0000	0.0000	SURCHARGED
60 minute summer	10	1	0.000	0.0	0.0000	0.0000	OK
60 minute summer	4.000:50%	35	0.055	12.8	0.0000	0.0000	OK
60 minute summer	11	35	0.067	12.8	0.0754	0.0000	OK
60 minute summer	4.001:50%	37	0.080	16.7	0.0000	0.0000	OK
60 minute summer	12	60	0.488	16.6	0.5515	0.0000	SURCHARGED
60 minute summer	4.002:50%	60	0.519	27.0	0.0000	0.0000	SURCHARGED
60 minute summer	13	61	0.774	101.5	1.1072	0.0000	SURCHARGED
60 minute summer	1.006:50%	60	0.782	117.1	0.0000	0.0000	SURCHARGED
60 minute summer	14	61	0.789	116.4	120.3140	0.0000	SURCHARGED
60 minute summer	14_OUT	1	0.000	16.8	0.0000	0.0000	OK
60 minute summer	5	38	0.472	34.4	0.5338	0.0000	SURCHARGED
60 minute summer	2	40	0.431	2.4	0.4876	0.0000	SURCHARGED
60 minute summer	1.001:50%	40	0.454	19.7	3.6032	0.0000	SURCHARGED
60 minute summer	1	40	0.248	1.3	0.2807	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
60 minute summer	6	3.000	3.000:50%	0.0	0.000	0.000	0.0689	
60 minute summer	6	3.000	7	21.9	1.337	0.625	0.1681	
60 minute summer	7	3.001	3.001:50%	21.9	0.908	1.506	0.2443	
60 minute summer	7	3.001	8	29.5	1.231	2.031	0.2339	
60 minute summer	4	2.000	2.000:50%	0.4	-0.044	0.040	0.1422	
60 minute summer	4	2.000	5	12.8	0.844	1.195	0.1538	
60 minute summer	8	1.004	1.004:50%	58.6	1.621	0.856	0.6096	
60 minute summer	8	1.004	9	72.2	1.814	1.055	0.6096	
60 minute summer	9	1.005	1.005:50%	72.2	1.476	1.520	0.4635	
60 minute summer	9	1.005	13	76.0	1.556	1.599	0.4635	
60 minute summer	10	4.000	4.000:50%	0.0	0.000	0.000	0.0347	
60 minute summer	10	4.000	11	12.8	1.917	0.283	0.0800	
60 minute summer	11	4.001	4.001:50%	12.8	1.525	0.407	0.1342	
60 minute summer	11	4.001	12	16.6	1.163	0.531	0.2153	
60 minute summer	12	4.002	4.002:50%	15.9	0.660	1.092	0.2554	
60 minute summer	12	4.002	13	26.6	1.109	1.830	0.2554	
60 minute summer	13	1.006	1.006:50%	100.6	0.824	1.327	0.9542	
60 minute summer	13	1.006	14	116.4	1.376	1.536	0.9542	
60 minute summer	14	Hydro-Brake®	14_OUT	16.8				165.7
60 minute summer	5	1.003	8	35.8	1.030	1.488	0.2537	
60 minute summer	2	1.001	1.001:50%	3.1	0.176	0.290	0.1093	
60 minute summer	2	1.001	3	20.7	1.174	1.928	0.1093	
60 minute summer	1	1.000	2	1.6	0.138	0.057	0.1268	

**Results for 100 year +40% CC 60 minute summer. 300 minute analysis at 1 minute timestep. Mass balance: 99.96%**

Node Event	US Node	Peak (mins)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute summer	3	39	0.454	20.7	0.5138	0.0000	SURCHARGED
60 minute summer	1.002:50%	39	0.456	25.0	0.0000	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
60 minute summer	3	1.002	1.002:50%	21.6	0.899	1.500	0.2635	
60 minute summer	3	1.002	5	26.1	1.082	1.806	0.2635	

**Results for 100 year +40% CC 60 minute winter. 300 minute analysis at 1 minute timestep. Mass balance: 99.91%**

Node Event	US	Peak	Depth	Inflow	Node	Flood	Status
	Node	(mins)	(m)	(l/s)	Vol (m³)	(m³)	
60 minute winter	6	1	0.000	0.0	0.0000	0.0000	OK
60 minute winter	3.000:50%	35	0.084	19.8	0.0085	0.0000	OK
60 minute winter	7	36	0.270	19.8	0.3050	0.0000	SURCHARGED
60 minute winter	3.001:50%	36	0.233	26.6	0.0000	0.0000	SURCHARGED
60 minute winter	4	37	0.096	0.2	0.1086	0.0000	OK
60 minute winter	2.000:50%	37	0.128	12.2	0.5736	0.0000	OK
60 minute winter	8	38	0.382	56.5	0.4317	0.0000	SURCHARGED
60 minute winter	1.004:50%	38	0.430	69.3	0.3692	0.0000	SURCHARGED
60 minute winter	9	46	0.426	69.3	0.4820	0.0000	SURCHARGED
60 minute winter	1.005:50%	61	0.415	72.8	0.0000	0.0000	SURCHARGED
60 minute winter	10	1	0.000	0.0	0.0000	0.0000	OK
60 minute winter	4.000:50%	35	0.052	11.5	0.0000	0.0000	OK
60 minute winter	11	36	0.063	11.5	0.0711	0.0000	OK
60 minute winter	4.001:50%	60	0.090	15.0	0.0000	0.0000	OK
60 minute winter	12	61	0.604	15.0	0.6833	0.0000	SURCHARGED
60 minute winter	4.002:50%	61	0.636	24.1	0.0000	0.0000	SURCHARGED
60 minute winter	13	61	0.891	95.8	1.2745	0.0000	SURCHARGED
60 minute winter	1.006:50%	62	0.899	110.0	0.0000	0.0000	SURCHARGED
60 minute winter	14	62	0.906	109.4	138.1821	0.0000	SURCHARGED
60 minute winter	14_OUT	1	0.000	16.8	0.0000	0.0000	OK
60 minute winter	5	38	0.407	32.5	0.4598	0.0000	SURCHARGED
60 minute winter	2	40	0.372	1.8	0.4208	0.0000	SURCHARGED
60 minute winter	1.001:50%	40	0.395	17.7	2.7287	0.0000	SURCHARGED
60 minute winter	1	40	0.189	1.1	0.2139	0.0000	SURCHARGED

Link Event	US	Link	DS	Outflow	Velocity	Flow/Cap	Link	Discharge
	Node		Node	(l/s)	(m/s)		Vol (m³)	Vol (m³)
60 minute winter	6	3.000	3.000:50%	0.0	0.000	0.000	0.0572	
60 minute winter	6	3.000	7	19.8	1.265	0.564	0.1564	
60 minute winter	7	3.001	3.001:50%	19.7	0.819	1.359	0.2443	
60 minute winter	7	3.001	8	26.6	1.120	1.835	0.2299	
60 minute winter	4	2.000	2.000:50%	0.2	-0.055	0.018	0.1237	
60 minute winter	4	2.000	5	12.0	0.831	1.127	0.1273	
60 minute winter	8	1.004	1.004:50%	56.6	1.560	0.827	0.6096	
60 minute winter	8	1.004	9	69.3	1.743	1.013	0.6096	
60 minute winter	9	1.005	1.005:50%	69.3	1.418	1.459	0.4635	
60 minute winter	9	1.005	13	72.8	1.495	1.533	0.4635	
60 minute winter	10	4.000	4.000:50%	0.0	0.000	0.000	0.0322	
60 minute winter	10	4.000	11	11.5	1.864	0.255	0.0741	
60 minute winter	11	4.001	4.001:50%	11.5	1.484	0.367	0.1232	
60 minute winter	11	4.001	12	15.0	1.161	0.478	0.2274	
60 minute winter	12	4.002	4.002:50%	14.0	0.581	0.962	0.2554	
60 minute winter	12	4.002	13	23.5	0.975	1.614	0.2554	
60 minute winter	13	1.006	1.006:50%	95.0	0.770	1.253	0.9542	
60 minute winter	13	1.006	14	109.4	1.445	1.443	0.9542	
60 minute winter	14	Hydro-Brake®	14_OUT	16.8				185.5
60 minute winter	5	1.003	8	32.9	1.009	1.366	0.2537	
60 minute winter	2	1.001	1.001:50%	2.5	0.142	0.234	0.1093	
60 minute winter	2	1.001	3	17.7	1.005	1.650	0.1093	
60 minute winter	1	1.000	2	1.3	0.110	0.044	0.1268	

**Results for 100 year +40% CC 60 minute winter. 300 minute analysis at 1 minute timestep. Mass balance: 99.91%**

Node Event	US Node	Peak (mins)	Depth (m)	Inflow (l/s)	Node Vol (m ³)	Flood (m ³)	Status
60 minute winter	3	39	0.393	17.7	0.4443	0.0000	SURCHARGED
60 minute winter	1.002:50%	39	0.394	22.4	0.0000	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
60 minute winter	3	1.002	1.002:50%	18.5	0.768	1.281	0.2635	
60 minute winter	3	1.002	5	23.1	0.960	1.602	0.2635	

**Results for 100 year +40% CC 120 minute summer. 360 minute analysis at 2 minute timestep. Mass balance: 99.97%**

Node Event	US Node	Peak (mins)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	
120 minute summer	6	2	0.000	0.0	0.0000	0.0000	OK	
120 minute summer	3.000:50%	66	0.071	15.8	0.0060	0.0000	OK	
120 minute summer	7	66	0.196	15.8	0.2221	0.0000	SURCHARGED	
120 minute summer	3.001:50%	66	0.184	21.3	0.0000	0.0000	SURCHARGED	
120 minute summer	4	66	0.077	0.1	0.0871	0.0000	OK	
120 minute summer	2.000:50%	66	0.109	9.8	0.4150	0.0000	OK	
120 minute summer	8	68	0.160	50.2	0.1810	0.0000	OK	
120 minute summer	1.004:50%	68	0.280	60.7	0.1559	0.0000	SURCHARGED	
120 minute summer	9	68	0.323	60.5	0.3655	0.0000	SURCHARGED	
120 minute summer	1.005:50%	94	0.319	63.3	0.0000	0.0000	SURCHARGED	
120 minute summer	10	2	0.000	0.0	0.0000	0.0000	OK	
120 minute summer	4.000:50%	66	0.046	9.2	0.0000	0.0000	OK	
120 minute summer	11	66	0.056	9.2	0.0630	0.0000	OK	
120 minute summer	4.001:50%	66	0.064	12.0	0.0000	0.0000	OK	
120 minute summer	12	92	0.509	12.0	0.5761	0.0000	SURCHARGED	
120 minute summer	4.002:50%	94	0.541	19.3	0.0000	0.0000	SURCHARGED	
120 minute summer	13	94	0.796	81.9	1.1388	0.0000	SURCHARGED	
120 minute summer	1.006:50%	92	0.803	93.4	0.0000	0.0000	SURCHARGED	
120 minute summer	14	94	0.811	92.9	123.6703	0.0000	SURCHARGED	
120 minute summer	14_OUT	2	0.000	16.8	0.0000	0.0000	OK	
120 minute summer	5	68	0.195	29.0	0.2210	0.0000	OK	
120 minute summer	2	68	0.153	0.3	0.1730	0.0000	SURCHARGED	
120 minute summer	1.001:50%	68	0.176	14.1	0.5419	0.0000	SURCHARGED	
120 minute summer	1	2	0.000	0.0	0.0000	0.0000	OK	
Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
120 minute summer	6	3.000	3.000:50%	0.0	0.000	0.000	0.0459	
120 minute summer	6	3.000	7	15.8	1.206	0.451	0.1451	
120 minute summer	7	3.001	3.001:50%	15.8	0.656	1.088	0.2443	
120 minute summer	7	3.001	8	21.3	0.935	1.467	0.2195	
120 minute summer	4	2.000	2.000:50%	0.1	0.019	0.012	0.1010	
120 minute summer	4	2.000	5	9.7	0.778	0.910	0.1103	
120 minute summer	8	1.004	1.004:50%	49.9	1.613	0.730	0.5362	
120 minute summer	8	1.004	9	60.5	1.520	0.884	0.6096	
120 minute summer	9	1.005	1.005:50%	60.5	1.238	1.274	0.4635	
120 minute summer	9	1.005	13	63.4	1.319	1.334	0.4635	
120 minute summer	10	4.000	4.000:50%	0.0	0.000	0.000	0.0274	
120 minute summer	10	4.000	11	9.2	1.753	0.204	0.0630	
120 minute summer	11	4.001	4.001:50%	9.2	1.399	0.293	0.1046	
120 minute summer	11	4.001	12	12.0	1.160	0.383	0.1972	
120 minute summer	12	4.002	4.002:50%	11.2	0.479	0.767	0.2554	
120 minute summer	12	4.002	13	18.8	0.849	1.289	0.2554	
120 minute summer	13	1.006	1.006:50%	81.1	0.648	1.071	0.9542	
120 minute summer	13	1.006	14	92.9	1.171	1.226	0.9542	
120 minute summer	14	Hydro-Brake®	14_OUT	16.8				
120 minute summer	5	1.003	8	29.1	0.914	1.208	0.2132	
120 minute summer	2	1.001	1.001:50%	0.5	-0.062	0.043	0.1093	
120 minute summer	2	1.001	3	13.5	0.782	1.259	0.1093	
120 minute summer	1	1.000	2	0.0	0.000	0.000	0.0634	

Results for 100 year +40% CC 120 minute summer. 360 minute analysis at 2 minute timestep. Mass balance: 99.97%

Node Event	US Node	Peak (mins)	Depth (m)	Inflow (l/s)	Node Vol (m ³)	Flood (m ³)	Status
120 minute summer	3	68	0.179	13.5	0.2025	0.0000	SURCHARGED
120 minute summer	1.002:50%	68	0.179	19.4	0.0000	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
120 minute summer	3	1.002	1.002:50%	13.6	0.571	0.944	0.2635	
120 minute summer	3	1.002	5	19.4	0.868	1.347	0.2485	

**Results for 100 year +40% CC 120 minute winter. 360 minute analysis at 2 minute timestep. Mass balance: 99.96%**

Node Event	US Node	Peak (mins)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
120 minute winter	6	2	0.000	0.0	0.0000	0.0000	OK
120 minute winter	3.000:50%	66	0.063	12.8	0.0047	0.0000	OK
120 minute winter	7	66	0.145	12.8	0.1644	0.0000	OK
120 minute winter	3.001:50%	66	0.150	17.3	0.0000	0.0000	OK
120 minute winter	4	66	0.063	0.1	0.0713	0.0000	OK
120 minute winter	2.000:50%	66	0.095	7.9	0.3157	0.0000	OK
120 minute winter	8	66	0.132	41.5	0.1493	0.0000	OK
120 minute winter	1.004:50%	66	0.153	50.3	0.0470	0.0000	OK
120 minute winter	9	98	0.391	50.2	0.4425	0.0000	SURCHARGED
120 minute winter	1.005:50%	100	0.433	52.6	0.0000	0.0000	SURCHARGED
120 minute winter	10	2	0.000	0.0	0.0000	0.0000	OK
120 minute winter	4.000:50%	66	0.041	7.5	0.0000	0.0000	OK
120 minute winter	11	66	0.050	7.5	0.0565	0.0000	OK
120 minute winter	4.001:50%	100	0.109	9.8	0.0000	0.0000	OK
120 minute winter	12	100	0.623	9.8	0.7046	0.0000	SURCHARGED
120 minute winter	4.002:50%	100	0.654	15.7	0.0000	0.0000	SURCHARGED
120 minute winter	13	100	0.909	67.9	1.3013	0.0000	SURCHARGED
120 minute winter	1.006:50%	98	0.917	77.3	0.0000	0.0000	SURCHARGED
120 minute winter	14	100	0.924	76.9	141.0066	0.0000	SURCHARGED
120 minute winter	14_OUT	2	0.000	16.8	0.0000	0.0000	OK
120 minute winter	5	66	0.165	24.2	0.1870	0.0000	OK
120 minute winter	2	66	0.103	0.1	0.1166	0.0000	OK
120 minute winter	1.001:50%	66	0.126	11.4	0.2782	0.0000	OK
120 minute winter	1	2	0.000	0.0	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
120 minute winter	6	3.000	3.000:50%	0.0	0.000	0.000	0.0393	
120 minute winter	6	3.000	7	12.8	1.207	0.365	0.1246	
120 minute winter	7	3.001	3.001:50%	12.8	0.591	0.881	0.2197	
120 minute winter	7	3.001	8	17.3	0.877	1.191	0.1983	
120 minute winter	4	2.000	2.000:50%	0.1	-0.025	0.006	0.0832	
120 minute winter	4	2.000	5	7.9	0.731	0.739	0.0955	
120 minute winter	8	1.004	1.004:50%	41.5	1.579	0.606	0.4065	
120 minute winter	8	1.004	9	50.2	1.464	0.735	0.5194	
120 minute winter	9	1.005	1.005:50%	50.2	1.068	1.057	0.4635	
120 minute winter	9	1.005	13	52.6	1.228	1.107	0.4635	
120 minute winter	10	4.000	4.000:50%	0.0	0.000	0.000	0.0237	
120 minute winter	10	4.000	11	7.5	1.656	0.166	0.0544	
120 minute winter	11	4.001	4.001:50%	7.5	1.322	0.239	0.1233	
120 minute winter	11	4.001	12	9.8	1.152	0.313	0.2486	
120 minute winter	12	4.002	4.002:50%	9.1	0.469	0.629	0.2554	
120 minute winter	12	4.002	13	15.3	0.803	1.055	0.2554	
120 minute winter	13	1.006	1.006:50%	67.4	0.554	0.889	0.9542	
120 minute winter	13	1.006	14	76.9	1.251	1.014	0.9542	
120 minute winter	14	Hydro-Brake®	14_OUT	16.8				227.3
120 minute winter	5	1.003	8	24.2	0.871	1.004	0.1769	
120 minute winter	2	1.001	1.001:50%	0.1	-0.072	0.011	0.0892	
120 minute winter	2	1.001	3	11.3	0.775	1.059	0.0923	
120 minute winter	1	1.000	2	0.0	0.000	0.000	0.0465	

**Results for 100 year +40% CC 120 minute winter. 360 minute analysis at 2 minute timestep. Mass balance: 99.96%**

Node Event	US Node	Peak (mins)	Depth (m)	Inflow (l/s)	Node Vol (m ³)	Flood (m ³)	Status
120 minute winter	3	66	0.135	11.3	0.1532	0.0000	OK
120 minute winter	1.002:50%	66	0.146	16.3	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
120 minute winter	3	1.002	1.002:50%	11.3	0.551	0.785	0.2261	
120 minute winter	3	1.002	5	16.3	0.851	1.131	0.2088	

Results for 100 year +40% CC 180 minute summer. 420 minute analysis at 4 minute timestep. Mass balance: 99.96%

Node Event	US Node	Peak (mins)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
180 minute summer	6	4	0.000	0.0	0.0000	0.0000	OK
180 minute summer	3.000:50%	96	0.061	12.2	0.0045	0.0000	OK
180 minute summer	7	96	0.138	12.2	0.1558	0.0000	OK
180 minute summer	3.001:50%	96	0.144	16.4	0.0000	0.0000	OK
180 minute summer	4	96	0.059	0.1	0.0669	0.0000	OK
180 minute summer	2.000:50%	96	0.091	7.5	0.2907	0.0000	OK
180 minute summer	8	96	0.126	39.0	0.1430	0.0000	OK
180 minute summer	1.004:50%	96	0.145	47.3	0.0418	0.0000	OK
180 minute summer	9	124	0.252	47.2	0.2847	0.0000	SURCHARGED
180 minute summer	1.005:50%	128	0.294	49.3	0.0000	0.0000	SURCHARGED
180 minute summer	10	4	0.000	0.0	0.0000	0.0000	OK
180 minute summer	4.000:50%	96	0.040	7.1	0.0000	0.0000	OK
180 minute summer	11	96	0.048	7.1	0.0548	0.0000	OK
180 minute summer	4.001:50%	96	0.055	9.2	0.0000	0.0000	OK
180 minute summer	12	128	0.484	9.1	0.5475	0.0000	SURCHARGED
180 minute summer	4.002:50%	128	0.515	14.7	0.0000	0.0000	SURCHARGED
180 minute summer	13	128	0.770	63.4	1.1017	0.0000	SURCHARGED
180 minute summer	1.006:50%	128	0.778	72.4	0.0000	0.0000	SURCHARGED
180 minute summer	14	128	0.785	72.0	119.7680	0.0000	SURCHARGED
180 minute summer	14_OUT	4	0.000	16.8	0.0000	0.0000	OK
180 minute summer	5	96	0.158	22.7	0.1790	0.0000	OK
180 minute summer	2	96	0.096	0.1	0.1082	0.0000	OK
180 minute summer	1.001:50%	96	0.119	10.9	0.2461	0.0000	OK
180 minute summer	1	4	0.000	0.0	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
180 minute summer	6	3.000	3.000:50%	0.0	0.000	0.000	0.0379	
180 minute summer	6	3.000	7	12.2	1.205	0.348	0.1179	
180 minute summer	7	3.001	3.001:50%	12.1	0.584	0.833	0.2101	
180 minute summer	7	3.001	8	16.3	0.861	1.123	0.1910	
180 minute summer	4	2.000	2.000:50%	-0.1	0.015	-0.006	0.0782	
180 minute summer	4	2.000	5	7.4	0.715	0.690	0.0912	
180 minute summer	8	1.004	1.004:50%	38.9	1.559	0.569	0.3828	
180 minute summer	8	1.004	9	47.2	1.465	0.689	0.4883	
180 minute summer	9	1.005	1.005:50%	47.0	1.049	0.989	0.4635	
180 minute summer	9	1.005	13	49.1	1.199	1.034	0.4635	
180 minute summer	10	4.000	4.000:50%	0.0	0.000	0.000	0.0227	
180 minute summer	10	4.000	11	7.1	1.630	0.157	0.0522	
180 minute summer	11	4.001	4.001:50%	7.1	1.306	0.225	0.0861	
180 minute summer	11	4.001	12	9.1	1.154	0.292	0.1869	
180 minute summer	12	4.002	4.002:50%	8.5	0.459	0.583	0.2554	
180 minute summer	12	4.002	13	14.3	0.773	0.983	0.2554	
180 minute summer	13	1.006	1.006:50%	62.9	0.502	0.830	0.9542	
180 minute summer	13	1.006	14	72.0	1.041	0.950	0.9542	
180 minute summer	14	Hydro-Brake®	14_OUT	16.8				226.4
180 minute summer	5	1.003	8	22.7	0.859	0.941	0.1684	
180 minute summer	2	1.001	1.001:50%	0.1	-0.032	0.013	0.0832	
180 minute summer	2	1.001	3	10.7	0.777	0.999	0.0863	
180 minute summer	1	1.000	2	0.0	0.000	0.000	0.0427	

**Results for 100 year +40% CC 180 minute summer. 420 minute analysis at 4 minute timestep. Mass balance: 99.96%**

Node Event	US Node	Peak (mins)	Depth (m)	Inflow (l/s)	Node Vol (m ³)	Flood (m ³)	Status
180 minute summer	3	96	0.128	10.7	0.1444	0.0000	OK
180 minute summer	1.002:50%	96	0.138	15.4	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
180 minute summer	3	1.002	1.002:50%	10.6	0.544	0.737	0.2144	
180 minute summer	3	1.002	5	15.3	0.840	1.064	0.1988	

**Results for 100 year +40% CC 180 minute winter. 420 minute analysis at 4 minute timestep. Mass balance: 99.97%**

Node Event	US Node	Peak (mins)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	
180 minute winter	6	4	0.000	0.0	0.0000	0.0000	OK	
180 minute winter	3.000:50%	96	0.054	9.6	0.0035	0.0000	OK	
180 minute winter	7	96	0.114	9.6	0.1293	0.0000	OK	
180 minute winter	3.001:50%	96	0.122	13.0	0.0000	0.0000	OK	
180 minute winter	4	96	0.048	0.0	0.0538	0.0000	OK	
180 minute winter	2.000:50%	96	0.080	5.9	0.2212	0.0000	OK	
180 minute winter	8	96	0.110	31.1	0.1239	0.0000	OK	
180 minute winter	1.004:50%	96	0.122	37.7	0.0298	0.0000	OK	
180 minute winter	9	136	0.353	37.7	0.3992	0.0000	SURCHARGED	
180 minute winter	1.005:50%	140	0.394	39.4	0.0000	0.0000	SURCHARGED	
180 minute winter	10	4	0.000	0.0	0.0000	0.0000	OK	
180 minute winter	4.000:50%	96	0.036	5.6	0.0000	0.0000	OK	
180 minute winter	11	96	0.043	5.6	0.0485	0.0000	OK	
180 minute winter	4.001:50%	140	0.070	7.3	0.0000	0.0000	OK	
180 minute winter	12	140	0.585	7.3	0.6614	0.0000	SURCHARGED	
180 minute winter	4.002:50%	140	0.616	11.7	0.0000	0.0000	SURCHARGED	
180 minute winter	13	140	0.871	50.8	1.2465	0.0000	SURCHARGED	
180 minute winter	1.006:50%	140	0.878	57.8	0.0000	0.0000	SURCHARGED	
180 minute winter	14	140	0.886	57.6	135.1678	0.0000	SURCHARGED	
180 minute winter	14_OUT	4	0.000	16.8	0.0000	0.0000	OK	
180 minute winter	5	96	0.137	18.2	0.1549	0.0000	OK	
180 minute winter	2	96	0.076	0.1	0.0862	0.0000	OK	
180 minute winter	1.001:50%	96	0.099	8.6	0.1723	0.0000	OK	
180 minute winter	1	4	0.000	0.0	0.0000	0.0000	OK	
Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
180 minute winter	6	3.000	3.000:50%	0.0	0.000	0.000	0.0318	
180 minute winter	6	3.000	7	9.6	1.203	0.274	0.0934	
180 minute winter	7	3.001	3.001:50%	9.6	0.554	0.660	0.1752	
180 minute winter	7	3.001	8	13.0	0.801	0.892	0.1637	
180 minute winter	4	2.000	2.000:50%	0.0	0.012	0.003	0.0632	
180 minute winter	4	2.000	5	5.9	0.669	0.550	0.0777	
180 minute winter	8	1.004	1.004:50%	31.1	1.511	0.455	0.3155	
180 minute winter	8	1.004	9	37.7	1.451	0.551	0.4421	
180 minute winter	9	1.005	1.005:50%	37.6	0.995	0.792	0.4635	
180 minute winter	9	1.005	13	39.4	1.112	0.829	0.4635	
180 minute winter	10	4.000	4.000:50%	0.0	0.000	0.000	0.0192	
180 minute winter	10	4.000	11	5.6	1.523	0.124	0.0441	
180 minute winter	11	4.001	4.001:50%	5.6	1.220	0.178	0.0777	
180 minute winter	11	4.001	12	7.3	1.148	0.232	0.2037	
180 minute winter	12	4.002	4.002:50%	6.8	0.440	0.469	0.2554	
180 minute winter	12	4.002	13	11.5	0.720	0.787	0.2554	
180 minute winter	13	1.006	1.006:50%	50.4	0.493	0.665	0.9542	
180 minute winter	13	1.006	14	57.6	1.058	0.760	0.9542	
180 minute winter	14	Hydro-Brake®	14_OUT	16.8				253.9
180 minute winter	5	1.003	8	18.2	0.817	0.754	0.1418	
180 minute winter	2	1.001	1.001:50%	0.1	-0.042	0.005	0.0663	
180 minute winter	2	1.001	3	8.6	0.753	0.798	0.0705	
180 minute winter	1	1.000	2	0.0	0.000	0.000	0.0324	

**Results for 100 year +40% CC 180 minute winter. 420 minute analysis at 4 minute timestep. Mass balance: 99.97%**

Node Event	US Node	Peak (mins)	Depth (m)	Inflow (l/s)	Node Vol (m ³)	Flood (m ³)	Status
180 minute winter	3	96	0.107	8.6	0.1212	0.0000	OK
180 minute winter	1.002:50%	96	0.119	12.3	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
180 minute winter	3	1.002	1.002:50%	8.5	0.520	0.592	0.1796	
180 minute winter	3	1.002	5	12.3	0.785	0.853	0.1712	

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

Node Event	US Node	Peak (mins)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
240 minute summer	6	4	0.000	0.0	0.0000	0.0000	OK
240 minute summer	3.000:50%	128	0.055	10.0	0.0036	0.0000	OK
240 minute summer	7	128	0.118	10.0	0.1333	0.0000	OK
240 minute summer	3.001:50%	128	0.126	13.5	0.0000	0.0000	OK
240 minute summer	4	128	0.050	0.0	0.0566	0.0000	OK
240 minute summer	2.000:50%	128	0.082	6.2	0.2357	0.0000	OK
240 minute summer	8	128	0.113	32.6	0.1275	0.0000	OK
240 minute summer	1.004:50%	128	0.126	39.5	0.0318	0.0000	OK
240 minute summer	9	160	0.212	39.5	0.2396	0.0000	OK
240 minute summer	1.005:50%	160	0.254	41.4	0.0000	0.0000	SURCHARGED
240 minute summer	10	4	0.000	0.0	0.0000	0.0000	OK
240 minute summer	4.000:50%	128	0.037	5.9	0.0000	0.0000	OK
240 minute summer	11	128	0.044	5.9	0.0499	0.0000	OK
240 minute summer	4.001:50%	128	0.051	7.7	0.0000	0.0000	OK
240 minute summer	12	160	0.445	7.7	0.5028	0.0000	SURCHARGED
240 minute summer	4.002:50%	164	0.476	12.3	0.0000	0.0000	SURCHARGED
240 minute summer	13	164	0.731	53.4	1.0464	0.0000	SURCHARGED
240 minute summer	1.006:50%	164	0.738	60.8	0.0000	0.0000	SURCHARGED
240 minute summer	14	164	0.746	60.5	113.8021	0.0000	SURCHARGED
240 minute summer	14_OUT	4	0.000	16.8	0.0000	0.0000	OK
240 minute summer	5	128	0.141	19.1	0.1596	0.0000	OK
240 minute summer	2	128	0.079	0.1	0.0897	0.0000	OK
240 minute summer	1.001:50%	128	0.102	9.0	0.1834	0.0000	OK
240 minute summer	1	4	0.000	0.0	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
240 minute summer	6	3.000	3.000:50%	0.0	0.000	0.000	0.0328	
240 minute summer	6	3.000	7	10.0	1.203	0.285	0.0973	
240 minute summer	7	3.001	3.001:50%	10.0	0.560	0.689	0.1809	
240 minute summer	7	3.001	8	13.5	0.812	0.930	0.1683	
240 minute summer	4	2.000	2.000:50%	0.1	0.013	0.005	0.0665	
240 minute summer	4	2.000	5	6.2	0.680	0.581	0.0807	
240 minute summer	8	1.004	1.004:50%	32.6	1.523	0.476	0.3279	
240 minute summer	8	1.004	9	39.5	1.455	0.577	0.4143	
240 minute summer	9	1.005	1.005:50%	39.5	1.006	0.831	0.4412	
240 minute summer	9	1.005	13	41.4	1.130	0.871	0.4635	
240 minute summer	10	4.000	4.000:50%	0.0	0.000	0.000	0.0200	
240 minute summer	10	4.000	11	5.9	1.547	0.131	0.0458	
240 minute summer	11	4.001	4.001:50%	5.9	1.238	0.188	0.0758	
240 minute summer	11	4.001	12	7.7	1.153	0.246	0.1814	
240 minute summer	12	4.002	4.002:50%	7.2	0.444	0.496	0.2554	
240 minute summer	12	4.002	13	12.0	0.730	0.827	0.2554	
240 minute summer	13	1.006	1.006:50%	53.0	0.427	0.699	0.9542	
240 minute summer	13	1.006	14	60.5	1.004	0.798	0.9542	
240 minute summer	14	Hydro-Brake®	14_OUT	16.8				243.8
240 minute summer	5	1.003	8	19.1	0.828	0.792	0.1470	
240 minute summer	2	1.001	1.001:50%	-0.1	-0.038	-0.006	0.0691	
240 minute summer	2	1.001	3	9.0	0.766	0.840	0.0729	
240 minute summer	1	1.000	2	0.0	0.000	0.000	0.0340	

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

Node Event	US Node	Peak (mins)	Depth (m)	Inflow (l/s)	Node Vol (m ³)	Flood (m ³)	Status
240 minute summer	3	128	0.111	9.0	0.1257	0.0000	OK
240 minute summer	1.002:50%	128	0.123	12.9	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
240 minute summer	3	1.002	1.002:50%	9.0	0.527	0.623	0.1865	
240 minute summer	3	1.002	5	12.9	0.797	0.894	0.1768	

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

Node Event	US Node	Peak (mins)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	
240 minute winter	6	4	0.000	0.0	0.0000	0.0000	OK	
240 minute winter	3.000:50%	128	0.048	7.7	0.0028	0.0000	OK	
240 minute winter	7	128	0.098	7.7	0.1108	0.0000	OK	
240 minute winter	3.001:50%	128	0.107	10.4	0.0000	0.0000	OK	
240 minute winter	4	128	0.039	0.0	0.0441	0.0000	OK	
240 minute winter	2.000:50%	128	0.071	4.8	0.1755	0.0000	OK	
240 minute winter	8	128	0.096	25.1	0.1090	0.0000	OK	
240 minute winter	1.004:50%	128	0.106	30.4	0.0226	0.0000	OK	
240 minute winter	9	176	0.290	30.4	0.3280	0.0000	SURCHARGED	
240 minute winter	1.005:50%	176	0.332	31.9	0.0000	0.0000	SURCHARGED	
240 minute winter	10	4	0.000	0.0	0.0000	0.0000	OK	
240 minute winter	4.000:50%	128	0.032	4.5	0.0000	0.0000	OK	
240 minute winter	11	128	0.038	4.5	0.0435	0.0000	OK	
240 minute winter	4.001:50%	128	0.044	5.9	0.0000	0.0000	OK	
240 minute winter	12	176	0.522	5.9	0.5909	0.0000	SURCHARGED	
240 minute winter	4.002:50%	176	0.554	9.6	0.0000	0.0000	SURCHARGED	
240 minute winter	13	176	0.808	41.3	1.1568	0.0000	SURCHARGED	
240 minute winter	1.006:50%	176	0.816	47.0	0.0000	0.0000	SURCHARGED	
240 minute winter	14	176	0.823	46.8	125.6033	0.0000	SURCHARGED	
240 minute winter	14_OUT	4	0.000	16.8	0.0000	0.0000	OK	
240 minute winter	5	128	0.120	14.7	0.1362	0.0000	OK	
240 minute winter	2	128	0.064	0.0	0.0724	0.0000	OK	
240 minute winter	1.001:50%	128	0.087	6.9	0.1325	0.0000	OK	
240 minute winter	1	4	0.000	0.0	0.0000	0.0000	OK	
Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
240 minute winter	6	3.000	3.000:50%	0.0	0.000	0.000	0.0272	
240 minute winter	6	3.000	7	7.7	1.204	0.220	0.0751	
240 minute winter	7	3.001	3.001:50%	7.7	0.528	0.530	0.1479	
240 minute winter	7	3.001	8	10.4	0.749	0.716	0.1408	
240 minute winter	4	2.000	2.000:50%	0.0	-0.014	0.002	0.0523	
240 minute winter	4	2.000	5	4.8	0.632	0.450	0.0673	
240 minute winter	8	1.004	1.004:50%	25.1	1.447	0.367	0.2660	
240 minute winter	8	1.004	9	30.4	1.423	0.445	0.4060	
240 minute winter	9	1.005	1.005:50%	30.4	0.945	0.640	0.4635	
240 minute winter	9	1.005	13	31.9	1.039	0.671	0.4635	
240 minute winter	10	4.000	4.000:50%	0.0	0.000	0.000	0.0165	
240 minute winter	10	4.000	11	4.5	1.431	0.100	0.0378	
240 minute winter	11	4.001	4.001:50%	4.5	1.144	0.144	0.0626	
240 minute winter	11	4.001	12	5.9	1.151	0.188	0.1742	
240 minute winter	12	4.002	4.002:50%	5.6	0.424	0.383	0.2554	
240 minute winter	12	4.002	13	9.4	0.689	0.644	0.2554	
240 minute winter	13	1.006	1.006:50%	41.0	0.451	0.541	0.9542	
240 minute winter	13	1.006	14	46.8	0.987	0.617	0.9542	
240 minute winter	14	Hydro-Brake®	14_OUT	16.8				273.0
240 minute winter	5	1.003	8	14.7	0.777	0.610	0.1207	
240 minute winter	2	1.001	1.001:50%	0.0	-0.038	0.003	0.0552	
240 minute winter	2	1.001	3	6.9	0.705	0.644	0.0608	
240 minute winter	1	1.000	2	0.0	0.000	0.000	0.0258	

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

Node Event	US Node	Peak (mins)	Depth (m)	Inflow (l/s)	Node Vol (m ³)	Flood (m ³)	Status
240 minute winter	3	128	0.092	6.9	0.1041	0.0000	OK
240 minute winter	1.002:50%	128	0.104	9.9	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
240 minute winter	3	1.002	1.002:50%	6.9	0.498	0.478	0.1515	
240 minute winter	3	1.002	5	9.9	0.735	0.686	0.1473	

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

Node Event	US Node	Peak (mins)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
360 minute summer	6	8	0.000	0.0	0.0000	0.0000	OK
360 minute summer	3.000:50%	192	0.047	7.4	0.0026	0.0000	OK
360 minute summer	7	192	0.095	7.4	0.1079	0.0000	OK
360 minute summer	3.001:50%	192	0.104	10.0	0.0000	0.0000	OK
360 minute summer	4	192	0.036	0.0	0.0411	0.0000	OK
360 minute summer	2.000:50%	192	0.068	4.5	0.1635	0.0000	OK
360 minute summer	8	192	0.094	24.0	0.1062	0.0000	OK
360 minute summer	1.004:50%	192	0.103	29.0	0.0214	0.0000	OK
360 minute summer	9	192	0.152	29.0	0.1722	0.0000	OK
360 minute summer	1.005:50%	232	0.163	30.4	0.0000	0.0000	OK
360 minute summer	10	8	0.000	0.0	0.0000	0.0000	OK
360 minute summer	4.000:50%	192	0.031	4.3	0.0000	0.0000	OK
360 minute summer	11	192	0.038	4.3	0.0425	0.0000	OK
360 minute summer	4.001:50%	192	0.043	5.6	0.0000	0.0000	OK
360 minute summer	12	232	0.354	5.6	0.4009	0.0000	SURCHARGED
360 minute summer	4.002:50%	232	0.386	9.1	0.0000	0.0000	SURCHARGED
360 minute summer	13	232	0.641	39.3	0.9170	0.0000	SURCHARGED
360 minute summer	1.006:50%	232	0.648	44.7	0.0000	0.0000	SURCHARGED
360 minute summer	14	232	0.656	44.5	100.0413	0.0000	SURCHARGED
360 minute summer	14_OUT	8	0.000	16.8	0.0000	0.0000	OK
360 minute summer	5	192	0.117	14.0	0.1326	0.0000	OK
360 minute summer	2	192	0.062	0.0	0.0699	0.0000	OK
360 minute summer	1.001:50%	192	0.085	6.6	0.1258	0.0000	OK
360 minute summer	1	8	0.000	0.0	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
360 minute summer	6	3.000	3.000:50%	0.0	0.000	0.000	0.0264	
360 minute summer	6	3.000	7	7.4	1.201	0.211	0.0721	
360 minute summer	7	3.001	3.001:50%	7.4	0.523	0.510	0.1435	
360 minute summer	7	3.001	8	10.0	0.740	0.689	0.1370	
360 minute summer	4	2.000	2.000:50%	0.0	-0.010	0.002	0.0492	
360 minute summer	4	2.000	5	4.5	0.620	0.422	0.0643	
360 minute summer	8	1.004	1.004:50%	24.0	1.434	0.351	0.2566	
360 minute summer	8	1.004	9	29.0	1.416	0.424	0.3138	
360 minute summer	9	1.005	1.005:50%	29.0	0.935	0.610	0.2941	
360 minute summer	9	1.005	13	30.4	1.024	0.640	0.3651	
360 minute summer	10	4.000	4.000:50%	0.0	0.000	0.000	0.0159	
360 minute summer	10	4.000	11	4.3	1.412	0.095	0.0366	
360 minute summer	11	4.001	4.001:50%	4.3	1.133	0.137	0.0604	
360 minute summer	11	4.001	12	5.6	1.138	0.179	0.1729	
360 minute summer	12	4.002	4.002:50%	5.3	0.422	0.367	0.2554	
360 minute summer	12	4.002	13	8.9	0.682	0.610	0.2554	
360 minute summer	13	1.006	1.006:50%	39.0	0.371	0.515	0.9542	
360 minute summer	13	1.006	14	44.5	0.825	0.587	0.9542	
360 minute summer	14	Hydro-Brake®	14_OUT	16.8				267.5
360 minute summer	5	1.003	8	14.0	0.766	0.581	0.1167	
360 minute summer	2	1.001	1.001:50%	0.0	0.029	0.003	0.0531	
360 minute summer	2	1.001	3	6.6	0.695	0.616	0.0589	
360 minute summer	1	1.000	2	0.0	0.000	0.000	0.0246	

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

Node Event	US Node	Peak (mins)	Depth (m)	Inflow (l/s)	Node Vol (m ³)	Flood (m ³)	Status
360 minute summer	3	192	0.089	6.6	0.1011	0.0000	OK
360 minute summer	1.002:50%	192	0.102	9.5	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
360 minute summer	3	1.002	1.002:50%	6.6	0.492	0.457	0.1466	
360 minute summer	3	1.002	5	9.5	0.726	0.658	0.1431	

**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)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	
360 minute winter	6	8	0.000	0.0	0.0000	0.0000	OK	
360 minute winter	3.000:50%	192	0.041	5.7	0.0020	0.0000	OK	
360 minute winter	7	192	0.081	5.7	0.0912	0.0000	OK	
360 minute winter	3.001:50%	192	0.090	7.7	0.0000	0.0000	OK	
360 minute winter	4	192	0.028	0.0	0.0312	0.0000	OK	
360 minute winter	2.000:50%	192	0.060	3.5	0.1241	0.0000	OK	
360 minute winter	8	192	0.081	18.5	0.0917	0.0000	OK	
360 minute winter	1.004:50%	192	0.089	22.4	0.0159	0.0000	OK	
360 minute winter	9	248	0.150	22.4	0.1696	0.0000	OK	
360 minute winter	1.005:50%	248	0.193	23.5	0.0000	0.0000	OK	
360 minute winter	10	8	0.000	0.0	0.0000	0.0000	OK	
360 minute winter	4.000:50%	192	0.028	3.3	0.0000	0.0000	OK	
360 minute winter	11	192	0.033	3.3	0.0372	0.0000	OK	
360 minute winter	4.001:50%	192	0.038	4.3	0.0000	0.0000	OK	
360 minute winter	12	248	0.385	4.3	0.4352	0.0000	SURCHARGED	
360 minute winter	4.002:50%	248	0.416	7.0	0.0000	0.0000	SURCHARGED	
360 minute winter	13	248	0.671	30.4	0.9602	0.0000	SURCHARGED	
360 minute winter	1.006:50%	248	0.679	34.6	0.0000	0.0000	SURCHARGED	
360 minute winter	14	248	0.686	34.5	104.6313	0.0000	SURCHARGED	
360 minute winter	14_OUT	8	0.000	16.8	0.0000	0.0000	OK	
360 minute winter	5	192	0.101	10.8	0.1145	0.0000	OK	
360 minute winter	2	192	0.050	0.0	0.0567	0.0000	OK	
360 minute winter	1.001:50%	192	0.073	5.1	0.0936	0.0000	OK	
360 minute winter	1	8	0.000	0.0	0.0000	0.0000	OK	
Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
360 minute winter	6	3.000	3.000:50%	0.0	0.000	0.000	0.0219	
360 minute winter	6	3.000	7	5.7	1.200	0.163	0.0554	
360 minute winter	7	3.001	3.001:50%	5.7	0.492	0.393	0.1175	
360 minute winter	7	3.001	8	7.7	0.684	0.530	0.1142	
360 minute winter	4	2.000	2.000:50%	0.0	0.008	0.001	0.0387	
360 minute winter	4	2.000	5	3.5	0.577	0.328	0.0538	
360 minute winter	8	1.004	1.004:50%	18.5	1.345	0.270	0.2109	
360 minute winter	8	1.004	9	22.4	1.376	0.327	0.2497	
360 minute winter	9	1.005	1.005:50%	22.4	0.881	0.472	0.3372	
360 minute winter	9	1.005	13	23.5	0.954	0.495	0.4195	
360 minute winter	10	4.000	4.000:50%	0.0	0.000	0.000	0.0132	
360 minute winter	10	4.000	11	3.3	1.307	0.073	0.0303	
360 minute winter	11	4.001	4.001:50%	3.3	1.049	0.105	0.0500	
360 minute winter	11	4.001	12	4.3	1.144	0.137	0.1672	
360 minute winter	12	4.002	4.002:50%	4.1	0.408	0.281	0.2554	
360 minute winter	12	4.002	13	6.9	0.646	0.472	0.2554	
360 minute winter	13	1.006	1.006:50%	30.2	0.401	0.398	0.9542	
360 minute winter	13	1.006	14	34.5	0.834	0.455	0.9542	
360 minute winter	14	Hydro-Brake®	14_OUT	16.8				300.8
360 minute winter	5	1.003	8	10.8	0.717	0.448	0.0963	
360 minute winter	2	1.001	1.001:50%	0.0	0.013	0.002	0.0425	
360 minute winter	2	1.001	3	5.1	0.644	0.476	0.0492	
360 minute winter	1	1.000	2	0.0	0.000	0.000	0.0186	

**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)	Depth (m)	Inflow (l/s)	Node Vol (m ³)	Flood (m ³)	Status
360 minute winter	3	192	0.076	5.1	0.0855	0.0000	OK
360 minute winter	1.002:50%	192	0.087	7.3	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
360 minute winter	3	1.002	1.002:50%	5.1	0.466	0.353	0.1198	
360 minute winter	3	1.002	5	7.3	0.672	0.506	0.1189	