

**Design Settings**

Rainfall Methodology	FSR	Maximum Time of Concentration (mins)	45.00
Return Period (years)	5	Maximum Rainfall (mm/hr)	50.0
Additional Flow (%)	0	Minimum Velocity (m/s)	0.70
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)	1.200
CV	0.750	Include Intermediate Ground	✓
Time of Entry (mins)	25.00	Enforce best practice design rules	x

Nodes

Name	Area (ha)	T of E (mins)	Cover Level (m)	Diameter (mm)	Depth (m)
✓ 26			57.329	1200	3.331
✓ 27			56.248	1200	2.334
✓ 28			54.783	1200	1.637
✓ 15		25.00	58.670	1200	1.350
✓ 16			58.953	1200	1.747
✓ 17			57.554	1200	1.350
✓ 18			56.977	1200	1.590
✓ 7		25.00	61.718	1200	1.602
✓ 8			61.000	1200	1.423
✓ 9		25.00	60.930	1200	1.350
✓ 10			60.285	1200	1.350
✓ 13			58.405	1200	2.131
✓ 12			57.776	1200	1.350
✓ 11		25.00	59.466	1200	1.320
✓ 2			61.778	1200	1.612
✓ 1		25.00	62.418	1200	1.350
✓ 14			58.462	1200	2.353
✓ 20			56.902	1200	2.181
✓ 19			56.735	1350	1.519
✓ 22		25.00	56.017	1200	1.350
✓ 23			55.575	1200	1.400
✓ 28_OUT			54.829	1200	1.715
✓ 30_OUT			54.788	1200	1.914
✓ 21			56.032	1350	1.797
✓ 21_OUT	0.084	15.00	55.944	1350	2.759
✓ 3			59.933	1200	1.848
✓ 6			59.171	1200	1.590
✓ 4			58.984	1200	1.375
✓ 5		25.00	61.124	1200	1.350
✓ 30			55.020	2100	2.129
✓ 29		25.00	55.288	1200	2.174
✓ 25		25.00	57.902	1200	1.350
✓ 24			57.498	1200	3.433

**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)
✓	7.005	28	28_OUT	0.703	49.7	43.6	1.337	1.415	0.540	219	0.789
✓	7.004	27	28	1.688	82.9	44.0	2.084	1.337	0.540	129	1.712
?	7.003	26	27	0.702	34.5	31.2	3.081	2.084	0.379	187	0.792
?	7.002	24	26	0.717	22.5	19.8	3.233	3.081	0.235	146	0.807
✓	8.000	25	26	1.505	26.6	1.8	1.200	1.200	0.021	27	0.865
?	7.001	23	24	0.700	22.0	19.8	1.200	3.233	0.235	149	0.790
✓	7.000	22	23	1.292	22.8	9.3	1.200	1.200	0.108	67	1.226
✓	1.010	21	21_OUT	0.720	114.6	97.9	1.347	1.275	1.210	321	0.805
✓	1.009	20	21	2.056	145.3	98.6	1.881	1.347	1.210	181	2.203
✓	1.008	19	20	2.511	177.5	91.0	1.219	1.881	1.113	152	2.525
✓	1.007	18	19	1.873	132.4	87.2	1.290	1.219	1.063	178	1.994
✓	6.002	17	18	2.625	46.4	26.1	1.200	1.290	0.309	81	2.702
✓	1.006	14	18	1.778	70.7	60.2	2.128	1.290	0.732	160	1.989
✓	1.005	13	14	2.360	74.1	55.0	1.931	2.128	0.663	129	2.577
✓	5.001	12	13	0.702	12.4	4.0	1.200	1.931	0.048	59	0.628
✓	3.002	10	13	1.756	31.0	22.1	1.200	1.200	0.263	93	1.902
✓	1.004	6	13	1.468	35.3	29.2	1.415	1.200	0.352	122	1.637
✓	2.000	5	6	1.963	34.7	14.9	1.200	1.200	0.173	68	1.885
✓	1.003	4	6	0.708	17.0	13.5	1.200	1.415	0.161	118	0.784
✓	1.002	3	4	1.402	24.8	9.7	1.698	1.200	0.115	65	1.319
✓	1.001	2	3	1.734	30.6	5.3	1.462	1.698	0.063	42	1.309
✓	1.000	1	2	1.902	33.6	2.2	1.200	1.462	0.025	26	1.079
✓	4.000	9	10	1.756	31.0	5.9	1.200	1.200	0.068	44	1.356
✓	3.001	8	10	1.430	25.3	6.9	1.273	1.200	0.081	54	1.222
✓	3.000	7	8	1.532	27.1	7.0	1.452	1.273	0.081	52	1.287
?	5.000	11	12	1.803	31.9	3.4	1.170	1.200	0.039	33	1.181
✓	6.001	16	17	1.507	26.6	24.8	1.597	1.200	0.294	115	1.707
✓	6.000	15	16	0.702	12.4	8.4	1.200	1.597	0.098	91	0.754
✓	9.001	30	30_OUT	0.709	50.1	0.0	1.829	1.614	0.000	0	0.000
✓	9.000	29	30	0.702	12.4	0.0	2.024	1.829	0.000	0	0.000

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 (m³/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

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 30 Online Hydro-Brake® Control**

Flap Valve	x	Objective	(HE) Minimise upstream storage
Replaces Downstream Link	✓	Sump Available	✓
Invert Level (m)	52.891	Product Number	CTL-SHE-0233-3400-2200-3400
Design Depth (m)	2.200	Min Outlet Diameter (m)	0.300
Design Flow (l/s)	34.0	Min Node Diameter (mm)	2100

Node 29 Flow through Pond Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Porosity	1.00	Main Channel Length (m)	71.000
Side Inf Coefficient (m/hr)	0.00000	Invert Level (m)	53.114	Main Channel Slope (1:X)	1000.0
Safety Factor	2.0	Time to half empty (mins)	56	Main Channel n	0.025

Inlets

21_OUT | 28_OUT

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	500.3	0.0	0.600	800.5	0.0	1.300	1438.8	0.0

**Results for 2 year Critical Storm Duration. Lowest mass balance: 99.85%**

Node Event	US Node	Peak (mins)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)
30 minute winter	26	28	0.121	15.0	0.1371	0.0000
30 minute winter	7.003:50%	28	0.132	22.2	0.0000	0.0000
30 minute winter	27	29	0.088	22.1	0.0991	0.0000
30 minute winter	7.004:50%	29	0.106	31.5	0.2043	0.0000
120 minute winter	28	104	0.292	23.2	0.3305	0.0000
30 minute winter	15	26	0.015	0.1	0.0166	0.0000
30 minute winter	6.000:50%	27	0.072	5.7	0.0000	0.0000
30 minute winter	16	27	0.047	5.7	0.0533	0.0000
30 minute winter	6.001:50%	28	0.094	17.2	0.0000	0.0000
30 minute winter	17	28	0.067	17.2	0.0757	0.0000
30 minute winter	6.002:50%	28	0.070	18.1	0.0905	0.0000
30 minute winter	18	28	0.160	60.9	0.1813	0.0000
30 minute winter	1.007:50%	29	0.158	62.1	0.3904	0.0000
15 minute summer	7	1	0.000	0.0	0.0000	0.0000
30 minute winter	3.000:50%	26	0.043	4.7	0.0000	0.0000
30 minute winter	8	28	0.044	4.7	0.0496	0.0000
15 minute summer	9	1	0.000	0.0	0.0000	0.0000
30 minute winter	4.000:50%	29	0.036	4.0	0.0491	0.0000
30 minute winter	10	29	0.054	8.7	0.0615	0.0000
30 minute winter	3.002:50%	28	0.076	15.4	0.0000	0.0000
30 minute winter	13	28	0.131	38.7	0.1484	0.0000
30 minute winter	12	29	0.044	2.3	0.0499	0.0000
30 minute winter	5.001:50%	30	0.048	2.8	0.0339	0.0000
15 minute summer	11	1	0.000	0.0	0.0000	0.0000
30 minute winter	5.000:50%	29	0.027	2.3	0.0000	0.0000

US Node	Peak (mins)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)
26	28	0.121	15.0	0.1371	0.0000
7.003:50%	28	0.132	22.2	0.0000	0.0000
27	29	0.088	22.1	0.0991	0.0000
7.004:50%	29	0.106	31.5	0.2043	0.0000
28	104	0.292	23.2	0.3305	0.0000
15	26	0.015	0.1	0.0166	0.0000
6.000:50%	27	0.072	5.7	0.0000	0.0000
16	27	0.047	5.7	0.0533	0.0000
6.001:50%	28	0.094	17.2	0.0000	0.0000
17	28	0.067	17.2	0.0757	0.0000
6.002:50%	28	0.070	18.1	0.0905	0.0000
18	28	0.160	60.9	0.1813	0.0000
1.007:50%	29	0.158	62.1	0.3904	0.0000
7	1	0.000	0.0	0.0000	0.0000
3.000:50%	26	0.043	4.7	0.0000	0.0000
8	28	0.044	4.7	0.0496	0.0000
9	1	0.000	0.0	0.0000	0.0000
4.000:50%	29	0.036	4.0	0.0491	0.0000
10	29	0.054	8.7	0.0615	0.0000
3.002:50%	28	0.076	15.4	0.0000	0.0000
13	28	0.131	38.7	0.1484	0.0000
12	29	0.044	2.3	0.0499	0.0000
5.001:50%	30	0.048	2.8	0.0339	0.0000
11	1	0.000	0.0	0.0000	0.0000
5.000:50%	29	0.027	2.3	0.0000	0.0000

**Results for 2 year Critical Storm Duration. Lowest mass balance: 99.85%**

Node Event	US Node	Peak (mins)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)
30 minute winter	2	30	0.023	1.5	0.0256	0.0000
30 minute winter	1.001:50%	30	0.035	3.7	0.0161	0.0000
15 minute summer	1	1	0.000	0.0	0.0000	0.0000
30 minute winter	1.000:50%	26	0.022	1.5	0.0024	0.0000
30 minute winter	14	28	0.122	38.7	0.1382	0.0000
30 minute winter	1.006:50%	28	0.131	42.8	0.3096	0.0000
30 minute winter	20	29	0.152	65.0	0.1724	0.0000
30 minute winter	1.009:50%	29	0.159	70.7	0.0136	0.0000
30 minute winter	19	29	0.130	62.1	0.1866	0.0000
30 minute winter	1.008:50%	29	0.133	65.0	0.0000	0.0000
15 minute summer	22	1	0.000	0.0	0.0000	0.0000
30 minute winter	7.000:50%	28	0.055	6.3	0.0000	0.0000
30 minute winter	23	28	0.076	6.3	0.0855	0.0000
30 minute winter	7.001:50%	28	0.118	13.8	0.0000	0.0000
120 minute winter	28_OUT	106	0.323	22.8	0.3658	0.0000
15 minute summer	30_OUT	1	0.000	17.0	0.0000	0.0000
30 minute winter	21	29	0.228	70.7	0.3268	0.0000
60 minute winter	21_OUT	47	0.305	72.6	0.4360	0.0000
30 minute winter	3	30	0.039	3.7	0.0443	0.0000
30 minute winter	1.002:50%	30	0.053	6.7	0.0000	0.0000
30 minute winter	6	28	0.095	19.6	0.1079	0.0000

US Node	Peak (mins)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)
2	30	0.023	1.5	0.0256	0.0000
1.001:50%	30	0.035	3.7	0.0161	0.0000
1	1	0.000	0.0	0.0000	0.0000
1.000:50%	26	0.022	1.5	0.0024	0.0000
14	28	0.122	38.7	0.1382	0.0000
1.006:50%	28	0.131	42.8	0.3096	0.0000
20	29	0.152	65.0	0.1724	0.0000
1.009:50%	29	0.159	70.7	0.0136	0.0000
19	29	0.130	62.1	0.1866	0.0000
1.008:50%	29	0.133	65.0	0.0000	0.0000
22	1	0.000	0.0	0.0000	0.0000
7.000:50%	28	0.055	6.3	0.0000	0.0000
23	28	0.076	6.3	0.0855	0.0000
7.001:50%	28	0.118	13.8	0.0000	0.0000
28_OUT	106	0.323	22.8	0.3658	0.0000
30_OUT	1	0.000	17.0	0.0000	0.0000
21	29	0.228	70.7	0.3268	0.0000
21_OUT	47	0.305	72.6	0.4360	0.0000
3	30	0.039	3.7	0.0443	0.0000
1.002:50%	30	0.053	6.7	0.0000	0.0000
6	28	0.095	19.6	0.1079	0.0000

**Results for 2 year Critical Storm Duration. Lowest mass balance: 99.85%**

Node Event	US Node	Peak (mins)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)
30 minute winter	1.004:50%	29	0.099	20.6	0.0000	0.0000
30 minute winter	4	29	0.093	6.7	0.1056	0.0000
30 minute winter	1.003:50%	29	0.100	9.4	0.1680	0.0000
15 minute summer	5	1	0.000	0.0	0.0000	0.0000
30 minute winter	2.000:50%	28	0.056	10.2	0.1179	0.0000
120 minute winter	30	110	0.189	21.9	0.6564	0.0000
120 minute winter	29	108	0.321	48.4	0.3626	0.0000
15 minute summer	25	1	0.000	0.0	0.0000	0.0000
30 minute winter	8.000:50%	28	0.022	1.2	0.0000	0.0000
30 minute winter	24	28	0.118	13.8	0.1337	0.0000

US Node	Peak (mins)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)
1.004:50%	29	0.099	20.6	0.0000	0.0000
4	29	0.093	6.7	0.1056	0.0000
1.003:50%	29	0.100	9.4	0.1680	0.0000
5	1	0.000	0.0	0.0000	0.0000
2.000:50%	28	0.056	10.2	0.1179	0.0000
30	110	0.189	21.9	0.6564	0.0000
29	108	0.321	48.4	0.3626	0.0000
25	1	0.000	0.0	0.0000	0.0000
8.000:50%	28	0.022	1.2	0.0000	0.0000
24	28	0.118	13.8	0.1337	0.0000

**Results for 30 year Critical Storm Duration. Lowest mass balance: 99.85%**

Node Event	US Node	Peak (mins)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)
30 minute winter	26	28	0.187	28.5	0.2118	0.0000
30 minute winter	7.003:50%	28	0.191	42.2	0.0000	0.0000
30 minute winter	27	28	0.127	42.2	0.1438	0.0000
60 minute winter	7.004:50%	50	0.342	57.8	2.1191	0.0000
60 minute winter	28	53	0.599	53.6	0.6775	0.0000
30 minute winter	15	30	0.049	0.2	0.0550	0.0000
30 minute winter	6.000:50%	30	0.106	10.9	0.0000	0.0000
30 minute winter	16	30	0.085	10.9	0.0958	0.0000
30 minute winter	6.001:50%	30	0.509	32.5	0.0000	0.0000
30 minute winter	17	30	0.101	32.3	0.1147	0.0000
30 minute winter	6.002:50%	30	0.108	34.0	0.2141	0.0000
30 minute winter	18	33	0.244	108.6	0.2760	0.0000
30 minute winter	1.007:50%	33	0.233	110.8	0.8474	0.0000
15 minute summer	7	1	0.000	0.0	0.0000	0.0000
30 minute winter	3.000:50%	27	0.061	9.0	0.0000	0.0000
30 minute winter	8	28	0.062	9.0	0.0699	0.0000
15 minute summer	9	1	0.000	0.0	0.0000	0.0000
30 minute winter	4.000:50%	29	0.051	7.6	0.0946	0.0000
30 minute winter	10	29	0.078	16.6	0.0883	0.0000
30 minute winter	3.002:50%	28	0.120	29.3	0.0000	0.0000
30 minute winter	13	34	0.424	68.5	0.4800	0.0000
30 minute winter	12	34	0.287	4.4	0.3244	0.0000
30 minute winter	5.001:50%	34	0.332	7.3	1.6044	0.0000
15 minute summer	11	1	0.000	0.0	0.0000	0.0000
30 minute winter	5.000:50%	29	0.038	4.4	0.0000	0.0000

US Node	Peak (mins)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)
26	28	0.187	28.5	0.2118	0.0000
7.003:50%	28	0.191	42.2	0.0000	0.0000
27	28	0.127	42.2	0.1438	0.0000
7.004:50%	50	0.342	57.8	2.1191	0.0000
28	53	0.599	53.6	0.6775	0.0000
15	30	0.049	0.2	0.0550	0.0000
6.000:50%	30	0.106	10.9	0.0000	0.0000
16	30	0.085	10.9	0.0958	0.0000
6.001:50%	30	0.509	32.5	0.0000	0.0000
17	30	0.101	32.3	0.1147	0.0000
6.002:50%	30	0.108	34.0	0.2141	0.0000
18	33	0.244	108.6	0.2760	0.0000
1.007:50%	33	0.233	110.8	0.8474	0.0000
7	1	0.000	0.0	0.0000	0.0000
3.000:50%	27	0.061	9.0	0.0000	0.0000
8	28	0.062	9.0	0.0699	0.0000
9	1	0.000	0.0	0.0000	0.0000
4.000:50%	29	0.051	7.6	0.0946	0.0000
10	29	0.078	16.6	0.0883	0.0000
3.002:50%	28	0.120	29.3	0.0000	0.0000
13	34	0.424	68.5	0.4800	0.0000
12	34	0.287	4.4	0.3244	0.0000
5.001:50%	34	0.332	7.3	1.6044	0.0000
11	1	0.000	0.0	0.0000	0.0000
5.000:50%	29	0.038	4.4	0.0000	0.0000

**Results for 30 year Critical Storm Duration. Lowest mass balance: 99.85%**

Node Event	US Node	Peak (mins)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)
30 minute winter	2	28	0.031	2.8	0.0347	0.0000
30 minute winter	1.001:50%	29	0.049	7.0	0.0308	0.0000
15 minute summer	1	1	0.000	0.0	0.0000	0.0000
30 minute winter	1.000:50%	26	0.029	2.8	0.0045	0.0000
30 minute winter	14	34	0.339	68.5	0.3834	0.0000
30 minute winter	1.006:50%	34	0.306	75.6	1.6812	0.0000
30 minute winter	20	32	0.234	116.0	0.2652	0.0000
30 minute winter	1.009:50%	32	0.242	126.3	0.0313	0.0000
30 minute winter	19	33	0.191	110.8	0.2728	0.0000
30 minute winter	1.008:50%	32	0.199	116.0	0.0000	0.0000
15 minute summer	22	1	0.000	0.0	0.0000	0.0000
30 minute winter	7.000:50%	26	0.077	12.0	0.0000	0.0000
30 minute winter	23	29	0.162	12.0	0.1827	0.0000
30 minute winter	7.001:50%	28	0.203	26.2	0.0000	0.0000
60 minute winter	28_OUT	54	0.591	53.1	0.6688	0.0000
15 minute summer	30_OUT	1	0.000	23.0	0.0000	0.0000
30 minute winter	21	32	0.315	126.3	0.4512	0.0000
60 minute winter	21_OUT	53	0.634	131.4	0.9079	0.0000
30 minute winter	3	29	0.054	7.0	0.0616	0.0000
30 minute winter	1.002:50%	32	0.077	12.8	0.0000	0.0000
30 minute winter	6	33	0.265	35.3	0.2994	0.0000

US Node	Peak (mins)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)
2	28	0.031	2.8	0.0347	0.0000
1.001:50%	29	0.049	7.0	0.0308	0.0000
1	1	0.000	0.0	0.0000	0.0000
1.000:50%	26	0.029	2.8	0.0045	0.0000
14	34	0.339	68.5	0.3834	0.0000
1.006:50%	34	0.306	75.6	1.6812	0.0000
20	32	0.234	116.0	0.2652	0.0000
1.009:50%	32	0.242	126.3	0.0313	0.0000
19	33	0.191	110.8	0.2728	0.0000
1.008:50%	32	0.199	116.0	0.0000	0.0000
22	1	0.000	0.0	0.0000	0.0000
7.000:50%	26	0.077	12.0	0.0000	0.0000
23	29	0.162	12.0	0.1827	0.0000
7.001:50%	28	0.203	26.2	0.0000	0.0000
28_OUT	54	0.591	53.1	0.6688	0.0000
30_OUT	1	0.000	23.0	0.0000	0.0000
21	32	0.315	126.3	0.4512	0.0000
21_OUT	53	0.634	131.4	0.9079	0.0000
3	29	0.054	7.0	0.0616	0.0000
1.002:50%	32	0.077	12.8	0.0000	0.0000
6	33	0.265	35.3	0.2994	0.0000

**Results for 30 year Critical Storm Duration. Lowest mass balance: 99.85%**

Node Event	US Node	Peak (mins)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)
30 minute winter	1.004:50%	32	0.223	37.0	0.0000	0.0000
30 minute winter	4	33	0.268	12.8	0.3033	0.0000
30 minute winter	1.003:50%	33	0.272	17.5	1.2432	0.0000
15 minute summer	5	1	0.000	0.0	0.0000	0.0000
30 minute winter	2.000:50%	29	0.082	19.3	0.2462	0.0000
120 minute winter	30	120	0.268	30.1	0.9289	0.0000
120 minute winter	29	118	0.578	86.6	0.6535	0.0000
15 minute summer	25	1	0.000	0.0	0.0000	0.0000
30 minute winter	8.000:50%	29	0.031	2.4	0.0000	0.0000
30 minute winter	24	29	0.179	26.1	0.2022	0.0000

US Node	Peak (mins)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)
1.004:50%	32	0.223	37.0	0.0000	0.0000
4	33	0.268	12.8	0.3033	0.0000
1.003:50%	33	0.272	17.5	1.2432	0.0000
5	1	0.000	0.0	0.0000	0.0000
2.000:50%	29	0.082	19.3	0.2462	0.0000
30	120	0.268	30.1	0.9289	0.0000
29	118	0.578	86.6	0.6535	0.0000
25	1	0.000	0.0	0.0000	0.0000
8.000:50%	29	0.031	2.4	0.0000	0.0000
24	29	0.179	26.1	0.2022	0.0000

**Results for 100 year +40% CC Critical Storm Duration. Lowest mass balance: 99.85%**

Node Event	US Node	Peak (mins)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)
30 minute winter	26	35	1.128	47.1	1.2756	0.0000
30 minute winter	7.003:50%	35	1.081	70.5	0.0000	0.0000
60 minute winter	27	51	0.942	67.8	1.0657	0.0000
60 minute winter	7.004:50%	54	1.080	98.1	21.1382	0.0000
60 minute winter	28	57	1.117	80.9	1.2632	0.0000
30 minute winter	15	26	1.350	3.6	1.5269	1.6602
30 minute winter	6.000:50%	26	1.415	19.9	0.0000	0.0000
30 minute winter	16	29	1.354	16.9	1.5317	0.0000
30 minute winter	6.001:50%	37	1.646	56.1	5.9433	0.0000
60 minute winter	17	58	0.555	46.7	0.6278	0.0000
60 minute winter	6.002:50%	58	0.475	49.0	4.1369	0.0000
60 minute winter	18	56	0.518	138.3	0.5862	0.0000
30 minute winter	1.007:50%	38	0.461	139.6	3.3282	0.0000
15 minute summer	7	1	0.000	0.0	0.0000	0.0000
30 minute winter	3.000:50%	34	0.125	16.4	0.0000	0.0000
30 minute winter	8	35	0.326	16.4	0.3683	0.0000
30 minute winter	9	38	0.112	0.7	0.1272	0.0000
30 minute winter	4.000:50%	38	0.434	13.9	6.9791	0.0000
30 minute winter	10	37	0.729	26.9	0.8244	0.0000
30 minute winter	3.002:50%	34	1.212	43.0	0.0000	0.0000
60 minute winter	13	59	1.208	90.1	1.3661	0.0000
60 minute winter	12	59	1.067	7.7	1.2063	0.0000
60 minute winter	5.001:50%	60	1.113	16.0	18.0542	0.0000
15 minute summer	11	1	0.000	0.0	0.0000	0.0000
60 minute winter	5.000:50%	58	0.219	7.7	0.0000	0.0000

US Node	Peak (mins)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)
26	35	1.128	47.1	1.2756	0.0000
7.003:50%	35	1.081	70.5	0.0000	0.0000
27	51	0.942	67.8	1.0657	0.0000
7.004:50%	54	1.080	98.1	21.1382	0.0000
28	57	1.117	80.9	1.2632	0.0000
15	26	1.350	3.6	1.5269	1.6602
6.000:50%	26	1.415	19.9	0.0000	0.0000
16	29	1.354	16.9	1.5317	0.0000
6.001:50%	37	1.646	56.1	5.9433	0.0000
17	58	0.555	46.7	0.6278	0.0000
6.002:50%	58	0.475	49.0	4.1369	0.0000
18	56	0.518	138.3	0.5862	0.0000
1.007:50%	38	0.461	139.6	3.3282	0.0000
7	1	0.000	0.0	0.0000	0.0000
3.000:50%	34	0.125	16.4	0.0000	0.0000
8	35	0.326	16.4	0.3683	0.0000
9	38	0.112	0.7	0.1272	0.0000
4.000:50%	38	0.434	13.9	6.9791	0.0000
10	37	0.729	26.9	0.8244	0.0000
3.002:50%	34	1.212	43.0	0.0000	0.0000
13	59	1.208	90.1	1.3661	0.0000
12	59	1.067	7.7	1.2063	0.0000
5.001:50%	60	1.113	16.0	18.0542	0.0000
11	1	0.000	0.0	0.0000	0.0000
5.000:50%	58	0.219	7.7	0.0000	0.0000

**Results for 100 year +40% CC Critical Storm Duration. Lowest mass balance: 99.85%**

Node Event	US Node	Peak (mins)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)
30 minute winter	2	28	0.042	5.2	0.0473	0.0000
30 minute winter	1.001:50%	28	0.068	12.9	0.0595	0.0000
15 minute summer	1	1	0.000	0.0	0.0000	0.0000
30 minute winter	1.000:50%	28	0.040	5.2	0.0084	0.0000
60 minute winter	14	59	0.987	85.0	1.1159	0.0000
60 minute winter	1.006:50%	58	0.761	95.2	10.3753	0.0000
30 minute winter	20	35	0.461	145.8	0.5218	0.0000
30 minute winter	1.009:50%	34	0.401	162.1	0.0862	0.0000
30 minute winter	19	37	0.399	141.5	0.5713	0.0000
30 minute winter	1.008:50%	36	0.443	145.7	0.0000	0.0000
30 minute winter	22	34	1.053	2.5	1.1913	0.0000
30 minute winter	7.000:50%	34	1.274	21.9	0.0000	0.0000
30 minute winter	23	34	1.351	19.9	1.5276	0.0000
30 minute winter	7.001:50%	34	1.354	44.2	0.0000	0.0000
60 minute winter	28_OUT	58	1.043	80.5	1.1801	0.0000
15 minute summer	30_OUT	1	0.000	30.0	0.0000	0.0000
30 minute winter	21	34	0.367	162.1	0.5253	0.0000
120 minute winter	21_OUT	96	1.174	163.4	1.6801	0.0000
30 minute winter	3	36	0.686	12.9	0.7761	0.0000
30 minute winter	1.002:50%	36	0.860	22.1	0.0000	0.0000
30 minute winter	6	40	0.955	45.9	1.0800	0.0000

US Node	Peak (mins)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)
2	28	0.042	5.2	0.0473	0.0000
1.001:50%	28	0.068	12.9	0.0595	0.0000
1	1	0.000	0.0	0.0000	0.0000
1.000:50%	28	0.040	5.2	0.0084	0.0000
14	59	0.987	85.0	1.1159	0.0000
1.006:50%	58	0.761	95.2	10.3753	0.0000
20	35	0.461	145.8	0.5218	0.0000
1.009:50%	34	0.401	162.1	0.0862	0.0000
19	37	0.399	141.5	0.5713	0.0000
1.008:50%	36	0.443	145.7	0.0000	0.0000
22	34	1.053	2.5	1.1913	0.0000
7.000:50%	34	1.274	21.9	0.0000	0.0000
23	34	1.351	19.9	1.5276	0.0000
7.001:50%	34	1.354	44.2	0.0000	0.0000
28_OUT	58	1.043	80.5	1.1801	0.0000
30_OUT	1	0.000	30.0	0.0000	0.0000
21	34	0.367	162.1	0.5253	0.0000
21_OUT	96	1.174	163.4	1.6801	0.0000
3	36	0.686	12.9	0.7761	0.0000
1.002:50%	36	0.860	22.1	0.0000	0.0000
6	40	0.955	45.9	1.0800	0.0000

**Results for 100 year +40% CC Critical Storm Duration. Lowest mass balance: 99.85%**

Node Event	US Node	Peak (mins)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)
60 minute winter	1.004:50%	57	0.719	48.6	0.0000	0.0000
30 minute winter	4	39	0.969	21.6	1.0964	0.0000
30 minute winter	1.003:50%	40	0.968	30.4	15.7897	0.0000
15 minute summer	5	1	0.000	0.0	0.0000	0.0000
30 minute winter	2.000:50%	37	0.359	35.2	4.7670	0.0000
180 minute winter	30	184	0.536	33.8	1.8563	0.0000
180 minute winter	29	180	0.982	117.1	1.1111	0.0000
15 minute summer	25	1	0.000	0.0	0.0000	0.0000
30 minute winter	8.000:50%	28	0.041	4.3	0.0000	0.0000
30 minute winter	24	35	1.170	43.5	1.3236	0.0000

US Node	Peak (mins)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)
1.004:50%	57	0.719	48.6	0.0000	0.0000
4	39	0.969	21.6	1.0964	0.0000
1.003:50%	40	0.968	30.4	15.7897	0.0000
5	1	0.000	0.0	0.0000	0.0000
2.000:50%	37	0.359	35.2	4.7670	0.0000
30	184	0.536	33.8	1.8563	0.0000
29	180	0.982	117.1	1.1111	0.0000
25	1	0.000	0.0	0.0000	0.0000
8.000:50%	28	0.041	4.3	0.0000	0.0000
24	35	1.170	43.5	1.3236	0.0000

**Results for 2 year 15 minute summer. 255 minute analysis at 1 minute timestep. Mass balance: 99.90%**

Node Event	US Node	Peak (mins)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	26	22	0.100	10.9	0.1132	0.0000	OK
15 minute summer	7.003:50%	21	0.112	16.1	0.0000	0.0000	OK
15 minute summer	27	22	0.074	16.1	0.0839	0.0000	OK
15 minute summer	7.004:50%	22	0.089	22.9	0.1443	0.0000	OK
15 minute summer	28	31	0.195	22.9	0.2209	0.0000	OK
15 minute summer	15	16	0.004	0.0	0.0045	0.0000	OK
15 minute summer	6.000:50%	17	0.061	4.2	0.0000	0.0000	OK
15 minute summer	16	17	0.040	4.2	0.0456	0.0000	OK
15 minute summer	6.001:50%	20	0.077	12.5	0.0000	0.0000	OK
15 minute summer	17	18	0.056	12.5	0.0629	0.0000	OK
15 minute summer	6.002:50%	18	0.058	13.2	0.0624	0.0000	OK
15 minute summer	18	23	0.131	44.2	0.1487	0.0000	OK
15 minute summer	1.007:50%	23	0.131	45.1	0.2678	0.0000	OK
15 minute summer	7	1	0.000	0.0	0.0000	0.0000	OK
15 minute summer	3.000:50%	16	0.036	3.4	0.0000	0.0000	OK
15 minute summer	8	18	0.037	3.4	0.0421	0.0000	OK
15 minute summer	9	1	0.000	0.0	0.0000	0.0000	OK
15 minute summer	4.000:50%	19	0.031	2.9	0.0356	0.0000	OK
15 minute summer	10	21	0.046	6.3	0.0519	0.0000	OK
15 minute summer	3.002:50%	21	0.063	11.1	0.0000	0.0000	OK
15 minute summer	13	24	0.105	28.1	0.1190	0.0000	OK
15 minute summer	12	19	0.038	1.7	0.0425	0.0000	OK
15 minute summer	5.001:50%	21	0.042	2.1	0.0252	0.0000	OK
15 minute summer	11	1	0.000	0.0	0.0000	0.0000	OK
15 minute summer	5.000:50%	20	0.024	1.7	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	26	7.003	7.003:50%	10.9	0.554	0.316	0.3230	
15 minute summer	26	7.003	27	16.1	0.974	0.467	0.2727	
15 minute summer	27	7.004	7.004:50%	16.1	1.160	0.194	0.3435	
15 minute summer	27	7.004	28	22.9	1.292	0.276	0.5468	
15 minute summer	28	7.005	28_OUT	22.9	0.506	0.461	0.8150	
15 minute summer	15	6.000	6.000:50%	0.0	-0.013	-0.003	0.0393	
15 minute summer	15	6.000	16	4.2	0.806	0.339	0.0606	
15 minute summer	16	6.001	6.001:50%	4.2	0.658	0.158	0.1452	
15 minute summer	16	6.001	17	12.5	1.663	0.469	0.1691	
15 minute summer	17	6.002	6.002:50%	12.5	2.039	0.269	0.0304	
15 minute summer	17	6.002	18	13.2	2.173	0.285	0.0302	
15 minute summer	18	1.007	1.007:50%	44.2	1.494	0.334	0.1785	
15 minute summer	18	1.007	19	45.1	1.723	0.341	0.1581	
15 minute summer	7	3.000	3.000:50%	0.0	0.000	0.000	0.0191	
15 minute summer	7	3.000	8	3.4	1.021	0.126	0.0389	
15 minute summer	8	3.001	10	3.4	0.858	0.135	0.1270	
15 minute summer	9	4.000	4.000:50%	0.0	0.000	0.000	0.0140	
15 minute summer	9	4.000	10	2.9	0.817	0.093	0.0383	
15 minute summer	10	3.002	3.002:50%	6.3	1.096	0.203	0.1795	
15 minute summer	10	3.002	13	11.1	1.603	0.358	0.2154	
15 minute summer	13	1.005	14	28.1	1.913	0.379	0.0550	
15 minute summer	12	5.001	5.001:50%	1.7	0.460	0.137	0.0383	
15 minute summer	12	5.001	13	2.1	0.465	0.169	0.0509	
15 minute summer	11	5.000	5.000:50%	0.0	0.000	0.000	0.0239	
15 minute summer	11	5.000	12	1.7	0.664	0.053	0.0703	

Results for 2 year 15 minute summer. 255 minute analysis at 1 minute timestep. Mass balance: 99.90%

Node Event	US Node	Peak (mins)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	2	22	0.020	1.1	0.0221	0.0000	OK
15 minute summer	1.001:50%	23	0.030	2.7	0.0117	0.0000	OK
15 minute summer	1	1	0.000	0.0	0.0000	0.0000	OK
15 minute summer	1.000:50%	18	0.019	1.1	0.0018	0.0000	OK
15 minute summer	14	25	0.100	28.1	0.1136	0.0000	OK
15 minute summer	1.006:50%	24	0.108	31.0	0.2075	0.0000	OK
15 minute summer	20	21	0.125	47.2	0.1415	0.0000	OK
15 minute summer	1.009:50%	21	0.131	51.3	0.0092	0.0000	OK
15 minute summer	19	23	0.108	45.1	0.1550	0.0000	OK
15 minute summer	1.008:50%	23	0.110	47.2	0.0000	0.0000	OK
15 minute summer	22	1	0.000	0.0	0.0000	0.0000	OK
15 minute summer	7.000:50%	18	0.046	4.6	0.0000	0.0000	OK
15 minute summer	23	20	0.062	4.6	0.0696	0.0000	OK
15 minute summer	7.001:50%	21	0.097	10.0	0.0000	0.0000	OK
15 minute summer	28_OUT	31	0.219	22.9	0.2479	0.0000	OK
15 minute summer	30_OUT	1	0.000	17.0	0.0000	0.0000	OK
15 minute summer	21	21	0.193	51.3	0.2761	0.0000	OK
15 minute summer	21_OUT	18	0.243	56.7	0.3479	0.0000	OK
15 minute summer	3	23	0.033	2.7	0.0378	0.0000	OK
15 minute summer	1.002:50%	23	0.045	4.9	0.0000	0.0000	OK
15 minute summer	6	23	0.079	14.2	0.0889	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	2	1.001	1.001:50%	1.1	0.578	0.036	0.0680	
15 minute summer	2	1.001	3	2.7	0.995	0.088	0.0959	
15 minute summer	1	1.000	1.000:50%	0.0	0.000	0.000	0.0080	
15 minute summer	1	1.000	2	1.1	0.851	0.033	0.0165	
15 minute summer	14	1.006	1.006:50%	28.1	1.567	0.397	0.3152	
15 minute summer	14	1.006	18	31.0	1.696	0.439	0.3213	
15 minute summer	20	1.009	1.009:50%	47.2	1.646	0.325	0.2828	
15 minute summer	20	1.009	21	51.3	1.818	0.353	0.2781	
15 minute summer	19	1.008	1.008:50%	45.1	1.949	0.254	0.2258	
15 minute summer	19	1.008	20	47.2	1.845	0.266	0.2497	
15 minute summer	22	7.000	7.000:50%	0.0	0.000	0.000	0.0311	
15 minute summer	22	7.000	23	4.6	1.004	0.201	0.0615	
15 minute summer	23	7.001	7.001:50%	4.6	0.399	0.209	0.1878	
15 minute summer	23	7.001	24	10.0	0.660	0.454	0.2456	
15 minute summer	28_OUT	Flow through pond	29	86.2	0.195	0.001	93.9073	
15 minute summer	21	1.010	21_OUT	51.3	0.906	0.448	0.7069	
15 minute summer	21_OUT	Flow through pond	29	86.2	0.195	0.001	93.9073	
15 minute summer	3	1.002	1.002:50%	2.7	0.740	0.109	0.0431	
15 minute summer	3	1.002	4	4.9	1.020	0.198	0.0567	
15 minute summer	6	1.004	1.004:50%	14.2	1.329	0.402	0.1695	

**Results for 2 year 15 minute summer. 255 minute analysis at 1 minute timestep. Mass balance: 99.90%**

Node Event	US Node	Peak (mins)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	1.004:50%	25	0.081	14.9	0.0000	0.0000	OK
15 minute summer	4	23	0.076	4.9	0.0858	0.0000	OK
15 minute summer	1.003:50%	23	0.082	6.9	0.1142	0.0000	OK
15 minute summer	5	1	0.000	0.0	0.0000	0.0000	OK
15 minute summer	2.000:50%	20	0.047	7.3	0.0826	0.0000	OK
15 minute summer	30	37	0.159	17.0	0.5520	0.0000	OK
15 minute summer	29	37	0.207	86.2	0.2345	0.0000	SURCHARGED
15 minute summer	25	1	0.000	0.0	0.0000	0.0000	OK
15 minute summer	8.000:50%	20	0.019	0.9	0.0000	0.0000	OK
15 minute summer	24	21	0.098	10.0	0.1112	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	1.004	13	14.9	1.390	0.422	0.1700	109.8
15 minute summer	4	1.003	1.003:50%	4.9	0.465	0.288	0.0359	
15 minute summer	4	1.003	6	6.9	0.640	0.405	0.0367	
15 minute summer	5	2.000	2.000:50%	0.0	0.000	0.000	0.0614	
15 minute summer	5	2.000	6	7.3	1.550	0.210	0.1220	
15 minute summer	30	Hydro-Brake®	30_OUT	17.0				
15 minute summer	29	9.000	30	17.0	0.985	1.374	0.2427	
15 minute summer	25	8.000	8.000:50%	0.0	0.000	0.000	0.0083	
15 minute summer	25	8.000	26	0.9	0.698	0.034	0.0166	
15 minute summer	24	7.002	26	10.0	0.717	0.444	0.0668	

**Results for 2 year 15 minute winter. 255 minute analysis at 1 minute timestep. Mass balance: 99.90%**

Node Event	US Node	Peak (mins)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	26	22	0.107	12.1	0.1205	0.0000	OK
15 minute winter	7.003:50%	21	0.118	17.9	0.0000	0.0000	OK
15 minute winter	27	22	0.078	17.9	0.0887	0.0000	OK
15 minute winter	7.004:50%	22	0.094	25.5	0.1619	0.0000	OK
15 minute winter	28	30	0.214	25.5	0.2422	0.0000	OK
15 minute winter	15	16	0.008	0.1	0.0086	0.0000	OK
15 minute winter	6.000:50%	19	0.065	4.7	0.0000	0.0000	OK
15 minute winter	16	17	0.043	4.7	0.0483	0.0000	OK
15 minute winter	6.001:50%	17	0.083	14.0	0.0000	0.0000	OK
15 minute winter	17	17	0.059	14.0	0.0671	0.0000	OK
15 minute winter	6.002:50%	17	0.062	14.7	0.0707	0.0000	OK
15 minute winter	18	20	0.141	49.4	0.1591	0.0000	OK
15 minute winter	1.007:50%	20	0.140	50.4	0.3046	0.0000	OK
15 minute winter	7	1	0.000	0.0	0.0000	0.0000	OK
15 minute winter	3.000:50%	15	0.038	3.8	0.0000	0.0000	OK
15 minute winter	8	17	0.039	3.8	0.0445	0.0000	OK
15 minute winter	9	1	0.000	0.0	0.0000	0.0000	OK
15 minute winter	4.000:50%	18	0.033	3.2	0.0392	0.0000	OK
15 minute winter	10	19	0.048	7.0	0.0548	0.0000	OK
15 minute winter	3.002:50%	21	0.067	12.4	0.0000	0.0000	OK
15 minute winter	13	22	0.113	31.4	0.1282	0.0000	OK
15 minute winter	12	19	0.040	1.9	0.0451	0.0000	OK
15 minute winter	5.001:50%	21	0.044	2.3	0.0276	0.0000	OK
15 minute winter	11	1	0.000	0.0	0.0000	0.0000	OK
15 minute winter	5.000:50%	21	0.025	1.9	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute winter	26	7.003	7.003:50%	12.1	0.570	0.351	0.3487	
15 minute winter	26	7.003	27	17.9	1.006	0.520	0.2933	
15 minute winter	27	7.004	7.004:50%	17.9	1.194	0.216	0.3711	
15 minute winter	27	7.004	28	25.5	1.285	0.308	0.6184	
15 minute winter	28	7.005	28_OUT	25.5	0.518	0.514	0.8914	
15 minute winter	15	6.000	6.000:50%	-0.1	-0.022	-0.005	0.0437	
15 minute winter	15	6.000	16	4.7	0.833	0.379	0.0656	
15 minute winter	16	6.001	6.001:50%	4.7	0.676	0.177	0.1579	
15 minute winter	16	6.001	17	14.0	1.707	0.526	0.1844	
15 minute winter	17	6.002	6.002:50%	14.0	2.097	0.302	0.0331	
15 minute winter	17	6.002	18	14.7	2.232	0.317	0.0327	
15 minute winter	18	1.007	1.007:50%	49.4	1.531	0.373	0.1946	
15 minute winter	18	1.007	19	50.4	1.768	0.381	0.1721	
15 minute winter	7	3.000	3.000:50%	0.0	0.000	0.000	0.0207	
15 minute winter	7	3.000	8	3.8	1.054	0.140	0.0422	
15 minute winter	8	3.001	10	3.8	0.888	0.150	0.1372	
15 minute winter	9	4.000	4.000:50%	0.0	0.000	0.000	0.0150	
15 minute winter	9	4.000	10	3.2	0.839	0.103	0.0412	
15 minute winter	10	3.002	3.002:50%	7.0	1.128	0.226	0.1944	
15 minute winter	10	3.002	13	12.4	1.650	0.400	0.2338	
15 minute winter	13	1.005	14	31.4	1.957	0.424	0.0600	
15 minute winter	12	5.001	5.001:50%	1.9	0.476	0.153	0.0413	
15 minute winter	12	5.001	13	2.3	0.477	0.185	0.0584	
15 minute winter	11	5.000	5.000:50%	0.0	0.000	0.000	0.0258	
15 minute winter	11	5.000	12	1.9	0.684	0.060	0.0764	

**Results for 2 year 15 minute winter. 255 minute analysis at 1 minute timestep. Mass balance: 99.90%**

Node Event	US Node	Peak (mins)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	2	20	0.020	1.2	0.0230	0.0000	OK
15 minute winter	1.001:50%	21	0.032	3.0	0.0130	0.0000	OK
15 minute winter	1	1	0.000	0.0	0.0000	0.0000	OK
15 minute winter	1.000:50%	17	0.019	1.2	0.0020	0.0000	OK
15 minute winter	14	22	0.107	31.4	0.1213	0.0000	OK
15 minute winter	1.006:50%	22	0.115	34.7	0.2377	0.0000	OK
15 minute winter	20	20	0.134	52.8	0.1514	0.0000	OK
15 minute winter	1.009:50%	20	0.140	57.4	0.0105	0.0000	OK
15 minute winter	19	20	0.115	50.4	0.1651	0.0000	OK
15 minute winter	1.008:50%	20	0.117	52.8	0.0000	0.0000	OK
15 minute winter	22	1	0.000	0.0	0.0000	0.0000	OK
15 minute winter	7.000:50%	18	0.049	5.1	0.0000	0.0000	OK
15 minute winter	23	20	0.065	5.1	0.0735	0.0000	OK
15 minute winter	7.001:50%	20	0.103	11.1	0.0000	0.0000	OK
15 minute winter	28_OUT	31	0.237	25.5	0.2684	0.0000	OK
15 minute winter	30_OUT	1	0.000	18.0	0.0000	0.0000	OK
15 minute winter	21	23	0.204	57.4	0.2926	0.0000	OK
15 minute winter	21_OUT	18	0.262	63.4	0.3747	0.0000	OK
15 minute winter	3	21	0.035	3.0	0.0399	0.0000	OK
15 minute winter	1.002:50%	22	0.048	5.5	0.0000	0.0000	OK
15 minute winter	6	22	0.084	15.9	0.0950	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	2	1.001	1.001:50%	1.2	0.594	0.039	0.0730	
15 minute winter	2	1.001	3	3.0	1.027	0.098	0.1034	
15 minute winter	1	1.000	1.000:50%	0.0	0.000	0.000	0.0085	
15 minute winter	1	1.000	2	1.2	0.874	0.036	0.0176	
15 minute winter	14	1.006	1.006:50%	31.4	1.607	0.444	0.3435	
15 minute winter	14	1.006	18	34.7	1.743	0.491	0.3500	
15 minute winter	20	1.009	1.009:50%	52.8	1.685	0.363	0.3088	
15 minute winter	20	1.009	21	57.4	1.868	0.395	0.3027	
15 minute winter	19	1.008	1.008:50%	50.4	1.998	0.284	0.2463	
15 minute winter	19	1.008	20	52.8	1.889	0.297	0.2728	
15 minute winter	22	7.000	7.000:50%	0.0	0.000	0.000	0.0336	
15 minute winter	22	7.000	23	5.1	1.033	0.223	0.0663	
15 minute winter	23	7.001	7.001:50%	5.1	0.409	0.232	0.2031	
15 minute winter	23	7.001	24	11.1	0.678	0.504	0.2656	
15 minute winter	28_OUT	Flow through pond	29	93.4	0.203	0.001	105.6342	
15 minute winter	21	1.010	21_OUT	57.4	0.938	0.501	0.7636	
15 minute winter	21_OUT	Flow through pond	29	93.4	0.203	0.001	105.6342	
15 minute winter	3	1.002	1.002:50%	3.0	0.758	0.121	0.0466	
15 minute winter	3	1.002	4	5.5	1.027	0.222	0.0637	
15 minute winter	6	1.004	1.004:50%	15.9	1.364	0.450	0.1849	

**Results for 2 year 15 minute winter. 255 minute analysis at 1 minute timestep. Mass balance: 99.90%**

Node Event	US Node	Peak (mins)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	1.004:50%	22	0.087	16.7	0.0000	0.0000	OK
15 minute winter	4	22	0.082	5.5	0.0923	0.0000	OK
15 minute winter	1.003:50%	22	0.088	7.7	0.1304	0.0000	OK
15 minute winter	5	1	0.000	0.0	0.0000	0.0000	OK
15 minute winter	2.000:50%	21	0.050	8.2	0.0934	0.0000	OK
15 minute winter	30	37	0.166	18.0	0.5733	0.0000	OK
15 minute winter	29	37	0.227	93.4	0.2571	0.0000	SURCHARGED
15 minute winter	25	1	0.000	0.0	0.0000	0.0000	OK
15 minute winter	8.000:50%	19	0.020	1.0	0.0000	0.0000	OK
15 minute winter	24	21	0.104	11.1	0.1180	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	1.004	13	16.7	1.430	0.473	0.1852	
15 minute winter	4	1.003	1.003:50%	5.5	0.477	0.323	0.0393	
15 minute winter	4	1.003	6	7.7	0.656	0.452	0.0400	
15 minute winter	5	2.000	2.000:50%	0.0	0.000	0.000	0.0669	
15 minute winter	5	2.000	6	8.2	1.600	0.236	0.1327	
15 minute winter	30	Hydro-Brake®	30_OUT	18.0				123.0
15 minute winter	29	9.000	30	18.0	1.036	1.453	0.2453	
15 minute winter	25	8.000	8.000:50%	0.0	0.000	0.000	0.0090	
15 minute winter	25	8.000	26	1.0	0.721	0.038	0.0179	
15 minute winter	24	7.002	26	11.1	0.739	0.493	0.0719	

**Results for 2 year 30 minute summer. 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 summer	26	30	0.113	13.3	0.1275	0.0000	OK
30 minute summer	7.003:50%	30	0.123	19.6	0.0000	0.0000	OK
30 minute summer	27	30	0.082	19.6	0.0930	0.0000	OK
30 minute summer	7.004:50%	30	0.099	27.9	0.1785	0.0000	OK
30 minute summer	28	39	0.233	27.9	0.2634	0.0000	OK
30 minute summer	15	26	0.011	0.1	0.0119	0.0000	OK
30 minute summer	6.000:50%	27	0.067	5.1	0.0000	0.0000	OK
30 minute summer	16	27	0.045	5.1	0.0503	0.0000	OK
30 minute summer	6.001:50%	27	0.087	15.2	0.0000	0.0000	OK
30 minute summer	17	27	0.062	15.2	0.0704	0.0000	OK
30 minute summer	6.002:50%	28	0.065	16.0	0.0781	0.0000	OK
30 minute summer	18	29	0.148	53.9	0.1679	0.0000	OK
30 minute summer	1.007:50%	30	0.147	55.0	0.3375	0.0000	OK
30 minute summer	7	1	0.000	0.0	0.0000	0.0000	OK
30 minute summer	3.000:50%	26	0.040	4.2	0.0000	0.0000	OK
30 minute summer	8	28	0.041	4.2	0.0468	0.0000	OK
30 minute summer	9	1	0.000	0.0	0.0000	0.0000	OK
30 minute summer	4.000:50%	28	0.034	3.5	0.0429	0.0000	OK
30 minute summer	10	30	0.051	7.7	0.0576	0.0000	OK
30 minute summer	3.002:50%	29	0.070	13.6	0.0000	0.0000	OK
30 minute summer	13	29	0.120	34.3	0.1361	0.0000	OK
30 minute summer	12	27	0.041	2.0	0.0464	0.0000	OK
30 minute summer	5.001:50%	29	0.045	2.4	0.0289	0.0000	OK
30 minute summer	11	1	0.000	0.0	0.0000	0.0000	OK
30 minute summer	5.000:50%	29	0.026	2.0	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
30 minute summer	26	7.003	7.003:50%	13.3	0.586	0.386	0.3728	
30 minute summer	26	7.003	27	19.6	1.034	0.569	0.3122	
30 minute summer	27	7.004	7.004:50%	19.6	1.224	0.237	0.3962	
30 minute summer	27	7.004	28	27.9	1.267	0.337	0.6692	
30 minute summer	28	7.005	28_OUT	27.5	0.533	0.555	0.9680	
30 minute summer	15	6.000	6.000:50%	-0.1	-0.027	-0.006	0.0473	
30 minute summer	15	6.000	16	5.1	0.853	0.411	0.0695	
30 minute summer	16	6.001	6.001:50%	5.1	0.688	0.192	0.1679	
30 minute summer	16	6.001	17	15.2	1.739	0.571	0.1963	
30 minute summer	17	6.002	6.002:50%	15.2	2.134	0.328	0.0354	
30 minute summer	17	6.002	18	16.0	2.278	0.345	0.0349	
30 minute summer	18	1.007	1.007:50%	53.9	1.561	0.407	0.2082	
30 minute summer	18	1.007	19	55.0	1.804	0.415	0.1840	
30 minute summer	7	3.000	3.000:50%	0.0	0.000	0.000	0.0223	
30 minute summer	7	3.000	8	4.2	1.083	0.155	0.0453	
30 minute summer	8	3.001	10	4.2	0.914	0.166	0.1471	
30 minute summer	9	4.000	4.000:50%	0.0	0.000	0.000	0.0160	
30 minute summer	9	4.000	10	3.5	0.861	0.113	0.0441	
30 minute summer	10	3.002	3.002:50%	7.7	1.156	0.248	0.2083	
30 minute summer	10	3.002	13	13.6	1.690	0.438	0.2504	
30 minute summer	13	1.005	14	34.3	1.992	0.463	0.0643	
30 minute summer	12	5.001	5.001:50%	2.0	0.484	0.161	0.0427	
30 minute summer	12	5.001	13	2.4	0.473	0.193	0.0645	
30 minute summer	11	5.000	5.000:50%	0.0	0.000	0.000	0.0268	
30 minute summer	11	5.000	12	2.0	0.693	0.063	0.0794	

**Results for 2 year 30 minute summer. 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 summer	2	31	0.021	1.3	0.0239	0.0000	OK
30 minute summer	1.001:50%	29	0.033	3.3	0.0143	0.0000	OK
30 minute summer	1	1	0.000	0.0	0.0000	0.0000	OK
30 minute summer	1.000:50%	27	0.020	1.3	0.0021	0.0000	OK
30 minute summer	14	29	0.113	34.3	0.1280	0.0000	OK
30 minute summer	1.006:50%	29	0.122	37.9	0.2650	0.0000	OK
30 minute summer	20	30	0.141	57.6	0.1597	0.0000	OK
30 minute summer	1.009:50%	30	0.148	62.6	0.0117	0.0000	OK
30 minute summer	19	30	0.121	55.0	0.1737	0.0000	OK
30 minute summer	1.008:50%	30	0.124	57.6	0.0000	0.0000	OK
30 minute summer	22	1	0.000	0.0	0.0000	0.0000	OK
30 minute summer	7.000:50%	28	0.052	5.6	0.0000	0.0000	OK
30 minute summer	23	29	0.068	5.6	0.0771	0.0000	OK
30 minute summer	7.001:50%	30	0.109	12.2	0.0000	0.0000	OK
30 minute summer	28_OUT	39	0.258	27.5	0.2921	0.0000	OK
30 minute summer	30_OUT	1	0.000	19.0	0.0000	0.0000	OK
30 minute summer	21	30	0.214	62.6	0.3063	0.0000	OK
30 minute summer	21_OUT	30	0.277	67.6	0.3969	0.0000	OK
30 minute summer	3	29	0.037	3.3	0.0418	0.0000	OK
30 minute summer	1.002:50%	29	0.050	6.0	0.0000	0.0000	OK
30 minute summer	6	29	0.089	17.4	0.1003	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	2	1.001	1.001:50%	1.3	0.607	0.042	0.0778	
30 minute summer	2	1.001	3	3.3	1.055	0.108	0.1106	
30 minute summer	1	1.000	1.000:50%	0.0	0.000	0.000	0.0090	
30 minute summer	1	1.000	2	1.3	0.894	0.039	0.0186	
30 minute summer	14	1.006	1.006:50%	34.3	1.638	0.485	0.3679	
30 minute summer	14	1.006	18	37.9	1.779	0.536	0.3743	
30 minute summer	20	1.009	1.009:50%	57.6	1.717	0.396	0.3307	
30 minute summer	20	1.009	21	62.6	1.908	0.431	0.3233	
30 minute summer	19	1.008	1.008:50%	55.0	2.035	0.310	0.2637	
30 minute summer	19	1.008	20	57.6	1.922	0.324	0.2924	
30 minute summer	22	7.000	7.000:50%	0.0	0.000	0.000	0.0360	
30 minute summer	22	7.000	23	5.6	1.060	0.245	0.0710	
30 minute summer	23	7.001	7.001:50%	5.6	0.418	0.254	0.2182	
30 minute summer	23	7.001	24	12.2	0.694	0.554	0.2850	
30 minute summer	28_OUT	Flow through pond	29	90.2	0.194	0.001	118.9145	
30 minute summer	21	1.010	21_OUT	62.6	0.963	0.546	0.8107	
30 minute summer	21_OUT	Flow through pond	29	90.2	0.194	0.001	118.9145	
30 minute summer	3	1.002	1.002:50%	3.3	0.777	0.133	0.0498	
30 minute summer	3	1.002	4	6.0	1.025	0.242	0.0697	
30 minute summer	6	1.004	1.004:50%	17.4	1.392	0.493	0.1982	

**Results for 2 year 30 minute summer. 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 summer	1.004:50%	29	0.092	18.3	0.0000	0.0000	OK
30 minute summer	4	29	0.086	6.0	0.0978	0.0000	OK
30 minute summer	1.003:50%	29	0.093	8.4	0.1453	0.0000	OK
30 minute summer	5	1	0.000	0.0	0.0000	0.0000	OK
30 minute summer	2.000:50%	29	0.053	9.0	0.1031	0.0000	OK
30 minute summer	30	47	0.172	19.0	0.5957	0.0000	OK
30 minute summer	29	46	0.249	90.2	0.2821	0.0000	SURCHARGED
30 minute summer	25	1	0.000	0.0	0.0000	0.0000	OK
30 minute summer	8.000:50%	29	0.021	1.1	0.0000	0.0000	OK
30 minute summer	24	30	0.110	12.2	0.1245	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	1.004	13	18.3	1.462	0.518	0.1985	
30 minute summer	4	1.003	1.003:50%	6.0	0.485	0.352	0.0422	
30 minute summer	4	1.003	6	8.4	0.669	0.494	0.0428	
30 minute summer	5	2.000	2.000:50%	0.0	0.000	0.000	0.0715	
30 minute summer	5	2.000	6	9.0	1.642	0.259	0.1419	
30 minute summer	30	Hydro-Brake®	30_OUT	19.0				143.1
30 minute summer	29	9.000	30	19.0	1.090	1.536	0.2478	
30 minute summer	25	8.000	8.000:50%	0.0	0.000	0.000	0.0096	
30 minute summer	25	8.000	26	1.1	0.741	0.041	0.0191	
30 minute summer	24	7.002	26	12.2	0.760	0.542	0.0768	

**Results for 2 year 30 minute winter. 270 minute analysis at 1 minute timestep. Mass balance: 99.94%**

Node Event	US Node	Peak (mins)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
30 minute winter	26	28	0.121	15.0	0.1371	0.0000	OK
30 minute winter	7.003:50%	28	0.132	22.2	0.0000	0.0000	OK
30 minute winter	27	29	0.088	22.1	0.0991	0.0000	OK
30 minute winter	7.004:50%	29	0.106	31.5	0.2043	0.0000	OK
30 minute winter	28	38	0.259	31.5	0.2925	0.0000	OK
30 minute winter	15	26	0.015	0.1	0.0166	0.0000	OK
30 minute winter	6.000:50%	27	0.072	5.7	0.0000	0.0000	OK
30 minute winter	16	27	0.047	5.7	0.0533	0.0000	OK
30 minute winter	6.001:50%	28	0.094	17.2	0.0000	0.0000	OK
30 minute winter	17	28	0.067	17.2	0.0757	0.0000	OK
30 minute winter	6.002:50%	28	0.070	18.1	0.0905	0.0000	OK
30 minute winter	18	28	0.160	60.9	0.1813	0.0000	OK
30 minute winter	1.007:50%	29	0.158	62.1	0.3904	0.0000	OK
30 minute winter	7	1	0.000	0.0	0.0000	0.0000	OK
30 minute winter	3.000:50%	26	0.043	4.7	0.0000	0.0000	OK
30 minute winter	8	28	0.044	4.7	0.0496	0.0000	OK
30 minute winter	9	1	0.000	0.0	0.0000	0.0000	OK
30 minute winter	4.000:50%	29	0.036	4.0	0.0491	0.0000	OK
30 minute winter	10	29	0.054	8.7	0.0615	0.0000	OK
30 minute winter	3.002:50%	28	0.076	15.4	0.0000	0.0000	OK
30 minute winter	13	28	0.131	38.7	0.1484	0.0000	OK
30 minute winter	12	29	0.044	2.3	0.0499	0.0000	OK
30 minute winter	5.001:50%	30	0.048	2.8	0.0339	0.0000	OK
30 minute winter	11	1	0.000	0.0	0.0000	0.0000	OK
30 minute winter	5.000:50%	29	0.027	2.3	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
30 minute winter	26	7.003	7.003:50%	15.0	0.604	0.435	0.4071	
30 minute winter	26	7.003	27	22.1	1.073	0.643	0.3395	
30 minute winter	27	7.004	7.004:50%	22.1	1.265	0.267	0.4330	
30 minute winter	27	7.004	28	31.5	1.259	0.381	0.7544	
30 minute winter	28	7.005	28_OUT	31.3	0.551	0.630	1.0479	
30 minute winter	15	6.000	6.000:50%	-0.1	-0.033	-0.007	0.0529	
30 minute winter	15	6.000	16	5.7	0.880	0.460	0.0751	
30 minute winter	16	6.001	6.001:50%	5.7	0.704	0.214	0.1839	
30 minute winter	16	6.001	17	17.2	1.785	0.646	0.2161	
30 minute winter	17	6.002	6.002:50%	17.2	2.192	0.371	0.0389	
30 minute winter	17	6.002	18	18.1	2.346	0.390	0.0383	
30 minute winter	18	1.007	1.007:50%	60.9	1.604	0.460	0.2290	
30 minute winter	18	1.007	19	62.1	1.854	0.469	0.2020	
30 minute winter	7	3.000	3.000:50%	0.0	0.000	0.000	0.0242	
30 minute winter	7	3.000	8	4.7	1.118	0.174	0.0491	
30 minute winter	8	3.001	10	4.7	0.942	0.186	0.1601	
30 minute winter	9	4.000	4.000:50%	0.0	0.000	0.000	0.0176	
30 minute winter	9	4.000	10	4.0	0.892	0.129	0.0483	
30 minute winter	10	3.002	3.002:50%	8.7	1.191	0.280	0.2282	
30 minute winter	10	3.002	13	15.4	1.743	0.496	0.2749	
30 minute winter	13	1.005	14	38.7	2.040	0.523	0.0709	
30 minute winter	12	5.001	5.001:50%	2.3	0.500	0.185	0.0475	
30 minute winter	12	5.001	13	2.8	0.467	0.226	0.0755	
30 minute winter	11	5.000	5.000:50%	0.0	0.000	0.000	0.0295	
30 minute winter	11	5.000	12	2.3	0.720	0.072	0.0878	

**Results for 2 year 30 minute winter. 270 minute analysis at 1 minute timestep. Mass balance: 99.94%**

Node Event	US Node	Peak (mins)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
30 minute winter	2	30	0.023	1.5	0.0256	0.0000	OK
30 minute winter	1.001:50%	30	0.035	3.7	0.0161	0.0000	OK
30 minute winter	1	1	0.000	0.0	0.0000	0.0000	OK
30 minute winter	1.000:50%	26	0.022	1.5	0.0024	0.0000	OK
30 minute winter	14	28	0.122	38.7	0.1382	0.0000	OK
30 minute winter	1.006:50%	28	0.131	42.8	0.3096	0.0000	OK
30 minute winter	20	29	0.152	65.0	0.1724	0.0000	OK
30 minute winter	1.009:50%	29	0.159	70.7	0.0136	0.0000	OK
30 minute winter	19	29	0.130	62.1	0.1866	0.0000	OK
30 minute winter	1.008:50%	29	0.133	65.0	0.0000	0.0000	OK
30 minute winter	22	1	0.000	0.0	0.0000	0.0000	OK
30 minute winter	7.000:50%	28	0.055	6.3	0.0000	0.0000	OK
30 minute winter	23	28	0.076	6.3	0.0855	0.0000	OK
30 minute winter	7.001:50%	28	0.118	13.8	0.0000	0.0000	OK
30 minute winter	28_OUT	39	0.283	31.3	0.3200	0.0000	OK
30 minute winter	30_OUT	1	0.000	20.1	0.0000	0.0000	OK
30 minute winter	21	29	0.228	70.7	0.3268	0.0000	OK
30 minute winter	21_OUT	31	0.302	75.8	0.4328	0.0000	OK
30 minute winter	3	30	0.039	3.7	0.0443	0.0000	OK
30 minute winter	1.002:50%	30	0.053	6.7	0.0000	0.0000	OK
30 minute winter	6	28	0.095	19.6	0.1079	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	2	1.001	1.001:50%	1.5	0.632	0.049	0.0849	
30 minute winter	2	1.001	3	3.7	1.090	0.121	0.1200	
30 minute winter	1	1.000	1.000:50%	0.0	0.000	0.000	0.0099	
30 minute winter	1	1.000	2	1.5	0.933	0.045	0.0205	
30 minute winter	14	1.006	1.006:50%	38.7	1.682	0.548	0.4049	
30 minute winter	14	1.006	18	42.8	1.829	0.605	0.4112	
30 minute winter	20	1.009	1.009:50%	65.0	1.758	0.447	0.3643	
30 minute winter	20	1.009	21	70.7	1.963	0.487	0.3550	
30 minute winter	19	1.008	1.008:50%	62.1	2.087	0.350	0.2903	
30 minute winter	19	1.008	20	65.0	1.968	0.366	0.3224	
30 minute winter	22	7.000	7.000:50%	0.0	0.000	0.000	0.0392	
30 minute winter	22	7.000	23	6.3	1.094	0.276	0.0774	
30 minute winter	23	7.001	7.001:50%	6.3	0.421	0.287	0.2439	
30 minute winter	23	7.001	24	13.8	0.716	0.627	0.3122	
30 minute winter	28_OUT	Flow through pond	29	96.3	0.195	0.002	134.2893	
30 minute winter	21	1.010	21_OUT	70.7	1.000	0.617	0.8817	
30 minute winter	21_OUT	Flow through pond	29	96.3	0.195	0.002	134.2893	
30 minute winter	3	1.002	1.002:50%	3.7	0.804	0.149	0.0539	
30 minute winter	3	1.002	4	6.7	1.023	0.270	0.0782	
30 minute winter	6	1.004	1.004:50%	19.6	1.429	0.554	0.2172	

**Results for 2 year 30 minute winter. 270 minute analysis at 1 minute timestep. Mass balance: 99.94%**

Node Event	US Node	Peak (mins)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
30 minute winter	1.004:50%	29	0.099	20.6	0.0000	0.0000	OK
30 minute winter	4	29	0.093	6.7	0.1056	0.0000	OK
30 minute winter	1.003:50%	29	0.100	9.4	0.1680	0.0000	OK
30 minute winter	5	1	0.000	0.0	0.0000	0.0000	OK
30 minute winter	2.000:50%	28	0.056	10.2	0.1179	0.0000	OK
30 minute winter	30	47	0.179	20.1	0.6189	0.0000	OK
30 minute winter	29	47	0.274	96.3	0.3100	0.0000	SURCHARGED
30 minute winter	25	1	0.000	0.0	0.0000	0.0000	OK
30 minute winter	8.000:50%	28	0.022	1.2	0.0000	0.0000	OK
30 minute winter	24	28	0.118	13.8	0.1337	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	1.004	13	20.6	1.502	0.583	0.2172	
30 minute winter	4	1.003	1.003:50%	6.7	0.494	0.394	0.0463	
30 minute winter	4	1.003	6	9.4	0.686	0.553	0.0469	
30 minute winter	5	2.000	2.000:50%	0.0	0.000	0.000	0.0784	
30 minute winter	5	2.000	6	10.2	1.699	0.294	0.1554	
30 minute winter	30	Hydro-Brake®	30_OUT	20.1				160.2
30 minute winter	29	9.000	30	20.1	1.148	1.622	0.2500	
30 minute winter	25	8.000	8.000:50%	0.0	0.000	0.000	0.0102	
30 minute winter	25	8.000	26	1.2	0.761	0.045	0.0203	
30 minute winter	24	7.002	26	13.8	0.789	0.612	0.0836	

**Results for 2 year 60 minute summer. 300 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
60 minute summer	26	44	0.112	13.2	0.1269	0.0000	OK
60 minute summer	7.003:50%	44	0.123	19.5	0.0000	0.0000	OK
60 minute summer	27	44	0.082	19.5	0.0927	0.0000	OK
60 minute summer	7.004:50%	44	0.099	27.8	0.1775	0.0000	OK
60 minute summer	28	55	0.256	27.8	0.2891	0.0000	OK
60 minute summer	15	40	0.010	0.1	0.0111	0.0000	OK
60 minute summer	6.000:50%	41	0.067	5.0	0.0000	0.0000	OK
60 minute summer	16	41	0.044	5.0	0.0498	0.0000	OK
60 minute summer	6.001:50%	43	0.087	15.1	0.0000	0.0000	OK
60 minute summer	17	43	0.062	15.1	0.0701	0.0000	OK
60 minute summer	6.002:50%	43	0.065	15.9	0.0775	0.0000	OK
60 minute summer	18	44	0.148	53.4	0.1670	0.0000	OK
60 minute summer	1.007:50%	44	0.146	54.5	0.3343	0.0000	OK
60 minute summer	7	1	0.000	0.0	0.0000	0.0000	OK
60 minute summer	3.000:50%	43	0.040	4.2	0.0000	0.0000	OK
60 minute summer	8	43	0.041	4.2	0.0468	0.0000	OK
60 minute summer	9	1	0.000	0.0	0.0000	0.0000	OK
60 minute summer	4.000:50%	43	0.034	3.5	0.0429	0.0000	OK
60 minute summer	10	43	0.051	7.7	0.0576	0.0000	OK
60 minute summer	3.002:50%	44	0.070	13.5	0.0000	0.0000	OK
60 minute summer	13	44	0.120	34.0	0.1353	0.0000	OK
60 minute summer	12	42	0.041	2.0	0.0464	0.0000	OK
60 minute summer	5.001:50%	44	0.045	2.4	0.0289	0.0000	OK
60 minute summer	11	1	0.000	0.0	0.0000	0.0000	OK
60 minute summer	5.000:50%	44	0.026	2.0	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
60 minute summer	26	7.003	7.003:50%	13.2	0.584	0.383	0.3710	
60 minute summer	26	7.003	27	19.5	1.032	0.566	0.3109	
60 minute summer	27	7.004	7.004:50%	19.5	1.221	0.235	0.3946	
60 minute summer	27	7.004	28	27.8	1.205	0.335	0.7249	
60 minute summer	28	7.005	28_OUT	27.3	0.523	0.550	1.0429	
60 minute summer	15	6.000	6.000:50%	-0.1	-0.023	-0.005	0.0464	
60 minute summer	15	6.000	16	5.0	0.848	0.403	0.0685	
60 minute summer	16	6.001	6.001:50%	5.0	0.684	0.188	0.1666	
60 minute summer	16	6.001	17	15.1	1.736	0.567	0.1953	
60 minute summer	17	6.002	6.002:50%	15.1	2.130	0.325	0.0352	
60 minute summer	17	6.002	18	15.9	2.275	0.343	0.0347	
60 minute summer	18	1.007	1.007:50%	53.4	1.558	0.404	0.2069	
60 minute summer	18	1.007	19	54.5	1.801	0.412	0.1828	
60 minute summer	7	3.000	3.000:50%	0.0	0.000	0.000	0.0223	
60 minute summer	7	3.000	8	4.2	1.083	0.155	0.0453	
60 minute summer	8	3.001	10	4.2	0.914	0.166	0.1470	
60 minute summer	9	4.000	4.000:50%	0.0	0.000	0.000	0.0160	
60 minute summer	9	4.000	10	3.5	0.861	0.113	0.0440	
60 minute summer	10	3.002	3.002:50%	7.7	1.157	0.248	0.2073	
60 minute summer	10	3.002	13	13.5	1.686	0.435	0.2488	
60 minute summer	13	1.005	14	34.0	1.989	0.459	0.0639	
60 minute summer	12	5.001	5.001:50%	2.0	0.484	0.161	0.0427	
60 minute summer	12	5.001	13	2.4	0.472	0.193	0.0639	
60 minute summer	11	5.000	5.000:50%	0.0	0.000	0.000	0.0268	
60 minute summer	11	5.000	12	2.0	0.693	0.063	0.0794	

**Results for 2 year 60 minute summer. 300 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
60 minute summer	2	46	0.021	1.3	0.0239	0.0000	OK
60 minute summer	1.001:50%	46	0.033	3.2	0.0139	0.0000	OK
60 minute summer	1	1	0.000	0.0	0.0000	0.0000	OK
60 minute summer	1.000:50%	42	0.020	1.3	0.0021	0.0000	OK
60 minute summer	14	44	0.113	34.0	0.1273	0.0000	OK
60 minute summer	1.006:50%	44	0.121	37.6	0.2623	0.0000	OK
60 minute summer	20	44	0.141	57.2	0.1589	0.0000	OK
60 minute summer	1.009:50%	44	0.147	62.2	0.0116	0.0000	OK
60 minute summer	19	44	0.121	54.5	0.1729	0.0000	OK
60 minute summer	1.008:50%	44	0.123	57.1	0.0000	0.0000	OK
60 minute summer	22	1	0.000	0.0	0.0000	0.0000	OK
60 minute summer	7.000:50%	43	0.052	5.6	0.0000	0.0000	OK
60 minute summer	23	43	0.068	5.6	0.0771	0.0000	OK
60 minute summer	7.001:50%	43	0.109	12.1	0.0000	0.0000	OK
60 minute summer	28_OUT	63	0.283	27.3	0.3206	0.0000	OK
60 minute summer	30_OUT	1	0.000	20.4	0.0000	0.0000	OK
60 minute summer	21	44	0.213	62.1	0.3051	0.0000	OK
60 minute summer	21_OUT	49	0.285	66.8	0.4073	0.0000	OK
60 minute summer	3	46	0.036	3.2	0.0412	0.0000	OK
60 minute summer	1.002:50%	44	0.050	5.9	0.0000	0.0000	OK
60 minute summer	6	44	0.088	17.2	0.0996	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	2	1.001	1.001:50%	1.3	0.607	0.042	0.0766	
60 minute summer	2	1.001	3	3.2	1.045	0.104	0.1082	
60 minute summer	1	1.000	1.000:50%	0.0	0.000	0.000	0.0090	
60 minute summer	1	1.000	2	1.3	0.894	0.039	0.0186	
60 minute summer	14	1.006	1.006:50%	34.0	1.635	0.481	0.3654	
60 minute summer	14	1.006	18	37.6	1.776	0.532	0.3720	
60 minute summer	20	1.009	1.009:50%	57.2	1.713	0.393	0.3288	
60 minute summer	20	1.009	21	62.1	1.904	0.428	0.3216	
60 minute summer	19	1.008	1.008:50%	54.5	2.031	0.307	0.2621	
60 minute summer	19	1.008	20	57.2	1.919	0.322	0.2906	
60 minute summer	22	7.000	7.000:50%	0.0	0.000	0.000	0.0360	
60 minute summer	22	7.000	23	5.6	1.060	0.245	0.0710	
60 minute summer	23	7.001	7.001:50%	5.6	0.420	0.254	0.2171	
60 minute summer	23	7.001	24	12.1	0.693	0.549	0.2829	
60 minute summer	28_OUT	Flow through pond	29	71.2	0.130	0.001	138.4884	
60 minute summer	21	1.010	21_OUT	62.1	0.961	0.542	0.8065	
60 minute summer	21_OUT	Flow through pond	29	71.2	0.130	0.001	138.4884	
60 minute summer	3	1.002	1.002:50%	3.2	0.775	0.129	0.0490	
60 minute summer	3	1.002	4	5.9	1.018	0.238	0.0687	
60 minute summer	6	1.004	1.004:50%	17.2	1.388	0.487	0.1965	

**Results for 2 year 60 minute summer. 300 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
60 minute summer	1.004:50%	44	0.091	18.1	0.0000	0.0000	OK
60 minute summer	4	44	0.086	5.9	0.0969	0.0000	OK
60 minute summer	1.003:50%	44	0.092	8.3	0.1432	0.0000	OK
60 minute summer	5	1	0.000	0.0	0.0000	0.0000	OK
60 minute summer	2.000:50%	44	0.052	8.9	0.1018	0.0000	OK
60 minute summer	30	67	0.180	20.4	0.6250	0.0000	OK
60 minute summer	29	67	0.281	71.2	0.3176	0.0000	SURCHARGED
60 minute summer	25	1	0.000	0.0	0.0000	0.0000	OK
60 minute summer	8.000:50%	44	0.021	1.1	0.0000	0.0000	OK
60 minute summer	24	44	0.109	12.1	0.1238	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	1.004	13	18.1	1.458	0.513	0.1969	
60 minute summer	4	1.003	1.003:50%	5.9	0.482	0.347	0.0418	
60 minute summer	4	1.003	6	8.3	0.666	0.488	0.0425	
60 minute summer	5	2.000	2.000:50%	0.0	0.000	0.000	0.0709	
60 minute summer	5	2.000	6	8.9	1.637	0.257	0.1408	
60 minute summer	30	Hydro-Brake®	30_OUT	20.4				179.3
60 minute summer	29	9.000	30	20.4	1.163	1.645	0.2505	
60 minute summer	25	8.000	8.000:50%	0.0	0.000	0.000	0.0096	
60 minute summer	25	8.000	26	1.1	0.741	0.041	0.0191	
60 minute summer	24	7.002	26	12.1	0.758	0.537	0.0763	

**Results for 2 year 60 minute winter. 300 minute analysis at 1 minute timestep. Mass balance: 99.94%**

Node Event	US Node	Peak (mins)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute winter	26	44	0.119	14.5	0.1342	0.0000	OK
60 minute winter	7.003:50%	43	0.129	21.3	0.0000	0.0000	OK
60 minute winter	27	44	0.086	21.3	0.0971	0.0000	OK
60 minute winter	7.004:50%	44	0.104	30.4	0.1957	0.0000	OK
60 minute winter	28	59	0.283	30.3	0.3203	0.0000	OK
60 minute winter	15	42	0.013	0.1	0.0150	0.0000	OK
60 minute winter	6.000:50%	43	0.070	5.5	0.0000	0.0000	OK
60 minute winter	16	43	0.046	5.5	0.0523	0.0000	OK
60 minute winter	6.001:50%	43	0.092	16.5	0.0000	0.0000	OK
60 minute winter	17	43	0.065	16.5	0.0738	0.0000	OK
60 minute winter	6.002:50%	44	0.069	17.4	0.0863	0.0000	OK
60 minute winter	18	44	0.156	58.4	0.1766	0.0000	OK
60 minute winter	1.007:50%	44	0.154	59.6	0.3716	0.0000	OK
60 minute winter	7	1	0.000	0.0	0.0000	0.0000	OK
60 minute winter	3.000:50%	41	0.042	4.5	0.0000	0.0000	OK
60 minute winter	8	43	0.043	4.5	0.0485	0.0000	OK
60 minute winter	9	1	0.000	0.0	0.0000	0.0000	OK
60 minute winter	4.000:50%	44	0.035	3.8	0.0466	0.0000	OK
60 minute winter	10	45	0.053	8.3	0.0599	0.0000	OK
60 minute winter	3.002:50%	43	0.074	14.7	0.0000	0.0000	OK
60 minute winter	13	43	0.127	37.1	0.1438	0.0000	OK
60 minute winter	12	44	0.043	2.2	0.0487	0.0000	OK
60 minute winter	5.001:50%	45	0.047	2.7	0.0326	0.0000	OK
60 minute winter	11	1	0.000	0.0	0.0000	0.0000	OK
60 minute winter	5.000:50%	44	0.027	2.2	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
60 minute winter	26	7.003	7.003:50%	14.5	0.599	0.420	0.3961	
60 minute winter	26	7.003	27	21.3	1.061	0.618	0.3305	
60 minute winter	27	7.004	7.004:50%	21.3	1.252	0.257	0.4211	
60 minute winter	27	7.004	28	30.3	1.190	0.366	0.7845	
60 minute winter	28	7.005	28_OUT	29.9	0.520	0.603	1.0947	
60 minute winter	15	6.000	6.000:50%	-0.1	-0.021	-0.005	0.0510	
60 minute winter	15	6.000	16	5.5	0.871	0.443	0.0733	
60 minute winter	16	6.001	6.001:50%	5.5	0.697	0.207	0.1785	
60 minute winter	16	6.001	17	16.5	1.770	0.620	0.2092	
60 minute winter	17	6.002	6.002:50%	16.5	2.171	0.356	0.0377	
60 minute winter	17	6.002	18	17.4	2.325	0.375	0.0372	
60 minute winter	18	1.007	1.007:50%	58.4	1.588	0.441	0.2217	
60 minute winter	18	1.007	19	59.6	1.837	0.450	0.1957	
60 minute winter	7	3.000	3.000:50%	0.0	0.000	0.000	0.0234	
60 minute winter	7	3.000	8	4.5	1.105	0.166	0.0476	
60 minute winter	8	3.001	10	4.5	0.930	0.178	0.1549	
60 minute winter	9	4.000	4.000:50%	0.0	0.000	0.000	0.0169	
60 minute winter	9	4.000	10	3.8	0.879	0.122	0.0466	
60 minute winter	10	3.002	3.002:50%	8.3	1.178	0.268	0.2204	
60 minute winter	10	3.002	13	14.7	1.723	0.474	0.2654	
60 minute winter	13	1.005	14	37.1	2.023	0.500	0.0685	
60 minute winter	12	5.001	5.001:50%	2.2	0.493	0.177	0.0461	
60 minute winter	12	5.001	13	2.7	0.467	0.218	0.0717	
60 minute winter	11	5.000	5.000:50%	0.0	0.000	0.000	0.0286	
60 minute winter	11	5.000	12	2.2	0.711	0.069	0.0849	

**Results for 2 year 60 minute winter. 300 minute analysis at 1 minute timestep. Mass balance: 99.94%**

Node Event	US Node	Peak (mins)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute winter	2	45	0.022	1.4	0.0247	0.0000	OK
60 minute winter	1.001:50%	45	0.034	3.5	0.0152	0.0000	OK
60 minute winter	1	1	0.000	0.0	0.0000	0.0000	OK
60 minute winter	1.000:50%	41	0.021	1.4	0.0023	0.0000	OK
60 minute winter	14	43	0.119	37.1	0.1344	0.0000	OK
60 minute winter	1.006:50%	44	0.128	41.0	0.2927	0.0000	OK
60 minute winter	20	44	0.148	62.4	0.1679	0.0000	OK
60 minute winter	1.009:50%	44	0.155	67.8	0.0129	0.0000	OK
60 minute winter	19	44	0.127	59.6	0.1821	0.0000	OK
60 minute winter	1.008:50%	44	0.130	62.4	0.0000	0.0000	OK
60 minute winter	22	1	0.000	0.0	0.0000	0.0000	OK
60 minute winter	7.000:50%	43	0.054	6.1	0.0000	0.0000	OK
60 minute winter	23	43	0.073	6.1	0.0827	0.0000	OK
60 minute winter	7.001:50%	43	0.115	13.3	0.0000	0.0000	OK
60 minute winter	28_OUT	64	0.313	29.9	0.3539	0.0000	OK
60 minute winter	30_OUT	1	0.000	21.5	0.0000	0.0000	OK
60 minute winter	21	44	0.223	67.8	0.3197	0.0000	OK
60 minute winter	21_OUT	47	0.305	72.6	0.4360	0.0000	OK
60 minute winter	3	46	0.038	3.5	0.0431	0.0000	OK
60 minute winter	1.002:50%	44	0.052	6.4	0.0000	0.0000	OK
60 minute winter	6	44	0.093	18.7	0.1049	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	2	1.001	1.001:50%	1.4	0.620	0.046	0.0814	
60 minute winter	2	1.001	3	3.5	1.074	0.114	0.1153	
60 minute winter	1	1.000	1.000:50%	0.0	0.000	0.000	0.0095	
60 minute winter	1	1.000	2	1.4	0.914	0.042	0.0196	
60 minute winter	14	1.006	1.006:50%	37.1	1.666	0.525	0.3912	
60 minute winter	14	1.006	18	41.0	1.811	0.580	0.3976	
60 minute winter	20	1.009	1.009:50%	62.4	1.745	0.429	0.3524	
60 minute winter	20	1.009	21	67.8	1.944	0.466	0.3437	
60 minute winter	19	1.008	1.008:50%	59.6	2.069	0.336	0.2810	
60 minute winter	19	1.008	20	62.4	1.953	0.351	0.3118	
60 minute winter	22	7.000	7.000:50%	0.0	0.000	0.000	0.0383	
60 minute winter	22	7.000	23	6.1	1.085	0.267	0.0755	
60 minute winter	23	7.001	7.001:50%	6.1	0.422	0.277	0.2354	
60 minute winter	23	7.001	24	13.3	0.709	0.603	0.3034	
60 minute winter	28_OUT	Flow through pond	29	67.8	0.140	0.001	156.5775	
60 minute winter	21	1.010	21_OUT	67.8	0.987	0.592	0.8574	
60 minute winter	21_OUT	Flow through pond	29	67.8	0.140	0.001	156.5775	
60 minute winter	3	1.002	1.002:50%	3.5	0.792	0.141	0.0520	
60 minute winter	3	1.002	4	6.4	1.019	0.258	0.0746	
60 minute winter	6	1.004	1.004:50%	18.7	1.414	0.530	0.2098	

**Results for 2 year 60 minute winter. 300 minute analysis at 1 minute timestep. Mass balance: 99.94%**

Node Event	US Node	Peak (mins)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute winter	1.004:50%	44	0.096	19.7	0.0000	0.0000	OK
60 minute winter	4	44	0.091	6.4	0.1024	0.0000	OK
60 minute winter	1.003:50%	44	0.097	9.0	0.1587	0.0000	OK
60 minute winter	5	1	0.000	0.0	0.0000	0.0000	OK
60 minute winter	2.000:50%	44	0.055	9.7	0.1117	0.0000	OK
60 minute winter	30	69	0.187	21.5	0.6483	0.0000	OK
60 minute winter	29	68	0.310	67.8	0.3502	0.0000	SURCHARGED
60 minute winter	25	1	0.000	0.0	0.0000	0.0000	OK
60 minute winter	8.000:50%	45	0.022	1.2	0.0000	0.0000	OK
60 minute winter	24	43	0.116	13.3	0.1307	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	1.004	13	19.7	1.487	0.558	0.2101	
60 minute winter	4	1.003	1.003:50%	6.4	0.489	0.376	0.0446	
60 minute winter	4	1.003	6	9.0	0.678	0.529	0.0453	
60 minute winter	5	2.000	2.000:50%	0.0	0.000	0.000	0.0756	
60 minute winter	5	2.000	6	9.7	1.676	0.280	0.1499	
60 minute winter	30	Hydro-Brake®	30_OUT	21.5				200.7
60 minute winter	29	9.000	30	21.5	1.224	1.735	0.2524	
60 minute winter	25	8.000	8.000:50%	0.0	0.000	0.000	0.0102	
60 minute winter	25	8.000	26	1.2	0.761	0.045	0.0203	
60 minute winter	24	7.002	26	13.3	0.779	0.588	0.0814	

**Results for 2 year 120 minute summer. 360 minute analysis at 2 minute timestep. Mass balance: 99.95%**

Node Event	US Node	Peak (mins)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
120 minute summer	26	74	0.104	11.7	0.1180	0.0000	OK
120 minute summer	7.003:50%	74	0.115	17.2	0.0000	0.0000	OK
120 minute summer	27	74	0.077	17.2	0.0868	0.0000	OK
120 minute summer	7.004:50%	74	0.092	24.5	0.1548	0.0000	OK
120 minute summer	28	100	0.263	24.5	0.2978	0.0000	OK
120 minute summer	15	76	0.005	0.0	0.0060	0.0000	OK
120 minute summer	6.000:50%	72	0.062	4.4	0.0000	0.0000	OK
120 minute summer	16	72	0.041	4.4	0.0467	0.0000	OK
120 minute summer	6.001:50%	74	0.080	13.3	0.0000	0.0000	OK
120 minute summer	17	74	0.058	13.3	0.0652	0.0000	OK
120 minute summer	6.002:50%	74	0.060	14.0	0.0667	0.0000	OK
120 minute summer	18	74	0.136	47.0	0.1542	0.0000	OK
120 minute summer	1.007:50%	74	0.136	48.0	0.2874	0.0000	OK
120 minute summer	7	2	0.000	0.0	0.0000	0.0000	OK
120 minute summer	3.000:50%	74	0.038	3.7	0.0000	0.0000	OK
120 minute summer	8	74	0.039	3.7	0.0439	0.0000	OK
120 minute summer	9	2	0.000	0.0	0.0000	0.0000	OK
120 minute summer	4.000:50%	74	0.032	3.1	0.0380	0.0000	OK
120 minute summer	10	74	0.048	6.8	0.0540	0.0000	OK
120 minute summer	3.002:50%	74	0.065	11.9	0.0000	0.0000	OK
120 minute summer	13	74	0.110	29.9	0.1240	0.0000	OK
120 minute summer	12	74	0.039	1.8	0.0438	0.0000	OK
120 minute summer	5.001:50%	74	0.042	2.2	0.0263	0.0000	OK
120 minute summer	11	2	0.000	0.0	0.0000	0.0000	OK
120 minute summer	5.000:50%	74	0.024	1.8	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
120 minute summer	26	7.003	7.003:50%	11.7	0.566	0.339	0.3392	
120 minute summer	26	7.003	27	17.2	0.994	0.499	0.2851	
120 minute summer	27	7.004	7.004:50%	17.2	1.180	0.207	0.3601	
120 minute summer	27	7.004	28	24.5	1.186	0.295	0.7025	
120 minute summer	28	7.005	28_OUT	24.0	0.460	0.483	1.0661	
120 minute summer	15	6.000	6.000:50%	0.0	-0.008	-0.002	0.0410	
120 minute summer	15	6.000	16	4.4	0.817	0.355	0.0627	
120 minute summer	16	6.001	6.001:50%	4.4	0.664	0.165	0.1515	
120 minute summer	16	6.001	17	13.3	1.687	0.499	0.1773	
120 minute summer	17	6.002	6.002:50%	13.3	2.070	0.287	0.0319	
120 minute summer	17	6.002	18	14.0	2.205	0.302	0.0315	
120 minute summer	18	1.007	1.007:50%	47.0	1.513	0.355	0.1872	
120 minute summer	18	1.007	19	47.9	1.747	0.362	0.1656	
120 minute summer	7	3.000	3.000:50%	0.0	0.000	0.000	0.0203	
120 minute summer	7	3.000	8	3.7	1.045	0.137	0.0414	
120 minute summer	8	3.001	10	3.7	0.881	0.146	0.1345	
120 minute summer	9	4.000	4.000:50%	0.0	0.000	0.000	0.0147	
120 minute summer	9	4.000	10	3.1	0.828	0.100	0.0404	
120 minute summer	10	3.002	3.002:50%	6.8	1.122	0.219	0.1892	
120 minute summer	10	3.002	13	11.9	1.633	0.383	0.2267	
120 minute summer	13	1.005	14	29.9	1.937	0.403	0.0577	
120 minute summer	12	5.001	5.001:50%	1.8	0.468	0.145	0.0397	
120 minute summer	12	5.001	13	2.2	0.471	0.177	0.0548	
120 minute summer	11	5.000	5.000:50%	0.0	0.000	0.000	0.0248	
120 minute summer	11	5.000	12	1.8	0.674	0.056	0.0734	

**Results for 2 year 120 minute summer. 360 minute analysis at 2 minute timestep. Mass balance: 99.95%**

Node Event	US Node	Peak (mins)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
120 minute summer	2	76	0.020	1.1	0.0221	0.0000	OK
120 minute summer	1.001:50%	76	0.031	2.8	0.0122	0.0000	OK
120 minute summer	1	2	0.000	0.0	0.0000	0.0000	OK
120 minute summer	1.000:50%	72	0.019	1.1	0.0018	0.0000	OK
120 minute summer	14	74	0.104	29.9	0.1178	0.0000	OK
120 minute summer	1.006:50%	74	0.112	33.0	0.2233	0.0000	OK
120 minute summer	20	74	0.130	50.2	0.1469	0.0000	OK
120 minute summer	1.009:50%	74	0.136	54.6	0.0099	0.0000	OK
120 minute summer	19	74	0.112	47.9	0.1604	0.0000	OK
120 minute summer	1.008:50%	74	0.114	50.2	0.0000	0.0000	OK
120 minute summer	22	2	0.000	0.0	0.0000	0.0000	OK
120 minute summer	7.000:50%	74	0.048	4.9	0.0000	0.0000	OK
120 minute summer	23	74	0.064	4.9	0.0719	0.0000	OK
120 minute summer	7.001:50%	74	0.101	10.7	0.0000	0.0000	OK
120 minute summer	28_OUT	100	0.295	24.0	0.3334	0.0000	OK
120 minute summer	30_OUT	2	0.000	20.9	0.0000	0.0000	OK
120 minute summer	21	74	0.199	54.6	0.2851	0.0000	OK
120 minute summer	21_OUT	78	0.270	58.5	0.3870	0.0000	OK
120 minute summer	3	76	0.034	2.8	0.0385	0.0000	OK
120 minute summer	1.002:50%	76	0.046	5.1	0.0000	0.0000	OK
120 minute summer	6	74	0.081	15.0	0.0918	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	2	1.001	1.001:50%	1.1	0.576	0.036	0.0692	
120 minute summer	2	1.001	3	2.8	1.006	0.091	0.0984	
120 minute summer	1	1.000	1.000:50%	0.0	0.000	0.000	0.0080	
120 minute summer	1	1.000	2	1.1	0.851	0.033	0.0165	
120 minute summer	14	1.006	1.006:50%	29.9	1.590	0.423	0.3304	
120 minute summer	14	1.006	18	33.0	1.721	0.466	0.3366	
120 minute summer	20	1.009	1.009:50%	50.2	1.666	0.345	0.2969	
120 minute summer	20	1.009	21	54.6	1.846	0.376	0.2915	
120 minute summer	19	1.008	1.008:50%	47.9	1.975	0.270	0.2369	
120 minute summer	19	1.008	20	50.2	1.869	0.283	0.2623	
120 minute summer	22	7.000	7.000:50%	0.0	0.000	0.000	0.0326	
120 minute summer	22	7.000	23	4.9	1.022	0.215	0.0644	
120 minute summer	23	7.001	7.001:50%	4.9	0.405	0.223	0.1974	
120 minute summer	23	7.001	24	10.7	0.671	0.486	0.2584	
120 minute summer	28_OUT	Flow through pond	29	50.2	0.092	0.001	145.6693	
120 minute summer	21	1.010	21_OUT	54.6	0.923	0.476	0.7379	
120 minute summer	21_OUT	Flow through pond	29	50.2	0.092	0.001	145.6693	
120 minute summer	3	1.002	1.002:50%	2.8	0.741	0.113	0.0443	
120 minute summer	3	1.002	4	5.1	1.013	0.206	0.0593	
120 minute summer	6	1.004	1.004:50%	15.0	1.344	0.425	0.1770	

**Results for 2 year 120 minute summer. 360 minute analysis at 2 minute timestep. Mass balance: 99.95%**

Node Event	US Node	Peak (mins)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
120 minute summer	1.004:50%	74	0.084	15.8	0.0000	0.0000	OK
120 minute summer	4	74	0.078	5.1	0.0883	0.0000	OK
120 minute summer	1.003:50%	74	0.085	7.2	0.1209	0.0000	OK
120 minute summer	5	2	0.000	0.0	0.0000	0.0000	OK
120 minute summer	2.000:50%	74	0.049	7.8	0.0886	0.0000	OK
120 minute summer	30	104	0.183	20.9	0.6350	0.0000	OK
120 minute summer	29	102	0.292	50.2	0.3305	0.0000	SURCHARGED
120 minute summer	25	2	0.000	0.0	0.0000	0.0000	OK
120 minute summer	8.000:50%	74	0.020	1.0	0.0000	0.0000	OK
120 minute summer	24	74	0.102	10.7	0.1155	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	1.004	13	15.8	1.411	0.447	0.1776	221.1
120 minute summer	4	1.003	1.003:50%	5.1	0.467	0.300	0.0373	
120 minute summer	4	1.003	6	7.2	0.645	0.423	0.0382	
120 minute summer	5	2.000	2.000:50%	0.0	0.000	0.000	0.0645	
120 minute summer	5	2.000	6	7.8	1.578	0.225	0.1280	
120 minute summer	30	Hydro-Brake®	30_OUT	20.9				
120 minute summer	29	9.000	30	20.9	1.189	1.684	0.2515	
120 minute summer	25	8.000	8.000:50%	0.0	0.000	0.000	0.0090	
120 minute summer	25	8.000	26	1.0	0.721	0.038	0.0179	
120 minute summer	24	7.002	26	10.7	0.731	0.475	0.0701	

**Results for 2 year 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	26	74	0.101	11.0	0.1138	0.0000	OK
120 minute winter	7.003:50%	74	0.112	16.3	0.0000	0.0000	OK
120 minute winter	27	74	0.075	16.3	0.0845	0.0000	OK
120 minute winter	7.004:50%	74	0.090	23.2	0.1463	0.0000	OK
120 minute winter	28	104	0.292	23.2	0.3305	0.0000	OK
120 minute winter	15	74	0.004	0.0	0.0044	0.0000	OK
120 minute winter	6.000:50%	72	0.061	4.2	0.0000	0.0000	OK
120 minute winter	16	72	0.040	4.2	0.0456	0.0000	OK
120 minute winter	6.001:50%	74	0.078	12.6	0.0000	0.0000	OK
120 minute winter	17	74	0.056	12.6	0.0632	0.0000	OK
120 minute winter	6.002:50%	74	0.059	13.3	0.0629	0.0000	OK
120 minute winter	18	74	0.133	44.9	0.1500	0.0000	OK
120 minute winter	1.007:50%	74	0.132	45.8	0.2724	0.0000	OK
120 minute winter	7	2	0.000	0.0	0.0000	0.0000	OK
120 minute winter	3.000:50%	74	0.037	3.5	0.0000	0.0000	OK
120 minute winter	8	74	0.038	3.5	0.0427	0.0000	OK
120 minute winter	9	2	0.000	0.0	0.0000	0.0000	OK
120 minute winter	4.000:50%	74	0.031	2.9	0.0356	0.0000	OK
120 minute winter	10	74	0.046	6.4	0.0523	0.0000	OK
120 minute winter	3.002:50%	74	0.063	11.3	0.0000	0.0000	OK
120 minute winter	13	74	0.106	28.6	0.1204	0.0000	OK
120 minute winter	12	74	0.038	1.7	0.0425	0.0000	OK
120 minute winter	5.001:50%	76	0.042	2.1	0.0252	0.0000	OK
120 minute winter	11	2	0.000	0.0	0.0000	0.0000	OK
120 minute winter	5.000:50%	74	0.024	1.7	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	26	7.003	7.003:50%	11.0	0.555	0.319	0.3256	
120 minute winter	26	7.003	27	16.3	0.978	0.473	0.2750	
120 minute winter	27	7.004	7.004:50%	16.3	1.164	0.197	0.3466	
120 minute winter	27	7.004	28	23.2	1.176	0.280	0.7396	
120 minute winter	28	7.005	28_OUT	22.8	0.433	0.458	1.1028	
120 minute winter	15	6.000	6.000:50%	0.0	-0.008	-0.002	0.0393	
120 minute winter	15	6.000	16	4.2	0.806	0.339	0.0606	
120 minute winter	16	6.001	6.001:50%	4.2	0.657	0.158	0.1458	
120 minute winter	16	6.001	17	12.6	1.666	0.473	0.1701	
120 minute winter	17	6.002	6.002:50%	12.6	2.043	0.272	0.0306	
120 minute winter	17	6.002	18	13.3	2.177	0.287	0.0303	
120 minute winter	18	1.007	1.007:50%	44.9	1.499	0.339	0.1806	
120 minute winter	18	1.007	19	45.8	1.729	0.346	0.1599	
120 minute winter	7	3.000	3.000:50%	0.0	0.000	0.000	0.0195	
120 minute winter	7	3.000	8	3.5	1.029	0.129	0.0397	
120 minute winter	8	3.001	10	3.5	0.869	0.138	0.1289	
120 minute winter	9	4.000	4.000:50%	0.0	0.000	0.000	0.0140	
120 minute winter	9	4.000	10	2.9	0.814	0.093	0.0386	
120 minute winter	10	3.002	3.002:50%	6.4	1.099	0.206	0.1817	
120 minute winter	10	3.002	13	11.3	1.611	0.364	0.2182	
120 minute winter	13	1.005	14	28.6	1.920	0.386	0.0557	
120 minute winter	12	5.001	5.001:50%	1.7	0.459	0.137	0.0383	
120 minute winter	12	5.001	13	2.1	0.467	0.169	0.0518	
120 minute winter	11	5.000	5.000:50%	0.0	0.000	0.000	0.0239	
120 minute winter	11	5.000	12	1.7	0.663	0.053	0.0703	

**Results for 2 year 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	2	76	0.020	1.1	0.0221	0.0000	OK
120 minute winter	1.001:50%	76	0.030	2.7	0.0117	0.0000	OK
120 minute winter	1	2	0.000	0.0	0.0000	0.0000	OK
120 minute winter	1.000:50%	72	0.019	1.1	0.0018	0.0000	OK
120 minute winter	14	74	0.101	28.6	0.1148	0.0000	OK
120 minute winter	1.006:50%	74	0.109	31.6	0.2122	0.0000	OK
120 minute winter	20	74	0.126	48.0	0.1429	0.0000	OK
120 minute winter	1.009:50%	74	0.132	52.2	0.0094	0.0000	OK
120 minute winter	19	74	0.109	45.8	0.1563	0.0000	OK
120 minute winter	1.008:50%	74	0.111	48.0	0.0000	0.0000	OK
120 minute winter	22	2	0.000	0.0	0.0000	0.0000	OK
120 minute winter	7.000:50%	74	0.046	4.6	0.0000	0.0000	OK
120 minute winter	23	76	0.062	4.6	0.0696	0.0000	OK
120 minute winter	7.001:50%	74	0.097	10.1	0.0000	0.0000	OK
120 minute winter	28_OUT	106	0.323	22.8	0.3658	0.0000	OK
120 minute winter	30_OUT	2	0.000	21.9	0.0000	0.0000	OK
120 minute winter	21	74	0.195	52.1	0.2785	0.0000	OK
120 minute winter	21_OUT	82	0.274	55.7	0.3919	0.0000	OK
120 minute winter	3	78	0.033	2.7	0.0378	0.0000	OK
120 minute winter	1.002:50%	78	0.045	4.9	0.0000	0.0000	OK
120 minute winter	6	74	0.079	14.4	0.0896	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	2	1.001	1.001:50%	1.1	0.578	0.036	0.0680	
120 minute winter	2	1.001	3	2.7	0.995	0.088	0.0959	
120 minute winter	1	1.000	1.000:50%	0.0	0.000	0.000	0.0080	
120 minute winter	1	1.000	2	1.1	0.851	0.033	0.0165	
120 minute winter	14	1.006	1.006:50%	28.6	1.573	0.404	0.3196	
120 minute winter	14	1.006	18	31.6	1.704	0.447	0.3259	
120 minute winter	20	1.009	1.009:50%	48.0	1.650	0.330	0.2864	
120 minute winter	20	1.009	21	52.2	1.825	0.359	0.2816	
120 minute winter	19	1.008	1.008:50%	45.8	1.954	0.258	0.2285	
120 minute winter	19	1.008	20	48.0	1.852	0.270	0.2529	
120 minute winter	22	7.000	7.000:50%	0.0	0.000	0.000	0.0311	
120 minute winter	22	7.000	23	4.6	1.004	0.201	0.0615	
120 minute winter	23	7.001	7.001:50%	4.6	0.399	0.209	0.1887	
120 minute winter	23	7.001	24	10.1	0.662	0.459	0.2475	
120 minute winter	28_OUT	Flow through pond	29	48.4	0.101	0.001	163.4590	
120 minute winter	21	1.010	21_OUT	52.1	0.910	0.455	0.7151	
120 minute winter	21_OUT	Flow through pond	29	48.4	0.101	0.001	163.4590	
120 minute winter	3	1.002	1.002:50%	2.7	0.735	0.109	0.0431	
120 minute winter	3	1.002	4	4.9	1.015	0.198	0.0568	
120 minute winter	6	1.004	1.004:50%	14.4	1.331	0.408	0.1717	

**Results for 2 year 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	1.004:50%	74	0.082	15.2	0.0000	0.0000	OK
120 minute winter	4	74	0.076	4.9	0.0860	0.0000	OK
120 minute winter	1.003:50%	74	0.083	6.9	0.1150	0.0000	OK
120 minute winter	5	2	0.000	0.0	0.0000	0.0000	OK
120 minute winter	2.000:50%	74	0.048	7.5	0.0850	0.0000	OK
120 minute winter	30	110	0.189	21.9	0.6564	0.0000	OK
120 minute winter	29	108	0.321	48.4	0.3626	0.0000	SURCHARGED
120 minute winter	25	2	0.000	0.0	0.0000	0.0000	OK
120 minute winter	8.000:50%	72	0.019	0.9	0.0000	0.0000	OK
120 minute winter	24	74	0.099	10.1	0.1118	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	1.004	13	15.2	1.397	0.430	0.1725	
120 minute winter	4	1.003	1.003:50%	4.9	0.468	0.288	0.0360	
120 minute winter	4	1.003	6	6.9	0.638	0.406	0.0370	
120 minute winter	5	2.000	2.000:50%	0.0	0.000	0.000	0.0626	
120 minute winter	5	2.000	6	7.5	1.561	0.216	0.1244	
120 minute winter	30	Hydro-Brake®	30_OUT	21.9				247.4
120 minute winter	29	9.000	30	21.9	1.246	1.766	0.2529	
120 minute winter	25	8.000	8.000:50%	0.0	0.000	0.000	0.0083	
120 minute winter	25	8.000	26	0.9	0.698	0.034	0.0166	
120 minute winter	24	7.002	26	10.1	0.719	0.448	0.0673	

**Results for 2 year 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	26	104	0.094	9.7	0.1059	0.0000	OK
180 minute summer	7.003:50%	104	0.105	14.4	0.0000	0.0000	OK
180 minute summer	27	104	0.070	14.4	0.0792	0.0000	OK
180 minute summer	7.004:50%	104	0.084	20.5	0.1282	0.0000	OK
180 minute summer	28	136	0.261	20.5	0.2949	0.0000	OK
180 minute summer	15	4	0.000	0.0	0.0000	0.0000	OK
180 minute summer	6.000:50%	104	0.057	3.7	0.0000	0.0000	OK
180 minute summer	16	104	0.038	3.7	0.0427	0.0000	OK
180 minute summer	6.001:50%	104	0.072	11.2	0.0000	0.0000	OK
180 minute summer	17	104	0.052	11.2	0.0591	0.0000	OK
180 minute summer	6.002:50%	104	0.055	11.8	0.0548	0.0000	OK
180 minute summer	18	104	0.123	39.4	0.1387	0.0000	OK
180 minute summer	1.007:50%	104	0.122	40.1	0.2344	0.0000	OK
180 minute summer	7	4	0.000	0.0	0.0000	0.0000	OK
180 minute summer	3.000:50%	104	0.035	3.1	0.0000	0.0000	OK
180 minute summer	8	104	0.035	3.1	0.0401	0.0000	OK
180 minute summer	9	4	0.000	0.0	0.0000	0.0000	OK
180 minute summer	4.000:50%	104	0.029	2.6	0.0319	0.0000	OK
180 minute summer	10	104	0.043	5.7	0.0491	0.0000	OK
180 minute summer	3.002:50%	104	0.059	10.0	0.0000	0.0000	OK
180 minute summer	13	104	0.098	25.1	0.1105	0.0000	OK
180 minute summer	12	104	0.035	1.5	0.0399	0.0000	OK
180 minute summer	5.001:50%	108	0.038	1.8	0.0215	0.0000	OK
180 minute summer	11	4	0.000	0.0	0.0000	0.0000	OK
180 minute summer	5.000:50%	104	0.022	1.5	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
180 minute summer	26	7.003	7.003:50%	9.7	0.536	0.282	0.2979	
180 minute summer	26	7.003	27	14.4	0.941	0.418	0.2526	
180 minute summer	27	7.004	7.004:50%	14.4	1.124	0.174	0.3169	
180 minute summer	27	7.004	28	20.5	1.141	0.247	0.6632	
180 minute summer	28	7.005	28_OUT	20.0	0.406	0.404	1.0603	
180 minute summer	15	6.000	6.000:50%	0.0	0.000	0.000	0.0354	
180 minute summer	15	6.000	16	3.7	0.776	0.298	0.0554	
180 minute summer	16	6.001	6.001:50%	3.7	0.637	0.139	0.1333	
180 minute summer	16	6.001	17	11.2	1.619	0.420	0.1555	
180 minute summer	17	6.002	6.002:50%	11.2	1.987	0.241	0.0279	
180 minute summer	17	6.002	18	11.8	2.110	0.254	0.0277	
180 minute summer	18	1.007	1.007:50%	39.3	1.455	0.297	0.1632	
180 minute summer	18	1.007	19	40.1	1.675	0.303	0.1447	
180 minute summer	7	3.000	3.000:50%	0.0	0.000	0.000	0.0179	
180 minute summer	7	3.000	8	3.1	0.994	0.114	0.0364	
180 minute summer	8	3.001	10	3.1	0.837	0.122	0.1180	
180 minute summer	9	4.000	4.000:50%	0.0	0.000	0.000	0.0129	
180 minute summer	9	4.000	10	2.6	0.788	0.084	0.0354	
180 minute summer	10	3.002	3.002:50%	5.7	1.067	0.182	0.1656	
180 minute summer	10	3.002	13	9.9	1.556	0.320	0.1984	
180 minute summer	13	1.005	14	25.1	1.866	0.338	0.0502	
180 minute summer	12	5.001	5.001:50%	1.5	0.447	0.121	0.0347	
180 minute summer	12	5.001	13	1.8	0.469	0.145	0.0432	
180 minute summer	11	5.000	5.000:50%	0.0	0.000	0.000	0.0219	
180 minute summer	11	5.000	12	1.5	0.639	0.047	0.0644	

**Results for 2 year 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	2	104	0.018	1.0	0.0209	0.0000	OK
180 minute summer	1.001:50%	104	0.028	2.4	0.0103	0.0000	OK
180 minute summer	1	4	0.000	0.0	0.0000	0.0000	OK
180 minute summer	1.000:50%	104	0.018	1.0	0.0016	0.0000	OK
180 minute summer	14	104	0.094	25.1	0.1063	0.0000	OK
180 minute summer	1.006:50%	104	0.100	27.6	0.1810	0.0000	OK
180 minute summer	20	104	0.117	42.0	0.1321	0.0000	OK
180 minute summer	1.009:50%	104	0.123	45.6	0.0080	0.0000	OK
180 minute summer	19	104	0.101	40.1	0.1452	0.0000	OK
180 minute summer	1.008:50%	104	0.103	42.0	0.0000	0.0000	OK
180 minute summer	22	4	0.000	0.0	0.0000	0.0000	OK
180 minute summer	7.000:50%	104	0.044	4.1	0.0000	0.0000	OK
180 minute summer	23	104	0.058	4.1	0.0655	0.0000	OK
180 minute summer	7.001:50%	104	0.091	9.0	0.0000	0.0000	OK
180 minute summer	28_OUT	136	0.292	20.0	0.3305	0.0000	OK
180 minute summer	30_OUT	4	0.000	20.8	0.0000	0.0000	OK
180 minute summer	21	108	0.182	45.6	0.2598	0.0000	OK
180 minute summer	21_OUT	112	0.250	48.9	0.3572	0.0000	OK
180 minute summer	3	104	0.031	2.4	0.0353	0.0000	OK
180 minute summer	1.002:50%	104	0.043	4.4	0.0000	0.0000	OK
180 minute summer	6	104	0.074	12.7	0.0834	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
180 minute summer	2	1.001	1.001:50%	1.0	0.563	0.032	0.0623	
180 minute summer	2	1.001	3	2.4	0.959	0.077	0.0873	
180 minute summer	1	1.000	1.000:50%	0.0	0.000	0.000	0.0075	
180 minute summer	1	1.000	2	1.0	0.825	0.030	0.0153	
180 minute summer	14	1.006	1.006:50%	25.0	1.525	0.354	0.2886	
180 minute summer	14	1.006	18	27.6	1.647	0.390	0.2944	
180 minute summer	20	1.009	1.009:50%	41.9	1.603	0.289	0.2582	
180 minute summer	20	1.009	21	45.6	1.766	0.314	0.2547	
180 minute summer	19	1.008	1.008:50%	40.1	1.896	0.226	0.2064	
180 minute summer	19	1.008	20	42.0	1.798	0.236	0.2279	
180 minute summer	22	7.000	7.000:50%	0.0	0.000	0.000	0.0286	
180 minute summer	22	7.000	23	4.1	0.972	0.179	0.0565	
180 minute summer	23	7.001	7.001:50%	4.1	0.386	0.186	0.1726	
180 minute summer	23	7.001	24	9.0	0.642	0.407	0.2264	
180 minute summer	28_OUT	Flow through pond	29	43.4	0.081	0.001	144.0273	
180 minute summer	21	1.010	21_OUT	45.6	0.875	0.398	0.6510	
180 minute summer	21_OUT	Flow through pond	29	43.4	0.081	0.001	144.0273	
180 minute summer	3	1.002	1.002:50%	2.4	0.701	0.095	0.0396	
180 minute summer	3	1.002	4	4.3	1.012	0.175	0.0503	
180 minute summer	6	1.004	1.004:50%	12.7	1.290	0.359	0.1559	

**Results for 2 year 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	1.004:50%	104	0.076	13.4	0.0000	0.0000	OK
180 minute summer	4	104	0.070	4.3	0.0795	0.0000	OK
180 minute summer	1.003:50%	104	0.077	6.1	0.0995	0.0000	OK
180 minute summer	5	4	0.000	0.0	0.0000	0.0000	OK
180 minute summer	2.000:50%	104	0.045	6.6	0.0742	0.0000	OK
180 minute summer	30	140	0.183	20.8	0.6327	0.0000	OK
180 minute summer	29	136	0.290	43.4	0.3275	0.0000	SURCHARGED
180 minute summer	25	4	0.000	0.0	0.0000	0.0000	OK
180 minute summer	8.000:50%	104	0.018	0.8	0.0000	0.0000	OK
180 minute summer	24	104	0.092	9.0	0.1045	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	1.004	13	13.4	1.352	0.378	0.1567	
180 minute summer	4	1.003	1.003:50%	4.3	0.452	0.254	0.0326	
180 minute summer	4	1.003	6	6.1	0.619	0.359	0.0336	
180 minute summer	5	2.000	2.000:50%	0.0	0.000	0.000	0.0570	
180 minute summer	5	2.000	6	6.6	1.506	0.190	0.1133	
180 minute summer	30	Hydro-Brake®	30_OUT	20.8				248.1
180 minute summer	29	9.000	30	20.8	1.183	1.675	0.2512	
180 minute summer	25	8.000	8.000:50%	0.0	0.000	0.000	0.0077	
180 minute summer	25	8.000	26	0.8	0.673	0.030	0.0153	
180 minute summer	24	7.002	26	8.9	0.694	0.397	0.0618	

**Results for 2 year 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	26	104	0.087	8.7	0.0989	0.0000	OK
180 minute winter	7.003:50%	104	0.099	12.8	0.0000	0.0000	OK
180 minute winter	27	108	0.066	12.8	0.0746	0.0000	OK
180 minute winter	7.004:50%	104	0.079	18.2	0.1136	0.0000	OK
180 minute winter	28	144	0.286	18.2	0.3234	0.0000	OK
180 minute winter	15	4	0.000	0.0	0.0000	0.0000	OK
180 minute winter	6.000:50%	104	0.054	3.3	0.0000	0.0000	OK
180 minute winter	16	104	0.036	3.3	0.0404	0.0000	OK
180 minute winter	6.001:50%	104	0.067	9.9	0.0000	0.0000	OK
180 minute winter	17	104	0.049	9.9	0.0553	0.0000	OK
180 minute winter	6.002:50%	104	0.051	10.4	0.0477	0.0000	OK
180 minute winter	18	108	0.114	35.0	0.1295	0.0000	OK
180 minute winter	1.007:50%	108	0.115	35.7	0.2056	0.0000	OK
180 minute winter	7	4	0.000	0.0	0.0000	0.0000	OK
180 minute winter	3.000:50%	104	0.032	2.7	0.0000	0.0000	OK
180 minute winter	8	104	0.033	2.7	0.0375	0.0000	OK
180 minute winter	9	4	0.000	0.0	0.0000	0.0000	OK
180 minute winter	4.000:50%	104	0.028	2.3	0.0283	0.0000	OK
180 minute winter	10	108	0.041	5.0	0.0461	0.0000	OK
180 minute winter	3.002:50%	108	0.055	8.8	0.0000	0.0000	OK
180 minute winter	13	104	0.091	22.3	0.1027	0.0000	OK
180 minute winter	12	108	0.033	1.3	0.0370	0.0000	OK
180 minute winter	5.001:50%	112	0.036	1.6	0.0194	0.0000	OK
180 minute winter	11	4	0.000	0.0	0.0000	0.0000	OK
180 minute winter	5.000:50%	104	0.021	1.3	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
180 minute winter	26	7.003	7.003:50%	8.7	0.520	0.251	0.2730	
180 minute winter	26	7.003	27	12.8	0.907	0.370	0.2324	
180 minute winter	27	7.004	7.004:50%	12.8	1.086	0.154	0.2911	
180 minute winter	27	7.004	28	18.2	1.128	0.220	0.7017	
180 minute winter	28	7.005	28_OUT	17.9	0.373	0.359	1.0974	
180 minute winter	15	6.000	6.000:50%	0.0	0.000	0.000	0.0327	
180 minute winter	15	6.000	16	3.3	0.750	0.266	0.0512	
180 minute winter	16	6.001	6.001:50%	3.3	0.617	0.124	0.1221	
180 minute winter	16	6.001	17	9.9	1.570	0.372	0.1420	
180 minute winter	17	6.002	6.002:50%	9.9	1.931	0.213	0.0254	
180 minute winter	17	6.002	18	10.4	2.044	0.224	0.0253	
180 minute winter	18	1.007	1.007:50%	35.0	1.416	0.264	0.1491	
180 minute winter	18	1.007	19	35.7	1.628	0.270	0.1325	
180 minute winter	7	3.000	3.000:50%	0.0	0.000	0.000	0.0162	
180 minute winter	7	3.000	8	2.7	0.956	0.100	0.0330	
180 minute winter	8	3.001	10	2.7	0.803	0.107	0.1077	
180 minute winter	9	4.000	4.000:50%	0.0	0.000	0.000	0.0119	
180 minute winter	9	4.000	10	2.3	0.763	0.074	0.0325	
180 minute winter	10	3.002	3.002:50%	5.0	1.031	0.161	0.1516	
180 minute winter	10	3.002	13	8.8	1.507	0.284	0.1817	
180 minute winter	13	1.005	14	22.3	1.821	0.301	0.0459	
180 minute winter	12	5.001	5.001:50%	1.3	0.426	0.105	0.0317	
180 minute winter	12	5.001	13	1.6	0.476	0.129	0.0369	
180 minute winter	11	5.000	5.000:50%	0.0	0.000	0.000	0.0198	
180 minute winter	11	5.000	12	1.3	0.618	0.041	0.0579	

**Results for 2 year 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	2	104	0.018	0.9	0.0198	0.0000	OK
180 minute winter	1.001:50%	104	0.027	2.2	0.0095	0.0000	OK
180 minute winter	1	4	0.000	0.0	0.0000	0.0000	OK
180 minute winter	1.000:50%	104	0.017	0.9	0.0015	0.0000	OK
180 minute winter	14	104	0.088	22.3	0.0997	0.0000	OK
180 minute winter	1.006:50%	104	0.094	24.6	0.1587	0.0000	OK
180 minute winter	20	108	0.109	37.4	0.1236	0.0000	OK
180 minute winter	1.009:50%	108	0.115	40.7	0.0071	0.0000	OK
180 minute winter	19	108	0.095	35.7	0.1362	0.0000	OK
180 minute winter	1.008:50%	108	0.096	37.4	0.0000	0.0000	OK
180 minute winter	22	4	0.000	0.0	0.0000	0.0000	OK
180 minute winter	7.000:50%	104	0.041	3.7	0.0000	0.0000	OK
180 minute winter	23	104	0.055	3.7	0.0621	0.0000	OK
180 minute winter	7.001:50%	104	0.085	8.0	0.0000	0.0000	OK
180 minute winter	28_OUT	144	0.317	17.9	0.3588	0.0000	OK
180 minute winter	30_OUT	4	0.000	21.7	0.0000	0.0000	OK
180 minute winter	21	108	0.172	40.7	0.2455	0.0000	OK
180 minute winter	21_OUT	128	0.252	43.5	0.3602	0.0000	OK
180 minute winter	3	104	0.030	2.2	0.0338	0.0000	OK
180 minute winter	1.002:50%	104	0.041	4.0	0.0000	0.0000	OK
180 minute winter	6	104	0.069	11.4	0.0784	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	2	1.001	1.001:50%	0.9	0.539	0.029	0.0583	
180 minute winter	2	1.001	3	2.2	0.933	0.071	0.0820	
180 minute winter	1	1.000	1.000:50%	0.0	0.000	0.000	0.0069	
180 minute winter	1	1.000	2	0.9	0.799	0.027	0.0142	
180 minute winter	14	1.006	1.006:50%	22.3	1.483	0.316	0.2646	
180 minute winter	14	1.006	18	24.6	1.600	0.348	0.2703	
180 minute winter	20	1.009	1.009:50%	37.4	1.561	0.258	0.2364	
180 minute winter	20	1.009	21	40.7	1.716	0.280	0.2340	
180 minute winter	19	1.008	1.008:50%	35.7	1.845	0.201	0.1889	
180 minute winter	19	1.008	20	37.4	1.753	0.211	0.2085	
180 minute winter	22	7.000	7.000:50%	0.0	0.000	0.000	0.0265	
180 minute winter	22	7.000	23	3.7	0.945	0.162	0.0525	
180 minute winter	23	7.001	7.001:50%	3.7	0.379	0.167	0.1588	
180 minute winter	23	7.001	24	8.0	0.623	0.362	0.2075	
180 minute winter	28_OUT	Flow through pond	29	40.1	0.083	0.001	159.6687	
180 minute winter	21	1.010	21_OUT	40.8	0.844	0.356	0.6029	
180 minute winter	21_OUT	Flow through pond	29	40.1	0.083	0.001	159.6687	
180 minute winter	3	1.002	1.002:50%	2.2	0.682	0.087	0.0373	
180 minute winter	3	1.002	4	3.9	1.010	0.159	0.0455	
180 minute winter	6	1.004	1.004:50%	11.4	1.257	0.322	0.1436	

**Results for 2 year 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	1.004:50%	104	0.072	12.0	0.0000	0.0000	OK
180 minute winter	4	104	0.066	3.9	0.0747	0.0000	OK
180 minute winter	1.003:50%	104	0.072	5.5	0.0882	0.0000	OK
180 minute winter	5	4	0.000	0.0	0.0000	0.0000	OK
180 minute winter	2.000:50%	104	0.042	5.9	0.0660	0.0000	OK
180 minute winter	30	148	0.188	21.7	0.6520	0.0000	OK
180 minute winter	29	148	0.315	40.1	0.3558	0.0000	SURCHARGED
180 minute winter	25	4	0.000	0.0	0.0000	0.0000	OK
180 minute winter	8.000:50%	104	0.017	0.7	0.0000	0.0000	OK
180 minute winter	24	104	0.087	8.0	0.0979	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	1.004	13	11.9	1.314	0.338	0.1443	
180 minute winter	4	1.003	1.003:50%	3.9	0.445	0.231	0.0301	
180 minute winter	4	1.003	6	5.5	0.604	0.323	0.0310	
180 minute winter	5	2.000	2.000:50%	0.0	0.000	0.000	0.0526	
180 minute winter	5	2.000	6	5.9	1.459	0.170	0.1045	
180 minute winter	30	Hydro-Brake®	30_OUT	21.7				278.4
180 minute winter	29	9.000	30	21.7	1.234	1.749	0.2526	
180 minute winter	25	8.000	8.000:50%	0.0	0.000	0.000	0.0070	
180 minute winter	25	8.000	26	0.7	0.647	0.026	0.0139	
180 minute winter	24	7.002	26	8.0	0.672	0.353	0.0568	

**Results for 2 year 240 minute summer. 480 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
240 minute summer	26	136	0.087	8.5	0.0979	0.0000	OK
240 minute summer	7.003:50%	136	0.099	12.6	0.0000	0.0000	OK
240 minute summer	27	136	0.066	12.6	0.0741	0.0000	OK
240 minute summer	7.004:50%	136	0.079	18.0	0.1121	0.0000	OK
240 minute summer	28	168	0.255	18.0	0.2889	0.0000	OK
240 minute summer	15	4	0.000	0.0	0.0000	0.0000	OK
240 minute summer	6.000:50%	136	0.054	3.3	0.0000	0.0000	OK
240 minute summer	16	136	0.036	3.3	0.0404	0.0000	OK
240 minute summer	6.001:50%	136	0.067	9.8	0.0000	0.0000	OK
240 minute summer	17	136	0.049	9.8	0.0550	0.0000	OK
240 minute summer	6.002:50%	136	0.051	10.3	0.0472	0.0000	OK
240 minute summer	18	136	0.114	34.7	0.1288	0.0000	OK
240 minute summer	1.007:50%	136	0.114	35.4	0.2036	0.0000	OK
240 minute summer	7	4	0.000	0.0	0.0000	0.0000	OK
240 minute summer	3.000:50%	136	0.032	2.7	0.0000	0.0000	OK
240 minute summer	8	136	0.033	2.7	0.0375	0.0000	OK
240 minute summer	9	4	0.000	0.0	0.0000	0.0000	OK
240 minute summer	4.000:50%	136	0.028	2.3	0.0283	0.0000	OK
240 minute summer	10	136	0.041	5.0	0.0461	0.0000	OK
240 minute summer	3.002:50%	136	0.055	8.8	0.0000	0.0000	OK
240 minute summer	13	136	0.090	22.1	0.1020	0.0000	OK
240 minute summer	12	136	0.033	1.3	0.0369	0.0000	OK
240 minute summer	5.001:50%	140	0.037	1.6	0.0194	0.0000	OK
240 minute summer	11	4	0.000	0.0	0.0000	0.0000	OK
240 minute summer	5.000:50%	136	0.021	1.3	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
240 minute summer	26	7.003	7.003:50%	8.5	0.517	0.247	0.2700	
240 minute summer	26	7.003	27	12.6	0.903	0.366	0.2305	
240 minute summer	27	7.004	7.004:50%	12.6	1.081	0.152	0.2886	
240 minute summer	27	7.004	28	18.0	1.093	0.217	0.6350	
240 minute summer	28	7.005	28_OUT	17.6	0.372	0.355	1.0472	
240 minute summer	15	6.000	6.000:50%	0.0	0.000	0.000	0.0327	
240 minute summer	15	6.000	16	3.3	0.750	0.266	0.0512	
240 minute summer	16	6.001	6.001:50%	3.3	0.620	0.124	0.1214	
240 minute summer	16	6.001	17	9.8	1.566	0.368	0.1409	
240 minute summer	17	6.002	6.002:50%	9.8	1.926	0.211	0.0253	
240 minute summer	17	6.002	18	10.3	2.039	0.222	0.0251	
240 minute summer	18	1.007	1.007:50%	34.7	1.413	0.262	0.1481	
240 minute summer	18	1.007	19	35.4	1.625	0.267	0.1316	
240 minute summer	7	3.000	3.000:50%	0.0	0.000	0.000	0.0162	
240 minute summer	7	3.000	8	2.7	0.956	0.100	0.0330	
240 minute summer	8	3.001	10	2.7	0.803	0.107	0.1077	
240 minute summer	9	4.000	4.000:50%	0.0	0.000	0.000	0.0119	
240 minute summer	9	4.000	10	2.3	0.763	0.074	0.0325	
240 minute summer	10	3.002	3.002:50%	5.0	1.031	0.161	0.1516	
240 minute summer	10	3.002	13	8.8	1.507	0.284	0.1817	
240 minute summer	13	1.005	14	22.1	1.817	0.298	0.0455	
240 minute summer	12	5.001	5.001:50%	1.3	0.426	0.105	0.0317	
240 minute summer	12	5.001	13	1.6	0.478	0.129	0.0365	
240 minute summer	11	5.000	5.000:50%	0.0	0.000	0.000	0.0198	
240 minute summer	11	5.000	12	1.3	0.618	0.041	0.0579	

**Results for 2 year 240 minute summer. 480 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
240 minute summer	2	132	0.017	0.8	0.0190	0.0000	OK
240 minute summer	1.001:50%	136	0.027	2.1	0.0092	0.0000	OK
240 minute summer	1	4	0.000	0.0	0.0000	0.0000	OK
240 minute summer	1.000:50%	128	0.016	0.8	0.0013	0.0000	OK
240 minute summer	14	136	0.088	22.1	0.0991	0.0000	OK
240 minute summer	1.006:50%	136	0.094	24.4	0.1572	0.0000	OK
240 minute summer	20	136	0.109	37.1	0.1230	0.0000	OK
240 minute summer	1.009:50%	136	0.114	40.3	0.0070	0.0000	OK
240 minute summer	19	136	0.095	35.4	0.1355	0.0000	OK
240 minute summer	1.008:50%	136	0.096	37.1	0.0000	0.0000	OK
240 minute summer	22	4	0.000	0.0	0.0000	0.0000	OK
240 minute summer	7.000:50%	136	0.041	3.6	0.0000	0.0000	OK
240 minute summer	23	136	0.054	3.6	0.0614	0.0000	OK
240 minute summer	7.001:50%	136	0.084	7.8	0.0000	0.0000	OK
240 minute summer	28_OUT	168	0.287	17.6	0.3245	0.0000	OK
240 minute summer	30_OUT	4	0.000	20.6	0.0000	0.0000	OK
240 minute summer	21	136	0.171	40.3	0.2441	0.0000	OK
240 minute summer	21_OUT	144	0.236	43.0	0.3375	0.0000	OK
240 minute summer	3	136	0.030	2.1	0.0334	0.0000	OK
240 minute summer	1.002:50%	136	0.040	3.8	0.0000	0.0000	OK
240 minute summer	6	136	0.068	11.1	0.0773	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	2	1.001	1.001:50%	0.8	0.531	0.026	0.0562	
240 minute summer	2	1.001	3	2.1	0.923	0.069	0.0804	
240 minute summer	1	1.000	1.000:50%	0.0	0.000	0.000	0.0064	
240 minute summer	1	1.000	2	0.8	0.772	0.024	0.0132	
240 minute summer	14	1.006	1.006:50%	22.1	1.479	0.313	0.2627	
240 minute summer	14	1.006	18	24.4	1.596	0.345	0.2687	
240 minute summer	20	1.009	1.009:50%	37.1	1.558	0.255	0.2346	
240 minute summer	20	1.009	21	40.3	1.711	0.277	0.2321	
240 minute summer	19	1.008	1.008:50%	35.4	1.841	0.199	0.1876	
240 minute summer	19	1.008	20	37.1	1.749	0.209	0.2071	
240 minute summer	22	7.000	7.000:50%	0.0	0.000	0.000	0.0261	
240 minute summer	22	7.000	23	3.6	0.938	0.158	0.0516	
240 minute summer	23	7.001	7.001:50%	3.6	0.377	0.164	0.1561	
240 minute summer	23	7.001	24	7.8	0.620	0.354	0.2042	
240 minute summer	28_OUT	Flow through pond	29	39.2	0.078	0.001	140.8203	
240 minute summer	21	1.010	21_OUT	40.3	0.842	0.352	0.5979	
240 minute summer	21_OUT	Flow through pond	29	39.2	0.078	0.001	140.8203	
240 minute summer	3	1.002	1.002:50%	2.1	0.675	0.085	0.0365	
240 minute summer	3	1.002	4	3.8	1.007	0.153	0.0440	
240 minute summer	6	1.004	1.004:50%	11.1	1.248	0.314	0.1411	

**Results for 2 year 240 minute summer. 480 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
240 minute summer	1.004:50%	136	0.071	11.7	0.0000	0.0000	OK
240 minute summer	4	136	0.065	3.8	0.0731	0.0000	OK
240 minute summer	1.003:50%	136	0.071	5.3	0.0849	0.0000	OK
240 minute summer	5	4	0.000	0.0	0.0000	0.0000	OK
240 minute summer	2.000:50%	136	0.042	5.8	0.0650	0.0000	OK
240 minute summer	30	172	0.181	20.6	0.6282	0.0000	OK
240 minute summer	29	172	0.284	39.2	0.3218	0.0000	SURCHARGED
240 minute summer	25	4	0.000	0.0	0.0000	0.0000	OK
240 minute summer	8.000:50%	136	0.017	0.7	0.0000	0.0000	OK
240 minute summer	24	136	0.086	7.8	0.0968	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	1.004	13	11.7	1.307	0.331	0.1420	
240 minute summer	4	1.003	1.003:50%	3.8	0.442	0.223	0.0293	
240 minute summer	4	1.003	6	5.3	0.597	0.311	0.0303	
240 minute summer	5	2.000	2.000:50%	0.0	0.000	0.000	0.0520	
240 minute summer	5	2.000	6	5.8	1.453	0.167	0.1033	
240 minute summer	30	Hydro-Brake®	30_OUT	20.6				270.1
240 minute summer	29	9.000	30	20.6	1.171	1.658	0.2508	
240 minute summer	25	8.000	8.000:50%	0.0	0.000	0.000	0.0070	
240 minute summer	25	8.000	26	0.7	0.647	0.026	0.0139	
240 minute summer	24	7.002	26	7.8	0.668	0.346	0.0559	

**Results for 2 year 240 minute winter. 480 minute analysis at 4 minute timestep. Mass balance: 99.98%**

Node Event	US Node	Peak (mins)	Depth (m)	Inflow (l/s)	Node Vol (m ³)	Flood (m ³)	Status
240 minute winter	26	136	0.079	7.2	0.0890	0.0000	OK
240 minute winter	7.003:50%	136	0.090	10.6	0.0000	0.0000	OK
240 minute winter	27	136	0.060	10.6	0.0679	0.0000	OK
240 minute winter	7.004:50%	136	0.072	15.1	0.0935	0.0000	OK
240 minute winter	28	180	0.275	15.1	0.3109	0.0000	OK
240 minute winter	15	4	0.000	0.0	0.0000	0.0000	OK
240 minute winter	6.000:50%	136	0.049	2.8	0.0000	0.0000	OK
240 minute winter	16	136	0.033	2.8	0.0372	0.0000	OK
240 minute winter	6.001:50%	136	0.061	8.3	0.0000	0.0000	OK
240 minute winter	17	136	0.044	8.3	0.0503	0.0000	OK
240 minute winter	6.002:50%	136	0.046	8.7	0.0392	0.0000	OK
240 minute winter	18	136	0.104	29.4	0.1171	0.0000	OK
240 minute winter	1.007:50%	136	0.104	30.0	0.1696	0.0000	OK
240 minute winter	7	4	0.000	0.0	0.0000	0.0000	OK
240 minute winter	3.000:50%	136	0.030	2.3	0.0000	0.0000	OK
240 minute winter	8	136	0.031	2.3	0.0346	0.0000	OK
240 minute winter	9	4	0.000	0.0	0.0000	0.0000	OK
240 minute winter	4.000:50%	132	0.025	1.9	0.0235	0.0000	OK
240 minute winter	10	136	0.037	4.2	0.0422	0.0000	OK
240 minute winter	3.002:50%	136	0.050	7.4	0.0000	0.0000	OK
240 minute winter	13	136	0.081	18.7	0.0919	0.0000	OK
240 minute winter	12	136	0.030	1.1	0.0340	0.0000	OK
240 minute winter	5.001:50%	136	0.033	1.3	0.0160	0.0000	OK
240 minute winter	11	4	0.000	0.0	0.0000	0.0000	OK
240 minute winter	5.000:50%	132	0.019	1.1	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)
240 minute winter	26	7.003	7.003:50%	7.2	0.495	0.209	0.2389	
240 minute winter	26	7.003	27	10.6	0.856	0.308	0.2048	
240 minute winter	27	7.004	7.004:50%	10.6	1.030	0.128	0.2548	
240 minute winter	27	7.004	28	15.1	1.082	0.182	0.6687	
240 minute winter	28	7.005	28_OUT	14.8	0.333	0.298	1.0846	
240 minute winter	15	6.000	6.000:50%	0.0	0.000	0.000	0.0292	
240 minute winter	15	6.000	16	2.8	0.715	0.226	0.0456	
240 minute winter	16	6.001	6.001:50%	2.8	0.594	0.105	0.1076	
240 minute winter	16	6.001	17	8.3	1.501	0.312	0.1246	
240 minute winter	17	6.002	6.002:50%	8.3	1.851	0.179	0.0223	
240 minute winter	17	6.002	18	8.7	1.951	0.188	0.0221	
240 minute winter	18	1.007	1.007:50%	29.4	1.359	0.222	0.1305	
240 minute winter	18	1.007	19	30.0	1.560	0.227	0.1162	
240 minute winter	7	3.000	3.000:50%	0.0	0.000	0.000	0.0144	
240 minute winter	7	3.000	8	2.3	0.913	0.085	0.0294	
240 minute winter	8	3.001	10	2.3	0.771	0.091	0.0956	
240 minute winter	9	4.000	4.000:50%	0.0	0.000	0.000	0.0104	
240 minute winter	9	4.000	10	1.9	0.722	0.061	0.0286	
240 minute winter	10	3.002	3.002:50%	4.2	0.982	0.135	0.1337	
240 minute winter	10	3.002	13	7.4	1.437	0.239	0.1603	
240 minute winter	13	1.005	14	18.7	1.750	0.252	0.0400	
240 minute winter	12	5.001	5.001:50%	1.1	0.408	0.089	0.0279	
240 minute winter	12	5.001	13	1.3	0.461	0.105	0.0291	
240 minute winter	11	5.000	5.000:50%	0.0	0.000	0.000	0.0176	
240 minute winter	11	5.000	12	1.1	0.588	0.035	0.0514	

**Results for 2 year 240 minute winter. 480 minute analysis at 4 minute timestep. Mass balance: 99.98%**

Node Event	US Node	Peak (mins)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
240 minute winter	2	136	0.016	0.7	0.0178	0.0000	OK
240 minute winter	1.001:50%	136	0.025	1.8	0.0079	0.0000	OK
240 minute winter	1	4	0.000	0.0	0.0000	0.0000	OK
240 minute winter	1.000:50%	132	0.015	0.7	0.0012	0.0000	OK
240 minute winter	14	136	0.080	18.7	0.0903	0.0000	OK
240 minute winter	1.006:50%	136	0.085	20.7	0.1307	0.0000	OK
240 minute winter	20	136	0.099	31.4	0.1120	0.0000	OK
240 minute winter	1.009:50%	136	0.104	34.1	0.0058	0.0000	OK
240 minute winter	19	136	0.087	30.0	0.1238	0.0000	OK
240 minute winter	1.008:50%	136	0.088	31.4	0.0000	0.0000	OK
240 minute winter	22	4	0.000	0.0	0.0000	0.0000	OK
240 minute winter	7.000:50%	132	0.037	3.0	0.0000	0.0000	OK
240 minute winter	23	136	0.050	3.0	0.0560	0.0000	OK
240 minute winter	7.001:50%	136	0.076	6.6	0.0000	0.0000	OK
240 minute winter	28_OUT	180	0.306	14.8	0.3464	0.0000	OK
240 minute winter	30_OUT	4	0.000	21.3	0.0000	0.0000	OK
240 minute winter	21	136	0.157	34.1	0.2241	0.0000	OK
240 minute winter	21_OUT	172	0.240	36.4	0.3431	0.0000	OK
240 minute winter	3	136	0.027	1.8	0.0310	0.0000	OK
240 minute winter	1.002:50%	136	0.038	3.3	0.0000	0.0000	OK
240 minute winter	6	136	0.063	9.5	0.0710	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	2	1.001	1.001:50%	0.7	0.508	0.023	0.0507	
240 minute winter	2	1.001	3	1.8	0.882	0.059	0.0721	
240 minute winter	1	1.000	1.000:50%	0.0	0.000	0.000	0.0058	
240 minute winter	1	1.000	2	0.7	0.742	0.021	0.0121	
240 minute winter	14	1.006	1.006:50%	18.7	1.417	0.265	0.2320	
240 minute winter	14	1.006	18	20.7	1.530	0.293	0.2379	
240 minute winter	20	1.009	1.009:50%	31.4	1.498	0.216	0.2065	
240 minute winter	20	1.009	21	34.1	1.638	0.235	0.2051	
240 minute winter	19	1.008	1.008:50%	30.0	1.770	0.169	0.1654	
240 minute winter	19	1.008	20	31.4	1.683	0.177	0.1822	
240 minute winter	22	7.000	7.000:50%	0.0	0.000	0.000	0.0228	
240 minute winter	22	7.000	23	3.0	0.891	0.131	0.0452	
240 minute winter	23	7.001	7.001:50%	3.0	0.359	0.136	0.1375	
240 minute winter	23	7.001	24	6.6	0.593	0.300	0.1804	
240 minute winter	28_OUT	Flow through pond	29	34.7	0.079	0.001	152.8829	
240 minute winter	21	1.010	21_OUT	34.1	0.802	0.298	0.5310	
240 minute winter	21_OUT	Flow through pond	29	34.7	0.079	0.001	152.8829	
240 minute winter	3	1.002	1.002:50%	1.8	0.642	0.073	0.0329	
240 minute winter	3	1.002	4	3.3	0.968	0.133	0.0397	
240 minute winter	6	1.004	1.004:50%	9.5	1.200	0.269	0.1256	

**Results for 2 year 240 minute winter. 480 minute analysis at 4 minute timestep. Mass balance: 99.98%**

Node Event	US Node	Peak (mins)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
240 minute winter	1.004:50%	136	0.065	10.0	0.0000	0.0000	OK
240 minute winter	4	136	0.059	3.3	0.0670	0.0000	OK
240 minute winter	1.003:50%	136	0.065	4.6	0.0720	0.0000	OK
240 minute winter	5	4	0.000	0.0	0.0000	0.0000	OK
240 minute winter	2.000:50%	136	0.038	4.9	0.0547	0.0000	OK
240 minute winter	30	184	0.186	21.3	0.6439	0.0000	OK
240 minute winter	29	184	0.304	34.7	0.3435	0.0000	SURCHARGED
240 minute winter	25	4	0.000	0.0	0.0000	0.0000	OK
240 minute winter	8.000:50%	132	0.016	0.6	0.0000	0.0000	OK
240 minute winter	24	136	0.078	6.6	0.0883	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	1.004	13	10.0	1.254	0.283	0.1265	
240 minute winter	4	1.003	1.003:50%	3.3	0.431	0.194	0.0261	
240 minute winter	4	1.003	6	4.6	0.578	0.270	0.0271	
240 minute winter	5	2.000	2.000:50%	0.0	0.000	0.000	0.0461	
240 minute winter	5	2.000	6	4.9	1.385	0.141	0.0916	
240 minute winter	30	Hydro-Brake®	30_OUT	21.3				301.9
240 minute winter	29	9.000	30	21.3	1.212	1.718	0.2522	
240 minute winter	25	8.000	8.000:50%	0.0	0.000	0.000	0.0063	
240 minute winter	25	8.000	26	0.6	0.618	0.023	0.0125	
240 minute winter	24	7.002	26	6.6	0.637	0.293	0.0496	

**Results for 2 year 360 minute summer. 600 minute analysis at 8 minute timestep. Mass balance: 99.98%**

Node Event	US Node	Peak (mins)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
360 minute summer	26	200	0.076	6.7	0.0854	0.0000	OK
360 minute summer	7.003:50%	200	0.087	9.9	0.0000	0.0000	OK
360 minute summer	27	200	0.058	9.9	0.0656	0.0000	OK
360 minute summer	7.004:50%	200	0.069	14.1	0.0872	0.0000	OK
360 minute summer	28	240	0.238	14.1	0.2694	0.0000	OK
360 minute summer	15	8	0.000	0.0	0.0000	0.0000	OK
360 minute summer	6.000:50%	200	0.047	2.5	0.0000	0.0000	OK
360 minute summer	16	200	0.031	2.5	0.0351	0.0000	OK
360 minute summer	6.001:50%	200	0.058	7.6	0.0000	0.0000	OK
360 minute summer	17	200	0.042	7.6	0.0480	0.0000	OK
360 minute summer	6.002:50%	200	0.044	8.0	0.0358	0.0000	OK
360 minute summer	18	200	0.099	27.1	0.1119	0.0000	OK
360 minute summer	1.007:50%	200	0.100	27.7	0.1556	0.0000	OK
360 minute summer	7	8	0.000	0.0	0.0000	0.0000	OK
360 minute summer	3.000:50%	200	0.028	2.1	0.0000	0.0000	OK
360 minute summer	8	200	0.029	2.1	0.0331	0.0000	OK
360 minute summer	9	8	0.000	0.0	0.0000	0.0000	OK
360 minute summer	4.000:50%	200	0.025	1.8	0.0223	0.0000	OK
360 minute summer	10	200	0.036	3.9	0.0407	0.0000	OK
360 minute summer	3.002:50%	200	0.049	6.9	0.0000	0.0000	OK
360 minute summer	13	200	0.078	17.3	0.0877	0.0000	OK
360 minute summer	12	200	0.029	1.0	0.0325	0.0000	OK
360 minute summer	5.001:50%	200	0.032	1.2	0.0148	0.0000	OK
360 minute summer	11	8	0.000	0.0	0.0000	0.0000	OK
360 minute summer	5.000:50%	200	0.018	1.0	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
360 minute summer	26	7.003	7.003:50%	6.7	0.484	0.194	0.2271	
360 minute summer	26	7.003	27	9.9	0.838	0.287	0.1954	
360 minute summer	27	7.004	7.004:50%	9.9	1.010	0.119	0.2427	
360 minute summer	27	7.004	28	14.1	1.037	0.170	0.5742	
360 minute summer	28	7.005	28_OUT	13.8	0.317	0.278	0.9958	
360 minute summer	15	6.000	6.000:50%	0.0	0.000	0.000	0.0270	
360 minute summer	15	6.000	16	2.5	0.691	0.201	0.0422	
360 minute summer	16	6.001	6.001:50%	2.5	0.570	0.094	0.1004	
360 minute summer	16	6.001	17	7.6	1.468	0.285	0.1168	
360 minute summer	17	6.002	6.002:50%	7.6	1.808	0.164	0.0209	
360 minute summer	17	6.002	18	8.0	1.908	0.172	0.0208	
360 minute summer	18	1.007	1.007:50%	27.1	1.332	0.205	0.1228	
360 minute summer	18	1.007	19	27.7	1.529	0.209	0.1095	
360 minute summer	7	3.000	3.000:50%	0.0	0.000	0.000	0.0135	
360 minute summer	7	3.000	8	2.1	0.889	0.078	0.0276	
360 minute summer	8	3.001	10	2.1	0.746	0.083	0.0902	
360 minute summer	9	4.000	4.000:50%	0.0	0.000	0.000	0.0100	
360 minute summer	9	4.000	10	1.8	0.712	0.058	0.0273	
360 minute summer	10	3.002	3.002:50%	3.9	0.960	0.126	0.1270	
360 minute summer	10	3.002	13	6.9	1.409	0.222	0.1524	
360 minute summer	13	1.005	14	17.3	1.720	0.233	0.0377	
360 minute summer	12	5.001	5.001:50%	1.0	0.395	0.081	0.0262	
360 minute summer	12	5.001	13	1.2	0.452	0.097	0.0275	
360 minute summer	11	5.000	5.000:50%	0.0	0.000	0.000	0.0165	
360 minute summer	11	5.000	12	1.0	0.571	0.031	0.0481	

**Results for 2 year 360 minute summer. 600 minute analysis at 8 minute timestep. Mass balance: 99.98%**

Node Event	US Node	Peak (mins)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
360 minute summer	2	200	0.016	0.7	0.0178	0.0000	OK
360 minute summer	1.001:50%	200	0.024	1.7	0.0075	0.0000	OK
360 minute summer	1	8	0.000	0.0	0.0000	0.0000	OK
360 minute summer	1.000:50%	200	0.015	0.7	0.0012	0.0000	OK
360 minute summer	14	200	0.077	17.3	0.0866	0.0000	OK
360 minute summer	1.006:50%	200	0.082	19.1	0.1197	0.0000	OK
360 minute summer	20	200	0.095	29.0	0.1072	0.0000	OK
360 minute summer	1.009:50%	200	0.100	31.5	0.0053	0.0000	OK
360 minute summer	19	200	0.083	27.7	0.1187	0.0000	OK
360 minute summer	1.008:50%	200	0.084	29.0	0.0000	0.0000	OK
360 minute summer	22	8	0.000	0.0	0.0000	0.0000	OK
360 minute summer	7.000:50%	200	0.036	2.8	0.0000	0.0000	OK
360 minute summer	23	200	0.048	2.8	0.0541	0.0000	OK
360 minute summer	7.001:50%	200	0.073	6.1	0.0000	0.0000	OK
360 minute summer	28_OUT	240	0.270	13.8	0.3051	0.0000	OK
360 minute summer	30_OUT	8	0.000	19.8	0.0000	0.0000	OK
360 minute summer	21	200	0.151	31.5	0.2156	0.0000	OK
360 minute summer	21_OUT	216	0.209	33.5	0.2988	0.0000	OK
360 minute summer	3	200	0.027	1.7	0.0301	0.0000	OK
360 minute summer	1.002:50%	200	0.036	3.0	0.0000	0.0000	OK
360 minute summer	6	200	0.060	8.7	0.0677	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	2	1.001	1.001:50%	0.7	0.508	0.023	0.0493	
360 minute summer	2	1.001	3	1.7	0.867	0.055	0.0693	
360 minute summer	1	1.000	1.000:50%	0.0	0.000	0.000	0.0058	
360 minute summer	1	1.000	2	0.7	0.740	0.021	0.0121	
360 minute summer	14	1.006	1.006:50%	17.3	1.390	0.245	0.2188	
360 minute summer	14	1.006	18	19.1	1.497	0.270	0.2242	
360 minute summer	20	1.009	1.009:50%	29.0	1.470	0.200	0.1944	
360 minute summer	20	1.009	21	31.5	1.605	0.217	0.1934	
360 minute summer	19	1.008	1.008:50%	27.7	1.735	0.156	0.1558	
360 minute summer	19	1.008	20	29.0	1.651	0.163	0.1715	
360 minute summer	22	7.000	7.000:50%	0.0	0.000	0.000	0.0217	
360 minute summer	22	7.000	23	2.8	0.874	0.123	0.0431	
360 minute summer	23	7.001	7.001:50%	2.8	0.352	0.127	0.1301	
360 minute summer	23	7.001	24	6.1	0.581	0.277	0.1702	
360 minute summer	28_OUT	Flow through pond	29	32.4	0.062	0.001	130.2697	
360 minute summer	21	1.010	21_OUT	31.5	0.782	0.275	0.5031	
360 minute summer	21_OUT	Flow through pond	29	32.4	0.062	0.001	130.2697	
360 minute summer	3	1.002	1.002:50%	1.7	0.642	0.069	0.0310	
360 minute summer	3	1.002	4	3.0	0.942	0.121	0.0371	
360 minute summer	6	1.004	1.004:50%	8.7	1.171	0.246	0.1179	

**Results for 2 year 360 minute summer. 600 minute analysis at 8 minute timestep. Mass balance: 99.98%**

Node Event	US Node	Peak (mins)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
360 minute summer	1.004:50%	200	0.062	9.2	0.0000	0.0000	OK
360 minute summer	4	200	0.056	3.0	0.0634	0.0000	OK
360 minute summer	1.003:50%	200	0.062	4.2	0.0652	0.0000	OK
360 minute summer	5	8	0.000	0.0	0.0000	0.0000	OK
360 minute summer	2.000:50%	200	0.037	4.5	0.0502	0.0000	OK
360 minute summer	30	240	0.177	19.8	0.6129	0.0000	OK
360 minute summer	29	240	0.268	32.4	0.3027	0.0000	SURCHARGED
360 minute summer	25	8	0.000	0.0	0.0000	0.0000	OK
360 minute summer	8.000:50%	200	0.016	0.6	0.0000	0.0000	OK
360 minute summer	24	200	0.075	6.1	0.0846	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	1.004	13	9.2	1.226	0.261	0.1190	302.1
360 minute summer	4	1.003	1.003:50%	3.0	0.421	0.176	0.0243	
360 minute summer	4	1.003	6	4.2	0.564	0.247	0.0254	
360 minute summer	5	2.000	2.000:50%	0.0	0.000	0.000	0.0433	
360 minute summer	5	2.000	6	4.5	1.352	0.130	0.0862	
360 minute summer	30	Hydro-Brake®	30_OUT	19.8				
360 minute summer	29	9.000	30	19.8	1.133	1.600	0.2494	
360 minute summer	25	8.000	8.000:50%	0.0	0.000	0.000	0.0063	
360 minute summer	25	8.000	26	0.6	0.618	0.023	0.0125	
360 minute summer	24	7.002	26	6.1	0.623	0.271	0.0469	

**Results for 2 year 360 minute winter. 600 minute analysis at 8 minute timestep. Mass balance: 99.98%**

Node Event	US Node	Peak (mins)	Depth (m)	Inflow (l/s)	Node Vol (m ³)	Flood (m ³)	Status
360 minute winter	26	200	0.068	5.5	0.0764	0.0000	OK
360 minute winter	7.003:50%	200	0.079	8.1	0.0000	0.0000	OK
360 minute winter	27	200	0.052	8.1	0.0594	0.0000	OK
360 minute winter	7.004:50%	200	0.063	11.5	0.0710	0.0000	OK
360 minute winter	28	256	0.249	11.5	0.2817	0.0000	OK
360 minute winter	15	8	0.000	0.0	0.0000	0.0000	OK
360 minute winter	6.000:50%	200	0.043	2.1	0.0000	0.0000	OK
360 minute winter	16	200	0.029	2.1	0.0323	0.0000	OK
360 minute winter	6.001:50%	200	0.053	6.3	0.0000	0.0000	OK
360 minute winter	17	200	0.038	6.3	0.0435	0.0000	OK
360 minute winter	6.002:50%	200	0.040	6.6	0.0292	0.0000	OK
360 minute winter	18	200	0.089	22.2	0.1001	0.0000	OK
360 minute winter	1.007:50%	200	0.090	22.7	0.1255	0.0000	OK
360 minute winter	7	8	0.000	0.0	0.0000	0.0000	OK
360 minute winter	3.000:50%	192	0.026	1.7	0.0000	0.0000	OK
360 minute winter	8	192	0.026	1.7	0.0299	0.0000	OK
360 minute winter	9	8	0.000	0.0	0.0000	0.0000	OK
360 minute winter	4.000:50%	200	0.022	1.5	0.0187	0.0000	OK
360 minute winter	10	200	0.033	3.2	0.0368	0.0000	OK
360 minute winter	3.002:50%	200	0.044	5.6	0.0000	0.0000	OK
360 minute winter	13	200	0.069	14.1	0.0776	0.0000	OK
360 minute winter	12	192	0.026	0.8	0.0291	0.0000	OK
360 minute winter	5.001:50%	192	0.029	1.0	0.0123	0.0000	OK
360 minute winter	11	8	0.000	0.0	0.0000	0.0000	OK
360 minute winter	5.000:50%	184	0.016	0.8	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)
360 minute winter	26	7.003	7.003:50%	5.5	0.460	0.160	0.1966	
360 minute winter	26	7.003	27	8.1	0.787	0.235	0.1704	
360 minute winter	27	7.004	7.004:50%	8.1	0.954	0.098	0.2101	
360 minute winter	27	7.004	28	11.5	1.006	0.139	0.5990	
360 minute winter	28	7.005	28_OUT	11.3	0.286	0.227	1.0296	
360 minute winter	15	6.000	6.000:50%	0.0	0.000	0.000	0.0239	
360 minute winter	15	6.000	16	2.1	0.656	0.169	0.0373	
360 minute winter	16	6.001	6.001:50%	2.1	0.547	0.079	0.0880	
360 minute winter	16	6.001	17	6.3	1.397	0.237	0.1018	
360 minute winter	17	6.002	6.002:50%	6.3	1.725	0.136	0.0181	
360 minute winter	17	6.002	18	6.6	1.811	0.142	0.0181	
360 minute winter	18	1.007	1.007:50%	22.2	1.269	0.168	0.1055	
360 minute winter	18	1.007	19	22.7	1.453	0.171	0.0944	
360 minute winter	7	3.000	3.000:50%	0.0	0.000	0.000	0.0116	
360 minute winter	7	3.000	8	1.7	0.836	0.063	0.0238	
360 minute winter	8	3.001	10	1.7	0.705	0.067	0.0781	
360 minute winter	9	4.000	4.000:50%	0.0	0.000	0.000	0.0088	
360 minute winter	9	4.000	10	1.5	0.679	0.048	0.0238	
360 minute winter	10	3.002	3.002:50%	3.2	0.913	0.103	0.1096	
360 minute winter	10	3.002	13	5.6	1.330	0.181	0.1310	
360 minute winter	13	1.005	14	14.1	1.641	0.190	0.0322	
360 minute winter	12	5.001	5.001:50%	0.8	0.364	0.064	0.0227	
360 minute winter	12	5.001	13	1.0	0.429	0.081	0.0241	
360 minute winter	11	5.000	5.000:50%	0.0	0.000	0.000	0.0141	
360 minute winter	11	5.000	12	0.8	0.533	0.025	0.0412	

**Results for 2 year 360 minute winter. 600 minute analysis at 8 minute timestep. Mass balance: 99.98%**

Node Event	US Node	Peak (mins)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
360 minute winter	2	192	0.013	0.5	0.0152	0.0000	OK
360 minute winter	1.001:50%	192	0.021	1.3	0.0058	0.0000	OK
360 minute winter	1	8	0.000	0.0	0.0000	0.0000	OK
360 minute winter	1.000:50%	184	0.013	0.5	0.0009	0.0000	OK
360 minute winter	14	200	0.069	14.1	0.0776	0.0000	OK
360 minute winter	1.006:50%	200	0.073	15.6	0.0962	0.0000	OK
360 minute winter	20	200	0.085	23.8	0.0962	0.0000	OK
360 minute winter	1.009:50%	200	0.089	25.9	0.0043	0.0000	OK
360 minute winter	19	200	0.075	22.7	0.1068	0.0000	OK
360 minute winter	1.008:50%	200	0.076	23.8	0.0000	0.0000	OK
360 minute winter	22	8	0.000	0.0	0.0000	0.0000	OK
360 minute winter	7.000:50%	200	0.033	2.3	0.0000	0.0000	OK
360 minute winter	23	200	0.043	2.3	0.0490	0.0000	OK
360 minute winter	7.001:50%	200	0.065	5.0	0.0000	0.0000	OK
360 minute winter	28_OUT	256	0.281	11.3	0.3174	0.0000	OK
360 minute winter	30_OUT	8	0.000	20.3	0.0000	0.0000	OK
360 minute winter	21	200	0.137	25.9	0.1955	0.0000	OK
360 minute winter	21_OUT	248	0.215	27.6	0.3073	0.0000	OK
360 minute winter	3	200	0.023	1.3	0.0264	0.0000	OK
360 minute winter	1.002:50%	192	0.032	2.4	0.0000	0.0000	OK
360 minute winter	6	200	0.054	7.1	0.0608	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	2	1.001	1.001:50%	0.5	0.461	0.016	0.0402	
360 minute winter	2	1.001	3	1.3	0.801	0.042	0.0573	
360 minute winter	1	1.000	1.000:50%	0.0	0.000	0.000	0.0046	
360 minute winter	1	1.000	2	0.5	0.671	0.015	0.0095	
360 minute winter	14	1.006	1.006:50%	14.1	1.317	0.199	0.1882	
360 minute winter	14	1.006	18	15.6	1.417	0.221	0.1935	
360 minute winter	20	1.009	1.009:50%	23.8	1.401	0.164	0.1675	
360 minute winter	20	1.009	21	25.9	1.525	0.178	0.1674	
360 minute winter	19	1.008	1.008:50%	22.7	1.649	0.128	0.1343	
360 minute winter	19	1.008	20	23.8	1.574	0.134	0.1477	
360 minute winter	22	7.000	7.000:50%	0.0	0.000	0.000	0.0189	
360 minute winter	22	7.000	23	2.3	0.826	0.101	0.0374	
360 minute winter	23	7.001	7.001:50%	2.3	0.334	0.105	0.1125	
360 minute winter	23	7.001	24	5.0	0.552	0.227	0.1470	
360 minute winter	28_OUT	Flow through pond	29	28.3	0.069	0.000	137.1009	
360 minute winter	21	1.010	21_OUT	25.9	0.740	0.226	0.4374	
360 minute winter	21_OUT	Flow through pond	29	28.3	0.069	0.000	137.1009	
360 minute winter	3	1.002	1.002:50%	1.3	0.584	0.052	0.0261	
360 minute winter	3	1.002	4	2.4	0.884	0.097	0.0316	
360 minute winter	6	1.004	1.004:50%	7.1	1.110	0.201	0.1015	

**Results for 2 year 360 minute winter. 600 minute analysis at 8 minute timestep. Mass balance: 99.98%**

Node Event	US Node	Peak (mins)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
360 minute winter	1.004:50%	200	0.056	7.5	0.0000	0.0000	OK
360 minute winter	4	200	0.049	2.4	0.0558	0.0000	OK
360 minute winter	1.003:50%	200	0.056	3.4	0.0520	0.0000	OK
360 minute winter	5	8	0.000	0.0	0.0000	0.0000	OK
360 minute winter	2.000:50%	200	0.033	3.7	0.0412	0.0000	OK
360 minute winter	30	256	0.180	20.3	0.6230	0.0000	OK
360 minute winter	29	256	0.279	28.3	0.3150	0.0000	SURCHARGED
360 minute winter	25	8	0.000	0.0	0.0000	0.0000	OK
360 minute winter	8.000:50%	200	0.014	0.5	0.0000	0.0000	OK
360 minute winter	24	200	0.067	5.0	0.0761	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	1.004	13	7.5	1.159	0.212	0.1026	
360 minute winter	4	1.003	1.003:50%	2.4	0.399	0.141	0.0206	
360 minute winter	4	1.003	6	3.4	0.536	0.200	0.0218	
360 minute winter	5	2.000	2.000:50%	0.0	0.000	0.000	0.0376	
360 minute winter	5	2.000	6	3.7	1.279	0.107	0.0749	
360 minute winter	30	Hydro-Brake®	30_OUT	20.3				339.1
360 minute winter	29	9.000	30	20.3	1.158	1.638	0.2503	
360 minute winter	25	8.000	8.000:50%	0.0	0.000	0.000	0.0055	
360 minute winter	25	8.000	26	0.5	0.585	0.019	0.0110	
360 minute winter	24	7.002	26	5.0	0.590	0.222	0.0406	

**Results for 30 year 15 minute summer. 255 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
15 minute summer	26	24	0.148	20.5	0.1675	0.0000	OK
15 minute summer	7.003:50%	24	0.157	30.3	0.0000	0.0000	OK
15 minute summer	27	25	0.105	30.3	0.1183	0.0000	OK
15 minute summer	7.004:50%	24	0.127	43.2	0.2928	0.0000	OK
15 minute summer	28	30	0.398	43.2	0.4500	0.0000	SURCHARGED
15 minute summer	15	16	0.028	0.3	0.0319	0.0000	OK
15 minute summer	6.000:50%	18	0.085	7.8	0.0000	0.0000	OK
15 minute summer	16	17	0.056	7.8	0.0629	0.0000	OK
15 minute summer	6.001:50%	17	0.120	23.5	0.0000	0.0000	OK
15 minute summer	17	17	0.081	23.5	0.0918	0.0000	OK
15 minute summer	6.002:50%	19	0.086	24.7	0.1345	0.0000	OK
15 minute summer	18	24	0.198	83.3	0.2242	0.0000	OK
15 minute summer	1.007:50%	24	0.193	85.0	0.5811	0.0000	OK
15 minute summer	7	1	0.000	0.0	0.0000	0.0000	OK
15 minute summer	3.000:50%	16	0.051	6.5	0.0000	0.0000	OK
15 minute summer	8	17	0.052	6.5	0.0587	0.0000	OK
15 minute summer	9	1	0.000	0.0	0.0000	0.0000	OK
15 minute summer	4.000:50%	19	0.043	5.5	0.0677	0.0000	OK
15 minute summer	10	20	0.065	12.0	0.0732	0.0000	OK
15 minute summer	3.002:50%	20	0.092	21.1	0.0000	0.0000	OK
15 minute summer	13	24	0.169	53.1	0.1915	0.0000	OK
15 minute summer	12	21	0.051	3.1	0.0575	0.0000	OK
15 minute summer	5.001:50%	24	0.072	3.8	0.0758	0.0000	OK
15 minute summer	11	1	0.000	0.0	0.0000	0.0000	OK
15 minute summer	5.000:50%	19	0.032	3.1	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	26	7.003	7.003:50%	20.5	0.658	0.595	0.5119	
15 minute summer	26	7.003	27	30.3	1.172	0.880	0.4234	
15 minute summer	27	7.004	7.004:50%	30.3	1.367	0.366	0.5481	
15 minute summer	27	7.004	28	43.2	1.368	0.521	0.9127	
15 minute summer	28	7.005	28_OUT	42.7	0.654	0.860	1.1066	
15 minute summer	15	6.000	6.000:50%	-0.3	-0.089	-0.026	0.0727	
15 minute summer	15	6.000	16	7.8	0.962	0.628	0.0937	
15 minute summer	16	6.001	6.001:50%	7.8	0.738	0.293	0.2359	
15 minute summer	16	6.001	17	23.5	1.874	0.883	0.2785	
15 minute summer	17	6.002	6.002:50%	23.5	2.336	0.507	0.0499	
15 minute summer	17	6.002	18	24.7	2.516	0.532	0.0487	
15 minute summer	18	1.007	1.007:50%	83.3	1.714	0.629	0.2932	
15 minute summer	18	1.007	19	85.0	1.983	0.642	0.2582	
15 minute summer	7	3.000	3.000:50%	0.0	0.000	0.000	0.0307	
15 minute summer	7	3.000	8	6.5	1.221	0.240	0.0622	
15 minute summer	8	3.001	10	6.5	1.028	0.257	0.2024	
15 minute summer	9	4.000	4.000:50%	0.0	0.000	0.000	0.0220	
15 minute summer	9	4.000	10	5.5	0.973	0.177	0.0608	
15 minute summer	10	3.002	3.002:50%	12.0	1.285	0.387	0.2904	
15 minute summer	10	3.002	13	21.1	1.874	0.680	0.3504	
15 minute summer	13	1.005	14	53.1	2.136	0.716	0.0920	
15 minute summer	12	5.001	5.001:50%	3.1	0.529	0.250	0.0704	
15 minute summer	12	5.001	13	3.9	0.469	0.314	0.1209	
15 minute summer	11	5.000	5.000:50%	0.0	0.000	0.000	0.0364	
15 minute summer	11	5.000	12	3.1	0.790	0.097	0.1073	

**Results for 30 year 15 minute summer. 255 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
15 minute summer	2	19	0.026	2.0	0.0294	0.0000	OK
15 minute summer	1.001:50%	20	0.041	5.0	0.0217	0.0000	OK
15 minute summer	1	1	0.000	0.0	0.0000	0.0000	OK
15 minute summer	1.000:50%	15	0.025	2.0	0.0032	0.0000	OK
15 minute summer	14	24	0.152	53.1	0.1718	0.0000	OK
15 minute summer	1.006:50%	24	0.165	58.6	0.4868	0.0000	OK
15 minute summer	20	23	0.189	89.0	0.2134	0.0000	OK
15 minute summer	1.009:50%	23	0.196	96.8	0.0206	0.0000	OK
15 minute summer	19	24	0.159	85.0	0.2269	0.0000	OK
15 minute summer	1.008:50%	24	0.163	89.0	0.0000	0.0000	OK
15 minute summer	22	1	0.000	0.0	0.0000	0.0000	OK
15 minute summer	7.000:50%	17	0.065	8.6	0.0000	0.0000	OK
15 minute summer	23	24	0.103	8.6	0.1170	0.0000	OK
15 minute summer	7.001:50%	23	0.147	18.8	0.0000	0.0000	OK
15 minute summer	28_OUT	31	0.404	42.7	0.4572	0.0000	OK
15 minute summer	30_OUT	1	0.000	23.0	0.0000	0.0000	OK
15 minute summer	21	23	0.271	96.8	0.3878	0.0000	OK
15 minute summer	21_OUT	30	0.386	106.8	0.5525	0.0000	OK
15 minute summer	3	21	0.046	5.0	0.0516	0.0000	OK
15 minute summer	1.002:50%	21	0.063	9.2	0.0000	0.0000	OK
15 minute summer	6	25	0.118	26.8	0.1336	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	2	1.001	1.001:50%	2.0	0.683	0.065	0.1048	
15 minute summer	2	1.001	3	5.0	1.188	0.163	0.1487	
15 minute summer	1	1.000	1.000:50%	0.0	0.000	0.000	0.0122	
15 minute summer	1	1.000	2	2.0	1.015	0.060	0.0251	
15 minute summer	14	1.006	1.006:50%	53.1	1.780	0.751	0.5244	
15 minute summer	14	1.006	18	58.6	1.943	0.829	0.5298	
15 minute summer	20	1.009	1.009:50%	89.0	1.866	0.612	0.4703	
15 minute summer	20	1.009	21	96.8	2.103	0.666	0.4533	
15 minute summer	19	1.008	1.008:50%	85.0	2.212	0.479	0.3751	
15 minute summer	19	1.008	20	89.0	2.074	0.501	0.4184	
15 minute summer	22	7.000	7.000:50%	0.0	0.000	0.000	0.0495	
15 minute summer	22	7.000	23	8.6	1.187	0.377	0.0973	
15 minute summer	23	7.001	7.001:50%	8.6	0.431	0.391	0.3325	
15 minute summer	23	7.001	24	18.8	0.774	0.854	0.3938	
15 minute summer	28_OUT	Flow through pond	29	147.8	0.246	0.002	185.5238	
15 minute summer	21	1.010	21_OUT	96.8	1.105	0.845	1.0914	
15 minute summer	21_OUT	Flow through pond	29	147.8	0.246	0.002	185.5238	
15 minute summer	3	1.002	1.002:50%	5.0	0.870	0.202	0.0675	
15 minute summer	3	1.002	4	9.2	1.050	0.371	0.1077	
15 minute summer	6	1.004	1.004:50%	26.8	1.517	0.759	0.2802	

**Results for 30 year 15 minute summer. 255 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
15 minute summer	1.004:50%	23	0.123	28.2	0.0000	0.0000	OK
15 minute summer	4	23	0.118	9.2	0.1332	0.0000	OK
15 minute summer	1.003:50%	23	0.124	12.9	0.2590	0.0000	OK
15 minute summer	5	1	0.000	0.0	0.0000	0.0000	OK
15 minute summer	2.000:50%	20	0.067	13.9	0.1666	0.0000	OK
15 minute summer	30	38	0.197	23.0	0.6835	0.0000	OK
15 minute summer	29	38	0.354	147.8	0.4009	0.0000	SURCHARGED
15 minute summer	25	1	0.000	0.0	0.0000	0.0000	OK
15 minute summer	8.000:50%	19	0.026	1.7	0.0000	0.0000	OK
15 minute summer	24	24	0.143	18.8	0.1614	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	1.004	13	28.2	1.601	0.799	0.2793	206.4
15 minute summer	4	1.003	1.003:50%	9.2	0.521	0.540	0.0603	
15 minute summer	4	1.003	6	12.9	0.730	0.758	0.0604	
15 minute summer	5	2.000	2.000:50%	0.0	0.000	0.000	0.0986	
15 minute summer	5	2.000	6	13.9	1.843	0.401	0.1953	
15 minute summer	30	Hydro-Brake®	30_OUT	23.0				
15 minute summer	29	9.000	30	23.0	1.309	1.857	0.2543	
15 minute summer	25	8.000	8.000:50%	0.0	0.000	0.000	0.0131	
15 minute summer	25	8.000	26	1.7	0.842	0.064	0.0260	
15 minute summer	24	7.002	26	18.8	0.871	0.835	0.1031	

**Results for 30 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	26	24	0.160	23.0	0.1811	0.0000	OK
15 minute winter	7.003:50%	23	0.167	34.0	0.0000	0.0000	OK
15 minute winter	27	23	0.112	34.0	0.1266	0.0000	OK
15 minute winter	7.004:50%	28	0.146	48.4	0.3868	0.0000	OK
15 minute winter	28	30	0.460	48.4	0.5203	0.0000	SURCHARGED
15 minute winter	15	16	0.034	0.4	0.0388	0.0000	OK
15 minute winter	6.000:50%	16	0.091	8.8	0.0000	0.0000	OK
15 minute winter	16	18	0.059	8.8	0.0671	0.0000	OK
15 minute winter	6.001:50%	25	0.141	26.4	0.0000	0.0000	OK
15 minute winter	17	25	0.088	26.4	0.0992	0.0000	OK
15 minute winter	6.002:50%	25	0.093	27.8	0.1582	0.0000	OK
15 minute winter	18	25	0.215	93.3	0.2437	0.0000	OK
15 minute winter	1.007:50%	25	0.208	95.2	0.6776	0.0000	OK
15 minute winter	7	1	0.000	0.0	0.0000	0.0000	OK
15 minute winter	3.000:50%	16	0.054	7.2	0.0000	0.0000	OK
15 minute winter	8	17	0.055	7.2	0.0619	0.0000	OK
15 minute winter	9	1	0.000	0.0	0.0000	0.0000	OK
15 minute winter	4.000:50%	19	0.045	6.1	0.0753	0.0000	OK
15 minute winter	10	21	0.069	13.3	0.0776	0.0000	OK
15 minute winter	3.002:50%	21	0.100	23.5	0.0000	0.0000	OK
15 minute winter	13	25	0.207	59.3	0.2338	0.0000	SURCHARGED
15 minute winter	12	26	0.064	3.5	0.0725	0.0000	OK
15 minute winter	5.001:50%	25	0.110	4.5	0.1769	0.0000	OK
15 minute winter	11	1	0.000	0.0	0.0000	0.0000	OK
15 minute winter	5.000:50%	19	0.034	3.5	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute winter	26	7.003	7.003:50%	23.0	0.679	0.668	0.5570	
15 minute winter	26	7.003	27	34.0	1.211	0.987	0.4596	
15 minute winter	27	7.004	7.004:50%	34.0	1.405	0.411	0.6225	
15 minute winter	27	7.004	28	48.4	1.353	0.584	0.9708	
15 minute winter	28	7.005	28_OUT	47.9	0.680	0.965	1.1066	
15 minute winter	15	6.000	6.000:50%	-0.4	-0.087	-0.028	0.0823	
15 minute winter	15	6.000	16	8.8	0.995	0.709	0.1021	
15 minute winter	16	6.001	6.001:50%	8.8	0.741	0.331	0.2659	
15 minute winter	16	6.001	17	26.4	1.879	0.991	0.3133	
15 minute winter	17	6.002	6.002:50%	26.4	2.383	0.569	0.0550	
15 minute winter	17	6.002	18	27.8	2.577	0.599	0.0535	
15 minute winter	18	1.007	1.007:50%	93.3	1.754	0.705	0.3208	
15 minute winter	18	1.007	19	95.2	2.028	0.719	0.2825	
15 minute winter	7	3.000	3.000:50%	0.0	0.000	0.000	0.0331	
15 minute winter	7	3.000	8	7.2	1.255	0.266	0.0670	
15 minute winter	8	3.001	10	7.2	1.056	0.285	0.2181	
15 minute winter	9	4.000	4.000:50%	0.0	0.000	0.000	0.0237	
15 minute winter	9	4.000	10	6.1	0.999	0.197	0.0656	
15 minute winter	10	3.002	3.002:50%	13.3	1.309	0.429	0.3154	
15 minute winter	10	3.002	13	23.5	1.914	0.758	0.3819	
15 minute winter	13	1.005	14	59.3	2.136	0.800	0.1027	
15 minute winter	12	5.001	5.001:50%	3.8	0.534	0.307	0.1085	
15 minute winter	12	5.001	13	5.5	0.481	0.444	0.1626	
15 minute winter	11	5.000	5.000:50%	0.0	0.000	0.000	0.0397	
15 minute winter	11	5.000	12	3.5	0.820	0.110	0.1365	

**Results for 30 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	2	18	0.028	2.3	0.0315	0.0000	OK
15 minute winter	1.001:50%	21	0.044	5.7	0.0249	0.0000	OK
15 minute winter	1	1	0.000	0.0	0.0000	0.0000	OK
15 minute winter	1.000:50%	16	0.027	2.3	0.0037	0.0000	OK
15 minute winter	14	25	0.166	59.3	0.1881	0.0000	OK
15 minute winter	1.006:50%	25	0.182	65.5	0.5943	0.0000	OK
15 minute winter	20	25	0.205	99.6	0.2324	0.0000	OK
15 minute winter	1.009:50%	25	0.213	108.3	0.0243	0.0000	OK
15 minute winter	19	26	0.171	95.2	0.2447	0.0000	OK
15 minute winter	1.008:50%	25	0.177	99.6	0.0000	0.0000	OK
15 minute winter	22	1	0.000	0.0	0.0000	0.0000	OK
15 minute winter	7.000:50%	17	0.070	9.7	0.0000	0.0000	OK
15 minute winter	23	25	0.118	9.7	0.1336	0.0000	OK
15 minute winter	7.001:50%	24	0.162	21.1	0.0000	0.0000	OK
15 minute winter	28_OUT	31	0.459	47.9	0.5186	0.0000	OK
15 minute winter	30_OUT	1	0.000	24.1	0.0000	0.0000	OK
15 minute winter	21	21	0.288	108.3	0.4128	0.0000	OK
15 minute winter	21_OUT	29	0.460	119.4	0.6584	0.0000	OK
15 minute winter	3	21	0.049	5.7	0.0553	0.0000	OK
15 minute winter	1.002:50%	22	0.068	10.4	0.0000	0.0000	OK
15 minute winter	6	24	0.129	30.0	0.1463	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	2	1.001	1.001:50%	2.3	0.714	0.075	0.1152	
15 minute winter	2	1.001	3	5.7	1.233	0.186	0.1634	
15 minute winter	1	1.000	1.000:50%	0.0	0.000	0.000	0.0134	
15 minute winter	1	1.000	2	2.3	1.056	0.068	0.0277	
15 minute winter	14	1.006	1.006:50%	59.3	1.800	0.839	0.5791	
15 minute winter	14	1.006	18	65.5	1.970	0.926	0.5839	
15 minute winter	20	1.009	1.009:50%	99.6	1.901	0.685	0.5170	
15 minute winter	20	1.009	21	108.3	2.150	0.745	0.4961	
15 minute winter	19	1.008	1.008:50%	95.2	2.250	0.536	0.4128	
15 minute winter	19	1.008	20	99.6	2.105	0.561	0.4614	
15 minute winter	22	7.000	7.000:50%	0.0	0.000	0.000	0.0542	
15 minute winter	22	7.000	23	9.7	1.224	0.425	0.1065	
15 minute winter	23	7.001	7.001:50%	9.7	0.428	0.441	0.3757	
15 minute winter	23	7.001	24	21.1	0.797	0.959	0.4291	
15 minute winter	28_OUT	Flow through pond	29	159.8	0.250	0.003	209.6232	
15 minute winter	21	1.010	21_OUT	108.3	1.148	0.945	1.1749	
15 minute winter	21_OUT	Flow through pond	29	159.8	0.250	0.003	209.6232	
15 minute winter	3	1.002	1.002:50%	5.7	0.901	0.230	0.0740	
15 minute winter	3	1.002	4	10.4	1.045	0.420	0.1218	
15 minute winter	6	1.004	1.004:50%	30.0	1.539	0.850	0.3093	

**Results for 30 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	1.004:50%	24	0.135	31.6	0.0000	0.0000	OK
15 minute winter	4	25	0.130	10.4	0.1471	0.0000	OK
15 minute winter	1.003:50%	25	0.136	14.5	0.3108	0.0000	OK
15 minute winter	5	1	0.000	0.0	0.0000	0.0000	OK
15 minute winter	2.000:50%	20	0.071	15.5	0.1890	0.0000	OK
15 minute winter	30	38	0.205	24.1	0.7107	0.0000	OK
15 minute winter	29	37	0.391	159.8	0.4417	0.0000	SURCHARGED
15 minute winter	25	1	0.000	0.0	0.0000	0.0000	OK
15 minute winter	8.000:50%	18	0.027	1.9	0.0000	0.0000	OK
15 minute winter	24	25	0.154	21.1	0.1739	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	1.004	13	31.6	1.628	0.895	0.3078	
15 minute winter	4	1.003	1.003:50%	10.4	0.531	0.611	0.0667	
15 minute winter	4	1.003	6	14.5	0.745	0.852	0.0665	
15 minute winter	5	2.000	2.000:50%	0.0	0.000	0.000	0.1071	
15 minute winter	5	2.000	6	15.5	1.894	0.447	0.2118	
15 minute winter	30	Hydro-Brake®	30_OUT	24.1				229.2
15 minute winter	29	9.000	30	24.1	1.371	1.946	0.2556	
15 minute winter	25	8.000	8.000:50%	0.0	0.000	0.000	0.0142	
15 minute winter	25	8.000	26	1.9	0.870	0.071	0.0281	
15 minute winter	24	7.002	26	21.1	0.906	0.937	0.1111	

**Results for 30 year 30 minute summer. 270 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
30 minute summer	26	29	0.171	25.2	0.1930	0.0000	OK
30 minute summer	7.003:50%	28	0.177	37.2	0.0000	0.0000	OK
30 minute summer	27	27	0.118	37.2	0.1333	0.0000	OK
30 minute summer	7.004:50%	36	0.185	53.1	0.6240	0.0000	OK
30 minute summer	28	38	0.506	52.2	0.5726	0.0000	SURCHARGED
30 minute summer	15	26	0.039	0.3	0.0443	0.0000	OK
30 minute summer	6.000:50%	28	0.096	9.6	0.0000	0.0000	OK
30 minute summer	16	28	0.062	9.6	0.0704	0.0000	OK
30 minute summer	6.001:50%	30	0.337	28.9	0.0000	0.0000	SURCHARGED
30 minute summer	17	30	0.093	28.8	0.1054	0.0000	OK
30 minute summer	6.002:50%	30	0.099	30.3	0.1790	0.0000	OK
30 minute summer	18	31	0.231	101.7	0.2610	0.0000	OK
30 minute summer	1.007:50%	31	0.222	103.7	0.7672	0.0000	OK
30 minute summer	7	1	0.000	0.0	0.0000	0.0000	OK
30 minute summer	3.000:50%	28	0.057	8.0	0.0000	0.0000	OK
30 minute summer	8	28	0.058	8.0	0.0655	0.0000	OK
30 minute summer	9	1	0.000	0.0	0.0000	0.0000	OK
30 minute summer	4.000:50%	29	0.047	6.7	0.0830	0.0000	OK
30 minute summer	10	28	0.073	14.7	0.0822	0.0000	OK
30 minute summer	3.002:50%	29	0.107	25.9	0.0000	0.0000	OK
30 minute summer	13	30	0.255	64.8	0.2882	0.0000	SURCHARGED
30 minute summer	12	31	0.115	3.9	0.1301	0.0000	OK
30 minute summer	5.001:50%	31	0.162	4.9	0.3824	0.0000	SURCHARGED
30 minute summer	11	1	0.000	0.0	0.0000	0.0000	OK
30 minute summer	5.000:50%	29	0.035	3.9	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
30 minute summer	26	7.003	7.003:50%	25.2	0.695	0.731	0.5950	
30 minute summer	26	7.003	27	37.2	1.243	1.080	0.4891	
30 minute summer	27	7.004	7.004:50%	37.2	1.428	0.449	0.7423	
30 minute summer	27	7.004	28	52.2	1.268	0.630	1.0851	
30 minute summer	28	7.005	28_OUT	51.6	0.733	1.040	1.1066	
30 minute summer	15	6.000	6.000:50%	-0.3	-0.079	-0.026	0.0899	
30 minute summer	15	6.000	16	9.6	1.018	0.773	0.1087	
30 minute summer	16	6.001	6.001:50%	9.6	0.741	0.361	0.2751	
30 minute summer	16	6.001	17	28.8	1.873	1.081	0.3268	
30 minute summer	17	6.002	6.002:50%	28.8	2.419	0.621	0.0591	
30 minute summer	17	6.002	18	30.3	2.620	0.653	0.0573	
30 minute summer	18	1.007	1.007:50%	101.7	1.786	0.769	0.3437	
30 minute summer	18	1.007	19	103.8	2.061	0.784	0.3028	
30 minute summer	7	3.000	3.000:50%	0.0	0.000	0.000	0.0358	
30 minute summer	7	3.000	8	8.0	1.290	0.296	0.0724	
30 minute summer	8	3.001	10	8.0	1.088	0.317	0.2351	
30 minute summer	9	4.000	4.000:50%	0.0	0.000	0.000	0.0254	
30 minute summer	9	4.000	10	6.7	1.024	0.216	0.0705	
30 minute summer	10	3.002	3.002:50%	14.7	1.333	0.474	0.3411	
30 minute summer	10	3.002	13	25.9	1.946	0.834	0.4138	
30 minute summer	13	1.005	14	64.8	2.136	0.874	0.1080	
30 minute summer	12	5.001	5.001:50%	4.2	0.535	0.336	0.1659	
30 minute summer	12	5.001	13	6.3	0.470	0.505	0.1819	
30 minute summer	11	5.000	5.000:50%	0.0	0.000	0.000	0.0429	
30 minute summer	11	5.000	12	3.9	0.827	0.122	0.2377	

**Results for 30 year 30 minute summer. 270 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
30 minute summer	2	28	0.029	2.5	0.0328	0.0000	OK
30 minute summer	1.001:50%	30	0.046	6.2	0.0271	0.0000	OK
30 minute summer	1	1	0.000	0.0	0.0000	0.0000	OK
30 minute summer	1.000:50%	26	0.028	2.5	0.0040	0.0000	OK
30 minute summer	14	30	0.183	64.8	0.2065	0.0000	OK
30 minute summer	1.006:50%	31	0.208	71.6	0.7752	0.0000	OK
30 minute summer	20	31	0.221	108.7	0.2496	0.0000	OK
30 minute summer	1.009:50%	31	0.228	118.1	0.0278	0.0000	OK
30 minute summer	19	31	0.182	103.8	0.2600	0.0000	OK
30 minute summer	1.008:50%	31	0.189	108.7	0.0000	0.0000	OK
30 minute summer	22	1	0.000	0.0	0.0000	0.0000	OK
30 minute summer	7.000:50%	25	0.073	10.6	0.0000	0.0000	OK
30 minute summer	23	30	0.133	10.6	0.1499	0.0000	OK
30 minute summer	7.001:50%	30	0.176	23.1	0.0000	0.0000	OK
30 minute summer	28_OUT	39	0.503	51.6	0.5684	0.0000	OK
30 minute summer	30_OUT	1	0.000	25.5	0.0000	0.0000	OK
30 minute summer	21	31	0.303	118.1	0.4338	0.0000	OK
30 minute summer	21_OUT	37	0.522	126.2	0.7475	0.0000	OK
30 minute summer	3	30	0.051	6.2	0.0578	0.0000	OK
30 minute summer	1.002:50%	30	0.071	11.3	0.0000	0.0000	OK
30 minute summer	6	28	0.141	32.9	0.1599	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	2	1.001	1.001:50%	2.5	0.730	0.082	0.1223	
30 minute summer	2	1.001	3	6.2	1.262	0.202	0.1736	
30 minute summer	1	1.000	1.000:50%	0.0	0.000	0.000	0.0143	
30 minute summer	1	1.000	2	2.5	1.082	0.074	0.0294	
30 minute summer	14	1.006	1.006:50%	64.8	1.804	0.917	0.6403	
30 minute summer	14	1.006	18	71.5	1.976	1.011	0.6763	
30 minute summer	20	1.009	1.009:50%	108.7	1.924	0.748	0.5567	
30 minute summer	20	1.009	21	118.1	2.183	0.812	0.5322	
30 minute summer	19	1.008	1.008:50%	103.8	2.274	0.585	0.4453	
30 minute summer	19	1.008	20	108.7	2.122	0.612	0.4987	
30 minute summer	22	7.000	7.000:50%	0.0	0.000	0.000	0.0570	
30 minute summer	22	7.000	23	10.6	1.225	0.465	0.1235	
30 minute summer	23	7.001	7.001:50%	10.6	0.431	0.482	0.4149	
30 minute summer	23	7.001	24	23.1	0.816	1.050	0.4585	
30 minute summer	28_OUT	Flow through pond	29	143.9	0.224	0.002	238.8491	
30 minute summer	21	1.010	21_OUT	118.1	1.181	1.031	1.2437	
30 minute summer	21_OUT	Flow through pond	29	143.9	0.224	0.002	238.8491	
30 minute summer	3	1.002	1.002:50%	6.2	0.921	0.250	0.0787	
30 minute summer	3	1.002	4	11.3	1.043	0.456	0.1340	
30 minute summer	6	1.004	1.004:50%	32.9	1.547	0.932	0.3387	

**Results for 30 year 30 minute summer. 270 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
30 minute summer	1.004:50%	29	0.150	34.6	0.0000	0.0000	OK
30 minute summer	4	29	0.142	11.3	0.1611	0.0000	OK
30 minute summer	1.003:50%	28	0.148	15.9	0.3689	0.0000	OK
30 minute summer	5	1	0.000	0.0	0.0000	0.0000	OK
30 minute summer	2.000:50%	28	0.076	17.1	0.2123	0.0000	OK
30 minute summer	30	49	0.215	25.5	0.7457	0.0000	OK
30 minute summer	29	48	0.433	143.9	0.4898	0.0000	SURCHARGED
30 minute summer	25	1	0.000	0.0	0.0000	0.0000	OK
30 minute summer	8.000:50%	29	0.029	2.1	0.0000	0.0000	OK
30 minute summer	24	30	0.163	23.1	0.1849	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	1.004	13	34.6	1.638	0.981	0.3561	
30 minute summer	4	1.003	1.003:50%	11.3	0.532	0.664	0.0726	
30 minute summer	4	1.003	6	15.8	0.750	0.931	0.0724	
30 minute summer	5	2.000	2.000:50%	0.0	0.000	0.000	0.1153	
30 minute summer	5	2.000	6	17.1	1.941	0.493	0.2281	
30 minute summer	30	Hydro-Brake®	30_OUT	25.5				264.2
30 minute summer	29	9.000	30	25.5	1.448	2.056	0.2566	
30 minute summer	25	8.000	8.000:50%	0.0	0.000	0.000	0.0152	
30 minute summer	25	8.000	26	2.1	0.896	0.079	0.0302	
30 minute summer	24	7.002	26	23.1	0.934	1.025	0.1176	

**Results for 30 year 30 minute winter. 270 minute analysis at 1 minute timestep. Mass balance: 99.88%**

Node Event	US Node	Peak (mins)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
30 minute winter	26	28	0.187	28.5	0.2118	0.0000	OK
30 minute winter	7.003:50%	28	0.191	42.2	0.0000	0.0000	OK
30 minute winter	27	28	0.127	42.2	0.1438	0.0000	OK
30 minute winter	7.004:50%	35	0.330	60.3	1.9730	0.0000	SURCHARGED
30 minute winter	28	37	0.571	56.7	0.6462	0.0000	SURCHARGED
30 minute winter	15	30	0.049	0.2	0.0550	0.0000	OK
30 minute winter	6.000:50%	30	0.106	10.9	0.0000	0.0000	OK
30 minute winter	16	30	0.085	10.9	0.0958	0.0000	OK
30 minute winter	6.001:50%	30	0.509	32.5	0.0000	0.0000	SURCHARGED
30 minute winter	17	30	0.101	32.3	0.1147	0.0000	OK
30 minute winter	6.002:50%	30	0.108	34.0	0.2141	0.0000	OK
30 minute winter	18	33	0.244	108.6	0.2760	0.0000	OK
30 minute winter	1.007:50%	33	0.233	110.8	0.8474	0.0000	OK
30 minute winter	7	1	0.000	0.0	0.0000	0.0000	OK
30 minute winter	3.000:50%	27	0.061	9.0	0.0000	0.0000	OK
30 minute winter	8	28	0.062	9.0	0.0699	0.0000	OK
30 minute winter	9	1	0.000	0.0	0.0000	0.0000	OK
30 minute winter	4.000:50%	29	0.051	7.6	0.0946	0.0000	OK
30 minute winter	10	29	0.078	16.6	0.0883	0.0000	OK
30 minute winter	3.002:50%	28	0.120	29.3	0.0000	0.0000	OK
30 minute winter	13	34	0.424	68.5	0.4800	0.0000	SURCHARGED
30 minute winter	12	34	0.287	4.4	0.3244	0.0000	SURCHARGED
30 minute winter	5.001:50%	34	0.332	7.3	1.6044	0.0000	SURCHARGED
30 minute winter	11	1	0.000	0.0	0.0000	0.0000	OK
30 minute winter	5.000:50%	29	0.038	4.4	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
30 minute winter	26	7.003	7.003:50%	28.6	0.719	0.829	0.6521	
30 minute winter	26	7.003	27	42.2	1.292	1.224	0.5346	
30 minute winter	27	7.004	7.004:50%	42.3	1.442	0.510	0.9062	
30 minute winter	27	7.004	28	56.7	1.276	0.685	1.2084	
30 minute winter	28	7.005	28_OUT	56.2	0.798	1.131	1.1066	
30 minute winter	15	6.000	6.000:50%	-0.2	-0.064	-0.019	0.1049	
30 minute winter	15	6.000	16	10.9	1.048	0.875	0.1356	
30 minute winter	16	6.001	6.001:50%	10.8	0.736	0.407	0.3128	
30 minute winter	16	6.001	17	32.3	1.953	1.212	0.3399	
30 minute winter	17	6.002	6.002:50%	32.3	2.458	0.696	0.0652	
30 minute winter	17	6.002	18	34.0	2.671	0.732	0.0631	
30 minute winter	18	1.007	1.007:50%	108.6	1.808	0.820	0.3621	
30 minute winter	18	1.007	19	110.8	2.084	0.837	0.3194	
30 minute winter	7	3.000	3.000:50%	0.0	0.000	0.000	0.0391	
30 minute winter	7	3.000	8	9.0	1.331	0.333	0.0790	
30 minute winter	8	3.001	10	9.0	1.119	0.356	0.2571	
30 minute winter	9	4.000	4.000:50%	0.0	0.000	0.000	0.0278	
30 minute winter	9	4.000	10	7.6	1.055	0.245	0.0772	
30 minute winter	10	3.002	3.002:50%	16.6	1.351	0.535	0.3785	
30 minute winter	10	3.002	13	29.3	1.973	0.944	0.4618	
30 minute winter	13	1.005	14	68.5	2.187	0.923	0.1170	
30 minute winter	12	5.001	5.001:50%	6.9	0.527	0.556	0.1819	
30 minute winter	12	5.001	13	13.9	0.866	1.120	0.1819	
30 minute winter	11	5.000	5.000:50%	0.0	0.000	0.000	0.0467	
30 minute winter	11	5.000	12	4.4	0.843	0.138	0.2843	

**Results for 30 year 30 minute winter. 270 minute analysis at 1 minute timestep. Mass balance: 99.88%**

Node Event	US Node	Peak (mins)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
30 minute winter	2	28	0.031	2.8	0.0347	0.0000	OK
30 minute winter	1.001:50%	29	0.049	7.0	0.0308	0.0000	OK
30 minute winter	1	1	0.000	0.0	0.0000	0.0000	OK
30 minute winter	1.000:50%	26	0.029	2.8	0.0045	0.0000	OK
30 minute winter	14	34	0.339	68.5	0.3834	0.0000	SURCHARGED
30 minute winter	1.006:50%	34	0.306	75.6	1.6812	0.0000	SURCHARGED
30 minute winter	20	32	0.234	116.0	0.2652	0.0000	OK
30 minute winter	1.009:50%	32	0.242	126.3	0.0313	0.0000	OK
30 minute winter	19	33	0.191	110.8	0.2728	0.0000	OK
30 minute winter	1.008:50%	32	0.199	116.0	0.0000	0.0000	OK
30 minute winter	22	1	0.000	0.0	0.0000	0.0000	OK
30 minute winter	7.000:50%	26	0.077	12.0	0.0000	0.0000	OK
30 minute winter	23	29	0.162	12.0	0.1827	0.0000	OK
30 minute winter	7.001:50%	28	0.203	26.2	0.0000	0.0000	SURCHARGED
30 minute winter	28_OUT	38	0.557	56.2	0.6303	0.0000	OK
30 minute winter	30_OUT	1	0.000	27.0	0.0000	0.0000	OK
30 minute winter	21	32	0.315	126.3	0.4512	0.0000	OK
30 minute winter	21_OUT	37	0.599	134.3	0.8571	0.0000	OK
30 minute winter	3	29	0.054	7.0	0.0616	0.0000	OK
30 minute winter	1.002:50%	32	0.077	12.8	0.0000	0.0000	OK
30 minute winter	6	33	0.265	35.3	0.2994	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	2	1.001	1.001:50%	2.8	0.755	0.091	0.1332	
30 minute winter	2	1.001	3	7.0	1.305	0.228	0.1895	
30 minute winter	1	1.000	1.000:50%	0.0	0.000	0.000	0.0155	
30 minute winter	1	1.000	2	2.8	1.119	0.083	0.0319	
30 minute winter	14	1.006	1.006:50%	68.4	1.804	0.968	0.6990	
30 minute winter	14	1.006	18	75.3	1.970	1.065	0.6907	
30 minute winter	20	1.009	1.009:50%	116.0	1.943	0.798	0.5906	
30 minute winter	20	1.009	21	126.3	2.205	0.869	0.5633	
30 minute winter	19	1.008	1.008:50%	110.8	2.291	0.624	0.4725	
30 minute winter	19	1.008	20	116.0	2.130	0.654	0.5304	
30 minute winter	22	7.000	7.000:50%	0.0	0.000	0.000	0.0614	
30 minute winter	22	7.000	23	12.0	1.233	0.526	0.1556	
30 minute winter	23	7.001	7.001:50%	12.0	0.428	0.546	0.4734	
30 minute winter	23	7.001	24	26.1	0.849	1.188	0.4932	
30 minute winter	28_OUT	Flow through pond	29	141.0	0.220	0.002	270.3479	
30 minute winter	21	1.010	21_OUT	126.3	1.209	1.103	1.2992	
30 minute winter	21_OUT	Flow through pond	29	141.0	0.220	0.002	270.3479	
30 minute winter	3	1.002	1.002:50%	7.0	0.949	0.283	0.0861	
30 minute winter	3	1.002	4	12.8	1.032	0.517	0.1552	
30 minute winter	6	1.004	1.004:50%	35.1	1.549	0.995	0.3820	

**Results for 30 year 30 minute winter. 270 minute analysis at 1 minute timestep. Mass balance: 99.88%**

Node Event	US Node	Peak (mins)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
30 minute winter	1.004:50%	32	0.223	37.0	0.0000	0.0000	SURCHARGED
30 minute winter	4	33	0.268	12.8	0.3033	0.0000	SURCHARGED
30 minute winter	1.003:50%	33	0.272	17.5	1.2432	0.0000	SURCHARGED
30 minute winter	5	1	0.000	0.0	0.0000	0.0000	OK
30 minute winter	2.000:50%	29	0.082	19.3	0.2462	0.0000	OK
30 minute winter	30	49	0.227	27.0	0.7861	0.0000	OK
30 minute winter	29	49	0.478	141.0	0.5402	0.0000	SURCHARGED
30 minute winter	25	1	0.000	0.0	0.0000	0.0000	OK
30 minute winter	8.000:50%	29	0.031	2.4	0.0000	0.0000	OK
30 minute winter	24	29	0.179	26.1	0.2022	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	1.004	13	37.0	1.632	1.047	0.3757	
30 minute winter	4	1.003	1.003:50%	12.4	0.535	0.729	0.0821	
30 minute winter	4	1.003	6	19.2	0.829	1.127	0.0821	
30 minute winter	5	2.000	2.000:50%	0.0	0.000	0.000	0.1266	
30 minute winter	5	2.000	6	19.3	1.998	0.556	0.2501	
30 minute winter	30	Hydro-Brake®	30_OUT	27.0				290.1
30 minute winter	29	9.000	30	27.0	1.532	2.174	0.2574	
30 minute winter	25	8.000	8.000:50%	0.0	0.000	0.000	0.0167	
30 minute winter	25	8.000	26	2.4	0.932	0.090	0.0332	
30 minute winter	24	7.002	26	26.1	0.978	1.160	0.1266	

**Results for 30 year 60 minute summer. 300 minute analysis at 1 minute timestep. Mass balance: 99.90%**

Node Event	US Node	Peak (mins)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute summer	26	44	0.171	25.2	0.1929	0.0000	OK
60 minute summer	7.003:50%	44	0.177	37.2	0.0000	0.0000	OK
60 minute summer	27	43	0.117	37.2	0.1326	0.0000	OK
60 minute summer	7.004:50%	52	0.257	53.0	1.1949	0.0000	SURCHARGED
60 minute summer	28	53	0.546	51.3	0.6172	0.0000	SURCHARGED
60 minute summer	15	43	0.039	0.2	0.0443	0.0000	OK
60 minute summer	6.000:50%	42	0.096	9.6	0.0000	0.0000	OK
60 minute summer	16	44	0.062	9.6	0.0704	0.0000	OK
60 minute summer	6.001:50%	45	0.332	28.8	0.0000	0.0000	SURCHARGED
60 minute summer	17	45	0.093	28.7	0.1052	0.0000	OK
60 minute summer	6.002:50%	45	0.099	30.2	0.1782	0.0000	OK
60 minute summer	18	46	0.230	101.3	0.2601	0.0000	OK
60 minute summer	1.007:50%	46	0.221	103.3	0.7624	0.0000	OK
60 minute summer	7	1	0.000	0.0	0.0000	0.0000	OK
60 minute summer	3.000:50%	41	0.057	7.9	0.0000	0.0000	OK
60 minute summer	8	42	0.058	7.9	0.0651	0.0000	OK
60 minute summer	9	1	0.000	0.0	0.0000	0.0000	OK
60 minute summer	4.000:50%	44	0.047	6.7	0.0830	0.0000	OK
60 minute summer	10	44	0.072	14.6	0.0819	0.0000	OK
60 minute summer	3.002:50%	44	0.107	25.7	0.0000	0.0000	OK
60 minute summer	13	45	0.252	64.5	0.2851	0.0000	SURCHARGED
60 minute summer	12	46	0.112	3.8	0.1269	0.0000	OK
60 minute summer	5.001:50%	46	0.159	4.9	0.3698	0.0000	SURCHARGED
60 minute summer	11	1	0.000	0.0	0.0000	0.0000	OK
60 minute summer	5.000:50%	43	0.035	3.8	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
60 minute summer	26	7.003	7.003:50%	25.2	0.695	0.731	0.5947	
60 minute summer	26	7.003	27	37.2	1.244	1.080	0.4877	
60 minute summer	27	7.004	7.004:50%	37.2	1.418	0.449	0.8657	
60 minute summer	27	7.004	28	51.3	1.229	0.619	1.2084	
60 minute summer	28	7.005	28_OUT	50.8	0.722	1.023	1.1066	
60 minute summer	15	6.000	6.000:50%	-0.2	-0.042	-0.013	0.0899	
60 minute summer	15	6.000	16	9.6	1.018	0.774	0.1087	
60 minute summer	16	6.001	6.001:50%	9.6	0.741	0.361	0.2751	
60 minute summer	16	6.001	17	28.7	1.874	1.078	0.3264	
60 minute summer	17	6.002	6.002:50%	28.7	2.417	0.619	0.0589	
60 minute summer	17	6.002	18	30.2	2.618	0.651	0.0572	
60 minute summer	18	1.007	1.007:50%	101.3	1.784	0.765	0.3425	
60 minute summer	18	1.007	19	103.3	2.060	0.780	0.3018	
60 minute summer	7	3.000	3.000:50%	0.0	0.000	0.000	0.0354	
60 minute summer	7	3.000	8	7.9	1.286	0.292	0.0717	
60 minute summer	8	3.001	10	7.9	1.083	0.313	0.2336	
60 minute summer	9	4.000	4.000:50%	0.0	0.000	0.000	0.0254	
60 minute summer	9	4.000	10	6.7	1.022	0.216	0.0703	
60 minute summer	10	3.002	3.002:50%	14.6	1.332	0.471	0.3392	
60 minute summer	10	3.002	13	25.7	1.944	0.828	0.4113	
60 minute summer	13	1.005	14	64.5	2.136	0.870	0.1076	
60 minute summer	12	5.001	5.001:50%	4.2	0.527	0.338	0.1640	
60 minute summer	12	5.001	13	6.3	0.469	0.510	0.1819	
60 minute summer	11	5.000	5.000:50%	0.0	0.000	0.000	0.0421	
60 minute summer	11	5.000	12	3.8	0.832	0.119	0.2327	

**Results for 30 year 60 minute summer. 300 minute analysis at 1 minute timestep. Mass balance: 99.90%**

Node Event	US Node	Peak (mins)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute summer	2	43	0.029	2.5	0.0328	0.0000	OK
60 minute summer	1.001:50%	45	0.046	6.2	0.0271	0.0000	OK
60 minute summer	1	1	0.000	0.0	0.0000	0.0000	OK
60 minute summer	1.000:50%	41	0.028	2.5	0.0040	0.0000	OK
60 minute summer	14	46	0.181	64.5	0.2053	0.0000	OK
60 minute summer	1.006:50%	46	0.206	71.2	0.7596	0.0000	OK
60 minute summer	20	46	0.220	108.2	0.2488	0.0000	OK
60 minute summer	1.009:50%	46	0.227	117.6	0.0277	0.0000	OK
60 minute summer	19	46	0.181	103.3	0.2592	0.0000	OK
60 minute summer	1.008:50%	46	0.188	108.2	0.0000	0.0000	OK
60 minute summer	22	1	0.000	0.0	0.0000	0.0000	OK
60 minute summer	7.000:50%	41	0.073	10.6	0.0000	0.0000	OK
60 minute summer	23	44	0.132	10.6	0.1498	0.0000	OK
60 minute summer	7.001:50%	44	0.176	23.1	0.0000	0.0000	OK
60 minute summer	28_OUT	55	0.546	50.8	0.6178	0.0000	OK
60 minute summer	30_OUT	1	0.000	27.5	0.0000	0.0000	OK
60 minute summer	21	46	0.303	117.6	0.4329	0.0000	OK
60 minute summer	21_OUT	51	0.570	125.2	0.8151	0.0000	OK
60 minute summer	3	45	0.051	6.2	0.0578	0.0000	OK
60 minute summer	1.002:50%	44	0.071	11.3	0.0000	0.0000	OK
60 minute summer	6	44	0.141	32.8	0.1592	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	2	1.001	1.001:50%	2.5	0.730	0.082	0.1223	
60 minute summer	2	1.001	3	6.2	1.262	0.202	0.1736	
60 minute summer	1	1.000	1.000:50%	0.0	0.000	0.000	0.0143	
60 minute summer	1	1.000	2	2.5	1.082	0.074	0.0294	
60 minute summer	14	1.006	1.006:50%	64.5	1.804	0.912	0.6364	
60 minute summer	14	1.006	18	71.1	1.976	1.006	0.6738	
60 minute summer	20	1.009	1.009:50%	108.2	1.923	0.745	0.5549	
60 minute summer	20	1.009	21	117.6	2.182	0.809	0.5306	
60 minute summer	19	1.008	1.008:50%	103.3	2.273	0.582	0.4437	
60 minute summer	19	1.008	20	108.2	2.121	0.610	0.4969	
60 minute summer	22	7.000	7.000:50%	0.0	0.000	0.000	0.0569	
60 minute summer	22	7.000	23	10.6	1.227	0.464	0.1234	
60 minute summer	23	7.001	7.001:50%	10.6	0.425	0.482	0.4149	
60 minute summer	23	7.001	24	23.1	0.816	1.050	0.4584	
60 minute summer	28_OUT	Flow through pond	29	100.2	0.140	0.002	283.1453	
60 minute summer	21	1.010	21_OUT	117.7	1.180	1.027	1.2409	
60 minute summer	21_OUT	Flow through pond	29	100.2	0.140	0.002	283.1453	
60 minute summer	3	1.002	1.002:50%	6.2	0.924	0.250	0.0787	
60 minute summer	3	1.002	4	11.3	1.023	0.456	0.1336	
60 minute summer	6	1.004	1.004:50%	32.8	1.546	0.928	0.3372	

**Results for 30 year 60 minute summer. 300 minute analysis at 1 minute timestep. Mass balance: 99.90%**

Node Event	US Node	Peak (mins)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute summer	1.004:50%	44	0.149	34.5	0.0000	0.0000	OK
60 minute summer	4	44	0.142	11.3	0.1605	0.0000	OK
60 minute summer	1.003:50%	44	0.147	15.8	0.3660	0.0000	OK
60 minute summer	5	1	0.000	0.0	0.0000	0.0000	OK
60 minute summer	2.000:50%	44	0.075	17.0	0.2109	0.0000	OK
60 minute summer	30	71	0.232	27.5	0.8022	0.0000	OK
60 minute summer	29	70	0.495	100.2	0.5601	0.0000	SURCHARGED
60 minute summer	25	1	0.000	0.0	0.0000	0.0000	OK
60 minute summer	8.000:50%	44	0.029	2.1	0.0000	0.0000	OK
60 minute summer	24	44	0.163	23.1	0.1848	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	1.004	13	34.5	1.638	0.976	0.3550	
60 minute summer	4	1.003	1.003:50%	11.3	0.532	0.664	0.0724	
60 minute summer	4	1.003	6	15.8	0.749	0.927	0.0721	
60 minute summer	5	2.000	2.000:50%	0.0	0.000	0.000	0.1148	
60 minute summer	5	2.000	6	17.0	1.938	0.490	0.2271	
60 minute summer	30	Hydro-Brake®	30_OUT	27.5				325.4
60 minute summer	29	9.000	30	27.5	1.563	2.219	0.2577	
60 minute summer	25	8.000	8.000:50%	0.0	0.000	0.000	0.0152	
60 minute summer	25	8.000	26	2.1	0.896	0.079	0.0302	
60 minute summer	24	7.002	26	23.1	0.934	1.025	0.1176	

**Results for 30 year 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 (m³)	Flood (m³)	Status
60 minute winter	26	44	0.182	27.5	0.2057	0.0000	OK
60 minute winter	7.003:50%	43	0.186	40.6	0.0000	0.0000	OK
60 minute winter	27	42	0.123	40.6	0.1395	0.0000	OK
60 minute winter	7.004:50%	50	0.342	57.8	2.1191	0.0000	SURCHARGED
60 minute winter	28	53	0.599	53.6	0.6775	0.0000	SURCHARGED
60 minute winter	15	43	0.045	0.1	0.0505	0.0000	OK
60 minute winter	6.000:50%	42	0.102	10.5	0.0000	0.0000	OK
60 minute winter	16	44	0.065	10.5	0.0740	0.0000	OK
60 minute winter	6.001:50%	45	0.456	31.5	0.0000	0.0000	SURCHARGED
60 minute winter	17	45	0.099	31.2	0.1119	0.0000	OK
60 minute winter	6.002:50%	45	0.105	32.9	0.2028	0.0000	OK
60 minute winter	18	47	0.238	105.5	0.2692	0.0000	OK
60 minute winter	1.007:50%	47	0.228	107.7	0.8110	0.0000	OK
60 minute winter	7	1	0.000	0.0	0.0000	0.0000	OK
60 minute winter	3.000:50%	43	0.060	8.7	0.0000	0.0000	OK
60 minute winter	8	43	0.061	8.7	0.0686	0.0000	OK
60 minute winter	9	1	0.000	0.0	0.0000	0.0000	OK
60 minute winter	4.000:50%	44	0.050	7.3	0.0908	0.0000	OK
60 minute winter	10	43	0.076	16.0	0.0863	0.0000	OK
60 minute winter	3.002:50%	43	0.115	28.2	0.0000	0.0000	OK
60 minute winter	13	48	0.370	68.2	0.4183	0.0000	SURCHARGED
60 minute winter	12	49	0.232	4.2	0.2628	0.0000	SURCHARGED
60 minute winter	5.001:50%	49	0.277	6.6	1.1214	0.0000	SURCHARGED
60 minute winter	11	1	0.000	0.0	0.0000	0.0000	OK
60 minute winter	5.000:50%	44	0.037	4.2	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
60 minute winter	26	7.003	7.003:50%	27.5	0.713	0.799	0.6334	
60 minute winter	26	7.003	27	40.6	1.279	1.177	0.5173	
60 minute winter	27	7.004	7.004:50%	40.6	1.416	0.490	0.8985	
60 minute winter	27	7.004	28	53.6	1.206	0.647	1.2084	
60 minute winter	28	7.005	28_OUT	53.1	0.754	1.069	1.1066	
60 minute winter	15	6.000	6.000:50%	-0.1	-0.040	-0.010	0.0987	
60 minute winter	15	6.000	16	10.5	1.043	0.846	0.1158	
60 minute winter	16	6.001	6.001:50%	10.5	0.736	0.394	0.2804	
60 minute winter	16	6.001	17	31.2	1.904	1.173	0.3360	
60 minute winter	17	6.002	6.002:50%	31.3	2.449	0.674	0.0633	
60 minute winter	17	6.002	18	32.9	2.657	0.708	0.0613	
60 minute winter	18	1.007	1.007:50%	105.5	1.797	0.797	0.3539	
60 minute winter	18	1.007	19	107.7	2.074	0.813	0.3120	
60 minute winter	7	3.000	3.000:50%	0.0	0.000	0.000	0.0381	
60 minute winter	7	3.000	8	8.7	1.319	0.321	0.0771	
60 minute winter	8	3.001	10	8.7	1.111	0.344	0.2503	
60 minute winter	9	4.000	4.000:50%	0.0	0.000	0.000	0.0270	
60 minute winter	9	4.000	10	7.3	1.046	0.235	0.0751	
60 minute winter	10	3.002	3.002:50%	16.0	1.347	0.515	0.3661	
60 minute winter	10	3.002	13	28.2	1.968	0.908	0.4453	
60 minute winter	13	1.005	14	67.8	2.181	0.914	0.1170	
60 minute winter	12	5.001	5.001:50%	6.0	0.525	0.482	0.1819	
60 minute winter	12	5.001	13	11.0	0.667	0.889	0.1819	
60 minute winter	11	5.000	5.000:50%	0.0	0.000	0.000	0.0452	
60 minute winter	11	5.000	12	4.2	0.840	0.132	0.2827	

**Results for 30 year 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 (m³)	Flood (m³)	Status
60 minute winter	2	43	0.030	2.7	0.0341	0.0000	OK
60 minute winter	1.001:50%	44	0.048	6.7	0.0294	0.0000	OK
60 minute winter	1	1	0.000	0.0	0.0000	0.0000	OK
60 minute winter	1.000:50%	41	0.029	2.7	0.0043	0.0000	OK
60 minute winter	14	48	0.297	67.8	0.3364	0.0000	SURCHARGED
60 minute winter	1.006:50%	49	0.284	75.0	1.4437	0.0000	SURCHARGED
60 minute winter	20	47	0.228	112.8	0.2581	0.0000	OK
60 minute winter	1.009:50%	47	0.235	122.7	0.0297	0.0000	OK
60 minute winter	19	47	0.187	107.7	0.2671	0.0000	OK
60 minute winter	1.008:50%	47	0.194	112.8	0.0000	0.0000	OK
60 minute winter	22	1	0.000	0.0	0.0000	0.0000	OK
60 minute winter	7.000:50%	42	0.076	11.6	0.0000	0.0000	OK
60 minute winter	23	43	0.151	11.6	0.1713	0.0000	OK
60 minute winter	7.001:50%	43	0.194	25.3	0.0000	0.0000	OK
60 minute winter	28_OUT	54	0.591	53.1	0.6688	0.0000	OK
60 minute winter	30_OUT	1	0.000	29.1	0.0000	0.0000	OK
60 minute winter	21	47	0.310	122.7	0.4435	0.0000	OK
60 minute winter	21_OUT	53	0.634	131.4	0.9079	0.0000	OK
60 minute winter	3	45	0.053	6.7	0.0602	0.0000	OK
60 minute winter	1.002:50%	43	0.075	12.3	0.0000	0.0000	OK
60 minute winter	6	47	0.204	35.3	0.2309	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 winter	2	1.001	1.001:50%	2.7	0.746	0.088	0.1293	
60 minute winter	2	1.001	3	6.7	1.290	0.219	0.1835	
60 minute winter	1	1.000	1.000:50%	0.0	0.000	0.000	0.0151	
60 minute winter	1	1.000	2	2.7	1.108	0.080	0.0311	
60 minute winter	14	1.006	1.006:50%	67.6	1.804	0.956	0.6990	
60 minute winter	14	1.006	18	73.3	1.986	1.036	0.6896	
60 minute winter	20	1.009	1.009:50%	112.8	1.934	0.776	0.5755	
60 minute winter	20	1.009	21	122.7	2.196	0.844	0.5495	
60 minute winter	19	1.008	1.008:50%	107.7	2.284	0.607	0.4604	
60 minute winter	19	1.008	20	112.8	2.127	0.635	0.5162	
60 minute winter	22	7.000	7.000:50%	0.0	0.000	0.000	0.0600	
60 minute winter	22	7.000	23	11.6	1.228	0.508	0.1451	
60 minute winter	23	7.001	7.001:50%	11.6	0.425	0.526	0.4578	
60 minute winter	23	7.001	24	25.2	0.837	1.146	0.4859	
60 minute winter	28_OUT	Flow through pond	29	105.2	0.154	0.002	320.9026	
60 minute winter	21	1.010	21_OUT	122.7	1.197	1.071	1.2748	
60 minute winter	21_OUT	Flow through pond	29	105.2	0.154	0.002	320.9026	
60 minute winter	3	1.002	1.002:50%	6.7	0.940	0.270	0.0835	
60 minute winter	3	1.002	4	12.3	1.021	0.496	0.1533	
60 minute winter	6	1.004	1.004:50%	35.0	1.548	0.990	0.3820	

**Results for 30 year 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 (m³)	Flood (m³)	Status
60 minute winter	1.004:50%	42	0.185	36.9	0.0000	0.0000	SURCHARGED
60 minute winter	4	47	0.206	12.3	0.2327	0.0000	SURCHARGED
60 minute winter	1.003:50%	47	0.210	17.2	0.7413	0.0000	SURCHARGED
60 minute winter	5	1	0.000	0.0	0.0000	0.0000	OK
60 minute winter	2.000:50%	43	0.080	18.6	0.2351	0.0000	OK
60 minute winter	30	72	0.246	29.1	0.8508	0.0000	OK
60 minute winter	29	72	0.546	105.2	0.6173	0.0000	SURCHARGED
60 minute winter	25	1	0.000	0.0	0.0000	0.0000	OK
60 minute winter	8.000:50%	44	0.030	2.3	0.0000	0.0000	OK
60 minute winter	24	44	0.174	25.2	0.1968	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	1.004	13	36.3	1.635	1.029	0.3749	
60 minute winter	4	1.003	1.003:50%	12.2	0.533	0.714	0.0821	
60 minute winter	4	1.003	6	18.0	0.774	1.055	0.0821	
60 minute winter	5	2.000	2.000:50%	0.0	0.000	0.000	0.1230	
60 minute winter	5	2.000	6	18.6	1.981	0.536	0.2431	
60 minute winter	30	Hydro-Brake®	30_OUT	29.1				354.5
60 minute winter	29	9.000	30	29.1	1.653	2.346	0.2580	
60 minute winter	25	8.000	8.000:50%	0.0	0.000	0.000	0.0162	
60 minute winter	25	8.000	26	2.3	0.920	0.086	0.0322	
60 minute winter	24	7.002	26	25.2	0.965	1.120	0.1240	

**Results for 30 year 120 minute summer. 360 minute analysis at 2 minute timestep. Mass balance: 99.94%**

Node Event	US Node	Peak (mins)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
120 minute summer	26	74	0.155	22.0	0.1755	0.0000	OK
120 minute summer	7.003:50%	74	0.163	32.5	0.0000	0.0000	OK
120 minute summer	27	74	0.108	32.5	0.1225	0.0000	OK
120 minute summer	7.004:50%	82	0.174	46.3	0.5473	0.0000	OK
120 minute summer	28	84	0.525	45.2	0.5939	0.0000	SURCHARGED
120 minute summer	15	74	0.032	0.1	0.0360	0.0000	OK
120 minute summer	6.000:50%	74	0.089	8.4	0.0000	0.0000	OK
120 minute summer	16	74	0.058	8.4	0.0654	0.0000	OK
120 minute summer	6.001:50%	74	0.129	25.2	0.0000	0.0000	OK
120 minute summer	17	74	0.085	25.2	0.0962	0.0000	OK
120 minute summer	6.002:50%	74	0.090	26.5	0.1479	0.0000	OK
120 minute summer	18	74	0.208	89.1	0.2353	0.0000	OK
120 minute summer	1.007:50%	76	0.202	90.8	0.6353	0.0000	OK
120 minute summer	7	2	0.000	0.0	0.0000	0.0000	OK
120 minute summer	3.000:50%	74	0.053	6.9	0.0000	0.0000	OK
120 minute summer	8	74	0.054	6.9	0.0605	0.0000	OK
120 minute summer	9	2	0.000	0.0	0.0000	0.0000	OK
120 minute summer	4.000:50%	74	0.044	5.9	0.0727	0.0000	OK
120 minute summer	10	74	0.067	12.8	0.0759	0.0000	OK
120 minute summer	3.002:50%	74	0.097	22.5	0.0000	0.0000	OK
120 minute summer	13	74	0.182	56.8	0.2059	0.0000	OK
120 minute summer	12	74	0.053	3.4	0.0604	0.0000	OK
120 minute summer	5.001:50%	74	0.085	4.1	0.1053	0.0000	OK
120 minute summer	11	2	0.000	0.0	0.0000	0.0000	OK
120 minute summer	5.000:50%	74	0.033	3.4	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
120 minute summer	26	7.003	7.003:50%	22.0	0.671	0.638	0.5384	
120 minute summer	26	7.003	27	32.5	1.199	0.943	0.4433	
120 minute summer	27	7.004	7.004:50%	32.5	1.375	0.392	0.6831	
120 minute summer	27	7.004	28	45.2	1.154	0.545	1.0526	
120 minute summer	28	7.005	28_OUT	44.7	0.635	0.901	1.1066	
120 minute summer	15	6.000	6.000:50%	-0.1	-0.023	-0.007	0.0784	
120 minute summer	15	6.000	16	8.4	0.982	0.677	0.0988	
120 minute summer	16	6.001	6.001:50%	8.4	0.734	0.315	0.2513	
120 minute summer	16	6.001	17	25.2	1.878	0.946	0.2966	
120 minute summer	17	6.002	6.002:50%	25.2	2.366	0.543	0.0529	
120 minute summer	17	6.002	18	26.5	2.553	0.571	0.0515	
120 minute summer	18	1.007	1.007:50%	89.0	1.738	0.673	0.3091	
120 minute summer	18	1.007	19	90.8	2.010	0.686	0.2722	
120 minute summer	7	3.000	3.000:50%	0.0	0.000	0.000	0.0321	
120 minute summer	7	3.000	8	6.9	1.241	0.255	0.0650	
120 minute summer	8	3.001	10	6.9	1.042	0.273	0.2118	
120 minute summer	9	4.000	4.000:50%	0.0	0.000	0.000	0.0232	
120 minute summer	9	4.000	10	5.9	0.992	0.190	0.0639	
120 minute summer	10	3.002	3.002:50%	12.8	1.302	0.413	0.3052	
120 minute summer	10	3.002	13	22.5	1.898	0.725	0.3688	
120 minute summer	13	1.005	14	56.8	2.136	0.766	0.0981	
120 minute summer	12	5.001	5.001:50%	3.4	0.527	0.274	0.0822	
120 minute summer	12	5.001	13	4.1	0.467	0.333	0.1381	
120 minute summer	11	5.000	5.000:50%	0.0	0.000	0.000	0.0389	
120 minute summer	11	5.000	12	3.4	0.812	0.107	0.1146	

**Results for 30 year 120 minute summer. 360 minute analysis at 2 minute timestep. Mass balance: 99.94%**

Node Event	US Node	Peak (mins)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
120 minute summer	2	74	0.027	2.2	0.0308	0.0000	OK
120 minute summer	1.001:50%	74	0.043	5.4	0.0235	0.0000	OK
120 minute summer	1	2	0.000	0.0	0.0000	0.0000	OK
120 minute summer	1.000:50%	74	0.026	2.2	0.0035	0.0000	OK
120 minute summer	14	74	0.160	56.8	0.1812	0.0000	OK
120 minute summer	1.006:50%	76	0.174	62.7	0.5456	0.0000	OK
120 minute summer	20	76	0.198	95.1	0.2241	0.0000	OK
120 minute summer	1.009:50%	74	0.206	103.4	0.0227	0.0000	OK
120 minute summer	19	76	0.166	90.8	0.2371	0.0000	OK
120 minute summer	1.008:50%	76	0.171	95.1	0.0000	0.0000	OK
120 minute summer	22	2	0.000	0.0	0.0000	0.0000	OK
120 minute summer	7.000:50%	74	0.068	9.3	0.0000	0.0000	OK
120 minute summer	23	74	0.112	9.3	0.1269	0.0000	OK
120 minute summer	7.001:50%	74	0.156	20.2	0.0000	0.0000	OK
120 minute summer	28_OUT	86	0.534	44.7	0.6039	0.0000	OK
120 minute summer	30_OUT	2	0.000	28.4	0.0000	0.0000	OK
120 minute summer	21	76	0.281	103.4	0.4022	0.0000	OK
120 minute summer	21_OUT	82	0.526	110.7	0.7533	0.0000	OK
120 minute summer	3	74	0.048	5.4	0.0537	0.0000	OK
120 minute summer	1.002:50%	74	0.066	9.9	0.0000	0.0000	OK
120 minute summer	6	74	0.125	28.8	0.1412	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	2	1.001	1.001:50%	2.2	0.707	0.072	0.1111	
120 minute summer	2	1.001	3	5.4	1.214	0.176	0.1571	
120 minute summer	1	1.000	1.000:50%	0.0	0.000	0.000	0.0130	
120 minute summer	1	1.000	2	2.2	1.043	0.065	0.0269	
120 minute summer	14	1.006	1.006:50%	56.8	1.793	0.803	0.5560	
120 minute summer	14	1.006	18	62.6	1.961	0.886	0.5611	
120 minute summer	20	1.009	1.009:50%	95.1	1.887	0.654	0.4968	
120 minute summer	20	1.009	21	103.4	2.131	0.711	0.4777	
120 minute summer	19	1.008	1.008:50%	90.9	2.236	0.512	0.3966	
120 minute summer	19	1.008	20	95.1	2.093	0.536	0.4428	
120 minute summer	22	7.000	7.000:50%	0.0	0.000	0.000	0.0525	
120 minute summer	22	7.000	23	9.3	1.211	0.407	0.1032	
120 minute summer	23	7.001	7.001:50%	9.3	0.424	0.422	0.3585	
120 minute summer	23	7.001	24	20.2	0.788	0.918	0.4152	
120 minute summer	28_OUT	Flow through pond	29	89.9	0.113	0.001	303.3680	
120 minute summer	21	1.010	21_OUT	103.4	1.130	0.903	1.1397	
120 minute summer	21_OUT	Flow through pond	29	89.9	0.113	0.001	303.3680	
120 minute summer	3	1.002	1.002:50%	5.4	0.887	0.218	0.0712	
120 minute summer	3	1.002	4	9.9	1.018	0.399	0.1161	
120 minute summer	6	1.004	1.004:50%	28.8	1.532	0.815	0.2977	

**Results for 30 year 120 minute summer. 360 minute analysis at 2 minute timestep. Mass balance: 99.94%**

Node Event	US Node	Peak (mins)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
120 minute summer	1.004:50%	74	0.130	30.3	0.0000	0.0000	OK
120 minute summer	4	74	0.125	9.9	0.1415	0.0000	OK
120 minute summer	1.003:50%	74	0.131	13.9	0.2895	0.0000	OK
120 minute summer	5	2	0.000	0.0	0.0000	0.0000	OK
120 minute summer	2.000:50%	74	0.070	14.9	0.1805	0.0000	OK
120 minute summer	30	112	0.238	28.4	0.8255	0.0000	OK
120 minute summer	29	112	0.522	89.9	0.5909	0.0000	SURCHARGED
120 minute summer	25	2	0.000	0.0	0.0000	0.0000	OK
120 minute summer	8.000:50%	74	0.027	1.8	0.0000	0.0000	OK
120 minute summer	24	74	0.149	20.2	0.1689	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	1.004	13	30.2	1.619	0.857	0.2963	
120 minute summer	4	1.003	1.003:50%	9.9	0.525	0.581	0.0642	
120 minute summer	4	1.003	6	13.9	0.738	0.815	0.0641	
120 minute summer	5	2.000	2.000:50%	0.0	0.000	0.000	0.1039	
120 minute summer	5	2.000	6	14.9	1.876	0.430	0.2057	
120 minute summer	30	Hydro-Brake®	30_OUT	28.4				399.7
120 minute summer	29	9.000	30	28.4	1.612	2.288	0.2580	
120 minute summer	25	8.000	8.000:50%	0.0	0.000	0.000	0.0136	
120 minute summer	25	8.000	26	1.8	0.856	0.068	0.0271	
120 minute summer	24	7.002	26	20.2	0.892	0.896	0.1080	

**Results for 30 year 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	26	74	0.150	20.9	0.1696	0.0000	OK
120 minute winter	7.003:50%	74	0.158	30.9	0.0000	0.0000	OK
120 minute winter	27	72	0.105	30.9	0.1189	0.0000	OK
120 minute winter	7.004:50%	86	0.200	44.1	0.7227	0.0000	OK
120 minute winter	28	90	0.559	43.0	0.6318	0.0000	SURCHARGED
120 minute winter	15	74	0.029	0.1	0.0332	0.0000	OK
120 minute winter	6.000:50%	74	0.086	8.0	0.0000	0.0000	OK
120 minute winter	16	74	0.056	8.0	0.0637	0.0000	OK
120 minute winter	6.001:50%	74	0.122	24.0	0.0000	0.0000	OK
120 minute winter	17	74	0.082	24.0	0.0931	0.0000	OK
120 minute winter	6.002:50%	74	0.087	25.3	0.1389	0.0000	OK
120 minute winter	18	74	0.201	85.1	0.2276	0.0000	OK
120 minute winter	1.007:50%	74	0.195	86.8	0.5973	0.0000	OK
120 minute winter	7	2	0.000	0.0	0.0000	0.0000	OK
120 minute winter	3.000:50%	74	0.051	6.6	0.0000	0.0000	OK
120 minute winter	8	74	0.052	6.6	0.0591	0.0000	OK
120 minute winter	9	2	0.000	0.0	0.0000	0.0000	OK
120 minute winter	4.000:50%	74	0.043	5.6	0.0689	0.0000	OK
120 minute winter	10	74	0.065	12.2	0.0739	0.0000	OK
120 minute winter	3.002:50%	74	0.094	21.5	0.0000	0.0000	OK
120 minute winter	13	74	0.173	54.2	0.1953	0.0000	OK
120 minute winter	12	76	0.052	3.2	0.0585	0.0000	OK
120 minute winter	5.001:50%	74	0.076	3.9	0.0832	0.0000	OK
120 minute winter	11	2	0.000	0.0	0.0000	0.0000	OK
120 minute winter	5.000:50%	74	0.032	3.2	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
120 minute winter	26	7.003	7.003:50%	20.9	0.661	0.606	0.5187	
120 minute winter	26	7.003	27	30.9	1.184	0.897	0.4272	
120 minute winter	27	7.004	7.004:50%	30.9	1.365	0.373	0.7339	
120 minute winter	27	7.004	28	43.0	1.166	0.519	1.1217	
120 minute winter	28	7.005	28_OUT	42.5	0.604	0.856	1.1066	
120 minute winter	15	6.000	6.000:50%	-0.1	-0.017	-0.004	0.0746	
120 minute winter	15	6.000	16	8.0	0.969	0.644	0.0954	
120 minute winter	16	6.001	6.001:50%	8.0	0.735	0.300	0.2403	
120 minute winter	16	6.001	17	24.0	1.877	0.901	0.2836	
120 minute winter	17	6.002	6.002:50%	24.0	2.343	0.517	0.0508	
120 minute winter	17	6.002	18	25.3	2.529	0.545	0.0496	
120 minute winter	18	1.007	1.007:50%	85.1	1.722	0.643	0.2982	
120 minute winter	18	1.007	19	86.8	1.991	0.655	0.2625	
120 minute winter	7	3.000	3.000:50%	0.0	0.000	0.000	0.0310	
120 minute winter	7	3.000	8	6.6	1.226	0.244	0.0629	
120 minute winter	8	3.001	10	6.6	1.031	0.261	0.2047	
120 minute winter	9	4.000	4.000:50%	0.0	0.000	0.000	0.0223	
120 minute winter	9	4.000	10	5.6	0.976	0.180	0.0616	
120 minute winter	10	3.002	3.002:50%	12.2	1.288	0.393	0.2944	
120 minute winter	10	3.002	13	21.5	1.881	0.693	0.3556	
120 minute winter	13	1.005	14	54.2	2.136	0.731	0.0937	
120 minute winter	12	5.001	5.001:50%	3.2	0.528	0.258	0.0737	
120 minute winter	12	5.001	13	3.9	0.461	0.318	0.1256	
120 minute winter	11	5.000	5.000:50%	0.0	0.000	0.000	0.0372	
120 minute winter	11	5.000	12	3.2	0.798	0.100	0.1098	

**Results for 30 year 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	2	74	0.027	2.1	0.0302	0.0000	OK
120 minute winter	1.001:50%	76	0.042	5.2	0.0226	0.0000	OK
120 minute winter	1	2	0.000	0.0	0.0000	0.0000	OK
120 minute winter	1.000:50%	72	0.025	2.1	0.0034	0.0000	OK
120 minute winter	14	74	0.154	54.2	0.1744	0.0000	OK
120 minute winter	1.006:50%	74	0.168	59.9	0.5036	0.0000	OK
120 minute winter	20	74	0.192	90.8	0.2166	0.0000	OK
120 minute winter	1.009:50%	74	0.199	98.8	0.0212	0.0000	OK
120 minute winter	19	74	0.161	86.8	0.2300	0.0000	OK
120 minute winter	1.008:50%	74	0.165	90.8	0.0000	0.0000	OK
120 minute winter	22	2	0.000	0.0	0.0000	0.0000	OK
120 minute winter	7.000:50%	74	0.066	8.8	0.0000	0.0000	OK
120 minute winter	23	74	0.106	8.8	0.1197	0.0000	OK
120 minute winter	7.001:50%	74	0.149	19.2	0.0000	0.0000	OK
120 minute winter	28_OUT	114	0.583	42.5	0.6593	0.0000	OK
120 minute winter	30_OUT	2	0.000	30.0	0.0000	0.0000	OK
120 minute winter	21	74	0.274	98.8	0.3922	0.0000	OK
120 minute winter	21_OUT	84	0.553	105.6	0.7915	0.0000	OK
120 minute winter	3	76	0.047	5.2	0.0527	0.0000	OK
120 minute winter	1.002:50%	76	0.064	9.4	0.0000	0.0000	OK
120 minute winter	6	74	0.120	27.4	0.1359	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	2	1.001	1.001:50%	2.1	0.695	0.069	0.1080	
120 minute winter	2	1.001	3	5.2	1.201	0.170	0.1530	
120 minute winter	1	1.000	1.000:50%	0.0	0.000	0.000	0.0126	
120 minute winter	1	1.000	2	2.1	1.029	0.062	0.0260	
120 minute winter	14	1.006	1.006:50%	54.2	1.783	0.766	0.5336	
120 minute winter	14	1.006	18	59.8	1.949	0.846	0.5391	
120 minute winter	20	1.009	1.009:50%	90.8	1.871	0.625	0.4784	
120 minute winter	20	1.009	21	98.8	2.112	0.680	0.4607	
120 minute winter	19	1.008	1.008:50%	86.7	2.218	0.489	0.3816	
120 minute winter	19	1.008	20	90.8	2.080	0.512	0.4258	
120 minute winter	22	7.000	7.000:50%	0.0	0.000	0.000	0.0504	
120 minute winter	22	7.000	23	8.8	1.194	0.385	0.0990	
120 minute winter	23	7.001	7.001:50%	8.8	0.424	0.400	0.3398	
120 minute winter	23	7.001	24	19.2	0.778	0.872	0.3999	
120 minute winter	28_OUT	Flow through pond	29	86.6	0.120	0.001	345.0325	
120 minute winter	21	1.010	21_OUT	98.7	1.112	0.862	1.1061	
120 minute winter	21_OUT	Flow through pond	29	86.6	0.120	0.001	345.0325	
120 minute winter	3	1.002	1.002:50%	5.2	0.883	0.210	0.0689	
120 minute winter	3	1.002	4	9.4	1.018	0.379	0.1102	
120 minute winter	6	1.004	1.004:50%	27.4	1.522	0.776	0.2853	

**Results for 30 year 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	1.004:50%	74	0.125	28.8	0.0000	0.0000	OK
120 minute winter	4	74	0.120	9.4	0.1356	0.0000	OK
120 minute winter	1.003:50%	74	0.126	13.2	0.2678	0.0000	OK
120 minute winter	5	2	0.000	0.0	0.0000	0.0000	OK
120 minute winter	2.000:50%	74	0.068	14.2	0.1708	0.0000	OK
120 minute winter	30	120	0.268	30.1	0.9289	0.0000	OK
120 minute winter	29	118	0.578	86.6	0.6535	0.0000	SURCHARGED
120 minute winter	25	2	0.000	0.0	0.0000	0.0000	OK
120 minute winter	8.000:50%	72	0.026	1.7	0.0000	0.0000	OK
120 minute winter	24	74	0.145	19.2	0.1635	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	1.004	13	28.8	1.607	0.815	0.2841	435.4
120 minute winter	4	1.003	1.003:50%	9.4	0.524	0.553	0.0615	
120 minute winter	4	1.003	6	13.2	0.733	0.775	0.0615	
120 minute winter	5	2.000	2.000:50%	0.0	0.000	0.000	0.1002	
120 minute winter	5	2.000	6	14.2	1.853	0.409	0.1984	
120 minute winter	30	Hydro-Brake®	30_OUT	30.0				
120 minute winter	29	9.000	30	30.1	1.707	2.423	0.2580	
120 minute winter	25	8.000	8.000:50%	0.0	0.000	0.000	0.0131	
120 minute winter	25	8.000	26	1.7	0.842	0.064	0.0260	
120 minute winter	24	7.002	26	19.2	0.877	0.852	0.1045	

**Results for 30 year 180 minute summer. 420 minute analysis at 4 minute timestep. Mass balance: 99.95%**

Node Event	US Node	Peak (mins)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
180 minute summer	26	104	0.138	18.4	0.1559	0.0000	OK
180 minute summer	7.003:50%	104	0.147	27.2	0.0000	0.0000	OK
180 minute summer	27	104	0.098	27.1	0.1110	0.0000	OK
180 minute summer	7.004:50%	112	0.121	38.7	0.2648	0.0000	OK
180 minute summer	28	120	0.498	38.6	0.5633	0.0000	SURCHARGED
180 minute summer	15	104	0.024	0.1	0.0267	0.0000	OK
180 minute summer	6.000:50%	104	0.081	7.1	0.0000	0.0000	OK
180 minute summer	16	104	0.053	7.1	0.0596	0.0000	OK
180 minute summer	6.001:50%	104	0.109	21.2	0.0000	0.0000	OK
180 minute summer	17	104	0.076	21.1	0.0858	0.0000	OK
180 minute summer	6.002:50%	104	0.080	22.2	0.1169	0.0000	OK
180 minute summer	18	104	0.183	74.5	0.2073	0.0000	OK
180 minute summer	1.007:50%	104	0.179	76.0	0.5015	0.0000	OK
180 minute summer	7	4	0.000	0.0	0.0000	0.0000	OK
180 minute summer	3.000:50%	104	0.048	5.8	0.0000	0.0000	OK
180 minute summer	8	104	0.049	5.8	0.0552	0.0000	OK
180 minute summer	9	4	0.000	0.0	0.0000	0.0000	OK
180 minute summer	4.000:50%	104	0.040	4.9	0.0601	0.0000	OK
180 minute summer	10	104	0.061	10.7	0.0686	0.0000	OK
180 minute summer	3.002:50%	104	0.086	18.9	0.0000	0.0000	OK
180 minute summer	13	104	0.153	47.4	0.1732	0.0000	OK
180 minute summer	12	108	0.049	2.8	0.0552	0.0000	OK
180 minute summer	5.001:50%	104	0.056	3.4	0.0457	0.0000	OK
180 minute summer	11	4	0.000	0.0	0.0000	0.0000	OK
180 minute summer	5.000:50%	104	0.030	2.8	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
180 minute summer	26	7.003	7.003:50%	18.4	0.638	0.533	0.4723	
180 minute summer	26	7.003	27	27.1	1.137	0.787	0.3915	
180 minute summer	27	7.004	7.004:50%	27.1	1.330	0.327	0.5038	
180 minute summer	27	7.004	28	38.6	1.073	0.466	0.8935	
180 minute summer	28	7.005	28_OUT	38.2	0.542	0.769	1.1066	
180 minute summer	15	6.000	6.000:50%	-0.1	0.015	-0.004	0.0658	
180 minute summer	15	6.000	16	7.1	0.936	0.570	0.0875	
180 minute summer	16	6.001	6.001:50%	7.1	0.728	0.265	0.2164	
180 minute summer	16	6.001	17	21.1	1.852	0.793	0.2547	
180 minute summer	17	6.002	6.002:50%	21.1	2.288	0.455	0.0458	
180 minute summer	17	6.002	18	22.2	2.458	0.478	0.0448	
180 minute summer	18	1.007	1.007:50%	74.5	1.674	0.562	0.2683	
180 minute summer	18	1.007	19	75.9	1.937	0.573	0.2362	
180 minute summer	7	3.000	3.000:50%	0.0	0.000	0.000	0.0282	
180 minute summer	7	3.000	8	5.8	1.183	0.214	0.0572	
180 minute summer	8	3.001	10	5.8	0.996	0.229	0.1858	
180 minute summer	9	4.000	4.000:50%	0.0	0.000	0.000	0.0203	
180 minute summer	9	4.000	10	4.9	0.941	0.158	0.0559	
180 minute summer	10	3.002	3.002:50%	10.7	1.249	0.344	0.2658	
180 minute summer	10	3.002	13	18.8	1.827	0.607	0.3205	
180 minute summer	13	1.005	14	47.4	2.116	0.639	0.0833	
180 minute summer	12	5.001	5.001:50%	2.8	0.525	0.226	0.0566	
180 minute summer	12	5.001	13	3.4	0.469	0.276	0.0977	
180 minute summer	11	5.000	5.000:50%	0.0	0.000	0.000	0.0339	
180 minute summer	11	5.000	12	2.8	0.759	0.088	0.1010	

**Results for 30 year 180 minute summer. 420 minute analysis at 4 minute timestep. Mass balance: 99.95%**

Node Event	US Node	Peak (mins)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
180 minute summer	2	108	0.025	1.8	0.0280	0.0000	OK
180 minute summer	1.001:50%	108	0.039	4.5	0.0195	0.0000	OK
180 minute summer	1	4	0.000	0.0	0.0000	0.0000	OK
180 minute summer	1.000:50%	104	0.024	1.8	0.0029	0.0000	OK
180 minute summer	14	104	0.140	47.4	0.1581	0.0000	OK
180 minute summer	1.006:50%	104	0.151	52.4	0.4084	0.0000	OK
180 minute summer	20	104	0.174	79.4	0.1969	0.0000	OK
180 minute summer	1.009:50%	104	0.181	86.4	0.0176	0.0000	OK
180 minute summer	19	104	0.147	75.9	0.2110	0.0000	OK
180 minute summer	1.008:50%	104	0.151	79.5	0.0000	0.0000	OK
180 minute summer	22	4	0.000	0.0	0.0000	0.0000	OK
180 minute summer	7.000:50%	104	0.062	7.8	0.0000	0.0000	OK
180 minute summer	23	104	0.093	7.8	0.1048	0.0000	OK
180 minute summer	7.001:50%	104	0.136	17.0	0.0000	0.0000	OK
180 minute summer	28_OUT	140	0.528	38.2	0.5970	0.0000	OK
180 minute summer	30_OUT	4	0.000	28.4	0.0000	0.0000	OK
180 minute summer	21	104	0.254	86.3	0.3638	0.0000	OK
180 minute summer	21_OUT	116	0.483	92.6	0.6906	0.0000	OK
180 minute summer	3	108	0.043	4.5	0.0489	0.0000	OK
180 minute summer	1.002:50%	108	0.059	8.2	0.0000	0.0000	OK
180 minute summer	6	104	0.109	24.0	0.1233	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	2	1.001	1.001:50%	1.8	0.662	0.059	0.0972	
180 minute summer	2	1.001	3	4.5	1.152	0.147	0.1379	
180 minute summer	1	1.000	1.000:50%	0.0	0.000	0.000	0.0113	
180 minute summer	1	1.000	2	1.8	0.984	0.054	0.0233	
180 minute summer	14	1.006	1.006:50%	47.4	1.747	0.670	0.4764	
180 minute summer	14	1.006	18	52.3	1.905	0.740	0.4822	
180 minute summer	20	1.009	1.009:50%	79.4	1.826	0.546	0.4283	
180 minute summer	20	1.009	21	86.3	2.053	0.594	0.4144	
180 minute summer	19	1.008	1.008:50%	75.9	2.168	0.427	0.3415	
180 minute summer	19	1.008	20	79.4	2.038	0.447	0.3802	
180 minute summer	22	7.000	7.000:50%	0.0	0.000	0.000	0.0460	
180 minute summer	22	7.000	23	7.8	1.157	0.341	0.0904	
180 minute summer	23	7.001	7.001:50%	7.8	0.423	0.353	0.2988	
180 minute summer	23	7.001	24	16.9	0.754	0.769	0.3639	
180 minute summer	28_OUT	Flow through pond	29	77.2	0.098	0.001	303.8102	
180 minute summer	21	1.010	21_OUT	86.3	1.065	0.753	1.0093	
180 minute summer	21_OUT	Flow through pond	29	77.2	0.098	0.001	303.8102	
180 minute summer	3	1.002	1.002:50%	4.5	0.846	0.182	0.0622	
180 minute summer	3	1.002	4	8.2	1.016	0.331	0.0959	
180 minute summer	6	1.004	1.004:50%	23.9	1.487	0.678	0.2554	

**Results for 30 year 180 minute summer. 420 minute analysis at 4 minute timestep. Mass balance: 99.95%**

Node Event	US Node	Peak (mins)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
180 minute summer	1.004:50%	104	0.113	25.2	0.0000	0.0000	OK
180 minute summer	4	104	0.108	8.2	0.1219	0.0000	OK
180 minute summer	1.003:50%	104	0.114	11.5	0.2196	0.0000	OK
180 minute summer	5	4	0.000	0.0	0.0000	0.0000	OK
180 minute summer	2.000:50%	104	0.063	12.5	0.1473	0.0000	OK
180 minute summer	30	148	0.238	28.4	0.8261	0.0000	OK
180 minute summer	29	148	0.523	77.2	0.5915	0.0000	SURCHARGED
180 minute summer	25	4	0.000	0.0	0.0000	0.0000	OK
180 minute summer	8.000:50%	104	0.024	1.5	0.0000	0.0000	OK
180 minute summer	24	104	0.134	16.9	0.1511	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	1.004	13	25.2	1.568	0.714	0.2550	453.3
180 minute summer	4	1.003	1.003:50%	8.2	0.512	0.482	0.0547	
180 minute summer	4	1.003	6	11.5	0.716	0.676	0.0551	
180 minute summer	5	2.000	2.000:50%	0.0	0.000	0.000	0.0910	
180 minute summer	5	2.000	6	12.5	1.791	0.359	0.1802	
180 minute summer	30	Hydro-Brake®	30_OUT	28.4				
180 minute summer	29	9.000	30	28.4	1.613	2.289	0.2580	
180 minute summer	25	8.000	8.000:50%	0.0	0.000	0.000	0.0120	
180 minute summer	25	8.000	26	1.5	0.812	0.056	0.0238	
180 minute summer	24	7.002	26	16.9	0.841	0.750	0.0960	

**Results for 30 year 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	26	104	0.128	16.4	0.1451	0.0000	OK
180 minute winter	7.003:50%	104	0.138	24.2	0.0000	0.0000	OK
180 minute winter	27	104	0.092	24.2	0.1040	0.0000	OK
180 minute winter	7.004:50%	136	0.148	34.5	0.3972	0.0000	OK
180 minute winter	28	148	0.551	34.4	0.6232	0.0000	SURCHARGED
180 minute winter	15	104	0.018	0.0	0.0209	0.0000	OK
180 minute winter	6.000:50%	104	0.075	6.3	0.0000	0.0000	OK
180 minute winter	16	104	0.050	6.3	0.0561	0.0000	OK
180 minute winter	6.001:50%	104	0.100	18.8	0.0000	0.0000	OK
180 minute winter	17	104	0.070	18.8	0.0797	0.0000	OK
180 minute winter	6.002:50%	104	0.074	19.8	0.1009	0.0000	OK
180 minute winter	18	104	0.170	66.4	0.1919	0.0000	OK
180 minute winter	1.007:50%	104	0.167	67.8	0.4345	0.0000	OK
180 minute winter	7	4	0.000	0.0	0.0000	0.0000	OK
180 minute winter	3.000:50%	104	0.045	5.2	0.0000	0.0000	OK
180 minute winter	8	104	0.046	5.2	0.0522	0.0000	OK
180 minute winter	9	4	0.000	0.0	0.0000	0.0000	OK
180 minute winter	4.000:50%	104	0.038	4.4	0.0539	0.0000	OK
180 minute winter	10	104	0.057	9.6	0.0646	0.0000	OK
180 minute winter	3.002:50%	104	0.080	16.9	0.0000	0.0000	OK
180 minute winter	13	104	0.140	42.3	0.1583	0.0000	OK
180 minute winter	12	104	0.046	2.5	0.0522	0.0000	OK
180 minute winter	5.001:50%	108	0.050	3.0	0.0364	0.0000	OK
180 minute winter	11	4	0.000	0.0	0.0000	0.0000	OK
180 minute winter	5.000:50%	104	0.028	2.5	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
180 minute winter	26	7.003	7.003:50%	16.4	0.619	0.477	0.4347	
180 minute winter	26	7.003	27	24.2	1.101	0.702	0.3611	
180 minute winter	27	7.004	7.004:50%	24.2	1.293	0.292	0.5199	
180 minute winter	27	7.004	28	34.4	1.098	0.415	0.9768	
180 minute winter	28	7.005	28_OUT	34.1	0.484	0.686	1.1066	
180 minute winter	15	6.000	6.000:50%	0.0	-0.013	-0.003	0.0583	
180 minute winter	15	6.000	16	6.3	0.905	0.507	0.0805	
180 minute winter	16	6.001	6.001:50%	6.3	0.716	0.236	0.1971	
180 minute winter	16	6.001	17	18.8	1.816	0.705	0.2314	
180 minute winter	17	6.002	6.002:50%	18.8	2.232	0.404	0.0417	
180 minute winter	17	6.002	18	19.8	2.394	0.426	0.0409	
180 minute winter	18	1.007	1.007:50%	66.4	1.633	0.501	0.2452	
180 minute winter	18	1.007	19	67.7	1.890	0.512	0.2161	
180 minute winter	7	3.000	3.000:50%	0.0	0.000	0.000	0.0260	
180 minute winter	7	3.000	8	5.2	1.149	0.192	0.0528	
180 minute winter	8	3.001	10	5.2	0.967	0.205	0.1716	
180 minute winter	9	4.000	4.000:50%	0.0	0.000	0.000	0.0188	
180 minute winter	9	4.000	10	4.4	0.914	0.142	0.0516	
180 minute winter	10	3.002	3.002:50%	9.6	1.219	0.308	0.2444	
180 minute winter	10	3.002	13	16.8	1.780	0.543	0.2942	
180 minute winter	13	1.005	14	42.3	2.074	0.570	0.0760	
180 minute winter	12	5.001	5.001:50%	2.5	0.514	0.201	0.0503	
180 minute winter	12	5.001	13	3.0	0.467	0.242	0.0835	
180 minute winter	11	5.000	5.000:50%	0.0	0.000	0.000	0.0313	
180 minute winter	11	5.000	12	2.5	0.733	0.078	0.0934	

**Results for 30 year 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	2	108	0.023	1.6	0.0264	0.0000	OK
180 minute winter	1.001:50%	108	0.037	4.0	0.0174	0.0000	OK
180 minute winter	1	4	0.000	0.0	0.0000	0.0000	OK
180 minute winter	1.000:50%	104	0.022	1.6	0.0026	0.0000	OK
180 minute winter	14	104	0.129	42.3	0.1462	0.0000	OK
180 minute winter	1.006:50%	104	0.139	46.7	0.3473	0.0000	OK
180 minute winter	20	104	0.161	70.9	0.1823	0.0000	OK
180 minute winter	1.009:50%	104	0.168	77.1	0.0152	0.0000	OK
180 minute winter	19	104	0.137	67.7	0.1966	0.0000	OK
180 minute winter	1.008:50%	104	0.140	70.9	0.0000	0.0000	OK
180 minute winter	22	4	0.000	0.0	0.0000	0.0000	OK
180 minute winter	7.000:50%	104	0.058	6.9	0.0000	0.0000	OK
180 minute winter	23	104	0.082	6.9	0.0932	0.0000	OK
180 minute winter	7.001:50%	104	0.125	15.1	0.0000	0.0000	OK
180 minute winter	28_OUT	152	0.581	34.1	0.6570	0.0000	OK
180 minute winter	30_OUT	4	0.000	30.0	0.0000	0.0000	OK
180 minute winter	21	104	0.239	77.0	0.3420	0.0000	OK
180 minute winter	21_OUT	136	0.518	82.4	0.7408	0.0000	OK
180 minute winter	3	108	0.041	4.0	0.0461	0.0000	OK
180 minute winter	1.002:50%	108	0.056	7.3	0.0000	0.0000	OK
180 minute winter	6	104	0.101	21.4	0.1142	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	2	1.001	1.001:50%	1.6	0.640	0.052	0.0894	
180 minute winter	2	1.001	3	4.0	1.114	0.131	0.1268	
180 minute winter	1	1.000	1.000:50%	0.0	0.000	0.000	0.0104	
180 minute winter	1	1.000	2	1.6	0.951	0.048	0.0215	
180 minute winter	14	1.006	1.006:50%	42.3	1.712	0.598	0.4339	
180 minute winter	14	1.006	18	46.6	1.862	0.659	0.4399	
180 minute winter	20	1.009	1.009:50%	70.9	1.788	0.488	0.3904	
180 minute winter	20	1.009	21	77.0	2.002	0.530	0.3792	
180 minute winter	19	1.008	1.008:50%	67.7	2.123	0.381	0.3112	
180 minute winter	19	1.008	20	70.9	1.999	0.399	0.3460	
180 minute winter	22	7.000	7.000:50%	0.0	0.000	0.000	0.0420	
180 minute winter	22	7.000	23	6.9	1.121	0.302	0.0826	
180 minute winter	23	7.001	7.001:50%	6.9	0.422	0.313	0.2660	
180 minute winter	23	7.001	24	15.1	0.732	0.684	0.3336	
180 minute winter	28_OUT	Flow through pond	29	70.9	0.107	0.001	343.4336	
180 minute winter	21	1.010	21_OUT	77.0	1.028	0.672	0.9344	
180 minute winter	21_OUT	Flow through pond	29	70.9	0.107	0.001	343.4336	
180 minute winter	3	1.002	1.002:50%	4.0	0.819	0.161	0.0572	
180 minute winter	3	1.002	4	7.3	1.016	0.295	0.0854	
180 minute winter	6	1.004	1.004:50%	21.4	1.456	0.605	0.2328	

**Results for 30 year 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	1.004:50%	104	0.105	22.5	0.0000	0.0000	OK
180 minute winter	4	104	0.099	7.3	0.1123	0.0000	OK
180 minute winter	1.003:50%	104	0.106	10.3	0.1886	0.0000	OK
180 minute winter	5	4	0.000	0.0	0.0000	0.0000	OK
180 minute winter	2.000:50%	104	0.059	11.1	0.1293	0.0000	OK
180 minute winter	30	156	0.266	30.0	0.9217	0.0000	OK
180 minute winter	29	156	0.576	70.9	0.6511	0.0000	SURCHARGED
180 minute winter	25	4	0.000	0.0	0.0000	0.0000	OK
180 minute winter	8.000:50%	104	0.024	1.4	0.0000	0.0000	OK
180 minute winter	24	104	0.125	15.1	0.1409	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	1.004	13	22.5	1.531	0.636	0.2325	
180 minute winter	4	1.003	1.003:50%	7.3	0.502	0.429	0.0498	
180 minute winter	4	1.003	6	10.3	0.697	0.604	0.0503	
180 minute winter	5	2.000	2.000:50%	0.0	0.000	0.000	0.0834	
180 minute winter	5	2.000	6	11.1	1.737	0.320	0.1653	
180 minute winter	30	Hydro-Brake®	30_OUT	30.0				496.7
180 minute winter	29	9.000	30	30.0	1.704	2.418	0.2580	
180 minute winter	25	8.000	8.000:50%	0.0	0.000	0.000	0.0113	
180 minute winter	25	8.000	26	1.4	0.794	0.052	0.0225	
180 minute winter	24	7.002	26	15.0	0.810	0.668	0.0888	

**Results for 30 year 240 minute summer. 480 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
240 minute summer	26	136	0.127	16.1	0.1433	0.0000	OK
240 minute summer	7.003:50%	136	0.137	23.7	0.0000	0.0000	OK
240 minute summer	27	136	0.091	23.7	0.1029	0.0000	OK
240 minute summer	7.004:50%	136	0.110	33.8	0.2207	0.0000	OK
240 minute summer	28	172	0.491	33.8	0.5557	0.0000	SURCHARGED
240 minute summer	15	136	0.017	0.0	0.0195	0.0000	OK
240 minute summer	6.000:50%	136	0.074	6.1	0.0000	0.0000	OK
240 minute summer	16	136	0.049	6.1	0.0552	0.0000	OK
240 minute summer	6.001:50%	136	0.099	18.4	0.0000	0.0000	OK
240 minute summer	17	136	0.070	18.4	0.0788	0.0000	OK
240 minute summer	6.002:50%	136	0.073	19.4	0.0986	0.0000	OK
240 minute summer	18	136	0.168	65.2	0.1896	0.0000	OK
240 minute summer	1.007:50%	136	0.165	66.5	0.4247	0.0000	OK
240 minute summer	7	4	0.000	0.0	0.0000	0.0000	OK
240 minute summer	3.000:50%	136	0.045	5.1	0.0000	0.0000	OK
240 minute summer	8	136	0.046	5.1	0.0517	0.0000	OK
240 minute summer	9	4	0.000	0.0	0.0000	0.0000	OK
240 minute summer	4.000:50%	136	0.038	4.3	0.0527	0.0000	OK
240 minute summer	10	136	0.057	9.4	0.0641	0.0000	OK
240 minute summer	3.002:50%	136	0.079	16.5	0.0000	0.0000	OK
240 minute summer	13	136	0.138	41.5	0.1561	0.0000	OK
240 minute summer	12	136	0.046	2.5	0.0522	0.0000	OK
240 minute summer	5.001:50%	136	0.050	3.0	0.0364	0.0000	OK
240 minute summer	11	4	0.000	0.0	0.0000	0.0000	OK
240 minute summer	5.000:50%	136	0.028	2.5	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
240 minute summer	26	7.003	7.003:50%	16.1	0.617	0.467	0.4282	
240 minute summer	26	7.003	27	23.7	1.094	0.688	0.3560	
240 minute summer	27	7.004	7.004:50%	23.7	1.287	0.286	0.4556	
240 minute summer	27	7.004	28	33.8	1.024	0.408	0.8612	
240 minute summer	28	7.005	28_OUT	33.5	0.475	0.674	1.1066	
240 minute summer	15	6.000	6.000:50%	0.0	-0.015	-0.003	0.0565	
240 minute summer	15	6.000	16	6.1	0.897	0.491	0.0788	
240 minute summer	16	6.001	6.001:50%	6.1	0.708	0.229	0.1937	
240 minute summer	16	6.001	17	18.4	1.809	0.691	0.2278	
240 minute summer	17	6.002	6.002:50%	18.4	2.222	0.397	0.0411	
240 minute summer	17	6.002	18	19.4	2.385	0.418	0.0404	
240 minute summer	18	1.007	1.007:50%	65.2	1.627	0.492	0.2417	
240 minute summer	18	1.007	19	66.5	1.883	0.502	0.2131	
240 minute summer	7	3.000	3.000:50%	0.0	0.000	0.000	0.0257	
240 minute summer	7	3.000	8	5.1	1.143	0.188	0.0521	
240 minute summer	8	3.001	10	5.1	0.962	0.202	0.1695	
240 minute summer	9	4.000	4.000:50%	0.0	0.000	0.000	0.0185	
240 minute summer	9	4.000	10	4.3	0.908	0.139	0.0510	
240 minute summer	10	3.002	3.002:50%	9.4	1.216	0.303	0.2409	
240 minute summer	10	3.002	13	16.5	1.772	0.532	0.2897	
240 minute summer	13	1.005	14	41.5	2.067	0.560	0.0749	
240 minute summer	12	5.001	5.001:50%	2.5	0.514	0.201	0.0503	
240 minute summer	12	5.001	13	3.0	0.469	0.242	0.0820	
240 minute summer	11	5.000	5.000:50%	0.0	0.000	0.000	0.0313	
240 minute summer	11	5.000	12	2.5	0.733	0.078	0.0934	

**Results for 30 year 240 minute summer. 480 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
240 minute summer	2	136	0.023	1.6	0.0264	0.0000	OK
240 minute summer	1.001:50%	136	0.037	4.0	0.0174	0.0000	OK
240 minute summer	1	4	0.000	0.0	0.0000	0.0000	OK
240 minute summer	1.000:50%	136	0.022	1.6	0.0026	0.0000	OK
240 minute summer	14	136	0.128	41.5	0.1445	0.0000	OK
240 minute summer	1.006:50%	136	0.137	45.8	0.3390	0.0000	OK
240 minute summer	20	136	0.159	69.6	0.1802	0.0000	OK
240 minute summer	1.009:50%	136	0.166	75.7	0.0148	0.0000	OK
240 minute summer	19	136	0.136	66.5	0.1945	0.0000	OK
240 minute summer	1.008:50%	136	0.139	69.6	0.0000	0.0000	OK
240 minute summer	22	4	0.000	0.0	0.0000	0.0000	OK
240 minute summer	7.000:50%	136	0.057	6.8	0.0000	0.0000	OK
240 minute summer	23	136	0.081	6.8	0.0917	0.0000	OK
240 minute summer	7.001:50%	136	0.124	14.8	0.0000	0.0000	OK
240 minute summer	28_OUT	176	0.522	33.5	0.5899	0.0000	OK
240 minute summer	30_OUT	4	0.000	28.2	0.0000	0.0000	OK
240 minute summer	21	136	0.237	75.7	0.3388	0.0000	OK
240 minute summer	21_OUT	160	0.457	80.8	0.6535	0.0000	OK
240 minute summer	3	136	0.041	4.0	0.0461	0.0000	OK
240 minute summer	1.002:50%	136	0.055	7.2	0.0000	0.0000	OK
240 minute summer	6	136	0.099	20.9	0.1125	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	2	1.001	1.001:50%	1.6	0.640	0.052	0.0894	
240 minute summer	2	1.001	3	4.0	1.114	0.131	0.1268	
240 minute summer	1	1.000	1.000:50%	0.0	0.000	0.000	0.0104	
240 minute summer	1	1.000	2	1.6	0.951	0.048	0.0215	
240 minute summer	14	1.006	1.006:50%	41.5	1.706	0.587	0.4276	
240 minute summer	14	1.006	18	45.8	1.856	0.648	0.4338	
240 minute summer	20	1.009	1.009:50%	69.6	1.782	0.479	0.3848	
240 minute summer	20	1.009	21	75.7	1.994	0.521	0.3740	
240 minute summer	19	1.008	1.008:50%	66.5	2.116	0.375	0.3067	
240 minute summer	19	1.008	20	69.6	1.993	0.392	0.3408	
240 minute summer	22	7.000	7.000:50%	0.0	0.000	0.000	0.0415	
240 minute summer	22	7.000	23	6.8	1.117	0.298	0.0818	
240 minute summer	23	7.001	7.001:50%	6.8	0.421	0.309	0.2616	
240 minute summer	23	7.001	24	14.8	0.729	0.673	0.3293	
240 minute summer	28_OUT	Flow through pond	29	69.3	0.091	0.001	299.3906	
240 minute summer	21	1.010	21_OUT	75.7	1.022	0.661	0.9234	
240 minute summer	21_OUT	Flow through pond	29	69.3	0.091	0.001	299.3906	
240 minute summer	3	1.002	1.002:50%	4.0	0.823	0.161	0.0569	
240 minute summer	3	1.002	4	7.2	1.013	0.291	0.0839	
240 minute summer	6	1.004	1.004:50%	20.9	1.448	0.592	0.2289	

**Results for 30 year 240 minute summer. 480 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	
240 minute summer	1.004:50%	136	0.103	22.0	0.0000	0.0000	OK	
240 minute summer	4	136	0.098	7.2	0.1108	0.0000	OK	
240 minute summer	1.003:50%	136	0.104	10.1	0.1836	0.0000	OK	
240 minute summer	5	4	0.000	0.0	0.0000	0.0000	OK	
240 minute summer	2.000:50%	136	0.058	10.8	0.1256	0.0000	OK	
240 minute summer	30	180	0.237	28.2	0.8210	0.0000	OK	
240 minute summer	29	180	0.517	69.3	0.5849	0.0000	SURCHARGED	
240 minute summer	25	4	0.000	0.0	0.0000	0.0000	OK	
240 minute summer	8.000:50%	136	0.023	1.3	0.0000	0.0000	OK	
240 minute summer	24	136	0.123	14.8	0.1395	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	1.004	13	22.0	1.525	0.623	0.2289	497.0
240 minute summer	4	1.003	1.003:50%	7.2	0.500	0.423	0.0490	
240 minute summer	4	1.003	6	10.1	0.696	0.593	0.0495	
240 minute summer	5	2.000	2.000:50%	0.0	0.000	0.000	0.0818	
240 minute summer	5	2.000	6	10.8	1.725	0.311	0.1621	
240 minute summer	30	Hydro-Brake®	30_OUT	28.2				
240 minute summer	29	9.000	30	28.2	1.602	2.274	0.2580	
240 minute summer	25	8.000	8.000:50%	0.0	0.000	0.000	0.0108	
240 minute summer	25	8.000	26	1.3	0.779	0.049	0.0215	
240 minute summer	24	7.002	26	14.8	0.806	0.657	0.0878	

**Results for 30 year 240 minute winter. 480 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
240 minute winter	26	136	0.114	13.6	0.1293	0.0000	OK
240 minute winter	7.003:50%	136	0.125	20.1	0.0000	0.0000	OK
240 minute winter	27	136	0.083	20.1	0.0942	0.0000	OK
240 minute winter	7.004:50%	184	0.134	28.6	0.3249	0.0000	OK
240 minute winter	28	184	0.540	28.6	0.6104	0.0000	SURCHARGED
240 minute winter	15	136	0.011	0.0	0.0125	0.0000	OK
240 minute winter	6.000:50%	136	0.068	5.2	0.0000	0.0000	OK
240 minute winter	16	136	0.045	5.2	0.0508	0.0000	OK
240 minute winter	6.001:50%	136	0.088	15.6	0.0000	0.0000	OK
240 minute winter	17	136	0.063	15.6	0.0714	0.0000	OK
240 minute winter	6.002:50%	136	0.066	16.4	0.0804	0.0000	OK
240 minute winter	18	136	0.151	55.2	0.1704	0.0000	OK
240 minute winter	1.007:50%	136	0.149	56.3	0.3471	0.0000	OK
240 minute winter	7	4	0.000	0.0	0.0000	0.0000	OK
240 minute winter	3.000:50%	136	0.041	4.3	0.0000	0.0000	OK
240 minute winter	8	136	0.042	4.3	0.0474	0.0000	OK
240 minute winter	9	4	0.000	0.0	0.0000	0.0000	OK
240 minute winter	4.000:50%	132	0.035	3.6	0.0441	0.0000	OK
240 minute winter	10	136	0.052	7.9	0.0584	0.0000	OK
240 minute winter	3.002:50%	136	0.071	13.9	0.0000	0.0000	OK
240 minute winter	13	136	0.122	35.1	0.1383	0.0000	OK
240 minute winter	12	136	0.042	2.1	0.0476	0.0000	OK
240 minute winter	5.001:50%	136	0.045	2.5	0.0301	0.0000	OK
240 minute winter	11	4	0.000	0.0	0.0000	0.0000	OK
240 minute winter	5.000:50%	136	0.026	2.1	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
240 minute winter	26	7.003	7.003:50%	13.6	0.588	0.395	0.3794	
240 minute winter	26	7.003	27	20.1	1.042	0.583	0.3176	
240 minute winter	27	7.004	7.004:50%	20.1	1.233	0.243	0.4371	
240 minute winter	27	7.004	28	28.6	1.052	0.345	0.9336	
240 minute winter	28	7.005	28_OUT	28.3	0.402	0.571	1.1066	
240 minute winter	15	6.000	6.000:50%	0.0	-0.008	-0.001	0.0482	
240 minute winter	15	6.000	16	5.2	0.857	0.419	0.0704	
240 minute winter	16	6.001	6.001:50%	5.2	0.688	0.195	0.1710	
240 minute winter	16	6.001	17	15.6	1.749	0.586	0.2003	
240 minute winter	17	6.002	6.002:50%	15.6	2.147	0.336	0.0361	
240 minute winter	17	6.002	18	16.4	2.292	0.353	0.0355	
240 minute winter	18	1.007	1.007:50%	55.2	1.570	0.417	0.2122	
240 minute winter	18	1.007	19	56.3	1.814	0.425	0.1874	
240 minute winter	7	3.000	3.000:50%	0.0	0.000	0.000	0.0227	
240 minute winter	7	3.000	8	4.3	1.090	0.159	0.0461	
240 minute winter	8	3.001	10	4.3	0.919	0.170	0.1497	
240 minute winter	9	4.000	4.000:50%	0.0	0.000	0.000	0.0163	
240 minute winter	9	4.000	10	3.6	0.867	0.116	0.0449	
240 minute winter	10	3.002	3.002:50%	7.9	1.163	0.255	0.2119	
240 minute winter	10	3.002	13	13.9	1.699	0.448	0.2546	
240 minute winter	13	1.005	14	35.1	2.001	0.474	0.0655	
240 minute winter	12	5.001	5.001:50%	2.1	0.492	0.169	0.0441	
240 minute winter	12	5.001	13	2.5	0.463	0.201	0.0667	
240 minute winter	11	5.000	5.000:50%	0.0	0.000	0.000	0.0277	
240 minute winter	11	5.000	12	2.1	0.700	0.066	0.0823	

**Results for 30 year 240 minute winter. 480 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
240 minute winter	2	132	0.021	1.3	0.0239	0.0000	OK
240 minute winter	1.001:50%	136	0.033	3.3	0.0143	0.0000	OK
240 minute winter	1	4	0.000	0.0	0.0000	0.0000	OK
240 minute winter	1.000:50%	128	0.020	1.3	0.0021	0.0000	OK
240 minute winter	14	136	0.115	35.1	0.1299	0.0000	OK
240 minute winter	1.006:50%	136	0.123	38.8	0.2730	0.0000	OK
240 minute winter	20	136	0.143	59.0	0.1621	0.0000	OK
240 minute winter	1.009:50%	136	0.150	64.2	0.0121	0.0000	OK
240 minute winter	19	136	0.123	56.3	0.1761	0.0000	OK
240 minute winter	1.008:50%	136	0.125	59.0	0.0000	0.0000	OK
240 minute winter	22	4	0.000	0.0	0.0000	0.0000	OK
240 minute winter	7.000:50%	136	0.052	5.7	0.0000	0.0000	OK
240 minute winter	23	136	0.069	5.7	0.0783	0.0000	OK
240 minute winter	7.001:50%	136	0.111	12.5	0.0000	0.0000	OK
240 minute winter	28_OUT	188	0.570	28.3	0.6446	0.0000	OK
240 minute winter	30_OUT	4	0.000	29.7	0.0000	0.0000	OK
240 minute winter	21	136	0.217	64.2	0.3105	0.0000	OK
240 minute winter	21_OUT	180	0.504	68.6	0.7216	0.0000	OK
240 minute winter	3	136	0.037	3.3	0.0418	0.0000	OK
240 minute winter	1.002:50%	136	0.051	6.1	0.0000	0.0000	OK
240 minute winter	6	136	0.090	17.8	0.1017	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	2	1.001	1.001:50%	1.3	0.606	0.042	0.0778	
240 minute winter	2	1.001	3	3.3	1.054	0.108	0.1106	
240 minute winter	1	1.000	1.000:50%	0.0	0.000	0.000	0.0090	
240 minute winter	1	1.000	2	1.3	0.893	0.039	0.0186	
240 minute winter	14	1.006	1.006:50%	35.1	1.646	0.497	0.3747	
240 minute winter	14	1.006	18	38.8	1.789	0.549	0.3812	
240 minute winter	20	1.009	1.009:50%	59.0	1.724	0.406	0.3373	
240 minute winter	20	1.009	21	64.2	1.919	0.442	0.3296	
240 minute winter	19	1.008	1.008:50%	56.3	2.044	0.317	0.2687	
240 minute winter	19	1.008	20	59.0	1.932	0.332	0.2981	
240 minute winter	22	7.000	7.000:50%	0.0	0.000	0.000	0.0365	
240 minute winter	22	7.000	23	5.7	1.065	0.250	0.0719	
240 minute winter	23	7.001	7.001:50%	5.7	0.418	0.259	0.2224	
240 minute winter	23	7.001	24	12.5	0.698	0.568	0.2902	
240 minute winter	28_OUT	Flow through pond	29	61.0	0.101	0.001	335.3327	
240 minute winter	21	1.010	21_OUT	64.2	0.971	0.560	0.8253	
240 minute winter	21_OUT	Flow through pond	29	61.0	0.101	0.001	335.3327	
240 minute winter	3	1.002	1.002:50%	3.3	0.777	0.133	0.0501	
240 minute winter	3	1.002	4	6.1	1.014	0.246	0.0711	
240 minute winter	6	1.004	1.004:50%	17.8	1.400	0.504	0.2017	

**Results for 30 year 240 minute winter. 480 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
240 minute winter	1.004:50%	136	0.093	18.7	0.0000	0.0000	OK
240 minute winter	4	136	0.088	6.1	0.0992	0.0000	OK
240 minute winter	1.003:50%	136	0.094	8.6	0.1496	0.0000	OK
240 minute winter	5	4	0.000	0.0	0.0000	0.0000	OK
240 minute winter	2.000:50%	136	0.053	9.2	0.1055	0.0000	OK
240 minute winter	30	196	0.256	29.7	0.8855	0.0000	OK
240 minute winter	29	192	0.565	61.0	0.6389	0.0000	SURCHARGED
240 minute winter	25	4	0.000	0.0	0.0000	0.0000	OK
240 minute winter	8.000:50%	132	0.021	1.1	0.0000	0.0000	OK
240 minute winter	24	136	0.112	12.5	0.1263	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	1.004	13	18.7	1.469	0.530	0.2019	
240 minute winter	4	1.003	1.003:50%	6.1	0.484	0.358	0.0429	
240 minute winter	4	1.003	6	8.6	0.672	0.505	0.0436	
240 minute winter	5	2.000	2.000:50%	0.0	0.000	0.000	0.0727	
240 minute winter	5	2.000	6	9.2	1.652	0.265	0.1442	
240 minute winter	30	Hydro-Brake®	30_OUT	29.7				546.8
240 minute winter	29	9.000	30	29.7	1.685	2.392	0.2580	
240 minute winter	25	8.000	8.000:50%	0.0	0.000	0.000	0.0096	
240 minute winter	25	8.000	26	1.1	0.741	0.041	0.0191	
240 minute winter	24	7.002	26	12.5	0.765	0.555	0.0781	

**Results for 30 year 360 minute summer. 600 minute analysis at 8 minute timestep. Mass balance: 99.98%**

Node Event	US Node	Peak (mins)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
360 minute summer	26	200	0.108	12.3	0.1217	0.0000	OK
360 minute summer	7.003:50%	200	0.119	18.2	0.0000	0.0000	OK
360 minute summer	27	200	0.079	18.2	0.0895	0.0000	OK
360 minute summer	7.004:50%	200	0.095	26.0	0.1654	0.0000	OK
360 minute summer	28	248	0.467	26.0	0.5284	0.0000	SURCHARGED
360 minute summer	15	200	0.008	0.0	0.0086	0.0000	OK
360 minute summer	6.000:50%	200	0.065	4.7	0.0000	0.0000	OK
360 minute summer	16	200	0.043	4.7	0.0482	0.0000	OK
360 minute summer	6.001:50%	200	0.083	14.2	0.0000	0.0000	OK
360 minute summer	17	200	0.060	14.2	0.0677	0.0000	OK
360 minute summer	6.002:50%	200	0.063	14.9	0.0718	0.0000	OK
360 minute summer	18	200	0.142	50.1	0.1605	0.0000	OK
360 minute summer	1.007:50%	200	0.141	51.1	0.3096	0.0000	OK
360 minute summer	7	8	0.000	0.0	0.0000	0.0000	OK
360 minute summer	3.000:50%	200	0.039	3.9	0.0000	0.0000	OK
360 minute summer	8	200	0.040	3.9	0.0451	0.0000	OK
360 minute summer	9	8	0.000	0.0	0.0000	0.0000	OK
360 minute summer	4.000:50%	200	0.033	3.3	0.0404	0.0000	OK
360 minute summer	10	200	0.049	7.2	0.0556	0.0000	OK
360 minute summer	3.002:50%	200	0.068	12.7	0.0000	0.0000	OK
360 minute summer	13	200	0.115	31.9	0.1295	0.0000	OK
360 minute summer	12	200	0.040	1.9	0.0451	0.0000	OK
360 minute summer	5.001:50%	200	0.044	2.3	0.0276	0.0000	OK
360 minute summer	11	8	0.000	0.0	0.0000	0.0000	OK
360 minute summer	5.000:50%	200	0.025	1.9	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
360 minute summer	26	7.003	7.003:50%	12.3	0.572	0.357	0.3529	
360 minute summer	26	7.003	27	18.2	1.011	0.528	0.2966	
360 minute summer	27	7.004	7.004:50%	18.2	1.198	0.220	0.3760	
360 minute summer	27	7.004	28	26.0	0.960	0.314	0.8163	
360 minute summer	28	7.005	28_OUT	25.8	0.366	0.519	1.1066	
360 minute summer	15	6.000	6.000:50%	0.0	-0.006	-0.001	0.0437	
360 minute summer	15	6.000	16	4.7	0.832	0.378	0.0655	
360 minute summer	16	6.001	6.001:50%	4.7	0.670	0.176	0.1590	
360 minute summer	16	6.001	17	14.2	1.713	0.533	0.1863	
360 minute summer	17	6.002	6.002:50%	14.2	2.104	0.306	0.0335	
360 minute summer	17	6.002	18	14.9	2.239	0.321	0.0330	
360 minute summer	18	1.007	1.007:50%	50.1	1.536	0.378	0.1967	
360 minute summer	18	1.007	19	51.1	1.774	0.386	0.1739	
360 minute summer	7	3.000	3.000:50%	0.0	0.000	0.000	0.0211	
360 minute summer	7	3.000	8	3.9	1.061	0.144	0.0430	
360 minute summer	8	3.001	10	3.9	0.892	0.154	0.1399	
360 minute summer	9	4.000	4.000:50%	0.0	0.000	0.000	0.0153	
360 minute summer	9	4.000	10	3.3	0.844	0.106	0.0421	
360 minute summer	10	3.002	3.002:50%	7.2	1.134	0.232	0.1981	
360 minute summer	10	3.002	13	12.7	1.661	0.409	0.2380	
360 minute summer	13	1.005	14	31.9	1.963	0.430	0.0607	
360 minute summer	12	5.001	5.001:50%	1.9	0.476	0.153	0.0413	
360 minute summer	12	5.001	13	2.3	0.474	0.185	0.0593	
360 minute summer	11	5.000	5.000:50%	0.0	0.000	0.000	0.0258	
360 minute summer	11	5.000	12	1.9	0.682	0.060	0.0764	

**Results for 30 year 360 minute summer. 600 minute analysis at 8 minute timestep. Mass balance: 99.98%**

Node Event	US Node	Peak (mins)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
360 minute summer	2	200	0.020	1.2	0.0230	0.0000	OK
360 minute summer	1.001:50%	200	0.032	3.0	0.0130	0.0000	OK
360 minute summer	1	8	0.000	0.0	0.0000	0.0000	OK
360 minute summer	1.000:50%	200	0.019	1.2	0.0020	0.0000	OK
360 minute summer	14	200	0.108	31.9	0.1225	0.0000	OK
360 minute summer	1.006:50%	200	0.116	35.2	0.2419	0.0000	OK
360 minute summer	20	200	0.135	53.5	0.1526	0.0000	OK
360 minute summer	1.009:50%	200	0.141	58.2	0.0107	0.0000	OK
360 minute summer	19	200	0.116	51.1	0.1665	0.0000	OK
360 minute summer	1.008:50%	200	0.118	53.5	0.0000	0.0000	OK
360 minute summer	22	8	0.000	0.0	0.0000	0.0000	OK
360 minute summer	7.000:50%	200	0.050	5.2	0.0000	0.0000	OK
360 minute summer	23	200	0.066	5.2	0.0742	0.0000	OK
360 minute summer	7.001:50%	200	0.104	11.3	0.0000	0.0000	OK
360 minute summer	28_OUT	248	0.498	25.8	0.5632	0.0000	OK
360 minute summer	30_OUT	8	0.000	27.5	0.0000	0.0000	OK
360 minute summer	21	200	0.206	58.2	0.2947	0.0000	OK
360 minute summer	21_OUT	240	0.431	61.9	0.6166	0.0000	OK
360 minute summer	3	200	0.035	3.0	0.0399	0.0000	OK
360 minute summer	1.002:50%	200	0.048	5.5	0.0000	0.0000	OK
360 minute summer	6	200	0.085	16.1	0.0957	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	2	1.001	1.001:50%	1.2	0.589	0.039	0.0730	
360 minute summer	2	1.001	3	3.0	1.026	0.098	0.1034	
360 minute summer	1	1.000	1.000:50%	0.0	0.000	0.000	0.0085	
360 minute summer	1	1.000	2	1.2	0.872	0.036	0.0176	
360 minute summer	14	1.006	1.006:50%	31.9	1.613	0.451	0.3476	
360 minute summer	14	1.006	18	35.2	1.749	0.498	0.3538	
360 minute summer	20	1.009	1.009:50%	53.5	1.689	0.368	0.3122	
360 minute summer	20	1.009	21	58.2	1.875	0.400	0.3059	
360 minute summer	19	1.008	1.008:50%	51.1	2.003	0.288	0.2489	
360 minute summer	19	1.008	20	53.5	1.894	0.301	0.2757	
360 minute summer	22	7.000	7.000:50%	0.0	0.000	0.000	0.0341	
360 minute summer	22	7.000	23	5.2	1.038	0.228	0.0673	
360 minute summer	23	7.001	7.001:50%	5.2	0.411	0.236	0.2060	
360 minute summer	23	7.001	24	11.3	0.681	0.514	0.2691	
360 minute summer	28_OUT	Flow through pond	29	55.8	0.077	0.001	281.9586	
360 minute summer	21	1.010	21_OUT	58.2	0.942	0.508	0.7708	
360 minute summer	21_OUT	Flow through pond	29	55.8	0.077	0.001	281.9586	
360 minute summer	3	1.002	1.002:50%	3.0	0.754	0.121	0.0466	
360 minute summer	3	1.002	4	5.5	1.012	0.222	0.0639	
360 minute summer	6	1.004	1.004:50%	16.1	1.368	0.456	0.1866	

**Results for 30 year 360 minute summer. 600 minute analysis at 8 minute timestep. Mass balance: 99.98%**

Node Event	US Node	Peak (mins)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
360 minute summer	1.004:50%	200	0.088	16.9	0.0000	0.0000	OK
360 minute summer	4	200	0.082	5.5	0.0925	0.0000	OK
360 minute summer	1.003:50%	200	0.088	7.7	0.1314	0.0000	OK
360 minute summer	5	8	0.000	0.0	0.0000	0.0000	OK
360 minute summer	2.000:50%	200	0.051	8.4	0.0958	0.0000	OK
360 minute summer	30	248	0.231	27.5	0.8007	0.0000	OK
360 minute summer	29	248	0.494	55.8	0.5583	0.0000	SURCHARGED
360 minute summer	25	8	0.000	0.0	0.0000	0.0000	OK
360 minute summer	8.000:50%	200	0.020	1.0	0.0000	0.0000	OK
360 minute summer	24	200	0.105	11.3	0.1191	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	1.004	13	16.9	1.434	0.479	0.1869	557.7
360 minute summer	4	1.003	1.003:50%	5.5	0.475	0.323	0.0394	
360 minute summer	4	1.003	6	7.7	0.651	0.452	0.0403	
360 minute summer	5	2.000	2.000:50%	0.0	0.000	0.000	0.0680	
360 minute summer	5	2.000	6	8.4	1.611	0.242	0.1350	
360 minute summer	30	Hydro-Brake®	30_OUT	27.5				
360 minute summer	29	9.000	30	27.5	1.560	2.215	0.2577	
360 minute summer	25	8.000	8.000:50%	0.0	0.000	0.000	0.0090	
360 minute summer	25	8.000	26	1.0	0.721	0.038	0.0179	
360 minute summer	24	7.002	26	11.3	0.743	0.502	0.0728	

**Results for 30 year 360 minute winter. 600 minute analysis at 8 minute timestep. Mass balance: 99.97%**

Node Event	US Node	Peak (mins)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
360 minute winter	26	200	0.096	10.1	0.1082	0.0000	OK
360 minute winter	7.003:50%	200	0.107	14.9	0.0000	0.0000	OK
360 minute winter	27	200	0.071	14.9	0.0807	0.0000	OK
360 minute winter	7.004:50%	264	0.098	21.3	0.1754	0.0000	OK
360 minute winter	28	264	0.506	21.3	0.5725	0.0000	SURCHARGED
360 minute winter	15	200	0.002	0.0	0.0017	0.0000	OK
360 minute winter	6.000:50%	200	0.059	3.9	0.0000	0.0000	OK
360 minute winter	16	200	0.039	3.9	0.0439	0.0000	OK
360 minute winter	6.001:50%	200	0.074	11.6	0.0000	0.0000	OK
360 minute winter	17	200	0.053	11.6	0.0603	0.0000	OK
360 minute winter	6.002:50%	200	0.056	12.2	0.0570	0.0000	OK
360 minute winter	18	200	0.125	40.9	0.1419	0.0000	OK
360 minute winter	1.007:50%	200	0.125	41.7	0.2449	0.0000	OK
360 minute winter	7	8	0.000	0.0	0.0000	0.0000	OK
360 minute winter	3.000:50%	200	0.035	3.2	0.0000	0.0000	OK
360 minute winter	8	200	0.036	3.2	0.0408	0.0000	OK
360 minute winter	9	8	0.000	0.0	0.0000	0.0000	OK
360 minute winter	4.000:50%	200	0.030	2.7	0.0332	0.0000	OK
360 minute winter	10	200	0.044	5.9	0.0502	0.0000	OK
360 minute winter	3.002:50%	200	0.061	10.4	0.0000	0.0000	OK
360 minute winter	13	200	0.100	26.0	0.1131	0.0000	OK
360 minute winter	12	192	0.035	1.5	0.0399	0.0000	OK
360 minute winter	5.001:50%	192	0.038	1.8	0.0215	0.0000	OK
360 minute winter	11	8	0.000	0.0	0.0000	0.0000	OK
360 minute winter	5.000:50%	192	0.022	1.5	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
360 minute winter	26	7.003	7.003:50%	10.1	0.543	0.293	0.3055	
360 minute winter	26	7.003	27	14.9	0.951	0.433	0.2585	
360 minute winter	27	7.004	7.004:50%	14.9	1.133	0.180	0.3256	
360 minute winter	27	7.004	28	21.3	0.990	0.257	0.8249	
360 minute winter	28	7.005	28_OUT	21.1	0.300	0.425	1.1066	
360 minute winter	15	6.000	6.000:50%	0.0	-0.002	0.000	0.0369	
360 minute winter	15	6.000	16	3.9	0.788	0.314	0.0575	
360 minute winter	16	6.001	6.001:50%	3.9	0.646	0.146	0.1374	
360 minute winter	16	6.001	17	11.6	1.633	0.436	0.1599	
360 minute winter	17	6.002	6.002:50%	11.6	2.006	0.250	0.0287	
360 minute winter	17	6.002	18	12.2	2.130	0.263	0.0284	
360 minute winter	18	1.007	1.007:50%	40.9	1.468	0.309	0.1681	
360 minute winter	18	1.007	19	41.7	1.691	0.315	0.1490	
360 minute winter	7	3.000	3.000:50%	0.0	0.000	0.000	0.0183	
360 minute winter	7	3.000	8	3.2	1.003	0.118	0.0373	
360 minute winter	8	3.001	10	3.2	0.844	0.127	0.1214	
360 minute winter	9	4.000	4.000:50%	0.0	0.000	0.000	0.0133	
360 minute winter	9	4.000	10	2.7	0.797	0.087	0.0365	
360 minute winter	10	3.002	3.002:50%	5.9	1.077	0.190	0.1711	
360 minute winter	10	3.002	13	10.4	1.576	0.335	0.2053	
360 minute winter	13	1.005	14	26.0	1.881	0.351	0.0517	
360 minute winter	12	5.001	5.001:50%	1.5	0.447	0.121	0.0347	
360 minute winter	12	5.001	13	1.8	0.470	0.145	0.0449	
360 minute winter	11	5.000	5.000:50%	0.0	0.000	0.000	0.0219	
360 minute winter	11	5.000	12	1.5	0.638	0.047	0.0644	

**Results for 30 year 360 minute winter. 600 minute analysis at 8 minute timestep. Mass balance: 99.97%**

Node Event	US Node	Peak (mins)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
360 minute winter	2	192	0.019	1.0	0.0211	0.0000	OK
360 minute winter	1.001:50%	200	0.029	2.5	0.0109	0.0000	OK
360 minute winter	1	8	0.000	0.0	0.0000	0.0000	OK
360 minute winter	1.000:50%	192	0.018	1.0	0.0017	0.0000	OK
360 minute winter	14	200	0.096	26.0	0.1086	0.0000	OK
360 minute winter	1.006:50%	200	0.103	28.7	0.1895	0.0000	OK
360 minute winter	20	200	0.120	43.7	0.1352	0.0000	OK
360 minute winter	1.009:50%	200	0.125	47.5	0.0084	0.0000	OK
360 minute winter	19	200	0.104	41.7	0.1483	0.0000	OK
360 minute winter	1.008:50%	200	0.105	43.7	0.0000	0.0000	OK
360 minute winter	22	8	0.000	0.0	0.0000	0.0000	OK
360 minute winter	7.000:50%	200	0.045	4.3	0.0000	0.0000	OK
360 minute winter	23	200	0.059	4.3	0.0672	0.0000	OK
360 minute winter	7.001:50%	200	0.093	9.3	0.0000	0.0000	OK
360 minute winter	28_OUT	264	0.537	21.1	0.6071	0.0000	OK
360 minute winter	30_OUT	8	0.000	28.7	0.0000	0.0000	OK
360 minute winter	21	200	0.185	47.5	0.2653	0.0000	OK
360 minute winter	21_OUT	264	0.469	50.7	0.6717	0.0000	OK
360 minute winter	3	200	0.032	2.5	0.0364	0.0000	OK
360 minute winter	1.002:50%	200	0.044	4.5	0.0000	0.0000	OK
360 minute winter	6	200	0.075	13.1	0.0849	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	2	1.001	1.001:50%	1.0	0.567	0.033	0.0642	
360 minute winter	2	1.001	3	2.5	0.972	0.082	0.0909	
360 minute winter	1	1.000	1.000:50%	0.0	0.000	0.000	0.0075	
360 minute winter	1	1.000	2	1.0	0.824	0.030	0.0155	
360 minute winter	14	1.006	1.006:50%	26.0	1.538	0.368	0.2971	
360 minute winter	14	1.006	18	28.7	1.664	0.406	0.3032	
360 minute winter	20	1.009	1.009:50%	43.7	1.617	0.301	0.2663	
360 minute winter	20	1.009	21	47.5	1.784	0.327	0.2625	
360 minute winter	19	1.008	1.008:50%	41.7	1.913	0.235	0.2127	
360 minute winter	19	1.008	20	43.7	1.815	0.246	0.2351	
360 minute winter	22	7.000	7.000:50%	0.0	0.000	0.000	0.0296	
360 minute winter	22	7.000	23	4.3	0.986	0.188	0.0586	
360 minute winter	23	7.001	7.001:50%	4.3	0.394	0.195	0.1781	
360 minute winter	23	7.001	24	9.3	0.648	0.423	0.2327	
360 minute winter	28_OUT	Flow through pond	29	48.0	0.079	0.001	310.4491	
360 minute winter	21	1.010	21_OUT	47.5	0.886	0.415	0.6695	
360 minute winter	21_OUT	Flow through pond	29	48.0	0.079	0.001	310.4491	
360 minute winter	3	1.002	1.002:50%	2.5	0.718	0.101	0.0408	
360 minute winter	3	1.002	4	4.5	1.010	0.182	0.0520	
360 minute winter	6	1.004	1.004:50%	13.1	1.301	0.371	0.1597	

**Results for 30 year 360 minute winter. 600 minute analysis at 8 minute timestep. Mass balance: 99.97%**

Node Event	US Node	Peak (mins)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
360 minute winter	1.004:50%	200	0.078	13.8	0.0000	0.0000	OK
360 minute winter	4	200	0.072	4.5	0.0813	0.0000	OK
360 minute winter	1.003:50%	200	0.078	6.3	0.1032	0.0000	OK
360 minute winter	5	8	0.000	0.0	0.0000	0.0000	OK
360 minute winter	2.000:50%	200	0.045	6.8	0.0767	0.0000	OK
360 minute winter	30	272	0.241	28.7	0.8346	0.0000	OK
360 minute winter	29	272	0.532	48.0	0.6015	0.0000	SURCHARGED
360 minute winter	25	8	0.000	0.0	0.0000	0.0000	OK
360 minute winter	8.000:50%	184	0.018	0.8	0.0000	0.0000	OK
360 minute winter	24	200	0.094	9.3	0.1067	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	1.004	13	13.8	1.364	0.391	0.1605	
360 minute winter	4	1.003	1.003:50%	4.5	0.458	0.264	0.0335	
360 minute winter	4	1.003	6	6.3	0.624	0.370	0.0345	
360 minute winter	5	2.000	2.000:50%	0.0	0.000	0.000	0.0583	
360 minute winter	5	2.000	6	6.8	1.519	0.196	0.1159	
360 minute winter	30	Hydro-Brake®	30_OUT	28.7				622.0
360 minute winter	29	9.000	30	28.7	1.628	2.311	0.2580	
360 minute winter	25	8.000	8.000:50%	0.0	0.000	0.000	0.0077	
360 minute winter	25	8.000	26	0.8	0.673	0.030	0.0153	
360 minute winter	24	7.002	26	9.3	0.702	0.413	0.0634	

**Results for 100 year +40% CC 15 minute summer. 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 summer	26	29	0.485	35.9	0.5482	0.0000	SURCHARGED
15 minute summer	7.003:50%	29	0.478	53.3	0.0000	0.0000	SURCHARGED
15 minute summer	27	29	0.417	53.0	0.4719	0.0000	SURCHARGED
15 minute summer	7.004:50%	31	0.635	75.1	7.3012	0.0000	SURCHARGED
15 minute summer	28	32	0.784	68.1	0.8868	0.0000	SURCHARGED
15 minute summer	15	27	0.671	3.5	0.7586	0.0000	SURCHARGED
15 minute summer	6.000:50%	27	0.727	14.2	0.0000	0.0000	SURCHARGED
15 minute summer	16	27	0.705	13.9	0.7973	0.0000	SURCHARGED
15 minute summer	6.001:50%	26	1.060	41.8	0.0000	0.0000	SURCHARGED
15 minute summer	17	28	0.226	41.2	0.2552	0.0000	SURCHARGED
15 minute summer	6.002:50%	29	0.219	43.2	0.8809	0.0000	SURCHARGED
15 minute summer	18	31	0.336	129.4	0.3805	0.0000	SURCHARGED
15 minute summer	1.007:50%	31	0.297	131.9	1.3806	0.0000	OK
15 minute summer	7	1	0.000	0.0	0.0000	0.0000	OK
15 minute summer	3.000:50%	16	0.071	11.7	0.0000	0.0000	OK
15 minute summer	8	18	0.072	11.7	0.0810	0.0000	OK
15 minute summer	9	1	0.000	0.0	0.0000	0.0000	OK
15 minute summer	4.000:50%	19	0.058	9.9	0.1254	0.0000	OK
15 minute summer	10	26	0.198	21.6	0.2238	0.0000	SURCHARGED
15 minute summer	3.002:50%	22	0.672	37.7	0.0000	0.0000	SURCHARGED
15 minute summer	13	31	0.902	82.3	1.0197	0.0000	SURCHARGED
15 minute summer	12	32	0.763	5.7	0.8632	0.0000	SURCHARGED
15 minute summer	5.001:50%	32	0.809	9.2	9.5390	0.0000	SURCHARGED
15 minute summer	11	1	0.000	0.0	0.0000	0.0000	OK
15 minute summer	5.000:50%	19	0.043	5.7	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	26	7.003	7.003:50%	35.6	0.757	1.034	0.8020	
15 minute summer	26	7.003	27	53.0	1.354	1.538	0.8020	
15 minute summer	27	7.004	7.004:50%	51.8	1.440	0.625	1.2084	
15 minute summer	27	7.004	28	68.1	1.401	0.822	1.2084	
15 minute summer	28	7.005	28_OUT	67.8	0.963	1.365	1.1066	
15 minute summer	15	6.000	6.000:50%	4.4	0.354	0.355	0.2032	
15 minute summer	15	6.000	16	13.9	1.068	1.116	0.2032	
15 minute summer	16	6.001	6.001:50%	17.6	1.085	0.662	0.3953	
15 minute summer	16	6.001	17	41.2	2.349	1.547	0.3953	
15 minute summer	17	6.002	6.002:50%	41.0	2.511	0.883	0.0874	
15 minute summer	17	6.002	18	42.6	2.701	0.918	0.0874	
15 minute summer	18	1.007	1.007:50%	129.5	1.843	0.978	0.4245	
15 minute summer	18	1.007	19	132.7	2.127	1.002	0.4029	
15 minute summer	7	3.000	3.000:50%	0.0	0.000	0.000	0.0477	
15 minute summer	7	3.000	8	11.7	1.422	0.432	0.0962	
15 minute summer	8	3.001	10	11.7	1.177	0.463	0.4137	
15 minute summer	9	4.000	4.000:50%	0.0	0.000	0.000	0.0337	
15 minute summer	9	4.000	10	9.9	1.112	0.319	0.1276	
15 minute summer	10	3.002	3.002:50%	21.7	1.381	0.701	0.5477	
15 minute summer	10	3.002	13	37.5	2.132	1.210	0.5475	
15 minute summer	13	1.005	14	81.6	2.608	1.101	0.1170	
15 minute summer	12	5.001	5.001:50%	5.9	0.543	0.477	0.1819	
15 minute summer	12	5.001	13	29.5	1.675	2.377	0.1819	
15 minute summer	11	5.000	5.000:50%	0.0	0.000	0.000	0.0562	
15 minute summer	11	5.000	12	5.7	0.892	0.179	0.2937	

**Results for 100 year +40% CC 15 minute summer. 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 summer	2	18	0.035	3.7	0.0399	0.0000	OK
15 minute summer	1.001:50%	20	0.056	9.2	0.0411	0.0000	OK
15 minute summer	1	1	0.000	0.0	0.0000	0.0000	OK
15 minute summer	1.000:50%	16	0.034	3.7	0.0059	0.0000	OK
15 minute summer	14	32	0.711	81.6	0.8045	0.0000	SURCHARGED
15 minute summer	1.006:50%	32	0.529	89.8	5.0232	0.0000	SURCHARGED
15 minute summer	20	29	0.399	137.8	0.4513	0.0000	SURCHARGED
15 minute summer	1.009:50%	26	0.361	150.5	0.0699	0.0000	SURCHARGED
15 minute summer	19	29	0.253	132.7	0.3618	0.0000	OK
15 minute summer	1.008:50%	29	0.357	137.7	0.0000	0.0000	SURCHARGED
15 minute summer	22	28	0.142	1.0	0.1602	0.0000	OK
15 minute summer	7.000:50%	28	0.362	15.6	0.0000	0.0000	SURCHARGED
15 minute summer	23	28	0.528	15.2	0.5972	0.0000	SURCHARGED
15 minute summer	7.001:50%	28	0.555	33.3	0.0000	0.0000	SURCHARGED
15 minute summer	28_OUT	32	0.740	67.8	0.8368	0.0000	OK
15 minute summer	30_OUT	1	0.000	30.0	0.0000	0.0000	OK
15 minute summer	21	26	0.350	150.4	0.5011	0.0000	OK
15 minute summer	21_OUT	34	0.820	161.7	1.1730	0.0000	OK
15 minute summer	3	28	0.271	9.2	0.3060	0.0000	SURCHARGED
15 minute summer	1.002:50%	28	0.465	16.7	0.0000	0.0000	SURCHARGED
15 minute summer	6	29	0.596	43.1	0.6739	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	2	1.001	1.001:50%	3.7	0.814	0.121	0.1622	
15 minute summer	2	1.001	3	9.2	1.407	0.300	0.4174	
15 minute summer	1	1.000	1.000:50%	0.0	0.000	0.000	0.0189	
15 minute summer	1	1.000	2	3.7	1.212	0.110	0.0389	
15 minute summer	14	1.006	1.006:50%	81.5	2.050	1.153	0.6990	
15 minute summer	14	1.006	18	89.2	2.243	1.262	0.6990	
15 minute summer	20	1.009	1.009:50%	137.9	2.028	0.949	0.6938	
15 minute summer	20	1.009	21	150.4	2.228	1.035	0.6847	
15 minute summer	19	1.008	1.008:50%	133.0	2.357	0.749	0.6527	
15 minute summer	19	1.008	20	137.8	2.158	0.776	0.6871	
15 minute summer	22	7.000	7.000:50%	2.4	0.194	0.106	0.2340	
15 minute summer	22	7.000	23	15.2	1.264	0.665	0.2365	
15 minute summer	23	7.001	7.001:50%	15.3	0.488	0.694	0.5075	
15 minute summer	23	7.001	24	33.1	1.058	1.504	0.5075	
15 minute summer	28_OUT	Flow through pond	29	213.6	0.284	0.003	345.3992	
15 minute summer	21	1.010	21_OUT	150.4	1.286	1.313	1.4502	
15 minute summer	21_OUT	Flow through pond	29	213.6	0.284	0.003	345.3992	
15 minute summer	3	1.002	1.002:50%	9.2	0.976	0.369	0.2052	
15 minute summer	3	1.002	4	15.9	1.069	0.640	0.2052	
15 minute summer	6	1.004	1.004:50%	43.1	1.788	1.219	0.3820	

**Results for 100 year +40% CC 15 minute summer. 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 summer	1.004:50%	29	0.396	45.4	0.0000	0.0000	SURCHARGED
15 minute summer	4	29	0.614	15.9	0.6950	0.0000	SURCHARGED
15 minute summer	1.003:50%	30	0.612	22.3	6.3164	0.0000	SURCHARGED
15 minute summer	5	1	0.000	0.0	0.0000	0.0000	OK
15 minute summer	2.000:50%	25	0.095	25.1	0.3312	0.0000	OK
15 minute summer	30	44	0.267	30.1	0.9250	0.0000	OK
15 minute summer	29	41	0.579	213.6	0.6544	0.0000	SURCHARGED
15 minute summer	25	1	0.000	0.0	0.0000	0.0000	OK
15 minute summer	8.000:50%	19	0.035	3.1	0.0000	0.0000	OK
15 minute summer	24	28	0.478	33.1	0.5412	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	1.004	13	45.3	1.883	1.284	0.3782	331.5
15 minute summer	4	1.003	1.003:50%	15.6	0.648	0.916	0.0821	
15 minute summer	4	1.003	6	31.5	1.308	1.851	0.0821	
15 minute summer	5	2.000	2.000:50%	0.0	0.000	0.000	0.1514	
15 minute summer	5	2.000	6	25.1	2.098	0.724	0.3793	
15 minute summer	30	Hydro-Brake®	30_OUT	30.0				
15 minute summer	29	9.000	30	30.1	1.709	2.425	0.2580	
15 minute summer	25	8.000	8.000:50%	0.0	0.000	0.000	0.0201	
15 minute summer	25	8.000	26	3.1	1.002	0.117	0.0398	
15 minute summer	24	7.002	26	32.8	1.048	1.456	0.1498	

**Results for 100 year +40% CC 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	26	28	0.707	39.1	0.7992	0.0000	SURCHARGED
15 minute winter	7.003:50%	29	0.687	58.3	0.0000	0.0000	SURCHARGED
15 minute winter	27	29	0.600	57.9	0.6781	0.0000	SURCHARGED
15 minute winter	7.004:50%	31	0.781	83.5	11.0627	0.0000	SURCHARGED
15 minute winter	28	32	0.876	74.0	0.9909	0.0000	SURCHARGED
15 minute winter	15	28	1.188	4.3	1.3436	0.0000	FLOOD RISK
15 minute winter	6.000:50%	28	1.245	15.9	0.0000	0.0000	SURCHARGED
15 minute winter	16	28	1.206	15.1	1.3635	0.0000	SURCHARGED
15 minute winter	6.001:50%	27	1.533	45.4	0.0000	0.0000	SURCHARGED
15 minute winter	17	29	0.432	44.9	0.4891	0.0000	SURCHARGED
15 minute winter	6.002:50%	31	0.369	47.0	2.4976	0.0000	SURCHARGED
15 minute winter	18	31	0.439	133.1	0.4966	0.0000	SURCHARGED
15 minute winter	1.007:50%	31	0.390	135.1	2.3798	0.0000	SURCHARGED
15 minute winter	7	1	0.000	0.0	0.0000	0.0000	OK
15 minute winter	3.000:50%	16	0.076	13.1	0.0000	0.0000	OK
15 minute winter	8	26	0.077	13.1	0.0866	0.0000	OK
15 minute winter	9	1	0.000	0.0	0.0000	0.0000	OK
15 minute winter	4.000:50%	29	0.192	11.0	1.3671	0.0000	SURCHARGED
15 minute winter	10	28	0.478	24.1	0.5405	0.0000	SURCHARGED
15 minute winter	3.002:50%	27	0.913	40.1	0.0000	0.0000	SURCHARGED
15 minute winter	13	32	1.042	87.5	1.1790	0.0000	SURCHARGED
15 minute winter	12	33	0.899	6.4	1.0168	0.0000	SURCHARGED
15 minute winter	5.001:50%	33	0.947	11.9	13.0629	0.0000	SURCHARGED
15 minute winter	11	1	0.000	0.0	0.0000	0.0000	OK
15 minute winter	5.000:50%	19	0.046	6.4	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute winter	26	7.003	7.003:50%	38.8	0.793	1.126	0.8020	
15 minute winter	26	7.003	27	57.9	1.340	1.680	0.8020	
15 minute winter	27	7.004	7.004:50%	57.5	1.423	0.694	1.2084	
15 minute winter	27	7.004	28	74.0	1.514	0.893	1.2084	
15 minute winter	28	7.005	28_OUT	73.7	1.046	1.484	1.1066	
15 minute winter	15	6.000	6.000:50%	5.9	0.337	0.478	0.2032	
15 minute winter	15	6.000	16	15.1	1.086	1.214	0.2032	
15 minute winter	16	6.001	6.001:50%	20.1	1.140	0.754	0.3953	
15 minute winter	16	6.001	17	44.9	2.549	1.685	0.3953	
15 minute winter	17	6.002	6.002:50%	44.5	2.530	0.960	0.0874	
15 minute winter	17	6.002	18	44.3	2.709	0.955	0.0874	
15 minute winter	18	1.007	1.007:50%	133.3	1.893	1.007	0.4248	
15 minute winter	18	1.007	19	137.7	2.124	1.040	0.4248	
15 minute winter	7	3.000	3.000:50%	0.0	0.000	0.000	0.0520	
15 minute winter	7	3.000	8	13.1	1.461	0.484	0.1048	
15 minute winter	8	3.001	10	13.1	1.191	0.518	0.4254	
15 minute winter	9	4.000	4.000:50%	0.0	0.000	0.000	0.0939	
15 minute winter	9	4.000	10	15.5	1.129	0.500	0.1878	
15 minute winter	10	3.002	3.002:50%	24.7	1.403	0.796	0.5477	
15 minute winter	10	3.002	13	40.0	2.272	1.289	0.5477	
15 minute winter	13	1.005	14	82.9	2.650	1.119	0.1170	
15 minute winter	12	5.001	5.001:50%	5.5	0.534	0.440	0.1819	
15 minute winter	12	5.001	13	36.0	2.043	2.899	0.1819	
15 minute winter	11	5.000	5.000:50%	0.0	0.000	0.000	0.0610	
15 minute winter	11	5.000	12	6.4	0.896	0.201	0.2986	

**Results for 100 year +40% CC 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	2	17	0.037	4.1	0.0420	0.0000	OK
15 minute winter	1.001:50%	20	0.060	10.2	0.0459	0.0000	OK
15 minute winter	1	1	0.000	0.0	0.0000	0.0000	OK
15 minute winter	1.000:50%	16	0.036	4.1	0.0066	0.0000	OK
15 minute winter	14	32	0.840	82.9	0.9497	0.0000	SURCHARGED
15 minute winter	1.006:50%	32	0.640	92.6	7.3483	0.0000	SURCHARGED
15 minute winter	20	29	0.421	141.1	0.4763	0.0000	SURCHARGED
15 minute winter	1.009:50%	28	0.375	154.5	0.0752	0.0000	SURCHARGED
15 minute winter	19	31	0.335	137.7	0.4797	0.0000	SURCHARGED
15 minute winter	1.008:50%	30	0.388	141.0	0.0000	0.0000	SURCHARGED
15 minute winter	22	28	0.449	1.6	0.5081	0.0000	SURCHARGED
15 minute winter	7.000:50%	28	0.670	17.5	0.0000	0.0000	SURCHARGED
15 minute winter	23	28	0.808	16.5	0.9137	0.0000	SURCHARGED
15 minute winter	7.001:50%	28	0.827	36.5	0.0000	0.0000	SURCHARGED
15 minute winter	28_OUT	32	0.816	73.7	0.9225	0.0000	OK
15 minute winter	30_OUT	1	0.000	31.0	0.0000	0.0000	OK
15 minute winter	21	28	0.356	154.4	0.5095	0.0000	OK
15 minute winter	21_OUT	37	0.881	170.9	1.2606	0.0000	OK
15 minute winter	3	29	0.446	10.2	0.5047	0.0000	SURCHARGED
15 minute winter	1.002:50%	29	0.635	17.9	0.0000	0.0000	SURCHARGED
15 minute winter	6	30	0.753	45.4	0.8521	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	2	1.001	1.001:50%	4.1	0.837	0.134	0.1747	
15 minute winter	2	1.001	3	10.2	1.431	0.333	0.4257	
15 minute winter	1	1.000	1.000:50%	0.0	0.000	0.000	0.0203	
15 minute winter	1	1.000	2	4.1	1.248	0.122	0.0419	
15 minute winter	14	1.006	1.006:50%	82.9	2.084	1.172	0.6990	
15 minute winter	14	1.006	18	94.8	2.384	1.341	0.6990	
15 minute winter	20	1.009	1.009:50%	142.2	2.019	0.978	0.6938	
15 minute winter	20	1.009	21	154.4	2.223	1.063	0.6857	
15 minute winter	19	1.008	1.008:50%	138.0	2.312	0.777	0.6871	
15 minute winter	19	1.008	20	141.1	2.132	0.795	0.6871	
15 minute winter	22	7.000	7.000:50%	3.4	0.194	0.148	0.2365	
15 minute winter	22	7.000	23	16.5	1.254	0.722	0.2365	
15 minute winter	23	7.001	7.001:50%	16.5	0.527	0.749	0.5075	
15 minute winter	23	7.001	24	36.1	1.153	1.640	0.5075	
15 minute winter	28_OUT	Flow through pond	29	217.8	0.290	0.003	385.6041	
15 minute winter	21	1.010	21_OUT	154.4	1.298	1.348	1.4742	
15 minute winter	21_OUT	Flow through pond	29	217.8	0.290	0.003	385.6041	
15 minute winter	3	1.002	1.002:50%	9.5	0.983	0.384	0.2052	
15 minute winter	3	1.002	4	17.5	1.065	0.708	0.2052	
15 minute winter	6	1.004	1.004:50%	44.9	1.865	1.272	0.3820	

**Results for 100 year +40% CC 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	1.004:50%	31	0.539	47.7	0.0000	0.0000	SURCHARGED
15 minute winter	4	31	0.772	17.5	0.8737	0.0000	SURCHARGED
15 minute winter	1.003:50%	31	0.770	24.7	9.9958	0.0000	SURCHARGED
15 minute winter	5	1	0.000	0.0	0.0000	0.0000	OK
15 minute winter	2.000:50%	26	0.116	28.1	0.4988	0.0000	OK
15 minute winter	30	45	0.304	31.2	1.0518	0.0000	SURCHARGED
15 minute winter	29	45	0.630	217.8	0.7123	0.0000	SURCHARGED
15 minute winter	25	1	0.000	0.0	0.0000	0.0000	OK
15 minute winter	8.000:50%	18	0.037	3.4	0.0000	0.0000	OK
15 minute winter	24	28	0.716	36.1	0.8102	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	1.004	13	47.5	1.972	1.345	0.3820	
15 minute winter	4	1.003	1.003:50%	17.2	0.714	1.011	0.0821	
15 minute winter	4	1.003	6	35.1	1.459	2.064	0.0821	
15 minute winter	5	2.000	2.000:50%	0.0	0.000	0.000	0.1893	
15 minute winter	5	2.000	6	28.1	2.117	0.810	0.4172	
15 minute winter	30	Hydro-Brake®	30_OUT	31.0				356.0
15 minute winter	29	9.000	30	31.2	1.773	2.517	0.2607	
15 minute winter	25	8.000	8.000:50%	0.0	0.000	0.000	0.0215	
15 minute winter	25	8.000	26	3.4	1.029	0.128	0.0425	
15 minute winter	24	7.002	26	35.7	1.141	1.585	0.1498	

**Results for 100 year +40% CC 30 minute summer. 270 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
30 minute summer	26	36	0.876	42.3	0.9904	0.0000	SURCHARGED
30 minute summer	7.003:50%	36	0.847	63.2	0.0000	0.0000	SURCHARGED
30 minute summer	27	37	0.741	62.7	0.8378	0.0000	SURCHARGED
30 minute summer	7.004:50%	38	0.900	90.6	14.6801	0.0000	SURCHARGED
30 minute summer	28	40	0.961	77.8	1.0872	0.0000	SURCHARGED
30 minute summer	15	31	1.350	3.5	1.5269	0.1261	FLOOD
30 minute summer	6.000:50%	32	1.407	17.6	0.0000	0.0000	SURCHARGED
30 minute summer	16	34	1.350	16.4	1.5269	0.0000	SURCHARGED
30 minute summer	6.001:50%	37	1.641	50.9	1.7125	0.0000	PONDING
30 minute summer	17	40	0.523	46.3	0.5912	0.0000	SURCHARGED
30 minute summer	6.002:50%	40	0.436	48.6	3.4816	0.0000	SURCHARGED
30 minute summer	18	39	0.481	135.9	0.5436	0.0000	SURCHARGED
30 minute summer	1.007:50%	39	0.427	137.6	2.8510	0.0000	SURCHARGED
30 minute summer	7	1	0.000	0.0	0.0000	0.0000	OK
30 minute summer	3.000:50%	25	0.080	14.5	0.0000	0.0000	OK
30 minute summer	8	34	0.108	14.5	0.1225	0.0000	OK
30 minute summer	9	1	0.000	0.0	0.0000	0.0000	OK
30 minute summer	4.000:50%	37	0.306	12.2	3.4662	0.0000	SURCHARGED
30 minute summer	10	36	0.595	25.1	0.6729	0.0000	SURCHARGED
30 minute summer	3.002:50%	34	1.041	41.4	0.0000	0.0000	SURCHARGED
30 minute summer	13	41	1.111	89.5	1.2566	0.0000	SURCHARGED
30 minute summer	12	41	0.967	7.0	1.0938	0.0000	SURCHARGED
30 minute summer	5.001:50%	41	1.015	14.4	15.0101	0.0000	SURCHARGED
30 minute summer	11	1	0.000	0.0	0.0000	0.0000	OK
30 minute summer	5.000:50%	40	0.112	7.0	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	26	7.003	7.003:50%	41.8	0.856	1.215	0.8020	
30 minute summer	26	7.003	27	62.7	1.326	1.819	0.8020	
30 minute summer	27	7.004	7.004:50%	62.1	1.439	0.750	1.2084	
30 minute summer	27	7.004	28	77.8	1.590	0.938	1.2084	
30 minute summer	28	7.005	28_OUT	77.4	1.099	1.559	1.1066	
30 minute summer	15	6.000	6.000:50%	5.8	0.342	0.466	0.2032	
30 minute summer	15	6.000	16	16.4	1.087	1.320	0.2032	
30 minute summer	16	6.001	6.001:50%	21.3	1.211	0.800	0.3953	
30 minute summer	16	6.001	17	46.3	2.632	1.740	0.3953	
30 minute summer	17	6.002	6.002:50%	45.8	2.605	0.988	0.0874	
30 minute summer	17	6.002	18	46.0	2.712	0.991	0.0874	
30 minute summer	18	1.007	1.007:50%	136.1	1.933	1.028	0.4248	
30 minute summer	18	1.007	19	139.5	2.106	1.054	0.4248	
30 minute summer	7	3.000	3.000:50%	0.0	0.000	0.000	0.0559	
30 minute summer	7	3.000	8	14.5	1.488	0.536	0.1306	
30 minute summer	8	3.001	10	14.3	1.194	0.566	0.4985	
30 minute summer	9	4.000	4.000:50%	0.0	0.000	0.000	0.0939	
30 minute summer	9	4.000	10	18.9	1.137	0.609	0.1878	
30 minute summer	10	3.002	3.002:50%	26.0	1.474	0.837	0.5477	
30 minute summer	10	3.002	13	41.3	2.345	1.331	0.5477	
30 minute summer	13	1.005	14	83.6	2.671	1.128	0.1170	
30 minute summer	12	5.001	5.001:50%	5.8	0.542	0.470	0.1819	
30 minute summer	12	5.001	13	36.8	2.091	2.967	0.1819	
30 minute summer	11	5.000	5.000:50%	0.0	0.000	0.000	0.1905	
30 minute summer	11	5.000	12	7.0	0.900	0.220	0.4280	

**Results for 100 year +40% CC 30 minute summer. 270 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
30 minute summer	2	28	0.039	4.6	0.0445	0.0000	OK
30 minute summer	1.001:50%	28	0.063	11.4	0.0518	0.0000	OK
30 minute summer	1	1	0.000	0.0	0.0000	0.0000	OK
30 minute summer	1.000:50%	28	0.038	4.6	0.0074	0.0000	OK
30 minute summer	14	41	0.902	83.6	1.0207	0.0000	SURCHARGED
30 minute summer	1.006:50%	40	0.695	93.7	8.6523	0.0000	SURCHARGED
30 minute summer	20	36	0.441	143.6	0.4983	0.0000	SURCHARGED
30 minute summer	1.009:50%	35	0.387	157.9	0.0800	0.0000	SURCHARGED
30 minute summer	19	38	0.368	139.5	0.5270	0.0000	SURCHARGED
30 minute summer	1.008:50%	37	0.415	143.5	0.0000	0.0000	SURCHARGED
30 minute summer	22	34	0.681	1.8	0.7705	0.0000	SURCHARGED
30 minute summer	7.000:50%	34	0.902	19.4	0.0000	0.0000	SURCHARGED
30 minute summer	23	35	1.019	17.9	1.1522	0.0000	SURCHARGED
30 minute summer	7.001:50%	35	1.033	39.7	0.0000	0.0000	SURCHARGED
30 minute summer	28_OUT	41	0.892	77.4	1.0087	0.0000	OK
30 minute summer	30_OUT	1	0.000	31.7	0.0000	0.0000	OK
30 minute summer	21	35	0.361	157.9	0.5167	0.0000	OK
30 minute summer	21_OUT	47	0.958	174.5	1.3702	0.0000	OK
30 minute summer	3	36	0.546	11.4	0.6175	0.0000	SURCHARGED
30 minute summer	1.002:50%	37	0.730	19.6	0.0000	0.0000	SURCHARGED
30 minute summer	6	39	0.845	45.7	0.9555	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	2	1.001	1.001:50%	4.6	0.864	0.150	0.1895	
30 minute summer	2	1.001	3	11.4	1.443	0.372	0.4354	
30 minute summer	1	1.000	1.000:50%	0.0	0.000	0.000	0.0221	
30 minute summer	1	1.000	2	4.6	1.289	0.137	0.0455	
30 minute summer	14	1.006	1.006:50%	83.6	2.103	1.183	0.6990	
30 minute summer	14	1.006	18	97.5	2.451	1.379	0.6990	
30 minute summer	20	1.009	1.009:50%	143.7	2.041	0.989	0.6938	
30 minute summer	20	1.009	21	157.9	2.243	1.086	0.6866	
30 minute summer	19	1.008	1.008:50%	139.8	2.322	0.787	0.6871	
30 minute summer	19	1.008	20	143.6	2.142	0.809	0.6871	
30 minute summer	22	7.000	7.000:50%	3.6	0.210	0.157	0.2365	
30 minute summer	22	7.000	23	17.9	1.243	0.782	0.2365	
30 minute summer	23	7.001	7.001:50%	17.6	0.563	0.801	0.5075	
30 minute summer	23	7.001	24	39.1	1.249	1.776	0.5075	
30 minute summer	28_OUT	Flow through pond	29	178.0	0.238	0.003	449.7314	
30 minute summer	21	1.010	21_OUT	157.9	1.309	1.378	1.4940	
30 minute summer	21_OUT	Flow through pond	29	178.0	0.238	0.003	449.7314	
30 minute summer	3	1.002	1.002:50%	10.4	0.979	0.421	0.2052	
30 minute summer	3	1.002	4	19.2	1.092	0.776	0.2052	
30 minute summer	6	1.004	1.004:50%	45.3	1.882	1.283	0.3820	

**Results for 100 year +40% CC 30 minute summer. 270 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
30 minute summer	1.004:50%	39	0.619	48.4	0.0000	0.0000	SURCHARGED
30 minute summer	4	39	0.860	19.2	0.9729	0.0000	SURCHARGED
30 minute summer	1.003:50%	40	0.858	27.1	12.4051	0.0000	SURCHARGED
30 minute summer	5	1	0.000	0.0	0.0000	0.0000	OK
30 minute summer	2.000:50%	37	0.222	31.1	1.8200	0.0000	SURCHARGED
30 minute summer	30	57	0.339	31.8	1.1732	0.0000	SURCHARGED
30 minute summer	29	55	0.706	178.0	0.7989	0.0000	SURCHARGED
30 minute summer	25	1	0.000	0.0	0.0000	0.0000	OK
30 minute summer	8.000:50%	28	0.039	3.8	0.0000	0.0000	OK
30 minute summer	24	35	0.896	39.1	1.0135	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	1.004	13	48.3	2.004	1.367	0.3820	400.1
30 minute summer	4	1.003	1.003:50%	18.9	0.783	1.108	0.0821	
30 minute summer	4	1.003	6	34.7	1.441	2.039	0.0821	
30 minute summer	5	2.000	2.000:50%	0.0	0.000	0.000	0.2279	
30 minute summer	5	2.000	6	30.2	2.127	0.872	0.4558	
30 minute summer	30	Hydro-Brake®	30_OUT	31.7				
30 minute summer	29	9.000	30	31.8	1.804	2.561	0.2607	
30 minute summer	25	8.000	8.000:50%	0.0	0.000	0.000	0.0233	
30 minute summer	25	8.000	26	3.8	1.062	0.143	0.0461	
30 minute summer	24	7.002	26	38.6	1.233	1.713	0.1498	

**Results for 100 year +40% CC 30 minute winter. 270 minute analysis at 1 minute timestep. Mass balance: 99.85%**

Node Event	US Node	Peak (mins)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
30 minute winter	26	35	1.128	47.1	1.2756	0.0000	SURCHARGED
30 minute winter	7.003:50%	35	1.081	70.5	0.0000	0.0000	SURCHARGED
30 minute winter	27	36	0.938	69.9	1.0606	0.0000	SURCHARGED
30 minute winter	7.004:50%	38	1.053	101.2	20.1049	0.0000	SURCHARGED
30 minute winter	28	40	1.060	83.4	1.1985	0.0000	SURCHARGED
30 minute winter	15	26	1.350	3.6	1.5269	1.6602	FLOOD
30 minute winter	6.000:50%	26	1.415	19.9	0.0000	0.0000	SURCHARGED
30 minute winter	16	29	1.354	16.9	1.5317	0.0000	SURCHARGED
30 minute winter	6.001:50%	37	1.646	56.1	5.9433	0.0000	PONDING
30 minute winter	17	41	0.553	46.8	0.6249	0.0000	SURCHARGED
30 minute winter	6.002:50%	41	0.471	49.2	4.0716	0.0000	SURCHARGED
30 minute winter	18	39	0.517	138.4	0.5850	0.0000	SURCHARGED
30 minute winter	1.007:50%	38	0.461	139.6	3.3282	0.0000	SURCHARGED
30 minute winter	7	1	0.000	0.0	0.0000	0.0000	OK
30 minute winter	3.000:50%	34	0.125	16.4	0.0000	0.0000	OK
30 minute winter	8	35	0.326	16.4	0.3683	0.0000	SURCHARGED
30 minute winter	9	38	0.112	0.7	0.1272	0.0000	OK
30 minute winter	4.000:50%	38	0.434	13.9	6.9791	0.0000	SURCHARGED
30 minute winter	10	37	0.729	26.9	0.8244	0.0000	SURCHARGED
30 minute winter	3.002:50%	34	1.212	43.0	0.0000	0.0000	SURCHARGED
30 minute winter	13	41	1.195	91.3	1.3514	0.0000	SURCHARGED
30 minute winter	12	42	1.051	8.0	1.1889	0.0000	FLOOD RISK
30 minute winter	5.001:50%	42	1.099	17.1	17.5989	0.0000	SURCHARGED
30 minute winter	11	1	0.000	0.0	0.0000	0.0000	OK
30 minute winter	5.000:50%	40	0.201	8.0	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)
30 minute winter	26	7.003	7.003:50%	46.6	0.953	1.352	0.8020	
30 minute winter	26	7.003	27	69.9	1.429	2.028	0.8020	
30 minute winter	27	7.004	7.004:50%	69.2	1.421	0.835	1.2084	
30 minute winter	27	7.004	28	83.4	1.706	1.007	1.2084	
30 minute winter	28	7.005	28_OUT	83.1	1.180	1.673	1.1066	
30 minute winter	15	6.000	6.000:50%	6.7	0.379	0.538	0.2032	
30 minute winter	15	6.000	16	16.9	1.065	1.362	0.2032	
30 minute winter	16	6.001	6.001:50%	22.5	1.278	0.845	0.3953	
30 minute winter	16	6.001	17	46.8	2.657	1.756	0.3953	
30 minute winter	17	6.002	6.002:50%	46.1	2.619	0.994	0.0874	
30 minute winter	17	6.002	18	46.5	2.709	1.003	0.0874	
30 minute winter	18	1.007	1.007:50%	138.6	1.968	1.047	0.4248	
30 minute winter	18	1.007	19	141.5	2.102	1.069	0.4248	
30 minute winter	7	3.000	3.000:50%	0.0	0.000	0.000	0.0919	
30 minute winter	7	3.000	8	16.4	1.503	0.606	0.1946	
30 minute winter	8	3.001	10	15.5	1.211	0.612	0.5622	
30 minute winter	9	4.000	4.000:50%	1.0	0.091	0.033	0.1695	
30 minute winter	9	4.000	10	21.5	1.224	0.694	0.1878	
30 minute winter	10	3.002	3.002:50%	26.9	1.528	0.867	0.5477	
30 minute winter	10	3.002	13	42.6	2.422	1.374	0.5477	
30 minute winter	13	1.005	14	84.8	2.710	1.144	0.1170	
30 minute winter	12	5.001	5.001:50%	6.7	0.542	0.537	0.1819	
30 minute winter	12	5.001	13	36.6	2.077	2.946	0.1819	
30 minute winter	11	5.000	5.000:50%	0.0	0.000	0.000	0.2376	
30 minute winter	11	5.000	12	8.0	0.886	0.251	0.4751	

**Results for 100 year +40% CC 30 minute winter. 270 minute analysis at 1 minute timestep. Mass balance: 99.85%**

Node Event	US Node	Peak (mins)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
30 minute winter	2	28	0.042	5.2	0.0473	0.0000	OK
30 minute winter	1.001:50%	28	0.068	12.9	0.0595	0.0000	OK
30 minute winter	1	1	0.000	0.0	0.0000	0.0000	OK
30 minute winter	1.000:50%	28	0.040	5.2	0.0084	0.0000	OK
30 minute winter	14	41	0.976	84.8	1.1034	0.0000	SURCHARGED
30 minute winter	1.006:50%	41	0.752	95.6	10.1448	0.0000	SURCHARGED
30 minute winter	20	35	0.461	145.8	0.5218	0.0000	SURCHARGED
30 minute winter	1.009:50%	34	0.401	162.1	0.0862	0.0000	SURCHARGED
30 minute winter	19	37	0.399	141.5	0.5713	0.0000	SURCHARGED
30 minute winter	1.008:50%	36	0.443	145.7	0.0000	0.0000	SURCHARGED
30 minute winter	22	34	1.053	2.5	1.1913	0.0000	FLOOD RISK
30 minute winter	7.000:50%	34	1.274	21.9	0.0000	0.0000	SURCHARGED
30 minute winter	23	34	1.351	19.9	1.5276	0.0000	FLOOD RISK
30 minute winter	7.001:50%	34	1.354	44.2	0.0000	0.0000	SURCHARGED
30 minute winter	28_OUT	41	0.975	83.1	1.1022	0.0000	OK
30 minute winter	30_OUT	1	0.000	32.3	0.0000	0.0000	OK
30 minute winter	21	34	0.367	162.1	0.5253	0.0000	OK
30 minute winter	21_OUT	50	1.020	179.3	1.4600	0.0000	OK
30 minute winter	3	36	0.686	12.9	0.7761	0.0000	SURCHARGED
30 minute winter	1.002:50%	36	0.860	22.1	0.0000	0.0000	SURCHARGED
30 minute winter	6	40	0.955	45.9	1.0800	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	2	1.001	1.001:50%	5.2	0.892	0.170	0.2073	
30 minute winter	2	1.001	3	12.9	1.453	0.421	0.4473	
30 minute winter	1	1.000	1.000:50%	0.0	0.000	0.000	0.0241	
30 minute winter	1	1.000	2	5.2	1.334	0.155	0.0496	
30 minute winter	14	1.006	1.006:50%	84.9	2.135	1.201	0.6990	
30 minute winter	14	1.006	18	99.9	2.512	1.413	0.6990	
30 minute winter	20	1.009	1.009:50%	145.9	2.072	1.004	0.6938	
30 minute winter	20	1.009	21	162.1	2.302	1.115	0.6868	
30 minute winter	19	1.008	1.008:50%	141.7	2.324	0.798	0.6871	
30 minute winter	19	1.008	20	145.8	2.139	0.821	0.6871	
30 minute winter	22	7.000	7.000:50%	3.4	-0.217	0.149	0.2365	
30 minute winter	22	7.000	23	19.9	1.256	0.871	0.2365	
30 minute winter	23	7.001	7.001:50%	19.8	0.632	0.898	0.5075	
30 minute winter	23	7.001	24	43.5	1.391	1.978	0.5075	
30 minute winter	28_OUT	Flow through pond	29	179.8	0.243	0.003	501.1187	
30 minute winter	21	1.010	21_OUT	162.1	1.322	1.415	1.5177	
30 minute winter	21_OUT	Flow through pond	29	179.8	0.243	0.003	501.1187	
30 minute winter	3	1.002	1.002:50%	11.7	0.966	0.472	0.2052	
30 minute winter	3	1.002	4	21.6	1.227	0.872	0.2052	
30 minute winter	6	1.004	1.004:50%	45.4	1.883	1.285	0.3820	

**Results for 100 year +40% CC 30 minute winter. 270 minute analysis at 1 minute timestep. Mass balance: 99.85%**

Node Event	US Node	Peak (mins)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
30 minute winter	1.004:50%	40	0.716	49.0	0.0000	0.0000	SURCHARGED
30 minute winter	4	39	0.969	21.6	1.0964	0.0000	SURCHARGED
30 minute winter	1.003:50%	40	0.968	30.4	15.7897	0.0000	SURCHARGED
30 minute winter	5	1	0.000	0.0	0.0000	0.0000	OK
30 minute winter	2.000:50%	37	0.359	35.2	4.7670	0.0000	SURCHARGED
30 minute winter	30	61	0.374	32.4	1.2947	0.0000	SURCHARGED
30 minute winter	29	58	0.765	179.8	0.8647	0.0000	SURCHARGED
30 minute winter	25	1	0.000	0.0	0.0000	0.0000	OK
30 minute winter	8.000:50%	28	0.041	4.3	0.0000	0.0000	OK
30 minute winter	24	35	1.170	43.5	1.3236	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	1.004	13	48.7	2.021	1.378	0.3820	
30 minute winter	4	1.003	1.003:50%	21.1	0.875	1.238	0.0821	
30 minute winter	4	1.003	6	36.8	1.529	2.164	0.0821	
30 minute winter	5	2.000	2.000:50%	0.0	0.000	0.000	0.2279	
30 minute winter	5	2.000	6	31.9	2.148	0.920	0.4558	
30 minute winter	30	Hydro-Brake®	30_OUT	32.3				424.0
30 minute winter	29	9.000	30	32.4	1.840	2.611	0.2607	
30 minute winter	25	8.000	8.000:50%	0.0	0.000	0.000	0.0255	
30 minute winter	25	8.000	26	4.3	1.099	0.162	0.0503	
30 minute winter	24	7.002	26	43.0	1.373	1.908	0.1498	

**Results for 100 year +40% CC 60 minute summer. 300 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
60 minute summer	26	51	0.945	42.5	1.0692	0.0000	SURCHARGED
60 minute summer	7.003:50%	51	0.916	63.4	0.0000	0.0000	SURCHARGED
60 minute summer	27	52	0.807	62.9	0.9133	0.0000	SURCHARGED
60 minute summer	7.004:50%	54	0.967	90.8	16.9424	0.0000	SURCHARGED
60 minute summer	28	56	1.033	77.4	1.1679	0.0000	SURCHARGED
60 minute summer	15	45	1.350	3.1	1.5269	0.2714	FLOOD
60 minute summer	6.000:50%	45	1.408	17.6	0.0000	0.0000	SURCHARGED
60 minute summer	16	45	1.352	16.3	1.5290	0.0000	SURCHARGED
60 minute summer	6.001:50%	52	1.641	51.3	2.0692	0.0000	PONDING
60 minute summer	17	56	0.530	46.4	0.5999	0.0000	SURCHARGED
60 minute summer	6.002:50%	57	0.446	48.7	3.6382	0.0000	SURCHARGED
60 minute summer	18	55	0.489	136.4	0.5531	0.0000	SURCHARGED
60 minute summer	1.007:50%	54	0.434	138.3	2.9490	0.0000	SURCHARGED
60 minute summer	7	1	0.000	0.0	0.0000	0.0000	OK
60 minute summer	3.000:50%	40	0.080	14.5	0.0000	0.0000	OK
60 minute summer	8	50	0.118	14.5	0.1338	0.0000	OK
60 minute summer	9	1	0.000	0.0	0.0000	0.0000	OK
60 minute summer	4.000:50%	53	0.318	12.3	3.7447	0.0000	SURCHARGED
60 minute summer	10	51	0.607	25.4	0.6863	0.0000	SURCHARGED
60 minute summer	3.002:50%	49	1.061	41.4	0.0000	0.0000	SURCHARGED
60 minute summer	13	57	1.134	89.3	1.2821	0.0000	SURCHARGED
60 minute summer	12	58	0.991	7.1	1.1206	0.0000	SURCHARGED
60 minute summer	5.001:50%	58	1.038	14.4	15.7032	0.0000	SURCHARGED
60 minute summer	11	1	0.000	0.0	0.0000	0.0000	OK
60 minute summer	5.000:50%	57	0.140	7.1	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
60 minute summer	26	7.003	7.003:50%	42.0	0.860	1.220	0.8020	
60 minute summer	26	7.003	27	62.9	1.347	1.827	0.8020	
60 minute summer	27	7.004	7.004:50%	62.4	1.418	0.753	1.2084	
60 minute summer	27	7.004	28	77.4	1.583	0.934	1.2084	
60 minute summer	28	7.005	28_OUT	77.0	1.094	1.551	1.1066	
60 minute summer	15	6.000	6.000:50%	4.4	0.310	0.353	0.2032	
60 minute summer	15	6.000	16	16.3	1.074	1.310	0.2032	
60 minute summer	16	6.001	6.001:50%	19.8	1.127	0.745	0.3953	
60 minute summer	16	6.001	17	46.4	2.634	1.741	0.3953	
60 minute summer	17	6.002	6.002:50%	45.9	2.606	0.989	0.0874	
60 minute summer	17	6.002	18	45.9	2.706	0.990	0.0874	
60 minute summer	18	1.007	1.007:50%	136.4	1.937	1.031	0.4248	
60 minute summer	18	1.007	19	139.4	2.106	1.053	0.4248	
60 minute summer	7	3.000	3.000:50%	0.0	0.000	0.000	0.0558	
60 minute summer	7	3.000	8	14.5	1.490	0.536	0.1378	
60 minute summer	8	3.001	10	14.3	1.197	0.565	0.5191	
60 minute summer	9	4.000	4.000:50%	0.0	0.000	0.000	0.0939	
60 minute summer	9	4.000	10	18.0	1.135	0.579	0.1878	
60 minute summer	10	3.002	3.002:50%	24.9	1.417	0.804	0.5477	
60 minute summer	10	3.002	13	41.2	2.342	1.329	0.5477	
60 minute summer	13	1.005	14	83.9	2.680	1.132	0.1170	
60 minute summer	12	5.001	5.001:50%	6.0	0.524	0.480	0.1819	
60 minute summer	12	5.001	13	35.5	2.019	2.864	0.1819	
60 minute summer	11	5.000	5.000:50%	0.0	0.000	0.000	0.2310	
60 minute summer	11	5.000	12	7.1	0.883	0.223	0.4686	

**Results for 100 year +40% CC 60 minute summer. 300 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
60 minute summer	2	43	0.039	4.6	0.0445	0.0000	OK
60 minute summer	1.001:50%	44	0.063	11.4	0.0519	0.0000	OK
60 minute summer	1	1	0.000	0.0	0.0000	0.0000	OK
60 minute summer	1.000:50%	42	0.038	4.6	0.0074	0.0000	OK
60 minute summer	14	57	0.922	83.9	1.0433	0.0000	SURCHARGED
60 minute summer	1.006:50%	57	0.710	94.0	9.0466	0.0000	SURCHARGED
60 minute summer	20	51	0.444	144.1	0.5019	0.0000	SURCHARGED
60 minute summer	1.009:50%	50	0.389	158.5	0.0809	0.0000	SURCHARGED
60 minute summer	19	54	0.374	139.4	0.5353	0.0000	SURCHARGED
60 minute summer	1.008:50%	52	0.420	144.0	0.0000	0.0000	SURCHARGED
60 minute summer	22	50	0.759	2.1	0.8588	0.0000	SURCHARGED
60 minute summer	7.000:50%	50	0.980	19.4	0.0000	0.0000	SURCHARGED
60 minute summer	23	50	1.095	17.9	1.2380	0.0000	SURCHARGED
60 minute summer	7.001:50%	50	1.108	39.8	0.0000	0.0000	SURCHARGED
60 minute summer	28_OUT	57	0.966	77.0	1.0928	0.0000	OK
60 minute summer	30_OUT	1	0.000	32.8	0.0000	0.0000	OK
60 minute summer	21	50	0.362	158.5	0.5179	0.0000	OK
60 minute summer	21_OUT	65	1.070	173.5	1.5309	0.0000	OK
60 minute summer	3	51	0.562	11.4	0.6356	0.0000	SURCHARGED
60 minute summer	1.002:50%	52	0.747	19.7	0.0000	0.0000	SURCHARGED
60 minute summer	6	55	0.863	45.6	0.9756	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	2	1.001	1.001:50%	4.6	0.864	0.150	0.1896	
60 minute summer	2	1.001	3	11.4	1.445	0.372	0.4355	
60 minute summer	1	1.000	1.000:50%	0.0	0.000	0.000	0.0221	
60 minute summer	1	1.000	2	4.6	1.289	0.137	0.0455	
60 minute summer	14	1.006	1.006:50%	83.9	2.111	1.187	0.6990	
60 minute summer	14	1.006	18	97.5	2.453	1.380	0.6990	
60 minute summer	20	1.009	1.009:50%	144.2	2.048	0.992	0.6938	
60 minute summer	20	1.009	21	158.5	2.251	1.091	0.6868	
60 minute summer	19	1.008	1.008:50%	139.6	2.326	0.786	0.6871	
60 minute summer	19	1.008	20	144.1	2.146	0.812	0.6871	
60 minute summer	22	7.000	7.000:50%	2.6	0.201	0.116	0.2365	
60 minute summer	22	7.000	23	17.9	1.239	0.785	0.2365	
60 minute summer	23	7.001	7.001:50%	17.8	0.568	0.808	0.5075	
60 minute summer	23	7.001	24	39.2	1.254	1.783	0.5075	
60 minute summer	28_OUT	Flow through pond	29	137.2	0.158	0.002	552.2476	
60 minute summer	21	1.010	21_OUT	158.5	1.311	1.384	1.4975	
60 minute summer	21_OUT	Flow through pond	29	137.2	0.158	0.002	552.2476	
60 minute summer	3	1.002	1.002:50%	10.5	0.972	0.423	0.2052	
60 minute summer	3	1.002	4	19.4	1.100	0.782	0.2052	
60 minute summer	6	1.004	1.004:50%	45.3	1.879	1.282	0.3820	

**Results for 100 year +40% CC 60 minute summer. 300 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
60 minute summer	1.004:50%	55	0.639	48.4	0.0000	0.0000	SURCHARGED
60 minute summer	4	55	0.877	19.4	0.9920	0.0000	SURCHARGED
60 minute summer	1.003:50%	55	0.876	27.2	12.9298	0.0000	SURCHARGED
60 minute summer	5	1	0.000	0.0	0.0000	0.0000	OK
60 minute summer	2.000:50%	52	0.236	31.2	2.0659	0.0000	SURCHARGED
60 minute summer	30	79	0.409	32.9	1.4182	0.0000	SURCHARGED
60 minute summer	29	77	0.819	137.2	0.9260	0.0000	SURCHARGED
60 minute summer	25	1	0.000	0.0	0.0000	0.0000	OK
60 minute summer	8.000:50%	42	0.039	3.8	0.0000	0.0000	OK
60 minute summer	24	50	0.968	39.2	1.0947	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	1.004	13	48.1	1.995	1.361	0.3820	474.8
60 minute summer	4	1.003	1.003:50%	19.0	0.788	1.115	0.0821	
60 minute summer	4	1.003	6	32.8	1.361	1.926	0.0821	
60 minute summer	5	2.000	2.000:50%	0.0	0.000	0.000	0.2279	
60 minute summer	5	2.000	6	30.3	2.130	0.873	0.4558	
60 minute summer	30	Hydro-Brake®	30_OUT	32.8				
60 minute summer	29	9.000	30	32.9	1.868	2.652	0.2607	
60 minute summer	25	8.000	8.000:50%	0.0	0.000	0.000	0.0233	
60 minute summer	25	8.000	26	3.8	1.062	0.143	0.0461	
60 minute summer	24	7.002	26	38.8	1.239	1.722	0.1498	

**Results for 100 year +40% CC 60 minute winter. 300 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
60 minute winter	26	50	1.113	45.7	1.2586	0.0000	SURCHARGED
60 minute winter	7.003:50%	50	1.072	68.3	0.0000	0.0000	SURCHARGED
60 minute winter	27	51	0.942	67.8	1.0657	0.0000	SURCHARGED
60 minute winter	7.004:50%	54	1.080	98.1	21.1382	0.0000	SURCHARGED
60 minute winter	28	57	1.117	80.9	1.2632	0.0000	SURCHARGED
60 minute winter	15	42	1.350	3.3	1.5269	1.2086	FLOOD
60 minute winter	6.000:50%	43	1.411	19.3	0.0000	0.0000	SURCHARGED
60 minute winter	16	42	1.354	16.3	1.5315	0.0000	SURCHARGED
60 minute winter	6.001:50%	53	1.645	54.9	4.8218	0.0000	PONDING
60 minute winter	17	58	0.555	46.7	0.6278	0.0000	SURCHARGED
60 minute winter	6.002:50%	58	0.475	49.0	4.1369	0.0000	SURCHARGED
60 minute winter	18	56	0.518	138.3	0.5862	0.0000	SURCHARGED
60 minute winter	1.007:50%	55	0.461	140.0	3.3212	0.0000	SURCHARGED
60 minute winter	7	1	0.000	0.0	0.0000	0.0000	OK
60 minute winter	3.000:50%	48	0.092	15.9	0.0000	0.0000	OK
60 minute winter	8	49	0.282	15.9	0.3184	0.0000	SURCHARGED
60 minute winter	9	53	0.082	0.6	0.0926	0.0000	OK
60 minute winter	4.000:50%	54	0.403	13.4	6.0210	0.0000	SURCHARGED
60 minute winter	10	52	0.695	25.9	0.7863	0.0000	SURCHARGED
60 minute winter	3.002:50%	48	1.171	42.4	0.0000	0.0000	SURCHARGED
60 minute winter	13	59	1.208	90.1	1.3661	0.0000	SURCHARGED
60 minute winter	12	59	1.067	7.7	1.2063	0.0000	FLOOD RISK
60 minute winter	5.001:50%	60	1.113	16.0	18.0542	0.0000	SURCHARGED
60 minute winter	11	1	0.000	0.0	0.0000	0.0000	OK
60 minute winter	5.000:50%	58	0.219	7.7	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 winter	26	7.003	7.003:50%	45.3	0.926	1.314	0.8020	
60 minute winter	26	7.003	27	67.8	1.386	1.967	0.8020	
60 minute winter	27	7.004	7.004:50%	67.2	1.425	0.810	1.2084	
60 minute winter	27	7.004	28	80.9	1.654	0.976	1.2084	
60 minute winter	28	7.005	28_OUT	80.5	1.144	1.621	1.1066	
60 minute winter	15	6.000	6.000:50%	4.9	0.278	0.394	0.2032	
60 minute winter	15	6.000	16	16.3	1.060	1.312	0.2032	
60 minute winter	16	6.001	6.001:50%	20.4	1.158	0.766	0.3953	
60 minute winter	16	6.001	17	46.7	2.656	1.756	0.3953	
60 minute winter	17	6.002	6.002:50%	46.0	2.611	0.990	0.0874	
60 minute winter	17	6.002	18	46.2	2.707	0.996	0.0874	
60 minute winter	18	1.007	1.007:50%	138.4	1.966	1.045	0.4248	
60 minute winter	18	1.007	19	141.1	2.106	1.066	0.4248	
60 minute winter	7	3.000	3.000:50%	0.0	0.000	0.000	0.0662	
60 minute winter	7	3.000	8	15.9	1.500	0.588	0.1690	
60 minute winter	8	3.001	10	15.2	1.194	0.603	0.5622	
60 minute winter	9	4.000	4.000:50%	0.7	0.059	0.021	0.1463	
60 minute winter	9	4.000	10	18.4	1.133	0.594	0.1878	
60 minute winter	10	3.002	3.002:50%	25.4	1.442	0.818	0.5477	
60 minute winter	10	3.002	13	42.0	2.389	1.355	0.5477	
60 minute winter	13	1.005	14	85.0	2.716	1.146	0.1170	
60 minute winter	12	5.001	5.001:50%	6.5	0.531	0.525	0.1819	
60 minute winter	12	5.001	13	35.9	2.039	2.893	0.1819	
60 minute winter	11	5.000	5.000:50%	0.0	0.000	0.000	0.2376	
60 minute winter	11	5.000	12	7.7	0.851	0.242	0.4751	

**Results for 100 year +40% CC 60 minute winter. 300 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
60 minute winter	2	43	0.041	5.0	0.0464	0.0000	OK
60 minute winter	1.001:50%	44	0.066	12.4	0.0570	0.0000	OK
60 minute winter	1	1	0.000	0.0	0.0000	0.0000	OK
60 minute winter	1.000:50%	42	0.039	5.0	0.0081	0.0000	OK
60 minute winter	14	59	0.987	85.0	1.1159	0.0000	SURCHARGED
60 minute winter	1.006:50%	58	0.761	95.2	10.3753	0.0000	SURCHARGED
60 minute winter	20	51	0.458	145.9	0.5183	0.0000	SURCHARGED
60 minute winter	1.009:50%	49	0.399	161.4	0.0851	0.0000	SURCHARGED
60 minute winter	19	54	0.398	141.1	0.5692	0.0000	SURCHARGED
60 minute winter	1.008:50%	52	0.439	145.8	0.0000	0.0000	SURCHARGED
60 minute winter	22	49	1.002	2.8	1.1335	0.0000	SURCHARGED
60 minute winter	7.000:50%	49	1.223	21.2	0.0000	0.0000	SURCHARGED
60 minute winter	23	49	1.312	19.3	1.4841	0.0000	FLOOD RISK
60 minute winter	7.001:50%	49	1.319	42.9	0.0000	0.0000	SURCHARGED
60 minute winter	28_OUT	58	1.043	80.5	1.1801	0.0000	OK
60 minute winter	30_OUT	1	0.000	33.3	0.0000	0.0000	OK
60 minute winter	21	49	0.366	161.4	0.5238	0.0000	OK
60 minute winter	21_OUT	69	1.138	175.4	1.6292	0.0000	OK
60 minute winter	3	51	0.656	12.4	0.7415	0.0000	SURCHARGED
60 minute winter	1.002:50%	52	0.834	21.5	0.0000	0.0000	SURCHARGED
60 minute winter	6	56	0.947	45.8	1.0708	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 winter	2	1.001	1.001:50%	5.0	0.883	0.163	0.2015	
60 minute winter	2	1.001	3	12.4	1.438	0.405	0.4435	
60 minute winter	1	1.000	1.000:50%	0.0	0.000	0.000	0.0235	
60 minute winter	1	1.000	2	5.0	1.320	0.149	0.0483	
60 minute winter	14	1.006	1.006:50%	85.0	2.138	1.203	0.6990	
60 minute winter	14	1.006	18	99.0	2.489	1.400	0.6990	
60 minute winter	20	1.009	1.009:50%	145.9	2.072	1.004	0.6938	
60 minute winter	20	1.009	21	161.4	2.292	1.110	0.6869	
60 minute winter	19	1.008	1.008:50%	141.3	2.326	0.796	0.6871	
60 minute winter	19	1.008	20	145.9	2.143	0.822	0.6871	
60 minute winter	22	7.000	7.000:50%	-2.8	-0.188	-0.121	0.2365	
60 minute winter	22	7.000	23	19.3	1.238	0.845	0.2365	
60 minute winter	23	7.001	7.001:50%	19.1	0.610	0.868	0.5075	
60 minute winter	23	7.001	24	42.3	1.350	1.920	0.5075	
60 minute winter	28_OUT	Flow through pond	29	142.9	0.170	0.002	622.3442	
60 minute winter	21	1.010	21_OUT	161.4	1.320	1.408	1.5135	
60 minute winter	21_OUT	Flow through pond	29	142.9	0.170	0.002	622.3442	
60 minute winter	3	1.002	1.002:50%	11.4	0.967	0.459	0.2052	
60 minute winter	3	1.002	4	21.0	1.192	0.847	0.2052	
60 minute winter	6	1.004	1.004:50%	45.2	1.878	1.281	0.3820	

**Results for 100 year +40% CC 60 minute winter. 300 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
60 minute winter	1.004:50%	57	0.719	48.6	0.0000	0.0000	SURCHARGED
60 minute winter	4	56	0.961	21.0	1.0869	0.0000	SURCHARGED
60 minute winter	1.003:50%	57	0.960	29.5	15.5382	0.0000	SURCHARGED
60 minute winter	5	1	0.000	0.0	0.0000	0.0000	OK
60 minute winter	2.000:50%	53	0.331	34.1	4.0586	0.0000	SURCHARGED
60 minute winter	30	82	0.459	33.4	1.5916	0.0000	SURCHARGED
60 minute winter	29	81	0.889	142.9	1.0051	0.0000	SURCHARGED
60 minute winter	25	1	0.000	0.0	0.0000	0.0000	OK
60 minute winter	8.000:50%	43	0.041	4.2	0.0000	0.0000	OK
60 minute winter	24	50	1.148	42.3	1.2986	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 winter	6	1.004	13	48.0	1.994	1.360	0.3820	
60 minute winter	4	1.003	1.003:50%	20.5	0.850	1.203	0.0821	
60 minute winter	4	1.003	6	34.6	1.437	2.032	0.0821	
60 minute winter	5	2.000	2.000:50%	0.0	0.000	0.000	0.2279	
60 minute winter	5	2.000	6	31.4	2.102	0.905	0.4558	
60 minute winter	30	Hydro-Brake®	30_OUT	33.3				498.6
60 minute winter	29	9.000	30	33.4	1.899	2.695	0.2607	
60 minute winter	25	8.000	8.000:50%	0.0	0.000	0.000	0.0250	
60 minute winter	25	8.000	26	4.2	1.092	0.158	0.0495	
60 minute winter	24	7.002	26	41.7	1.333	1.852	0.1498	

**Results for 100 year +40% CC 120 minute summer. 360 minute analysis at 2 minute timestep. Mass balance: 100.00%**

Node Event	US Node	Peak (mins)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
120 minute summer	26	82	0.744	37.3	0.8420	0.0000	SURCHARGED
120 minute summer	7.003:50%	82	0.733	55.8	0.0000	0.0000	SURCHARGED
120 minute summer	27	82	0.662	55.3	0.7485	0.0000	SURCHARGED
120 minute summer	7.004:50%	84	0.868	80.0	13.6660	0.0000	SURCHARGED
120 minute summer	28	88	1.008	69.4	1.1395	0.0000	SURCHARGED
120 minute summer	15	80	0.954	1.6	1.0789	0.0000	SURCHARGED
120 minute summer	6.000:50%	80	1.011	15.5	0.0000	0.0000	SURCHARGED
120 minute summer	16	80	0.978	14.4	1.1065	0.0000	SURCHARGED
120 minute summer	6.001:50%	78	1.316	43.6	0.0000	0.0000	SURCHARGED
120 minute summer	17	82	0.339	43.3	0.3828	0.0000	SURCHARGED
120 minute summer	6.002:50%	84	0.307	45.2	1.7283	0.0000	SURCHARGED
120 minute summer	18	86	0.405	131.2	0.4578	0.0000	SURCHARGED
120 minute summer	1.007:50%	86	0.359	133.6	2.0114	0.0000	SURCHARGED
120 minute summer	7	2	0.000	0.0	0.0000	0.0000	OK
120 minute summer	3.000:50%	74	0.075	12.8	0.0000	0.0000	OK
120 minute summer	8	74	0.075	12.8	0.0854	0.0000	OK
120 minute summer	9	2	0.000	0.0	0.0000	0.0000	OK
120 minute summer	4.000:50%	78	0.104	10.8	0.4035	0.0000	OK
120 minute summer	10	78	0.404	23.5	0.4573	0.0000	SURCHARGED
120 minute summer	3.002:50%	76	0.819	39.5	0.0000	0.0000	SURCHARGED
120 minute summer	13	86	1.003	85.8	1.1342	0.0000	SURCHARGED
120 minute summer	12	88	0.864	6.2	0.9768	0.0000	SURCHARGED
120 minute summer	5.001:50%	88	0.909	10.8	12.0375	0.0000	SURCHARGED
120 minute summer	11	2	0.000	0.0	0.0000	0.0000	OK
120 minute summer	5.000:50%	74	0.045	6.2	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
120 minute summer	26	7.003	7.003:50%	37.0	0.756	1.074	0.8020	
120 minute summer	26	7.003	27	55.3	1.334	1.606	0.8020	
120 minute summer	27	7.004	7.004:50%	54.9	1.375	0.662	1.2084	
120 minute summer	27	7.004	28	69.4	1.420	0.838	1.2084	
120 minute summer	28	7.005	28_OUT	69.2	0.982	1.393	1.1066	
120 minute summer	15	6.000	6.000:50%	2.8	0.157	0.223	0.2032	
120 minute summer	15	6.000	16	14.4	1.058	1.158	0.2032	
120 minute summer	16	6.001	6.001:50%	15.8	0.900	0.595	0.3953	
120 minute summer	16	6.001	17	43.3	2.458	1.625	0.3953	
120 minute summer	17	6.002	6.002:50%	42.9	2.506	0.924	0.0874	
120 minute summer	17	6.002	18	43.1	2.696	0.930	0.0874	
120 minute summer	18	1.007	1.007:50%	131.2	1.864	0.991	0.4248	
120 minute summer	18	1.007	19	134.5	2.110	1.016	0.4248	
120 minute summer	7	3.000	3.000:50%	0.0	0.000	0.000	0.0511	
120 minute summer	7	3.000	8	12.8	1.452	0.473	0.1029	
120 minute summer	8	3.001	10	12.8	1.174	0.506	0.4229	
120 minute summer	9	4.000	4.000:50%	0.0	0.000	0.000	0.0698	
120 minute summer	9	4.000	10	10.8	1.107	0.347	0.1637	
120 minute summer	10	3.002	3.002:50%	22.3	1.369	0.719	0.5477	
120 minute summer	10	3.002	13	39.3	2.235	1.268	0.5477	
120 minute summer	13	1.005	14	82.6	2.639	1.114	0.1170	
120 minute summer	12	5.001	5.001:50%	6.0	0.524	0.482	0.1819	
120 minute summer	12	5.001	13	28.5	1.618	2.295	0.1819	
120 minute summer	11	5.000	5.000:50%	0.0	0.000	0.000	0.0597	
120 minute summer	11	5.000	12	6.2	0.831	0.195	0.2972	

Results for 100 year +40% CC 120 minute summer. 360 minute analysis at 2 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
120 minute summer	2	74	0.037	4.0	0.0414	0.0000	OK
120 minute summer	1.001:50%	74	0.059	10.0	0.0449	0.0000	OK
120 minute summer	1	2	0.000	0.0	0.0000	0.0000	OK
120 minute summer	1.000:50%	74	0.035	4.0	0.0064	0.0000	OK
120 minute summer	14	86	0.804	82.6	0.9092	0.0000	SURCHARGED
120 minute summer	1.006:50%	86	0.610	91.6	6.6660	0.0000	SURCHARGED
120 minute summer	20	78	0.409	139.4	0.4623	0.0000	SURCHARGED
120 minute summer	1.009:50%	78	0.369	152.8	0.0729	0.0000	SURCHARGED
120 minute summer	19	84	0.310	134.5	0.4436	0.0000	SURCHARGED
120 minute summer	1.008:50%	84	0.370	139.5	0.0000	0.0000	SURCHARGED
120 minute summer	22	80	0.448	1.9	0.5065	0.0000	SURCHARGED
120 minute summer	7.000:50%	80	0.669	17.1	0.0000	0.0000	SURCHARGED
120 minute summer	23	80	0.819	15.8	0.9264	0.0000	SURCHARGED
120 minute summer	7.001:50%	80	0.842	35.0	0.0000	0.0000	SURCHARGED
120 minute summer	28_OUT	88	0.965	69.2	1.0916	0.0000	OK
120 minute summer	30_OUT	2	0.000	33.3	0.0000	0.0000	OK
120 minute summer	21	78	0.354	152.7	0.5059	0.0000	OK
120 minute summer	21_OUT	94	1.096	165.1	1.5687	0.0000	OK
120 minute summer	3	82	0.361	10.0	0.4084	0.0000	SURCHARGED
120 minute summer	1.002:50%	82	0.554	17.2	0.0000	0.0000	SURCHARGED
120 minute summer	6	82	0.679	44.6	0.7681	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
120 minute summer	2	1.001	1.001:50%	4.0	0.829	0.131	0.1721	
120 minute summer	2	1.001	3	10.0	1.397	0.326	0.4241	
120 minute summer	1	1.000	1.000:50%	0.0	0.000	0.000	0.0200	
120 minute summer	1	1.000	2	4.0	1.239	0.119	0.0411	
120 minute summer	14	1.006	1.006:50%	82.5	2.074	1.166	0.6990	
120 minute summer	14	1.006	18	90.8	2.283	1.284	0.6990	
120 minute summer	20	1.009	1.009:50%	139.5	1.990	0.960	0.6938	
120 minute summer	20	1.009	21	152.7	2.246	1.051	0.6853	
120 minute summer	19	1.008	1.008:50%	135.5	2.324	0.763	0.6871	
120 minute summer	19	1.008	20	139.4	2.135	0.786	0.6871	
120 minute summer	22	7.000	7.000:50%	-1.9	0.125	-0.085	0.2365	
120 minute summer	22	7.000	23	15.8	1.222	0.690	0.2365	
120 minute summer	23	7.001	7.001:50%	15.5	0.497	0.706	0.5075	
120 minute summer	23	7.001	24	34.5	1.102	1.568	0.5075	
120 minute summer	28_OUT	Flow through pond	29	133.7	0.128	0.002	617.4025	
120 minute summer	21	1.010	21_OUT	152.7	1.293	1.333	1.4639	
120 minute summer	21_OUT	Flow through pond	29	133.7	0.128	0.002	617.4025	
120 minute summer	3	1.002	1.002:50%	9.1	0.951	0.368	0.2052	
120 minute summer	3	1.002	4	16.9	1.016	0.682	0.2052	
120 minute summer	6	1.004	1.004:50%	44.3	1.840	1.255	0.3820	

**Results for 100 year +40% CC 120 minute summer. 360 minute analysis at 2 minute timestep. Mass balance: 100.00%**

Node Event	US Node	Peak (mins)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
120 minute summer	1.004:50%	84	0.481	46.8	0.0000	0.0000	SURCHARGED
120 minute summer	4	84	0.699	16.9	0.7905	0.0000	SURCHARGED
120 minute summer	1.003:50%	84	0.697	23.7	8.1934	0.0000	SURCHARGED
120 minute summer	5	2	0.000	0.0	0.0000	0.0000	OK
120 minute summer	2.000:50%	76	0.104	27.4	0.4039	0.0000	OK
120 minute summer	30	128	0.456	33.3	1.5811	0.0000	SURCHARGED
120 minute summer	29	126	0.884	133.7	0.9995	0.0000	SURCHARGED
120 minute summer	25	2	0.000	0.0	0.0000	0.0000	OK
120 minute summer	8.000:50%	74	0.037	3.4	0.0000	0.0000	OK
120 minute summer	24	80	0.746	34.5	0.8442	0.0000	SURCHARGED

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	1.004	13	46.6	1.933	1.319	0.3820	577.5
120 minute summer	4	1.003	1.003:50%	16.5	0.686	0.971	0.0821	
120 minute summer	4	1.003	6	27.5	1.141	1.614	0.0821	
120 minute summer	5	2.000	2.000:50%	0.0	0.000	0.000	0.1695	
120 minute summer	5	2.000	6	27.3	2.069	0.787	0.3973	
120 minute summer	30	Hydro-Brake®	30_OUT	33.3				
120 minute summer	29	9.000	30	33.3	1.892	2.685	0.2607	
120 minute summer	25	8.000	8.000:50%	0.0	0.000	0.000	0.0215	
120 minute summer	25	8.000	26	3.4	1.029	0.128	0.0425	
120 minute summer	24	7.002	26	34.1	1.089	1.513	0.1498	

**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	26	82	0.744	36.0	0.8420	0.0000	SURCHARGED
120 minute winter	7.003:50%	82	0.736	53.7	0.0000	0.0000	SURCHARGED
120 minute winter	27	84	0.674	53.3	0.7623	0.0000	SURCHARGED
120 minute winter	7.004:50%	86	0.893	76.9	14.4747	0.0000	SURCHARGED
120 minute winter	28	90	1.058	67.3	1.1968	0.0000	SURCHARGED
120 minute winter	15	80	0.804	1.6	0.9094	0.0000	SURCHARGED
120 minute winter	6.000:50%	80	0.861	14.8	0.0000	0.0000	SURCHARGED
120 minute winter	16	80	0.834	13.9	0.9431	0.0000	SURCHARGED
120 minute winter	6.001:50%	78	1.177	42.1	0.0000	0.0000	SURCHARGED
120 minute winter	17	82	0.287	41.8	0.3250	0.0000	SURCHARGED
120 minute winter	6.002:50%	84	0.274	43.8	1.3783	0.0000	SURCHARGED
120 minute winter	18	86	0.391	130.4	0.4423	0.0000	SURCHARGED
120 minute winter	1.007:50%	86	0.347	132.9	1.8795	0.0000	SURCHARGED
120 minute winter	7	2	0.000	0.0	0.0000	0.0000	OK
120 minute winter	3.000:50%	74	0.073	12.2	0.0000	0.0000	OK
120 minute winter	8	74	0.073	12.2	0.0830	0.0000	OK
120 minute winter	9	2	0.000	0.0	0.0000	0.0000	OK
120 minute winter	4.000:50%	74	0.059	10.3	0.1309	0.0000	OK
120 minute winter	10	78	0.319	22.5	0.3613	0.0000	SURCHARGED
120 minute winter	3.002:50%	78	0.737	38.4	0.0000	0.0000	SURCHARGED
120 minute winter	13	86	0.983	84.3	1.1120	0.0000	SURCHARGED
120 minute winter	12	88	0.849	5.9	0.9600	0.0000	SURCHARGED
120 minute winter	5.001:50%	88	0.892	9.1	11.6036	0.0000	SURCHARGED
120 minute winter	11	2	0.000	0.0	0.0000	0.0000	OK
120 minute winter	5.000:50%	74	0.044	5.9	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
120 minute winter	26	7.003	7.003:50%	35.6	0.729	1.034	0.8020	
120 minute winter	26	7.003	27	53.3	1.314	1.547	0.8020	
120 minute winter	27	7.004	7.004:50%	52.9	1.378	0.638	1.2084	
120 minute winter	27	7.004	28	67.3	1.376	0.812	1.2084	
120 minute winter	28	7.005	28_OUT	67.0	0.952	1.349	1.1066	
120 minute winter	15	6.000	6.000:50%	2.0	0.118	0.163	0.2032	
120 minute winter	15	6.000	16	13.9	1.040	1.122	0.2032	
120 minute winter	16	6.001	6.001:50%	14.8	0.840	0.555	0.3953	
120 minute winter	16	6.001	17	41.8	2.377	1.571	0.3953	
120 minute winter	17	6.002	6.002:50%	41.6	2.513	0.898	0.0874	
120 minute winter	17	6.002	18	42.6	2.692	0.918	0.0874	
120 minute winter	18	1.007	1.007:50%	130.4	1.851	0.985	0.4248	
120 minute winter	18	1.007	19	133.5	2.114	1.008	0.4246	
120 minute winter	7	3.000	3.000:50%	0.0	0.000	0.000	0.0492	
120 minute winter	7	3.000	8	12.2	1.436	0.451	0.0992	
120 minute winter	8	3.001	10	12.2	1.170	0.483	0.4179	
120 minute winter	9	4.000	4.000:50%	0.0	0.000	0.000	0.0347	
120 minute winter	9	4.000	10	10.3	1.103	0.332	0.1286	
120 minute winter	10	3.002	3.002:50%	21.9	1.380	0.705	0.5477	
120 minute winter	10	3.002	13	38.3	2.178	1.236	0.5477	
120 minute winter	13	1.005	14	82.3	2.631	1.111	0.1170	
120 minute winter	12	5.001	5.001:50%	6.6	0.529	0.532	0.1819	
120 minute winter	12	5.001	13	25.7	1.462	2.074	0.1819	
120 minute winter	11	5.000	5.000:50%	0.0	0.000	0.000	0.0576	
120 minute winter	11	5.000	12	5.9	0.842	0.185	0.2951	

**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	2	72	0.036	3.8	0.0404	0.0000	OK
120 minute winter	1.001:50%	74	0.057	9.5	0.0425	0.0000	OK
120 minute winter	1	2	0.000	0.0	0.0000	0.0000	OK
120 minute winter	1.000:50%	72	0.034	3.8	0.0061	0.0000	OK
120 minute winter	14	88	0.787	82.3	0.8905	0.0000	SURCHARGED
120 minute winter	1.006:50%	88	0.599	91.3	6.4382	0.0000	SURCHARGED
120 minute winter	20	80	0.407	138.7	0.4602	0.0000	SURCHARGED
120 minute winter	1.009:50%	80	0.366	152.0	0.0719	0.0000	SURCHARGED
120 minute winter	19	86	0.300	133.5	0.4290	0.0000	OK
120 minute winter	1.008:50%	80	0.367	138.7	0.0000	0.0000	SURCHARGED
120 minute winter	22	80	0.414	1.5	0.4681	0.0000	SURCHARGED
120 minute winter	7.000:50%	80	0.635	16.3	0.0000	0.0000	SURCHARGED
120 minute winter	23	82	0.794	15.2	0.8979	0.0000	SURCHARGED
120 minute winter	7.001:50%	82	0.820	33.6	0.0000	0.0000	SURCHARGED
120 minute winter	28_OUT	94	1.027	67.0	1.1614	0.0000	OK
120 minute winter	30_OUT	2	0.000	33.7	0.0000	0.0000	OK
120 minute winter	21	80	0.352	152.0	0.5043	0.0000	OK
120 minute winter	21_OUT	96	1.174	163.4	1.6801	0.0000	OK
120 minute winter	3	82	0.325	9.5	0.3671	0.0000	SURCHARGED
120 minute winter	1.002:50%	82	0.518	16.5	0.0000	0.0000	SURCHARGED
120 minute winter	6	84	0.649	44.0	0.7335	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
120 minute winter	2	1.001	1.001:50%	3.8	0.821	0.124	0.1658	
120 minute winter	2	1.001	3	9.5	1.392	0.310	0.4199	
120 minute winter	1	1.000	1.000:50%	0.0	0.000	0.000	0.0192	
120 minute winter	1	1.000	2	3.8	1.221	0.113	0.0396	
120 minute winter	14	1.006	1.006:50%	82.3	2.068	1.164	0.6990	
120 minute winter	14	1.006	18	91.9	2.311	1.300	0.6990	
120 minute winter	20	1.009	1.009:50%	138.7	1.970	0.955	0.6938	
120 minute winter	20	1.009	21	152.0	2.224	1.046	0.6851	
120 minute winter	19	1.008	1.008:50%	133.8	2.314	0.754	0.6868	
120 minute winter	19	1.008	20	138.7	2.141	0.781	0.6871	
120 minute winter	22	7.000	7.000:50%	-1.5	-0.105	-0.067	0.2365	
120 minute winter	22	7.000	23	15.2	1.218	0.665	0.2365	
120 minute winter	23	7.001	7.001:50%	14.9	0.477	0.679	0.5075	
120 minute winter	23	7.001	24	33.2	1.061	1.509	0.5075	
120 minute winter	28_OUT	Flow through pond	29	134.1	0.142	0.002	705.1794	
120 minute winter	21	1.010	21_OUT	152.0	1.291	1.326	1.4595	
120 minute winter	21_OUT	Flow through pond	29	134.1	0.142	0.002	705.1794	
120 minute winter	3	1.002	1.002:50%	8.9	0.954	0.357	0.2052	
120 minute winter	3	1.002	4	16.2	1.015	0.655	0.2052	
120 minute winter	6	1.004	1.004:50%	43.8	1.819	1.241	0.3820	

**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	1.004:50%	86	0.458	46.3	0.0000	0.0000	SURCHARGED
120 minute winter	4	84	0.667	16.2	0.7545	0.0000	SURCHARGED
120 minute winter	1.003:50%	84	0.665	22.8	7.4545	0.0000	SURCHARGED
120 minute winter	5	2	0.000	0.0	0.0000	0.0000	OK
120 minute winter	2.000:50%	76	0.098	26.1	0.3577	0.0000	OK
120 minute winter	30	130	0.522	33.8	1.8080	0.0000	SURCHARGED
120 minute winter	29	128	0.966	134.1	1.0926	0.0000	SURCHARGED
120 minute winter	25	2	0.000	0.0	0.0000	0.0000	OK
120 minute winter	8.000:50%	74	0.036	3.2	0.0000	0.0000	OK
120 minute winter	24	82	0.740	33.2	0.8370	0.0000	SURCHARGED

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	1.004	13	46.3	1.920	1.310	0.3820	603.4
120 minute winter	4	1.003	1.003:50%	16.0	0.662	0.937	0.0821	
120 minute winter	4	1.003	6	25.5	1.059	1.498	0.0821	
120 minute winter	5	2.000	2.000:50%	0.0	0.000	0.000	0.1583	
120 minute winter	5	2.000	6	26.0	2.074	0.750	0.3862	
120 minute winter	30	Hydro-Brake®	30_OUT	33.7				
120 minute winter	29	9.000	30	33.8	1.919	2.723	0.2607	
120 minute winter	25	8.000	8.000:50%	0.0	0.000	0.000	0.0206	
120 minute winter	25	8.000	26	3.2	1.011	0.120	0.0407	
120 minute winter	24	7.002	26	32.8	1.049	1.457	0.1498	

**Results for 100 year +40% CC 180 minute summer. 420 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)	
180 minute summer	26	112	0.527	31.4	0.5960	0.0000	SURCHARGED
180 minute summer	7.003:50%	112	0.529	47.0	0.0000	0.0000	SURCHARGED
180 minute summer	27	116	0.492	46.7	0.5570	0.0000	SURCHARGED
180 minute summer	7.004:50%	116	0.743	67.3	10.0192	0.0000	SURCHARGED
180 minute summer	28	120	0.958	60.6	1.0836	0.0000	SURCHARGED
180 minute summer	15	108	0.378	0.8	0.4280	0.0000	SURCHARGED
180 minute summer	6.000:50%	108	0.435	13.0	0.0000	0.0000	SURCHARGED
180 minute summer	16	108	0.425	12.5	0.4804	0.0000	SURCHARGED
180 minute summer	6.001:50%	108	0.802	37.8	0.0000	0.0000	SURCHARGED
180 minute summer	17	108	0.116	37.7	0.1309	0.0000	OK
180 minute summer	6.002:50%	108	0.121	39.7	0.2704	0.0000	OK
180 minute summer	18	112	0.285	124.4	0.3223	0.0000	OK
180 minute summer	1.007:50%	112	0.263	127.0	1.0783	0.0000	OK
180 minute summer	7	4	0.000	0.0	0.0000	0.0000	OK
180 minute summer	3.000:50%	104	0.067	10.7	0.0000	0.0000	OK
180 minute summer	8	104	0.068	10.7	0.0769	0.0000	OK
180 minute summer	9	4	0.000	0.0	0.0000	0.0000	OK
180 minute summer	4.000:50%	104	0.056	9.1	0.1143	0.0000	OK
180 minute summer	10	108	0.091	19.8	0.1027	0.0000	OK
180 minute summer	3.002:50%	108	0.434	34.7	0.0000	0.0000	SURCHARGED
180 minute summer	13	116	0.730	78.1	0.8252	0.0000	SURCHARGED
180 minute summer	12	116	0.599	5.2	0.6771	0.0000	SURCHARGED
180 minute summer	5.001:50%	116	0.642	6.3	6.0130	0.0000	SURCHARGED
180 minute summer	11	4	0.000	0.0	0.0000	0.0000	OK
180 minute summer	5.000:50%	104	0.041	5.2	0.0000	0.0000	OK

Link Event	US	Link	DS	Outflow	Velocity	Flow/Cap	Link	Discharge
	Node		Node	(l/s)	(m/s)		Vol (m³)	Vol (m³)
180 minute summer	26	7.003	7.003:50%	31.1	0.717	0.902	0.8020	
180 minute summer	26	7.003	27	46.7	1.280	1.356	0.8020	
180 minute summer	27	7.004	7.004:50%	46.4	1.361	0.560	1.2084	
180 minute summer	27	7.004	28	60.6	1.239	0.731	1.2084	
180 minute summer	28	7.005	28_OUT	60.3	0.856	1.213	1.1066	
180 minute summer	15	6.000	6.000:50%	0.8	0.074	0.068	0.2032	
180 minute summer	15	6.000	16	12.5	1.037	1.009	0.2032	
180 minute summer	16	6.001	6.001:50%	12.9	0.786	0.484	0.3953	
180 minute summer	16	6.001	17	37.7	2.200	1.415	0.3614	
180 minute summer	17	6.002	6.002:50%	37.7	2.529	0.812	0.0741	
180 minute summer	17	6.002	18	39.7	2.675	0.855	0.0785	
180 minute summer	18	1.007	1.007:50%	124.4	1.847	0.939	0.4057	
180 minute summer	18	1.007	19	126.9	2.116	0.959	0.3605	
180 minute summer	7	3.000	3.000:50%	0.0	0.000	0.000	0.0445	
180 minute summer	7	3.000	8	10.7	1.390	0.395	0.0898	
180 minute summer	8	3.001	10	10.7	1.161	0.423	0.3005	
180 minute summer	9	4.000	4.000:50%	0.0	0.000	0.000	0.0316	
180 minute summer	9	4.000	10	9.1	1.098	0.293	0.0907	
180 minute summer	10	3.002	3.002:50%	19.6	1.390	0.631	0.4473	
180 minute summer	10	3.002	13	34.4	1.956	1.107	0.5477	
180 minute summer	13	1.005	14	78.0	2.492	1.052	0.1170	
180 minute summer	12	5.001	5.001:50%	5.8	0.523	0.464	0.1819	
180 minute summer	12	5.001	13	19.0	1.081	1.533	0.1819	
180 minute summer	11	5.000	5.000:50%	0.0	0.000	0.000	0.0526	
180 minute summer	11	5.000	12	5.2	0.815	0.163	0.2901	

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

Node Event	US Node	Peak (mins)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
180 minute summer	2	104	0.034	3.4	0.0381	0.0000	OK
180 minute summer	1.001:50%	104	0.054	8.4	0.0371	0.0000	OK
180 minute summer	1	4	0.000	0.0	0.0000	0.0000	OK
180 minute summer	1.000:50%	104	0.032	3.4	0.0054	0.0000	OK
180 minute summer	14	116	0.570	78.0	0.6446	0.0000	SURCHARGED
180 minute summer	1.006:50%	116	0.431	86.3	3.3242	0.0000	SURCHARGED
180 minute summer	20	112	0.331	133.1	0.3744	0.0000	SURCHARGED
180 minute summer	1.009:50%	112	0.311	144.7	0.0519	0.0000	SURCHARGED
180 minute summer	19	112	0.215	126.9	0.3081	0.0000	OK
180 minute summer	1.008:50%	112	0.238	133.0	0.0000	0.0000	OK
180 minute summer	22	112	0.120	0.6	0.1352	0.0000	OK
180 minute summer	7.000:50%	112	0.340	14.3	0.0000	0.0000	SURCHARGED
180 minute summer	23	112	0.527	13.9	0.5959	0.0000	SURCHARGED
180 minute summer	7.001:50%	112	0.560	29.7	0.0000	0.0000	SURCHARGED
180 minute summer	28_OUT	124	0.938	60.3	1.0612	0.0000	OK
180 minute summer	30_OUT	4	0.000	33.4	0.0000	0.0000	OK
180 minute summer	21	112	0.342	148.7	0.4889	0.0000	OK
180 minute summer	21_OUT	116	1.036	153.2	1.4819	0.0000	OK
180 minute summer	3	112	0.115	8.4	0.1305	0.0000	OK
180 minute summer	1.002:50%	112	0.323	15.3	0.0000	0.0000	SURCHARGED
180 minute summer	6	112	0.475	40.3	0.5372	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
180 minute summer	2	1.001	1.001:50%	3.4	0.797	0.111	0.1517	
180 minute summer	2	1.001	3	8.4	1.372	0.273	0.3510	
180 minute summer	1	1.000	1.000:50%	0.0	0.000	0.000	0.0177	
180 minute summer	1	1.000	2	3.4	1.184	0.101	0.0365	
180 minute summer	14	1.006	1.006:50%	78.0	1.961	1.103	0.6990	
180 minute summer	14	1.006	18	85.7	2.155	1.212	0.6919	
180 minute summer	20	1.009	1.009:50%	132.9	1.970	0.914	0.6938	
180 minute summer	20	1.009	21	148.7	2.225	1.023	0.6844	
180 minute summer	19	1.008	1.008:50%	126.9	2.311	0.715	0.5568	
180 minute summer	19	1.008	20	133.1	2.136	0.750	0.6363	
180 minute summer	22	7.000	7.000:50%	-0.6	-0.037	-0.026	0.2193	
180 minute summer	22	7.000	23	13.9	1.212	0.609	0.2365	
180 minute summer	23	7.001	7.001:50%	13.2	0.421	0.599	0.5075	
180 minute summer	23	7.001	24	29.1	0.930	1.322	0.5075	
180 minute summer	28_OUT	Flow through pond	29	123.6	0.110	0.002	628.0499	
180 minute summer	21	1.010	21_OUT	144.8	1.269	1.263	1.4152	
180 minute summer	21_OUT	Flow through pond	29	123.6	0.110	0.002	628.0499	
180 minute summer	3	1.002	1.002:50%	8.4	0.963	0.337	0.1873	
180 minute summer	3	1.002	4	14.8	1.013	0.597	0.2052	
180 minute summer	6	1.004	1.004:50%	40.3	1.675	1.142	0.3820	

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

Node Event	US Node	Peak (mins)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
180 minute summer	1.004:50%	112	0.333	42.4	0.0000	0.0000	SURCHARGED
180 minute summer	4	112	0.488	14.8	0.5517	0.0000	SURCHARGED
180 minute summer	1.003:50%	112	0.488	20.6	4.0099	0.0000	SURCHARGED
180 minute summer	5	4	0.000	0.0	0.0000	0.0000	OK
180 minute summer	2.000:50%	100	0.089	23.0	0.2959	0.0000	OK
180 minute summer	30	172	0.464	33.4	1.6084	0.0000	SURCHARGED
180 minute summer	29	172	0.894	123.6	1.0112	0.0000	SURCHARGED
180 minute summer	25	4	0.000	0.0	0.0000	0.0000	OK
180 minute summer	8.000:50%	104	0.033	2.8	0.0000	0.0000	OK
180 minute summer	24	112	0.509	29.1	0.5754	0.0000	SURCHARGED

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	1.004	13	42.4	1.762	1.202	0.3782	663.2
180 minute summer	4	1.003	1.003:50%	14.5	0.600	0.849	0.0821	
180 minute summer	4	1.003	6	21.9	0.910	1.288	0.0821	
180 minute summer	5	2.000	2.000:50%	0.0	0.000	0.000	0.1416	
180 minute summer	5	2.000	6	22.9	2.029	0.662	0.3689	
180 minute summer	30	Hydro-Brake®	30_OUT	33.4				
180 minute summer	29	9.000	30	33.4	1.895	2.690	0.2607	
180 minute summer	25	8.000	8.000:50%	0.0	0.000	0.000	0.0187	
180 minute summer	25	8.000	26	2.8	0.974	0.105	0.0370	
180 minute summer	24	7.002	26	28.6	0.985	1.270	0.1498	

**Results for 100 year +40% CC 180 minute winter. 420 minute analysis at 4 minute timestep. Mass balance: 99.99%**

Node Event	US Node	Peak (mins)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
180 minute winter	26	116	0.476	28.6	0.5378	0.0000	SURCHARGED
180 minute winter	7.003:50%	116	0.487	42.5	0.0000	0.0000	SURCHARGED
180 minute winter	27	120	0.463	42.3	0.5235	0.0000	SURCHARGED
180 minute winter	7.004:50%	120	0.737	60.8	9.8507	0.0000	SURCHARGED
180 minute winter	28	128	0.999	55.5	1.1303	0.0000	SURCHARGED
180 minute winter	15	108	0.128	0.6	0.1450	0.0000	OK
180 minute winter	6.000:50%	108	0.185	11.6	0.0000	0.0000	SURCHARGED
180 minute winter	16	108	0.188	11.3	0.2124	0.0000	SURCHARGED
180 minute winter	6.001:50%	108	0.589	33.9	0.0000	0.0000	SURCHARGED
180 minute winter	17	108	0.105	33.8	0.1191	0.0000	OK
180 minute winter	6.002:50%	108	0.111	35.6	0.2243	0.0000	OK
180 minute winter	18	112	0.260	116.0	0.2939	0.0000	OK
180 minute winter	1.007:50%	112	0.246	118.4	0.9443	0.0000	OK
180 minute winter	7	4	0.000	0.0	0.0000	0.0000	OK
180 minute winter	3.000:50%	104	0.063	9.5	0.0000	0.0000	OK
180 minute winter	8	104	0.064	9.5	0.0720	0.0000	OK
180 minute winter	9	4	0.000	0.0	0.0000	0.0000	OK
180 minute winter	4.000:50%	104	0.052	8.0	0.0998	0.0000	OK
180 minute winter	10	104	0.081	17.5	0.0910	0.0000	OK
180 minute winter	3.002:50%	104	0.121	30.9	0.0000	0.0000	OK
180 minute winter	13	116	0.573	72.9	0.6476	0.0000	SURCHARGED
180 minute winter	12	116	0.441	4.6	0.4989	0.0000	SURCHARGED
180 minute winter	5.001:50%	116	0.485	5.5	3.4289	0.0000	SURCHARGED
180 minute winter	11	4	0.000	0.0	0.0000	0.0000	OK
180 minute winter	5.000:50%	104	0.039	4.6	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
180 minute winter	26	7.003	7.003:50%	28.3	0.700	0.823	0.8020	
180 minute winter	26	7.003	27	42.3	1.265	1.228	0.8020	
180 minute winter	27	7.004	7.004:50%	42.0	1.333	0.507	1.2084	
180 minute winter	27	7.004	28	55.5	1.157	0.669	1.2084	
180 minute winter	28	7.005	28_OUT	55.3	0.785	1.113	1.1066	
180 minute winter	15	6.000	6.000:50%	-0.6	-0.039	-0.045	0.1941	
180 minute winter	15	6.000	16	11.3	1.035	0.912	0.2032	
180 minute winter	16	6.001	6.001:50%	11.9	0.733	0.448	0.3953	
180 minute winter	16	6.001	17	33.8	2.024	1.270	0.3460	
180 minute winter	17	6.002	6.002:50%	33.8	2.498	0.729	0.0673	
180 minute winter	17	6.002	18	35.6	2.678	0.768	0.0685	
180 minute winter	18	1.007	1.007:50%	116.0	1.831	0.876	0.3819	
180 minute winter	18	1.007	19	118.4	2.105	0.894	0.3375	
180 minute winter	7	3.000	3.000:50%	0.0	0.000	0.000	0.0407	
180 minute winter	7	3.000	8	9.5	1.349	0.351	0.0822	
180 minute winter	8	3.001	10	9.5	1.135	0.375	0.2672	
180 minute winter	9	4.000	4.000:50%	0.0	0.000	0.000	0.0288	
180 minute winter	9	4.000	10	8.0	1.067	0.258	0.0802	
180 minute winter	10	3.002	3.002:50%	17.5	1.395	0.563	0.3866	
180 minute winter	10	3.002	13	30.8	1.972	0.993	0.5107	
180 minute winter	13	1.005	14	73.0	2.334	0.985	0.1170	
180 minute winter	12	5.001	5.001:50%	4.9	0.512	0.393	0.1819	
180 minute winter	12	5.001	13	12.4	0.702	0.996	0.1819	
180 minute winter	11	5.000	5.000:50%	0.0	0.000	0.000	0.0482	
180 minute winter	11	5.000	12	4.6	0.813	0.144	0.2858	

**Results for 100 year +40% CC 180 minute winter. 420 minute analysis at 4 minute timestep. Mass balance: 99.99%**

Node Event	US Node	Peak (mins)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
180 minute winter	2	104	0.032	3.0	0.0359	0.0000	OK
180 minute winter	1.001:50%	104	0.051	7.5	0.0330	0.0000	OK
180 minute winter	1	4	0.000	0.0	0.0000	0.0000	OK
180 minute winter	1.000:50%	104	0.030	3.0	0.0048	0.0000	OK
180 minute winter	14	116	0.452	73.0	0.5116	0.0000	SURCHARGED
180 minute winter	1.006:50%	116	0.369	80.9	2.4446	0.0000	SURCHARGED
180 minute winter	20	112	0.251	124.0	0.2843	0.0000	OK
180 minute winter	1.009:50%	112	0.258	134.9	0.0356	0.0000	OK
180 minute winter	19	112	0.201	118.4	0.2874	0.0000	OK
180 minute winter	1.008:50%	112	0.212	124.0	0.0000	0.0000	OK
180 minute winter	22	116	0.012	0.1	0.0131	0.0000	OK
180 minute winter	7.000:50%	116	0.232	12.7	0.0000	0.0000	SURCHARGED
180 minute winter	23	116	0.437	12.6	0.4942	0.0000	SURCHARGED
180 minute winter	7.001:50%	116	0.474	26.8	0.0000	0.0000	SURCHARGED
180 minute winter	28_OUT	132	0.997	55.3	1.1278	0.0000	OK
180 minute winter	30_OUT	4	0.000	33.8	0.0000	0.0000	OK
180 minute winter	21	112	0.328	134.9	0.4692	0.0000	OK
180 minute winter	21_OUT	120	1.060	143.9	1.5163	0.0000	OK
180 minute winter	3	104	0.056	7.5	0.0638	0.0000	OK
180 minute winter	1.002:50%	112	0.193	13.6	0.0000	0.0000	SURCHARGED
180 minute winter	6	112	0.362	37.6	0.4100	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
180 minute winter	2	1.001	1.001:50%	3.0	0.770	0.098	0.1398	
180 minute winter	2	1.001	3	7.5	1.330	0.244	0.1989	
180 minute winter	1	1.000	1.000:50%	0.0	0.000	0.000	0.0162	
180 minute winter	1	1.000	2	3.0	1.142	0.089	0.0335	
180 minute winter	14	1.006	1.006:50%	73.1	1.839	1.034	0.6990	
180 minute winter	14	1.006	18	80.7	2.029	1.142	0.6919	
180 minute winter	20	1.009	1.009:50%	124.0	1.952	0.853	0.6278	
180 minute winter	20	1.009	21	134.9	2.223	0.928	0.5962	
180 minute winter	19	1.008	1.008:50%	118.4	2.301	0.667	0.5036	
180 minute winter	19	1.008	20	124.0	2.134	0.699	0.5666	
180 minute winter	22	7.000	7.000:50%	-0.1	-0.013	-0.006	0.1224	
180 minute winter	22	7.000	23	12.6	1.208	0.551	0.2365	
180 minute winter	23	7.001	7.001:50%	12.0	0.419	0.548	0.5075	
180 minute winter	23	7.001	24	26.4	0.847	1.201	0.5075	
180 minute winter	28_OUT	Flow through pond	29	117.1	0.127	0.002	722.9904	
180 minute winter	21	1.010	21_OUT	135.0	1.237	1.178	1.3558	
180 minute winter	21_OUT	Flow through pond	29	117.1	0.127	0.002	722.9904	
180 minute winter	3	1.002	1.002:50%	7.5	0.946	0.302	0.1376	
180 minute winter	3	1.002	4	13.3	1.016	0.536	0.2052	
180 minute winter	6	1.004	1.004:50%	37.6	1.562	1.065	0.3820	

**Results for 100 year +40% CC 180 minute winter. 420 minute analysis at 4 minute timestep. Mass balance: 99.99%**

Node Event	US Node	Peak (mins)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
180 minute winter	1.004:50%	112	0.275	39.6	0.0000	0.0000	SURCHARGED
180 minute winter	4	112	0.370	13.3	0.4189	0.0000	SURCHARGED
180 minute winter	1.003:50%	112	0.372	18.6	2.3363	0.0000	SURCHARGED
180 minute winter	5	4	0.000	0.0	0.0000	0.0000	OK
180 minute winter	2.000:50%	104	0.084	20.4	0.2636	0.0000	OK
180 minute winter	30	184	0.536	33.8	1.8563	0.0000	SURCHARGED
180 minute winter	29	180	0.982	117.1	1.1111	0.0000	SURCHARGED
180 minute winter	25	4	0.000	0.0	0.0000	0.0000	OK
180 minute winter	8.000:50%	104	0.031	2.5	0.0000	0.0000	OK
180 minute winter	24	116	0.447	26.4	0.5053	0.0000	SURCHARGED

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	1.004	13	39.6	1.645	1.122	0.3771	693.8
180 minute winter	4	1.003	1.003:50%	13.2	0.547	0.773	0.0821	
180 minute winter	4	1.003	6	19.3	0.802	1.134	0.0821	
180 minute winter	5	2.000	2.000:50%	0.0	0.000	0.000	0.1320	
180 minute winter	5	2.000	6	20.4	2.023	0.587	0.3237	
180 minute winter	30	Hydro-Brake®	30_OUT	33.8				
180 minute winter	29	9.000	30	33.8	1.919	2.724	0.2607	
180 minute winter	25	8.000	8.000:50%	0.0	0.000	0.000	0.0172	
180 minute winter	25	8.000	26	2.5	0.943	0.094	0.0341	
180 minute winter	24	7.002	26	26.1	0.962	1.160	0.1498	

**Results for 100 year +40% CC 240 minute summer. 480 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
240 minute summer	26	144	0.389	28.5	0.4398	0.0000	SURCHARGED
240 minute summer	7.003:50%	144	0.401	42.0	0.0000	0.0000	SURCHARGED
240 minute summer	27	144	0.378	41.5	0.4280	0.0000	SURCHARGED
240 minute summer	7.004:50%	148	0.655	59.7	7.7827	0.0000	SURCHARGED
240 minute summer	28	152	0.913	54.4	1.0324	0.0000	SURCHARGED
240 minute summer	15	140	0.068	0.1	0.0764	0.0000	OK
240 minute summer	6.000:50%	140	0.124	11.3	0.0000	0.0000	OK
240 minute summer	16	140	0.140	11.1	0.1585	0.0000	OK
240 minute summer	6.001:50%	136	0.555	33.2	0.0000	0.0000	SURCHARGED
240 minute summer	17	136	0.104	33.2	0.1172	0.0000	OK
240 minute summer	6.002:50%	136	0.110	35.0	0.2219	0.0000	OK
240 minute summer	18	140	0.254	113.2	0.2870	0.0000	OK
240 minute summer	1.007:50%	140	0.241	115.6	0.9068	0.0000	OK
240 minute summer	7	4	0.000	0.0	0.0000	0.0000	OK
240 minute summer	3.000:50%	136	0.062	9.3	0.0000	0.0000	OK
240 minute summer	8	136	0.063	9.3	0.0712	0.0000	OK
240 minute summer	9	4	0.000	0.0	0.0000	0.0000	OK
240 minute summer	4.000:50%	136	0.052	7.9	0.0986	0.0000	OK
240 minute summer	10	136	0.080	17.2	0.0902	0.0000	OK
240 minute summer	3.002:50%	140	0.120	30.3	0.0000	0.0000	OK
240 minute summer	13	144	0.518	71.5	0.5862	0.0000	SURCHARGED
240 minute summer	12	144	0.386	4.5	0.4361	0.0000	SURCHARGED
240 minute summer	5.001:50%	144	0.430	5.1	2.6902	0.0000	SURCHARGED
240 minute summer	11	4	0.000	0.0	0.0000	0.0000	OK
240 minute summer	5.000:50%	136	0.038	4.5	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
240 minute summer	26	7.003	7.003:50%	27.9	0.705	0.811	0.8020	
240 minute summer	26	7.003	27	41.5	1.255	1.205	0.8020	
240 minute summer	27	7.004	7.004:50%	41.2	1.338	0.497	1.2084	
240 minute summer	27	7.004	28	54.4	1.114	0.657	1.2084	
240 minute summer	28	7.005	28_OUT	54.2	0.770	1.092	1.1066	
240 minute summer	15	6.000	6.000:50%	0.2	0.020	0.015	0.1345	
240 minute summer	15	6.000	16	11.1	1.045	0.896	0.1889	
240 minute summer	16	6.001	6.001:50%	11.3	0.727	0.424	0.3898	
240 minute summer	16	6.001	17	33.2	1.995	1.246	0.3434	
240 minute summer	17	6.002	6.002:50%	33.2	2.482	0.715	0.0666	
240 minute summer	17	6.002	18	35.0	2.675	0.754	0.0662	
240 minute summer	18	1.007	1.007:50%	113.2	1.822	0.855	0.3745	
240 minute summer	18	1.007	19	115.5	2.098	0.873	0.3307	
240 minute summer	7	3.000	3.000:50%	0.0	0.000	0.000	0.0401	
240 minute summer	7	3.000	8	9.3	1.342	0.344	0.0810	
240 minute summer	8	3.001	10	9.3	1.127	0.368	0.2638	
240 minute summer	9	4.000	4.000:50%	0.0	0.000	0.000	0.0286	
240 minute summer	9	4.000	10	7.9	1.067	0.255	0.0794	
240 minute summer	10	3.002	3.002:50%	17.2	1.395	0.554	0.3797	
240 minute summer	10	3.002	13	30.3	1.973	0.977	0.5056	
240 minute summer	13	1.005	14	71.4	2.281	0.963	0.1170	
240 minute summer	12	5.001	5.001:50%	4.3	0.511	0.347	0.1819	
240 minute summer	12	5.001	13	8.9	0.633	0.719	0.1819	
240 minute summer	11	5.000	5.000:50%	0.0	0.000	0.000	0.0475	
240 minute summer	11	5.000	12	4.5	0.827	0.141	0.2850	

**Results for 100 year +40% CC 240 minute summer. 480 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
240 minute summer	2	136	0.031	2.9	0.0353	0.0000	OK
240 minute summer	1.001:50%	136	0.050	7.2	0.0317	0.0000	OK
240 minute summer	1	4	0.000	0.0	0.0000	0.0000	OK
240 minute summer	1.000:50%	136	0.030	2.9	0.0046	0.0000	OK
240 minute summer	14	144	0.411	71.4	0.4650	0.0000	SURCHARGED
240 minute summer	1.006:50%	144	0.347	79.0	2.1562	0.0000	SURCHARGED
240 minute summer	20	140	0.245	121.1	0.2769	0.0000	OK
240 minute summer	1.009:50%	140	0.252	131.9	0.0339	0.0000	OK
240 minute summer	19	140	0.197	115.5	0.2818	0.0000	OK
240 minute summer	1.008:50%	140	0.207	121.1	0.0000	0.0000	OK
240 minute summer	22	4	0.000	0.0	0.0000	0.0000	OK
240 minute summer	7.000:50%	144	0.120	12.4	0.0000	0.0000	OK
240 minute summer	23	144	0.345	12.4	0.3903	0.0000	SURCHARGED
240 minute summer	7.001:50%	144	0.383	26.6	0.0000	0.0000	SURCHARGED
240 minute summer	28_OUT	160	0.910	54.2	1.0288	0.0000	OK
240 minute summer	30_OUT	4	0.000	33.3	0.0000	0.0000	OK
240 minute summer	21	140	0.323	131.9	0.4628	0.0000	OK
240 minute summer	21_OUT	148	0.971	140.0	1.3889	0.0000	OK
240 minute summer	3	136	0.055	7.2	0.0625	0.0000	OK
240 minute summer	1.002:50%	140	0.142	13.2	0.0000	0.0000	OK
240 minute summer	6	140	0.322	36.7	0.3647	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
240 minute summer	2	1.001	1.001:50%	2.9	0.761	0.095	0.1361	
240 minute summer	2	1.001	3	7.2	1.315	0.235	0.1933	
240 minute summer	1	1.000	1.000:50%	0.0	0.000	0.000	0.0158	
240 minute summer	1	1.000	2	2.9	1.130	0.086	0.0327	
240 minute summer	14	1.006	1.006:50%	71.4	1.803	1.010	0.6990	
240 minute summer	14	1.006	18	78.8	1.993	1.114	0.6919	
240 minute summer	20	1.009	1.009:50%	121.1	1.948	0.833	0.6143	
240 minute summer	20	1.009	21	131.9	2.217	0.907	0.5845	
240 minute summer	19	1.008	1.008:50%	115.5	2.296	0.651	0.4919	
240 minute summer	19	1.008	20	121.1	2.133	0.682	0.5531	
240 minute summer	22	7.000	7.000:50%	0.0	0.000	0.000	0.1015	
240 minute summer	22	7.000	23	12.4	1.226	0.542	0.2197	
240 minute summer	23	7.001	7.001:50%	11.9	0.419	0.540	0.5075	
240 minute summer	23	7.001	24	26.4	0.843	1.199	0.5075	
240 minute summer	28_OUT	Flow through pond	29	113.7	0.112	0.002	626.0795	
240 minute summer	21	1.010	21_OUT	131.9	1.227	1.151	1.3358	
240 minute summer	21_OUT	Flow through pond	29	113.7	0.112	0.002	626.0795	
240 minute summer	3	1.002	1.002:50%	7.2	0.946	0.291	0.1343	
240 minute summer	3	1.002	4	13.0	1.012	0.524	0.2031	
240 minute summer	6	1.004	1.004:50%	36.6	1.545	1.037	0.3820	

**Results for 100 year +40% CC 240 minute summer. 480 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
240 minute summer	1.004:50%	140	0.254	38.5	0.0000	0.0000	SURCHARGED
240 minute summer	4	140	0.327	13.0	0.3704	0.0000	SURCHARGED
240 minute summer	1.003:50%	140	0.330	18.0	1.8365	0.0000	SURCHARGED
240 minute summer	5	4	0.000	0.0	0.0000	0.0000	OK
240 minute summer	2.000:50%	136	0.083	19.9	0.2558	0.0000	OK
240 minute summer	30	204	0.463	33.3	1.6033	0.0000	SURCHARGED
240 minute summer	29	200	0.892	113.7	1.0089	0.0000	SURCHARGED
240 minute summer	25	4	0.000	0.0	0.0000	0.0000	OK
240 minute summer	8.000:50%	132	0.031	2.4	0.0000	0.0000	OK
240 minute summer	24	144	0.359	26.4	0.4056	0.0000	SURCHARGED

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	1.004	13	38.5	1.619	1.091	0.3766	743.4
240 minute summer	4	1.003	1.003:50%	12.7	0.533	0.748	0.0821	
240 minute summer	4	1.003	6	18.8	0.822	1.106	0.0821	
240 minute summer	5	2.000	2.000:50%	0.0	0.000	0.000	0.1296	
240 minute summer	5	2.000	6	19.9	2.012	0.574	0.2560	
240 minute summer	30	Hydro-Brake®	30_OUT	33.3				
240 minute summer	29	9.000	30	33.3	1.894	2.689	0.2607	
240 minute summer	25	8.000	8.000:50%	0.0	0.000	0.000	0.0167	
240 minute summer	25	8.000	26	2.4	0.932	0.090	0.0332	
240 minute summer	24	7.002	26	26.1	0.970	1.159	0.1498	

**Results for 100 year +40% CC 240 minute winter. 480 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
240 minute winter	26	152	0.313	24.8	0.3539	0.0000	SURCHARGED
240 minute winter	7.003:50%	152	0.335	36.5	0.0000	0.0000	SURCHARGED
240 minute winter	27	152	0.335	36.1	0.3794	0.0000	SURCHARGED
240 minute winter	7.004:50%	156	0.638	50.5	7.3917	0.0000	SURCHARGED
240 minute winter	28	172	0.961	47.1	1.0866	0.0000	SURCHARGED
240 minute winter	15	136	0.039	0.0	0.0443	0.0000	OK
240 minute winter	6.000:50%	136	0.096	9.6	0.0000	0.0000	OK
240 minute winter	16	136	0.062	9.6	0.0704	0.0000	OK
240 minute winter	6.001:50%	136	0.331	28.7	0.0000	0.0000	SURCHARGED
240 minute winter	17	136	0.093	28.7	0.1051	0.0000	OK
240 minute winter	6.002:50%	136	0.099	30.2	0.1779	0.0000	OK
240 minute winter	18	136	0.230	101.4	0.2603	0.0000	OK
240 minute winter	1.007:50%	136	0.221	103.4	0.7635	0.0000	OK
240 minute winter	7	4	0.000	0.0	0.0000	0.0000	OK
240 minute winter	3.000:50%	136	0.057	7.9	0.0000	0.0000	OK
240 minute winter	8	136	0.058	7.9	0.0651	0.0000	OK
240 minute winter	9	4	0.000	0.0	0.0000	0.0000	OK
240 minute winter	4.000:50%	136	0.047	6.7	0.0830	0.0000	OK
240 minute winter	10	136	0.072	14.6	0.0819	0.0000	OK
240 minute winter	3.002:50%	136	0.107	25.7	0.0000	0.0000	OK
240 minute winter	13	136	0.252	64.6	0.2856	0.0000	SURCHARGED
240 minute winter	12	136	0.112	3.8	0.1266	0.0000	OK
240 minute winter	5.001:50%	136	0.159	4.7	0.3696	0.0000	SURCHARGED
240 minute winter	11	4	0.000	0.0	0.0000	0.0000	OK
240 minute winter	5.000:50%	132	0.035	3.8	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
240 minute winter	26	7.003	7.003:50%	24.6	0.681	0.713	0.8020	
240 minute winter	26	7.003	27	36.1	1.224	1.047	0.8020	
240 minute winter	27	7.004	7.004:50%	34.9	1.313	0.421	1.2084	
240 minute winter	27	7.004	28	47.1	1.131	0.568	1.2084	
240 minute winter	28	7.005	28_OUT	46.9	0.666	0.944	1.1066	
240 minute winter	15	6.000	6.000:50%	0.0	-0.011	-0.002	0.0899	
240 minute winter	15	6.000	16	9.6	1.018	0.773	0.1087	
240 minute winter	16	6.001	6.001:50%	9.6	0.732	0.361	0.2751	
240 minute winter	16	6.001	17	28.7	1.876	1.077	0.3263	
240 minute winter	17	6.002	6.002:50%	28.7	2.417	0.618	0.0589	
240 minute winter	17	6.002	18	30.2	2.618	0.650	0.0571	
240 minute winter	18	1.007	1.007:50%	101.3	1.783	0.766	0.3427	
240 minute winter	18	1.007	19	103.4	2.060	0.781	0.3020	
240 minute winter	7	3.000	3.000:50%	0.0	0.000	0.000	0.0354	
240 minute winter	7	3.000	8	7.9	1.286	0.292	0.0717	
240 minute winter	8	3.001	10	7.9	1.081	0.313	0.2336	
240 minute winter	9	4.000	4.000:50%	0.0	0.000	0.000	0.0254	
240 minute winter	9	4.000	10	6.7	1.023	0.216	0.0703	
240 minute winter	10	3.002	3.002:50%	14.6	1.332	0.471	0.3392	
240 minute winter	10	3.002	13	25.7	1.944	0.828	0.4113	
240 minute winter	13	1.005	14	64.5	2.136	0.871	0.1077	
240 minute winter	12	5.001	5.001:50%	3.9	0.525	0.316	0.1638	
240 minute winter	12	5.001	13	5.2	0.470	0.415	0.1819	
240 minute winter	11	5.000	5.000:50%	0.0	0.000	0.000	0.0421	
240 minute winter	11	5.000	12	3.8	0.818	0.119	0.2324	

**Results for 100 year +40% CC 240 minute winter. 480 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
240 minute winter	2	136	0.029	2.5	0.0328	0.0000	OK
240 minute winter	1.001:50%	136	0.046	6.2	0.0271	0.0000	OK
240 minute winter	1	4	0.000	0.0	0.0000	0.0000	OK
240 minute winter	1.000:50%	136	0.028	2.5	0.0040	0.0000	OK
240 minute winter	14	136	0.182	64.5	0.2055	0.0000	OK
240 minute winter	1.006:50%	136	0.206	71.3	0.7622	0.0000	OK
240 minute winter	20	136	0.220	108.3	0.2489	0.0000	OK
240 minute winter	1.009:50%	136	0.227	117.8	0.0277	0.0000	OK
240 minute winter	19	136	0.181	103.4	0.2593	0.0000	OK
240 minute winter	1.008:50%	136	0.188	108.3	0.0000	0.0000	OK
240 minute winter	22	4	0.000	0.0	0.0000	0.0000	OK
240 minute winter	7.000:50%	132	0.072	10.5	0.0000	0.0000	OK
240 minute winter	23	148	0.229	10.5	0.2595	0.0000	SURCHARGED
240 minute winter	7.001:50%	148	0.273	22.9	0.0000	0.0000	SURCHARGED
240 minute winter	28_OUT	204	0.984	46.9	1.1124	0.0000	OK
240 minute winter	30_OUT	4	0.000	33.8	0.0000	0.0000	OK
240 minute winter	21	136	0.303	117.7	0.4330	0.0000	OK
240 minute winter	21_OUT	152	0.959	125.8	1.3726	0.0000	OK
240 minute winter	3	136	0.051	6.2	0.0578	0.0000	OK
240 minute winter	1.002:50%	136	0.071	11.3	0.0000	0.0000	OK
240 minute winter	6	136	0.140	32.7	0.1588	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	2	1.001	1.001:50%	2.5	0.730	0.082	0.1223	
240 minute winter	2	1.001	3	6.2	1.262	0.202	0.1736	
240 minute winter	1	1.000	1.000:50%	0.0	0.000	0.000	0.0143	
240 minute winter	1	1.000	2	2.5	1.082	0.074	0.0294	
240 minute winter	14	1.006	1.006:50%	64.5	1.802	0.913	0.6371	
240 minute winter	14	1.006	18	71.2	1.973	1.007	0.6742	
240 minute winter	20	1.009	1.009:50%	108.3	1.922	0.745	0.5552	
240 minute winter	20	1.009	21	117.7	2.182	0.810	0.5310	
240 minute winter	19	1.008	1.008:50%	103.4	2.273	0.582	0.4440	
240 minute winter	19	1.008	20	108.3	2.121	0.610	0.4971	
240 minute winter	22	7.000	7.000:50%	0.0	0.000	0.000	0.0565	
240 minute winter	22	7.000	23	10.5	1.216	0.460	0.1718	
240 minute winter	23	7.001	7.001:50%	10.5	0.420	0.476	0.5075	
240 minute winter	23	7.001	24	22.8	0.812	1.037	0.5075	
240 minute winter	28_OUT	Flow through pond	29	103.7	0.111	0.002	717.5026	
240 minute winter	21	1.010	21_OUT	117.7	1.180	1.027	1.2412	
240 minute winter	21_OUT	Flow through pond	29	103.7	0.111	0.002	717.5026	
240 minute winter	3	1.002	1.002:50%	6.2	0.921	0.250	0.0787	
240 minute winter	3	1.002	4	11.3	1.012	0.456	0.1335	
240 minute winter	6	1.004	1.004:50%	32.7	1.546	0.926	0.3363	

**Results for 100 year +40% CC 240 minute winter. 480 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
240 minute winter	1.004:50%	136	0.148	34.4	0.0000	0.0000	OK
240 minute winter	4	136	0.142	11.3	0.1602	0.0000	OK
240 minute winter	1.003:50%	136	0.147	15.8	0.3646	0.0000	OK
240 minute winter	5	4	0.000	0.0	0.0000	0.0000	OK
240 minute winter	2.000:50%	136	0.075	16.9	0.2094	0.0000	OK
240 minute winter	30	224	0.532	33.8	1.8418	0.0000	SURCHARGED
240 minute winter	29	220	0.977	103.7	1.1054	0.0000	SURCHARGED
240 minute winter	25	4	0.000	0.0	0.0000	0.0000	OK
240 minute winter	8.000:50%	136	0.029	2.1	0.0000	0.0000	OK
240 minute winter	24	148	0.271	22.8	0.3064	0.0000	SURCHARGED

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	1.004	13	34.4	1.637	0.974	0.3545	779.9
240 minute winter	4	1.003	1.003:50%	11.3	0.533	0.664	0.0723	
240 minute winter	4	1.003	6	15.8	0.748	0.928	0.0720	
240 minute winter	5	2.000	2.000:50%	0.0	0.000	0.000	0.1143	
240 minute winter	5	2.000	6	16.9	1.935	0.487	0.2261	
240 minute winter	30	Hydro-Brake®	30_OUT	33.8				
240 minute winter	29	9.000	30	33.8	1.919	2.723	0.2607	
240 minute winter	25	8.000	8.000:50%	0.0	0.000	0.000	0.0152	
240 minute winter	25	8.000	26	2.1	0.896	0.079	0.0302	
240 minute winter	24	7.002	26	22.7	0.924	1.007	0.1498	

**Results for 100 year +40% CC 360 minute summer. 600 minute analysis at 8 minute timestep. Mass balance: 99.98%**

Node Event	US Node	Peak (mins)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
360 minute summer	26	208	0.167	22.8	0.1884	0.0000	OK
360 minute summer	7.003:50%	208	0.188	33.5	0.0000	0.0000	OK
360 minute summer	27	216	0.179	33.2	0.2030	0.0000	OK
360 minute summer	7.004:50%	216	0.510	47.3	4.7226	0.0000	SURCHARGED
360 minute summer	28	256	0.850	44.4	0.9618	0.0000	SURCHARGED
360 minute summer	15	200	0.034	0.0	0.0381	0.0000	OK
360 minute summer	6.000:50%	200	0.091	8.7	0.0000	0.0000	OK
360 minute summer	16	200	0.059	8.7	0.0667	0.0000	OK
360 minute summer	6.001:50%	200	0.135	26.0	0.0000	0.0000	OK
360 minute summer	17	200	0.087	26.0	0.0982	0.0000	OK
360 minute summer	6.002:50%	200	0.092	27.4	0.1550	0.0000	OK
360 minute summer	18	200	0.213	91.8	0.2408	0.0000	OK
360 minute summer	1.007:50%	200	0.206	93.7	0.6631	0.0000	OK
360 minute summer	7	8	0.000	0.0	0.0000	0.0000	OK
360 minute summer	3.000:50%	200	0.053	7.1	0.0000	0.0000	OK
360 minute summer	8	200	0.054	7.1	0.0615	0.0000	OK
360 minute summer	9	8	0.000	0.0	0.0000	0.0000	OK
360 minute summer	4.000:50%	200	0.045	6.0	0.0740	0.0000	OK
360 minute summer	10	200	0.068	13.1	0.0769	0.0000	OK
360 minute summer	3.002:50%	200	0.098	23.1	0.0000	0.0000	OK
360 minute summer	13	200	0.189	58.3	0.2136	0.0000	OK
360 minute summer	12	200	0.054	3.5	0.0613	0.0000	OK
360 minute summer	5.001:50%	200	0.092	4.2	0.1232	0.0000	OK
360 minute summer	11	8	0.000	0.0	0.0000	0.0000	OK
360 minute summer	5.000:50%	200	0.034	3.5	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
360 minute summer	26	7.003	7.003:50%	22.7	0.674	0.659	0.6077	
360 minute summer	26	7.003	27	33.2	1.209	0.964	0.6315	
360 minute summer	27	7.004	7.004:50%	33.1	1.297	0.400	1.0686	
360 minute summer	27	7.004	28	44.4	0.978	0.536	1.2084	
360 minute summer	28	7.005	28_OUT	44.3	0.628	0.891	1.1066	
360 minute summer	15	6.000	6.000:50%	0.0	0.008	0.003	0.0813	
360 minute summer	15	6.000	16	8.7	0.991	0.701	0.1013	
360 minute summer	16	6.001	6.001:50%	8.7	0.736	0.327	0.2598	
360 minute summer	16	6.001	17	26.0	1.878	0.976	0.3063	
360 minute summer	17	6.002	6.002:50%	26.0	2.376	0.560	0.0543	
360 minute summer	17	6.002	18	27.4	2.570	0.591	0.0529	
360 minute summer	18	1.007	1.007:50%	91.8	1.748	0.693	0.3168	
360 minute summer	18	1.007	19	93.7	2.022	0.708	0.2790	
360 minute summer	7	3.000	3.000:50%	0.0	0.000	0.000	0.0327	
360 minute summer	7	3.000	8	7.1	1.250	0.262	0.0663	
360 minute summer	8	3.001	10	7.1	1.052	0.281	0.2158	
360 minute summer	9	4.000	4.000:50%	0.0	0.000	0.000	0.0235	
360 minute summer	9	4.000	10	6.0	0.994	0.193	0.0649	
360 minute summer	10	3.002	3.002:50%	13.1	1.306	0.422	0.3113	
360 minute summer	10	3.002	13	23.1	1.908	0.745	0.3767	
360 minute summer	13	1.005	14	58.3	2.136	0.786	0.1006	
360 minute summer	12	5.001	5.001:50%	3.5	0.512	0.282	0.0881	
360 minute summer	12	5.001	13	4.2	0.468	0.338	0.1464	
360 minute summer	11	5.000	5.000:50%	0.0	0.000	0.000	0.0397	
360 minute summer	11	5.000	12	3.5	0.818	0.110	0.1171	

Results for 100 year +40% CC 360 minute summer. 600 minute analysis at 8 minute timestep. Mass balance: 99.98%

Node Event	US Node	Peak (mins)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
360 minute summer	2	200	0.027	2.2	0.0308	0.0000	OK
360 minute summer	1.001:50%	200	0.043	5.5	0.0240	0.0000	OK
360 minute summer	1	8	0.000	0.0	0.0000	0.0000	OK
360 minute summer	1.000:50%	200	0.026	2.2	0.0035	0.0000	OK
360 minute summer	14	200	0.164	58.3	0.1853	0.0000	OK
360 minute summer	1.006:50%	200	0.179	64.4	0.5752	0.0000	OK
360 minute summer	20	200	0.203	98.1	0.2296	0.0000	OK
360 minute summer	1.009:50%	200	0.211	106.7	0.0237	0.0000	OK
360 minute summer	19	200	0.169	93.7	0.2421	0.0000	OK
360 minute summer	1.008:50%	200	0.175	98.1	0.0000	0.0000	OK
360 minute summer	22	8	0.000	0.0	0.0000	0.0000	OK
360 minute summer	7.000:50%	200	0.070	9.6	0.0000	0.0000	OK
360 minute summer	23	200	0.117	9.6	0.1320	0.0000	OK
360 minute summer	7.001:50%	200	0.160	20.9	0.0000	0.0000	OK
360 minute summer	28_OUT	264	0.880	44.3	0.9953	0.0000	OK
360 minute summer	30_OUT	8	0.000	33.2	0.0000	0.0000	OK
360 minute summer	21	200	0.286	106.7	0.4093	0.0000	OK
360 minute summer	21_OUT	216	0.829	113.5	1.1861	0.0000	OK
360 minute summer	3	200	0.048	5.5	0.0543	0.0000	OK
360 minute summer	1.002:50%	200	0.067	10.1	0.0000	0.0000	OK
360 minute summer	6	200	0.127	29.5	0.1442	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	2	1.001	1.001:50%	2.2	0.702	0.072	0.1121	
360 minute summer	2	1.001	3	5.5	1.220	0.180	0.1592	
360 minute summer	1	1.000	1.000:50%	0.0	0.000	0.000	0.0130	
360 minute summer	1	1.000	2	2.2	1.042	0.065	0.0269	
360 minute summer	14	1.006	1.006:50%	58.3	1.795	0.825	0.5702	
360 minute summer	14	1.006	18	64.4	1.966	0.911	0.5752	
360 minute summer	20	1.009	1.009:50%	98.1	1.894	0.675	0.5103	
360 minute summer	20	1.009	21	106.7	2.144	0.734	0.4901	
360 minute summer	19	1.008	1.008:50%	93.7	2.245	0.528	0.4073	
360 minute summer	19	1.008	20	98.1	2.101	0.553	0.4552	
360 minute summer	22	7.000	7.000:50%	0.0	0.000	0.000	0.0538	
360 minute summer	22	7.000	23	9.6	1.221	0.420	0.1056	
360 minute summer	23	7.001	7.001:50%	9.6	0.422	0.436	0.3719	
360 minute summer	23	7.001	24	20.9	0.795	0.950	0.4261	
360 minute summer	28_OUT	Flow through pond	29	95.3	0.099	0.002	607.1626	
360 minute summer	21	1.010	21_OUT	106.7	1.142	0.931	1.1633	
360 minute summer	21_OUT	Flow through pond	29	95.3	0.099	0.002	607.1626	
360 minute summer	3	1.002	1.002:50%	5.5	0.890	0.222	0.0723	
360 minute summer	3	1.002	4	10.1	1.014	0.408	0.1189	
360 minute summer	6	1.004	1.004:50%	29.5	1.537	0.835	0.3043	

**Results for 100 year +40% CC 360 minute summer. 600 minute analysis at 8 minute timestep. Mass balance: 99.98%**

Node Event	US Node	Peak (mins)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
360 minute summer	1.004:50%	200	0.133	31.0	0.0000	0.0000	OK
360 minute summer	4	200	0.128	10.1	0.1444	0.0000	OK
360 minute summer	1.003:50%	200	0.134	14.2	0.3012	0.0000	OK
360 minute summer	5	8	0.000	0.0	0.0000	0.0000	OK
360 minute summer	2.000:50%	200	0.071	15.3	0.1862	0.0000	OK
360 minute summer	30	272	0.449	33.2	1.5556	0.0000	SURCHARGED
360 minute summer	29	272	0.874	95.3	0.9880	0.0000	SURCHARGED
360 minute summer	25	8	0.000	0.0	0.0000	0.0000	OK
360 minute summer	8.000:50%	200	0.027	1.9	0.0000	0.0000	OK
360 minute summer	24	200	0.153	20.9	0.1728	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	1.004	13	31.0	1.624	0.878	0.3026	884.3
360 minute summer	4	1.003	1.003:50%	10.1	0.525	0.593	0.0656	
360 minute summer	4	1.003	6	14.2	0.738	0.834	0.0655	
360 minute summer	5	2.000	2.000:50%	0.0	0.000	0.000	0.1060	
360 minute summer	5	2.000	6	15.3	1.888	0.441	0.2098	
360 minute summer	30	Hydro-Brake®	30_OUT	33.2				
360 minute summer	29	9.000	30	33.2	1.887	2.679	0.2607	
360 minute summer	25	8.000	8.000:50%	0.0	0.000	0.000	0.0142	
360 minute summer	25	8.000	26	1.9	0.870	0.071	0.0281	
360 minute summer	24	7.002	26	20.9	0.903	0.928	0.1104	

**Results for 100 year +40% CC 360 minute winter. 600 minute analysis at 8 minute timestep. Mass balance: 99.99%**

Node Event	US Node	Peak (mins)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
360 minute winter	26	216	0.141	18.5	0.1592	0.0000	OK
360 minute winter	7.003:50%	224	0.166	27.3	0.0000	0.0000	OK
360 minute winter	27	240	0.189	27.3	0.2140	0.0000	OK
360 minute winter	7.004:50%	248	0.537	39.0	5.2231	0.0000	SURCHARGED
360 minute winter	28	280	0.929	37.1	1.0509	0.0000	SURCHARGED
360 minute winter	15	200	0.024	0.0	0.0268	0.0000	OK
360 minute winter	6.000:50%	200	0.081	7.1	0.0000	0.0000	OK
360 minute winter	16	200	0.053	7.1	0.0598	0.0000	OK
360 minute winter	6.001:50%	200	0.110	21.3	0.0000	0.0000	OK
360 minute winter	17	200	0.076	21.3	0.0862	0.0000	OK
360 minute winter	6.002:50%	200	0.080	22.4	0.1183	0.0000	OK
360 minute winter	18	200	0.184	75.1	0.2085	0.0000	OK
360 minute winter	1.007:50%	200	0.180	76.6	0.5073	0.0000	OK
360 minute winter	7	8	0.000	0.0	0.0000	0.0000	OK
360 minute winter	3.000:50%	200	0.048	5.8	0.0000	0.0000	OK
360 minute winter	8	200	0.049	5.8	0.0553	0.0000	OK
360 minute winter	9	8	0.000	0.0	0.0000	0.0000	OK
360 minute winter	4.000:50%	200	0.040	4.9	0.0602	0.0000	OK
360 minute winter	10	200	0.061	10.7	0.0687	0.0000	OK
360 minute winter	3.002:50%	200	0.086	18.9	0.0000	0.0000	OK
360 minute winter	13	200	0.154	47.7	0.1741	0.0000	OK
360 minute winter	12	192	0.049	2.8	0.0550	0.0000	OK
360 minute winter	5.001:50%	200	0.057	3.4	0.0470	0.0000	OK
360 minute winter	11	8	0.000	0.0	0.0000	0.0000	OK
360 minute winter	5.000:50%	200	0.030	2.8	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
360 minute winter	26	7.003	7.003:50%	18.5	0.640	0.537	0.5116	
360 minute winter	26	7.003	27	27.3	1.142	0.792	0.6037	
360 minute winter	27	7.004	7.004:50%	27.3	1.261	0.329	1.0951	
360 minute winter	27	7.004	28	37.1	1.036	0.447	1.2084	
360 minute winter	28	7.005	28_OUT	36.9	0.525	0.744	1.1066	
360 minute winter	15	6.000	6.000:50%	0.0	-0.006	-0.001	0.0660	
360 minute winter	15	6.000	16	7.1	0.937	0.572	0.0877	
360 minute winter	16	6.001	6.001:50%	7.1	0.727	0.267	0.2176	
360 minute winter	16	6.001	17	21.3	1.854	0.800	0.2563	
360 minute winter	17	6.002	6.002:50%	21.3	2.292	0.459	0.0461	
360 minute winter	17	6.002	18	22.4	2.463	0.483	0.0451	
360 minute winter	18	1.007	1.007:50%	75.1	1.677	0.567	0.2701	
360 minute winter	18	1.007	19	76.6	1.941	0.579	0.2379	
360 minute winter	7	3.000	3.000:50%	0.0	0.000	0.000	0.0282	
360 minute winter	7	3.000	8	5.8	1.183	0.214	0.0572	
360 minute winter	8	3.001	10	5.8	0.996	0.229	0.1862	
360 minute winter	9	4.000	4.000:50%	0.0	0.000	0.000	0.0203	
360 minute winter	9	4.000	10	4.9	0.941	0.158	0.0560	
360 minute winter	10	3.002	3.002:50%	10.7	1.250	0.345	0.2665	
360 minute winter	10	3.002	13	18.9	1.829	0.609	0.3215	
360 minute winter	13	1.005	14	47.7	2.119	0.643	0.0837	
360 minute winter	12	5.001	5.001:50%	2.8	0.521	0.226	0.0571	
360 minute winter	12	5.001	13	3.4	0.475	0.274	0.0989	
360 minute winter	11	5.000	5.000:50%	0.0	0.000	0.000	0.0339	
360 minute winter	11	5.000	12	2.8	0.761	0.088	0.1006	

**Results for 100 year +40% CC 360 minute winter. 600 minute analysis at 8 minute timestep. Mass balance: 99.99%**

Node Event	US Node	Peak (mins)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
360 minute winter	2	192	0.025	1.8	0.0280	0.0000	OK
360 minute winter	1.001:50%	200	0.039	4.5	0.0195	0.0000	OK
360 minute winter	1	8	0.000	0.0	0.0000	0.0000	OK
360 minute winter	1.000:50%	192	0.024	1.8	0.0029	0.0000	OK
360 minute winter	14	200	0.140	47.7	0.1588	0.0000	OK
360 minute winter	1.006:50%	200	0.152	52.7	0.4130	0.0000	OK
360 minute winter	20	200	0.175	80.2	0.1982	0.0000	OK
360 minute winter	1.009:50%	200	0.183	87.2	0.0179	0.0000	OK
360 minute winter	19	200	0.148	76.6	0.2123	0.0000	OK
360 minute winter	1.008:50%	200	0.152	80.2	0.0000	0.0000	OK
360 minute winter	22	8	0.000	0.0	0.0000	0.0000	OK
360 minute winter	7.000:50%	200	0.062	7.8	0.0000	0.0000	OK
360 minute winter	23	200	0.093	7.8	0.1053	0.0000	OK
360 minute winter	7.001:50%	200	0.136	17.0	0.0000	0.0000	OK
360 minute winter	28_OUT	280	0.959	36.9	1.0842	0.0000	OK
360 minute winter	30_OUT	8	0.000	33.7	0.0000	0.0000	OK
360 minute winter	21	200	0.256	87.2	0.3658	0.0000	OK
360 minute winter	21_OUT	272	0.895	93.1	1.2808	0.0000	OK
360 minute winter	3	200	0.043	4.5	0.0489	0.0000	OK
360 minute winter	1.002:50%	200	0.060	8.3	0.0000	0.0000	OK
360 minute winter	6	200	0.109	24.1	0.1238	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	2	1.001	1.001:50%	1.8	0.668	0.059	0.0972	
360 minute winter	2	1.001	3	4.5	1.152	0.147	0.1379	
360 minute winter	1	1.000	1.000:50%	0.0	0.000	0.000	0.0113	
360 minute winter	1	1.000	2	1.8	0.983	0.054	0.0233	
360 minute winter	14	1.006	1.006:50%	47.7	1.749	0.675	0.4792	
360 minute winter	14	1.006	18	52.7	1.909	0.745	0.4853	
360 minute winter	20	1.009	1.009:50%	80.2	1.831	0.552	0.4317	
360 minute winter	20	1.009	21	87.2	2.057	0.600	0.4176	
360 minute winter	19	1.008	1.008:50%	76.6	2.172	0.432	0.3441	
360 minute winter	19	1.008	20	80.2	2.042	0.452	0.3832	
360 minute winter	22	7.000	7.000:50%	0.0	0.000	0.000	0.0460	
360 minute winter	22	7.000	23	7.8	1.158	0.342	0.0905	
360 minute winter	23	7.001	7.001:50%	7.8	0.422	0.354	0.3001	
360 minute winter	23	7.001	24	17.0	0.755	0.773	0.3653	
360 minute winter	28_OUT	Flow through pond	29	81.5	0.087	0.001	689.5703	
360 minute winter	21	1.010	21_OUT	87.2	1.069	0.761	1.0165	
360 minute winter	21_OUT	Flow through pond	29	81.5	0.087	0.001	689.5703	
360 minute winter	3	1.002	1.002:50%	4.5	0.842	0.182	0.0626	
360 minute winter	3	1.002	4	8.3	1.015	0.335	0.0969	
360 minute winter	6	1.004	1.004:50%	24.1	1.488	0.682	0.2568	

**Results for 100 year +40% CC 360 minute winter. 600 minute analysis at 8 minute timestep. Mass balance: 99.99%**

Node Event	US Node	Peak (mins)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
360 minute winter	1.004:50%	200	0.114	25.4	0.0000	0.0000	OK
360 minute winter	4	200	0.109	8.3	0.1228	0.0000	OK
360 minute winter	1.003:50%	200	0.115	11.6	0.2221	0.0000	OK
360 minute winter	5	8	0.000	0.0	0.0000	0.0000	OK
360 minute winter	2.000:50%	200	0.063	12.5	0.1477	0.0000	OK
360 minute winter	30	296	0.510	33.7	1.7672	0.0000	SURCHARGED
360 minute winter	29	288	0.952	81.5	1.0766	0.0000	SURCHARGED
360 minute winter	25	8	0.000	0.0	0.0000	0.0000	OK
360 minute winter	8.000:50%	192	0.024	1.5	0.0000	0.0000	OK
360 minute winter	24	200	0.134	17.0	0.1516	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	1.004	13	25.4	1.571	0.719	0.2564	935.6
360 minute winter	4	1.003	1.003:50%	8.3	0.513	0.488	0.0551	
360 minute winter	4	1.003	6	11.6	0.714	0.681	0.0554	
360 minute winter	5	2.000	2.000:50%	0.0	0.000	0.000	0.0911	
360 minute winter	5	2.000	6	12.5	1.793	0.360	0.1805	
360 minute winter	30	Hydro-Brake®	30_OUT	33.7				
360 minute winter	29	9.000	30	33.7	1.912	2.715	0.2607	
360 minute winter	25	8.000	8.000:50%	0.0	0.000	0.000	0.0120	
360 minute winter	25	8.000	26	1.5	0.812	0.056	0.0238	
360 minute winter	24	7.002	26	17.0	0.843	0.755	0.0964	