

Design Settings

Rainfall Methodology	FSR	Maximum Time of Concentration (mins)	30.00
Return Period (years)	100	Maximum Rainfall (mm/hr)	50.0
Additional Flow (%)	40	Minimum Velocity (m/s)	1.00
FSR Region	England and Wales	Connection Type	Level Inverts
M5-60 (mm)	20.000	Minimum Backdrop Height (m)	0.200
Ratio-R	0.400	Preferred Cover Depth (m)	0.500
CV	1.000	Include Intermediate Ground	x
Time of Entry (mins)	1.00	Enforce best practice design rules	✓

Adoptable Manhole Type

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

>900 Link+900 mm

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

Circular Default Sewer Type Link Type

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

Available Diameters (mm)

100 | 150

Nodes

Name	Area (ha)	T of E (mins)	Cover Level (m)	Diameter (mm)	Easting (m)	Northing (m)	Depth (m)
1			6.700	450	76614.248	76044.520	1.400
2	0.025	1.00	6.700	450	76676.103	76009.873	1.200
3		1.00	6.700	450	76690.541	76001.812	0.960
4			6.380	1200	76689.970	76018.640	0.720
5		1.00	6.380		76699.630	76028.740	0.530
6	0.002	1.00	6.380		76683.570	76023.630	0.280
7			6.380	450	76688.350	76018.670	0.327
8	0.003	1.00	6.380	450	76695.970	76026.790	0.401
9	0.007		6.380		76695.730	76032.330	0.530
10		1.00	6.380		76690.700	76030.790	0.280
11	0.007	1.00	6.400		76684.790	76025.250	0.200
12			6.300	450	76674.480	76031.750	0.192
13	0.008	1.00	6.300	450	76669.140	76036.830	0.241
14	0.010	1.00	6.300	450	76674.020	76041.850	0.330
15	0.007		6.380		76679.190	76046.450	0.530
16	0.005	1.00	6.380	450	76682.230	76040.890	0.400
17	0.007		6.380		76683.470	76043.050	0.530
18		1.00	6.380	450	76707.690	76032.470	0.380
19	0.007		6.380	450	76702.210	76037.600	0.530

Links

Name	US Node	DS Node	Length (m)	ks (mm) / n	US IL (m)	DS IL (m)	Fall (m)	Slope (1:X)	Dia (mm)	T of C (mins)	Rain (mm/hr)
1.000	2	1	70.898	0.600	5.500	5.300	0.200	354.5	150	3.86	50.0
1.001	3	2	16.536	0.600	5.740	5.500	0.240	68.9	100	1.30	50.0
1.002	4	2	16.406	0.600	5.660	5.500	0.160	102.5	100	1.62	50.0
1.003	5	4	13.976	0.600	5.850	5.660	0.190	73.6	100	1.26	50.0
1.004	6	7	6.888	0.600	6.100	6.059	0.041	168.0	100	1.19	50.0
1.005	7	8	11.135	0.600	6.053	5.979	0.074	150.5	150	1.42	50.0
1.006	8	9	5.545	0.600	5.979	5.850	0.129	43.0	150	1.48	50.0
1.007	10	8	6.616	0.600	6.100	5.979	0.121	54.7	100	1.11	50.0
1.008	12	13	7.370	0.600	6.108	6.059	0.049	150.4	150	1.46	50.0
1.009	13	14	7.001	0.600	6.059	5.970	0.089	78.7	150	1.56	50.0
1.010	14	15	6.920	0.600	5.970	5.850	0.120	57.7	150	1.65	50.0
1.011	16	17	2.491	0.600	5.980	5.850	0.130	19.2	150	1.02	50.0
1.012	18	19	7.506	0.600	6.000	5.850	0.150	50.0	150	1.09	50.0
1.013	11	12	12.188	0.600	6.200	6.108	0.092	132.5	100	1.30	50.0

Name	Vel (m/s)	Cap (l/s)	Flow (l/s)	US Depth (m)	DS Depth (m)	Σ Area (ha)	Σ Add Inflow (l/s)	Pro Depth (mm)	Pro Velocity (m/s)
1.000	0.528	9.3	6.3	1.050	1.250	0.025	0.0	91	0.567
1.001	0.929	7.3	0.0	0.860	1.100	0.000	0.0	0	0.000
1.002	0.759	6.0	0.0	0.620	1.100	0.000	0.0	0	0.000
1.003	0.898	7.1	0.0	0.430	0.620	0.000	0.0	0	0.000
1.004	0.590	4.6	0.5	0.180	0.221	0.002	0.0	22	0.383
1.005	0.817	14.4	0.5	0.177	0.251	0.002	0.0	19	0.377
1.006	1.539	27.2	1.3	0.251	0.380	0.005	0.0	22	0.784
1.007	1.044	8.2	0.0	0.180	0.301	0.000	0.0	0	0.000
1.008	0.817	14.4	1.8	0.042	0.091	0.007	0.0	35	0.555
1.009	1.134	20.0	3.8	0.091	0.180	0.015	0.0	44	0.875
1.010	1.327	23.4	6.3	0.180	0.380	0.025	0.0	53	1.127
1.011	2.311	40.8	1.3	0.250	0.380	0.005	0.0	18	1.035
1.012	1.425	25.2	0.0	0.230	0.380	0.000	0.0	0	0.000
1.013	0.666	5.2	1.8	0.100	0.092	0.007	0.0	40	0.603

Pipeline Schedule

Link	Length (m)	Slope (1:X)	Dia (mm)	Link Type	US CL (m)	US IL (m)	US Depth (m)	DS CL (m)	DS IL (m)	DS Depth (m)
1.000	70.898	354.5	150	Circular_Default Sewer Type	6.700	5.500	1.050	6.700	5.300	1.250
1.001	16.536	68.9	100	Circular_Default Sewer Type	6.700	5.740	0.860	6.700	5.500	1.100
1.002	16.406	102.5	100	Circular_Default Sewer Type	6.380	5.660	0.620	6.700	5.500	1.100
1.003	13.976	73.6	100	Circular_Default Sewer Type	6.380	5.850	0.430	6.380	5.660	0.620
1.004	6.888	168.0	100	Circular_Default Sewer Type	6.380	6.100	0.180	6.380	6.059	0.221
1.005	11.135	150.5	150	Circular_Default Sewer Type	6.380	6.053	0.177	6.380	5.979	0.251

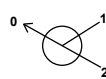
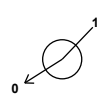
Link	US Node	Dia (mm)	Node Type	MH Type	DS Node	Dia (mm)	Node Type	MH Type
1.000	2	450	Manhole	Adoptable	1	450	Manhole	Adoptable
1.001	3	450	Manhole	Adoptable	2	450	Manhole	Adoptable
1.002	4	1200	Manhole	Adoptable	2	450	Manhole	Adoptable
1.003	5		Junction		4	1200	Manhole	Adoptable
1.004	6		Junction		7	450	Manhole	Adoptable
1.005	7	450	Manhole	Adoptable	8	450	Manhole	Adoptable

Pipeline Schedule

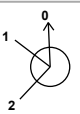
Link	Length (m)	Slope (1:X)	Dia (mm)	Link Type	US CL (m)	US IL (m)	US Depth (m)	DS CL (m)	DS IL (m)	DS Depth (m)
1.006	5.545	43.0	150	Circular_Default Sewer Type	6.380	5.979	0.251	6.380	5.850	0.380
1.007	6.616	54.7	100	Circular_Default Sewer Type	6.380	6.100	0.180	6.380	5.979	0.301
1.008	7.370	150.4	150	Circular_Default Sewer Type	6.300	6.108	0.042	6.300	6.059	0.091
1.009	7.001	78.7	150	Circular_Default Sewer Type	6.300	6.059	0.091	6.300	5.970	0.180
1.010	6.920	57.7	150	Circular_Default Sewer Type	6.300	5.970	0.180	6.380	5.850	0.380
1.011	2.491	19.2	150	Circular_Default Sewer Type	6.380	5.980	0.250	6.380	5.850	0.380
1.012	7.506	50.0	150	Circular_Default Sewer Type	6.380	6.000	0.230	6.380	5.850	0.380
1.013	12.188	132.5	100	Circular_Default Sewer Type	6.400	6.200	0.100	6.300	6.108	0.092

Link	US Node	Dia (mm)	Node Type	MH Type	DS Node	Dia (mm)	Node Type	MH Type
1.006	8	450	Manhole	Adoptable	9		Junction	
1.007	10		Junction		8	450	Manhole	Adoptable
1.008	12	450	Manhole	Adoptable	13	450	Manhole	Adoptable
1.009	13	450	Manhole	Adoptable	14	450	Manhole	Adoptable
1.010	14	450	Manhole	Adoptable	15		Junction	
1.011	16	450	Manhole	Adoptable	17		Junction	
1.012	18	450	Manhole	Adoptable	19	450	Manhole	Adoptable
1.013	11		Junction		12	450	Manhole	Adoptable

Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)	
1	76614.248	76044.520	6.700	1.400	450		1	1.000	5.300	150
2	76676.103	76009.873	6.700	1.200	450		1 2 0	1.002 1.001 1.000	5.500 5.500 5.500	100 100 150
3	76690.541	76001.812	6.700	0.960	450		0	1.001	5.740	100
4	76689.970	76018.640	6.380	0.720	1200		1 0	1.003 1.002	5.660 5.660	100 100
5	76699.630	76028.740	6.380	0.530			0	1.003	5.850	100
6	76683.570	76023.630	6.380	0.280			0	1.004	6.100	100
7	76688.350	76018.670	6.380	0.327	450		1 0	1.004 1.005	6.059 6.053	100 150

Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)	
8	76695.970	76026.790	6.380	0.401	450		1	1.007	5.979	100
							2	1.005	5.979	150
							0	1.006	5.979	150
9	76695.730	76032.330	6.380	0.530			1	1.006	5.850	150
10	76690.700	76030.790	6.380	0.280			0	1.007	6.100	100
11	76684.790	76025.250	6.400	0.200			0	1.013	6.200	100
12	76674.480	76031.750	6.300	0.192	450		1	1.013	6.108	100
13	76669.140	76036.830	6.300	0.241	450		0	1.008	6.108	150
13	76669.140	76036.830	6.300	0.241	450		1	1.008	6.059	150
14	76674.020	76041.850	6.300	0.330	450		0	1.009	6.059	150
14	76674.020	76041.850	6.300	0.330	450		1	1.009	5.970	150
15	76679.190	76046.450	6.380	0.530			0	1.010	5.970	150
15	76679.190	76046.450	6.380	0.530			1	1.010	5.850	150
16	76682.230	76040.890	6.380	0.400	450			0	1.011	5.980
17	76683.470	76043.050	6.380	0.530			1	1.011	5.850	150
18	76707.690	76032.470	6.380	0.380	450			0	1.012	6.000
19	76702.210	76037.600	6.380	0.530	450		1	1.012	5.850	150

Simulation Settings

Rainfall Methodology	FSR	Drain Down Time (mins)	240
FSR Region	England and Wales	Additional Storage (m³/ha)	20.0
M5-60 (mm)	20.000	Check Discharge Rate(s)	✓
Ratio-R	0.400	30 year (l/s)	1.6
Summer CV	0.500	100 year (l/s)	2.1
Winter CV	0.840	Check Discharge Volume	✓
Analysis Speed	Normal	100 year 360 minute (m³)	48
Skip Steady State	✓		

Storm Durations

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

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

Pre-development Discharge Rate

Site Makeup	Greenfield	Growth Factor 30 year	2.40
Greenfield Method	IH124	Growth Factor 100 year	3.19
Positively Drained Area (ha)	0.196	Betterment (%)	0
SAAR (mm)	703	QBar	0.7
Soil Index	3	Q 30 year (l/s)	1.6
SPR	0.40	Q 100 year (l/s)	2.1
Region	7		

Pre-development Discharge Volume

Site Makeup	Greenfield	Return Period (years)	100
Greenfield Method	FSR/FEH	Climate Change (%)	0
Positively Drained Area (ha)	0.196	Storm Duration (mins)	360
Soil Index	3	Betterment (%)	0
SPR	0.40	PR	0.391
CWI	105.630	Runoff Volume (m³)	48

Node 4 Online Hydro-Brake® Control

Flap Valve	x	Objective	(HE) Minimise upstream storage
Replaces Downstream Link	x	Sump Available	✓
Invert Level (m)	5.660	Product Number	CTL-SHE-0028-4000-1040-4000
Design Depth (m)	1.040	Min Outlet Diameter (m)	0.075
Design Flow (l/s)	0.4	Min Node Diameter (mm)	1200

Node 5 Flow through Pond Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Porosity	0.95	Main Channel Length (m)	47.000
Side Inf Coefficient (m/hr)	0.00000	Invert Level (m)	5.850	Main Channel Slope (1:X)	1000.0
Safety Factor	2.0	Time to half empty (mins)	0	Main Channel n	0.100

Inlets

15 | 17 | 19 | 9

Depth (m)	Area (m ²)	Inf Area (m ²)	Depth (m)	Area (m ²)	Inf Area (m ²)	Depth (m)	Area (m ²)	Inf Area (m ²)	Depth (m)	Area (m ²)	Inf Area (m ²)
0.000	487.0	0.0	0.400	487.0	0.0	0.410	0.0	0.0	0.550	0.0	0.0

Other (defaults)

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

Rainfall

Event	Peak Intensity (mm/hr)	Average Intensity (mm/hr)	Event	Peak Intensity (mm/hr)	Average Intensity (mm/hr)
30 year 15 minute summer	268.706	76.035	100 year +40% CC 15 minute summer	488.233	138.153
30 year 15 minute winter	188.566	76.035	100 year +40% CC 15 minute winter	342.620	138.153
30 year 30 minute summer	174.929	49.499	100 year +40% CC 30 minute summer	320.551	90.705
30 year 30 minute winter	122.757	49.499	100 year +40% CC 30 minute winter	224.948	90.705
30 year 60 minute summer	116.589	30.811	100 year +40% CC 60 minute summer	214.603	56.713
30 year 60 minute winter	77.459	30.811	100 year +40% CC 60 minute winter	142.577	56.713
30 year 120 minute summer	70.438	18.615	100 year +40% CC 120 minute summer	129.587	34.246
30 year 120 minute winter	46.797	18.615	100 year +40% CC 120 minute winter	86.094	34.246
30 year 180 minute summer	53.298	13.715	100 year +40% CC 180 minute summer	97.729	25.149
30 year 180 minute winter	34.645	13.715	100 year +40% CC 180 minute winter	63.526	25.149
30 year 240 minute summer	41.604	10.995	100 year +40% CC 240 minute summer	75.977	20.078
30 year 240 minute winter	27.641	10.995	100 year +40% CC 240 minute winter	50.477	20.078
30 year 360 minute summer	31.221	8.034	100 year +40% CC 360 minute summer	56.677	14.585
30 year 360 minute winter	20.295	8.034	100 year +40% CC 360 minute winter	36.841	14.585
30 year 480 minute summer	24.324	6.428	100 year +40% CC 480 minute summer	43.979	11.622
30 year 480 minute winter	16.160	6.428	100 year +40% CC 480 minute winter	29.219	11.622
30 year 600 minute summer	19.756	5.404	100 year +40% CC 600 minute summer	35.604	9.738
30 year 600 minute winter	13.498	5.404	100 year +40% CC 600 minute winter	24.327	9.738
30 year 720 minute summer	17.490	4.687	100 year +40% CC 720 minute summer	31.433	8.424
30 year 720 minute winter	11.754	4.687	100 year +40% CC 720 minute winter	21.125	8.424
30 year 960 minute summer	14.215	3.743	100 year +40% CC 960 minute summer	25.432	6.697
30 year 960 minute winter	9.416	3.743	100 year +40% CC 960 minute winter	16.847	6.697
30 year 1440 minute summer	10.161	2.723	100 year +40% CC 1440 minute summer	18.055	4.839
30 year 1440 minute winter	6.829	2.723	100 year +40% CC 1440 minute winter	12.134	4.839

Results for 30 year Critical Storm Duration. Lowest mass balance: 98.70%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	1	9	5.389	0.089	9.4	0.0000	0.0000	OK
15 minute winter	2	9	5.637	0.137	11.0	0.0789	0.0000	OK
15 minute summer	3	1	5.740	0.000	0.0	0.0000	0.0000	OK
360 minute winter	4	344	5.921	0.261	0.5	0.2950	0.0000	SURCHARGED
360 minute winter	5	344	5.921	0.071	2.7	0.0000	0.0000	OK
15 minute winter	6	8	6.129	0.029	0.9	0.0042	0.0000	OK
15 minute winter	7	9	6.078	0.025	0.8	0.0039	0.0000	OK
15 minute winter	8	9	6.006	0.027	2.1	0.0085	0.0000	OK
30 minute winter	9	21	5.935	0.085	3.5	0.0225	0.0000	OK
15 minute summer	10	1	6.100	0.000	0.0	0.0000	0.0000	OK
15 minute winter	11	8	6.256	0.056	3.1	0.0390	0.0000	OK
15 minute winter	12	9	6.155	0.047	3.0	0.0075	0.0000	OK
15 minute winter	13	8	6.121	0.062	6.3	0.0510	0.0000	OK
15 minute winter	14	8	6.044	0.074	10.5	0.0563	0.0000	OK
30 minute winter	15	19	5.939	0.089	9.1	0.0235	0.0000	OK
15 minute winter	16	8	6.004	0.024	2.2	0.0096	0.0000	OK
30 minute winter	17	21	5.935	0.085	3.4	0.0224	0.0000	OK
15 minute summer	18	1	6.000	0.000	0.0	0.0000	0.0000	OK
30 minute winter	19	21	5.934	0.084	2.0	0.0356	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute winter	2	1.000	1	9.4	0.658	1.005	0.9856	7.4
15 minute summer	3	1.001	2	0.0	0.000	0.000	0.0647	
360 minute winter	4	1.002	2	0.3	0.300	0.043	0.0310	
360 minute winter	5	1.003	4	0.5	0.163	0.071	0.0962	
15 minute winter	6	1.004	7	0.8	0.448	0.181	0.0130	
15 minute winter	7	1.005	8	0.8	0.414	0.059	0.0228	
15 minute winter	8	1.006	9	2.0	0.391	0.073	0.0318	
30 minute winter	9	Flow through pond	5	7.9	0.032	0.019	12.3512	
15 minute summer	10	1.007	8	0.0	0.000	0.000	0.0045	
15 minute winter	11	1.013	12	3.0	0.744	0.570	0.0489	
15 minute winter	12	1.008	13	2.9	0.512	0.202	0.0423	
15 minute winter	13	1.009	14	6.1	0.806	0.305	0.0541	
15 minute winter	14	1.010	15	10.3	1.119	0.437	0.0654	
30 minute winter	15	Flow through pond	5	7.9	0.032	0.019	12.3512	
15 minute winter	16	1.011	17	2.2	0.456	0.053	0.0134	
30 minute winter	17	Flow through pond	5	7.9	0.032	0.019	12.3512	
15 minute summer	18	1.012	19	0.0	0.000	0.000	0.0293	
30 minute winter	19	Flow through pond	5	7.9	0.032	0.019	12.3512	

Results for 100 year +40% CC Critical Storm Duration. Lowest mass balance: 98.70%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	1	10	5.408	0.108	13.5	0.0000	0.0000	OK
15 minute winter	2	10	5.806	0.306	20.0	0.1763	0.0000	SURCHARGED
15 minute winter	3	10	5.822	0.082	1.7	0.0130	0.0000	OK
720 minute winter	4	690	5.971	0.311	0.4	0.3517	0.0000	SURCHARGED
720 minute winter	5	690	5.971	0.121	2.5	0.0000	0.0000	SURCHARGED
15 minute winter	6	8	6.140	0.040	1.6	0.0058	0.0000	OK
15 minute winter	7	9	6.086	0.033	1.5	0.0053	0.0000	OK
15 minute winter	8	8	6.016	0.037	3.8	0.0116	0.0000	OK
720 minute winter	9	690	5.971	0.121	0.5	0.0320	0.0000	OK
15 minute summer	10	1	6.100	0.000	0.0	0.0000	0.0000	OK
15 minute winter	11	8	6.285	0.085	5.6	0.0593	0.0000	OK
15 minute winter	12	9	6.176	0.068	5.3	0.0107	0.0000	OK
15 minute winter	13	8	6.151	0.092	11.4	0.0757	0.0000	OK
15 minute winter	14	8	6.080	0.110	19.1	0.0844	0.0000	OK
720 minute winter	15	690	5.971	0.121	1.5	0.0321	0.0000	OK
15 minute winter	16	8	6.012	0.032	4.0	0.0129	0.0000	OK
720 minute winter	17	690	5.971	0.121	0.5	0.0320	0.0000	OK
15 minute summer	18	1	6.000	0.000	0.0	0.0000	0.0000	OK
720 minute winter	19	690	5.971	0.121	0.3	0.0513	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute winter	2	1.000	1	13.5	0.804	1.449	1.1051	10.5
15 minute winter	3	1.001	2	-1.7	-0.258	-0.234	0.1215	
720 minute winter	4	1.002	2	0.3	0.301	0.043	0.0305	
720 minute winter	5	1.003	4	0.4	0.154	0.055	0.1094	
15 minute winter	6	1.004	7	1.5	0.524	0.326	0.0199	
15 minute winter	7	1.005	8	1.5	0.482	0.105	0.0349	
15 minute winter	8	1.006	9	3.7	0.517	0.136	0.0446	
720 minute winter	9	Flow through pond	5	2.5	0.012	0.006	45.2074	
15 minute summer	10	1.007	8	0.0	0.000	0.000	0.0071	
15 minute winter	11	1.013	12	5.3	0.836	1.012	0.0766	
15 minute winter	12	1.008	13	5.3	0.560	0.364	0.0693	
15 minute winter	13	1.009	14	11.1	0.887	0.554	0.0882	
15 minute winter	14	1.010	15	18.6	1.348	0.794	0.0987	
720 minute winter	15	Flow through pond	5	2.5	0.012	0.006	45.2074	
15 minute winter	16	1.011	17	4.0	0.585	0.097	0.0187	
720 minute winter	17	Flow through pond	5	2.5	0.012	0.006	45.2074	
15 minute summer	18	1.012	19	0.0	0.000	0.000	0.0372	
720 minute winter	19	Flow through pond	5	2.5	0.012	0.006	45.2074	

Results for 30 year 15 minute summer. 255 minute analysis at 1 minute timestep. Mass balance: 98.70%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	1	9	5.376	0.076	6.8	0.0000	0.0000	OK
15 minute summer	2	9	5.602	0.102	9.2	0.0588	0.0000	OK
15 minute summer	3	1	5.740	0.000	0.0	0.0000	0.0000	OK
15 minute summer	4	61	5.868	0.208	0.4	0.2357	0.0000	SURCHARGED
15 minute summer	5	79	5.868	0.018	2.4	0.0000	0.0000	OK
15 minute summer	6	8	6.124	0.024	0.7	0.0035	0.0000	OK
15 minute summer	7	9	6.074	0.021	0.6	0.0033	0.0000	OK
15 minute summer	8	9	6.002	0.023	1.5	0.0071	0.0000	OK
15 minute summer	9	14	5.919	0.069	3.9	0.0181	0.0000	OK
15 minute summer	10	1	6.100	0.000	0.0	0.0000	0.0000	OK
15 minute summer	11	8	6.249	0.049	2.6	0.0341	0.0000	OK
15 minute summer	12	9	6.148	0.040	2.3	0.0064	0.0000	OK
15 minute summer	13	8	6.111	0.052	5.0	0.0431	0.0000	OK
15 minute summer	14	8	6.032	0.062	8.2	0.0478	0.0000	OK
15 minute summer	15	9	5.923	0.073	10.3	0.0193	0.0000	OK
15 minute summer	16	8	6.002	0.022	1.9	0.0089	0.0000	OK
15 minute summer	17	14	5.919	0.069	4.4	0.0181	0.0000	OK
15 minute summer	18	1	6.000	0.000	0.0	0.0000	0.0000	OK
15 minute summer	19	14	5.918	0.068	3.4	0.0289	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	1.000	1	6.8	0.626	0.729	0.7685	5.6
15 minute summer	3	1.001	2	0.0	0.000	0.000	0.0647	
15 minute summer	4	1.002	2	0.3	0.318	0.043	0.0642	
15 minute summer	5	1.003	4	0.4	0.293	0.063	0.0611	
15 minute summer	6	1.004	7	0.6	0.406	0.125	0.0099	
15 minute summer	7	1.005	8	0.6	0.374	0.041	0.0175	
15 minute summer	8	1.006	9	1.4	0.323	0.051	0.0252	
15 minute summer	9	Flow through pond	5	2.4	0.020	0.006	5.7939	
15 minute summer	10	1.007	8	0.0	0.000	0.000	0.0045	
15 minute summer	11	1.013	12	2.3	0.713	0.442	0.0396	
15 minute summer	12	1.008	13	2.2	0.494	0.152	0.0330	
15 minute summer	13	1.009	14	4.5	0.771	0.225	0.0434	
15 minute summer	14	1.010	15	7.7	1.024	0.327	0.0519	
15 minute summer	15	Flow through pond	5	2.4	0.020	0.006	5.7939	
15 minute summer	16	1.011	17	1.8	0.450	0.045	0.0107	
15 minute summer	17	Flow through pond	5	2.4	0.020	0.006	5.7939	
15 minute summer	18	1.012	19	0.0	0.000	0.000	0.0293	
15 minute summer	19	Flow through pond	5	2.4	0.020	0.006	5.7939	

Results for 30 year 15 minute winter. 255 minute analysis at 1 minute timestep. Mass balance: 99.79%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	1	9	5.389	0.089	9.4	0.0000	0.0000	OK
15 minute winter	2	9	5.637	0.137	11.0	0.0789	0.0000	OK
15 minute winter	3	1	5.740	0.000	0.0	0.0000	0.0000	OK
15 minute winter	4	82	5.884	0.224	1.0	0.2530	0.0000	SURCHARGED
15 minute winter	5	83	5.884	0.034	5.9	0.0000	0.0000	OK
15 minute winter	6	8	6.129	0.029	0.9	0.0042	0.0000	OK
15 minute winter	7	9	6.078	0.025	0.8	0.0039	0.0000	OK
15 minute winter	8	9	6.006	0.027	2.1	0.0085	0.0000	OK
15 minute winter	9	12	5.932	0.082	5.1	0.0215	0.0000	OK
15 minute winter	10	1	6.100	0.000	0.0	0.0000	0.0000	OK
15 minute winter	11	8	6.256	0.056	3.1	0.0390	0.0000	OK
15 minute winter	12	9	6.155	0.047	3.0	0.0075	0.0000	OK
15 minute winter	13	8	6.121	0.062	6.3	0.0510	0.0000	OK
15 minute winter	14	8	6.044	0.074	10.5	0.0563	0.0000	OK
15 minute winter	15	10	5.938	0.088	13.4	0.0232	0.0000	OK
15 minute winter	16	8	6.004	0.024	2.2	0.0096	0.0000	OK
15 minute winter	17	13	5.931	0.081	5.3	0.0215	0.0000	OK
15 minute winter	18	1	6.000	0.000	0.0	0.0000	0.0000	OK
15 minute winter	19	13	5.931	0.081	3.1	0.0342	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	1.000	1	9.4	0.658	1.005	0.9856	7.4
15 minute winter	3	1.001	2	0.0	0.000	0.000	0.0647	
15 minute winter	4	1.002	2	0.3	0.323	0.043	0.0642	
15 minute winter	5	1.003	4	1.0	0.370	0.136	0.0710	
15 minute winter	6	1.004	7	0.8	0.448	0.181	0.0130	
15 minute winter	7	1.005	8	0.8	0.414	0.059	0.0228	
15 minute winter	8	1.006	9	2.0	0.391	0.073	0.0318	
15 minute winter	9	Flow through pond	5	5.9	0.029	0.014	9.6998	
15 minute winter	10	1.007	8	0.0	0.000	0.000	0.0058	
15 minute winter	11	1.013	12	3.0	0.744	0.570	0.0489	
15 minute winter	12	1.008	13	2.9	0.512	0.202	0.0423	
15 minute winter	13	1.009	14	6.1	0.806	0.305	0.0541	
15 minute winter	14	1.010	15	10.3	1.119	0.437	0.0654	
15 minute winter	15	Flow through pond	5	5.9	0.029	0.014	9.6998	
15 minute winter	16	1.011	17	2.2	0.456	0.053	0.0134	
15 minute winter	17	Flow through pond	5	5.9	0.029	0.014	9.6998	
15 minute winter	18	1.012	19	0.0	0.000	0.000	0.0363	
15 minute winter	19	Flow through pond	5	5.9	0.029	0.014	9.6998	

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

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
30 minute summer	1	17	5.367	0.067	5.4	0.0000	0.0000	OK
30 minute summer	2	16	5.587	0.087	6.1	0.0500	0.0000	OK
30 minute summer	3	1	5.740	0.000	0.0	0.0000	0.0000	OK
30 minute summer	4	90	5.875	0.215	0.7	0.2427	0.0000	SURCHARGED
30 minute summer	5	90	5.875	0.025	3.5	0.0000	0.0000	OK
30 minute summer	6	16	6.122	0.022	0.5	0.0032	0.0000	OK
30 minute summer	7	17	6.072	0.019	0.5	0.0030	0.0000	OK
30 minute summer	8	16	6.000	0.021	1.2	0.0065	0.0000	OK
30 minute summer	9	21	5.922	0.072	2.8	0.0189	0.0000	OK
30 minute summer	10	1	6.100	0.000	0.0	0.0000	0.0000	OK
30 minute summer	11	16	6.240	0.040	1.7	0.0281	0.0000	OK
30 minute summer	12	16	6.143	0.035	1.7	0.0055	0.0000	OK
30 minute summer	13	16	6.104	0.045	3.6	0.0367	0.0000	OK
30 minute summer	14	16	6.023	0.053	5.9	0.0404	0.0000	OK
30 minute summer	15	18	5.924	0.074	7.6	0.0196	0.0000	OK
30 minute summer	16	16	5.998	0.018	1.2	0.0073	0.0000	OK
30 minute summer	17	21	5.922	0.072	2.9	0.0189	0.0000	OK
30 minute summer	18	1	6.000	0.000	0.0	0.0000	0.0000	OK
30 minute summer	19	22	5.921	0.071	1.7	0.0301	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	1.000	1	5.4	0.594	0.574	0.6394	6.5
30 minute summer	3	1.001	2	0.0	0.000	0.000	0.0597	
30 minute summer	4	1.002	2	0.3	0.318	0.043	0.0592	
30 minute summer	5	1.003	4	0.7	0.313	0.096	0.0652	
30 minute summer	6	1.004	7	0.5	0.384	0.106	0.0088	
30 minute summer	7	1.005	8	0.5	0.357	0.033	0.0152	
30 minute summer	8	1.006	9	1.1	0.269	0.042	0.0258	
30 minute summer	9	Flow through pond	5	3.5	0.022	0.008	7.5130	
30 minute summer	10	1.007	8	0.0	0.000	0.000	0.0039	
30 minute summer	11	1.013	12	1.7	0.638	0.325	0.0325	
30 minute summer	12	1.008	13	1.7	0.454	0.115	0.0275	
30 minute summer	13	1.009	14	3.5	0.714	0.176	0.0347	
30 minute summer	14	1.010	15	5.9	0.851	0.251	0.0481	
30 minute summer	15	Flow through pond	5	3.5	0.022	0.008	7.5130	
30 minute summer	16	1.011	17	1.2	0.308	0.029	0.0111	
30 minute summer	17	Flow through pond	5	3.5	0.022	0.008	7.5130	
30 minute summer	18	1.012	19	0.0	0.000	0.000	0.0309	
30 minute summer	19	Flow through pond	5	3.5	0.022	0.008	7.5130	

Results for 30 year 30 minute winter. 270 minute analysis at 1 minute timestep. Mass balance: 99.75%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
30 minute winter	1	17	5.376	0.076	6.9	0.0000	0.0000	OK
30 minute winter	2	17	5.603	0.103	7.2	0.0593	0.0000	OK
30 minute winter	3	1	5.740	0.000	0.0	0.0000	0.0000	OK
30 minute winter	4	94	5.896	0.236	1.2	0.2671	0.0000	SURCHARGED
30 minute winter	5	94	5.896	0.046	7.9	0.0000	0.0000	OK
30 minute winter	6	16	6.124	0.024	0.6	0.0035	0.0000	OK
30 minute winter	7	16	6.073	0.020	0.6	0.0033	0.0000	OK
30 minute winter	8	16	6.003	0.024	1.5	0.0073	0.0000	OK
30 minute winter	9	21	5.935	0.085	3.5	0.0225	0.0000	OK
30 minute winter	10	1	6.100	0.000	0.0	0.0000	0.0000	OK
30 minute winter	11	16	6.244	0.044	2.0	0.0307	0.0000	OK
30 minute winter	12	16	6.146	0.038	2.0	0.0060	0.0000	OK
30 minute winter	13	16	6.109	0.050	4.3	0.0409	0.0000	OK
30 minute winter	14	16	6.029	0.059	7.2	0.0454	0.0000	OK
30 minute winter	15	19	5.939	0.089	9.1	0.0235	0.0000	OK
30 minute winter	16	16	5.999	0.019	1.4	0.0078	0.0000	OK
30 minute winter	17	21	5.935	0.085	3.4	0.0224	0.0000	OK
30 minute winter	18	1	6.000	0.000	0.0	0.0000	0.0000	OK
30 minute winter	19	21	5.934	0.084	2.0	0.0356	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	1.000	1	6.9	0.628	0.738	0.7745	8.7
30 minute winter	3	1.001	2	0.0	0.000	0.000	0.0647	
30 minute winter	4	1.002	2	0.3	0.305	0.043	0.0642	
30 minute winter	5	1.003	4	1.2	0.378	0.176	0.0795	
30 minute winter	6	1.004	7	0.6	0.406	0.128	0.0101	
30 minute winter	7	1.005	8	0.6	0.363	0.040	0.0179	
30 minute winter	8	1.006	9	1.5	0.284	0.054	0.0322	
30 minute winter	9	Flow through pond	5	7.9	0.032	0.019	12.3512	
30 minute winter	10	1.007	8	0.0	0.000	0.000	0.0047	
30 minute winter	11	1.013	12	2.0	0.665	0.382	0.0367	
30 minute winter	12	1.008	13	2.0	0.465	0.138	0.0316	
30 minute winter	13	1.009	14	4.3	0.740	0.213	0.0405	
30 minute winter	14	1.010	15	7.2	0.871	0.305	0.0579	
30 minute winter	15	Flow through pond	5	7.9	0.032	0.019	12.3512	
30 minute winter	16	1.011	17	1.4	0.305	0.034	0.0139	
30 minute winter	17	Flow through pond	5	7.9	0.032	0.019	12.3512	
30 minute winter	18	1.012	19	0.0	0.000	0.000	0.0381	
30 minute winter	19	Flow through pond	5	7.9	0.032	0.019	12.3512	

Results for 30 year 60 minute summer. 300 minute analysis at 1 minute timestep. Mass balance: 99.31%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute summer	1	32	5.355	0.055	3.7	0.0000	0.0000	OK
60 minute summer	2	32	5.570	0.070	4.0	0.0401	0.0000	OK
60 minute summer	3	1	5.740	0.000	0.0	0.0000	0.0000	OK
60 minute summer	4	109	5.881	0.221	0.8	0.2497	0.0000	SURCHARGED
60 minute summer	5	110	5.881	0.031	4.0	0.0000	0.0000	OK
60 minute summer	6	32	6.117	0.017	0.3	0.0025	0.0000	OK
60 minute summer	7	32	6.068	0.015	0.3	0.0024	0.0000	OK
60 minute summer	8	31	5.997	0.018	0.8	0.0054	0.0000	OK
60 minute summer	9	38	5.922	0.072	1.9	0.0191	0.0000	OK
60 minute summer	10	1	6.100	0.000	0.0	0.0000	0.0000	OK
60 minute summer	11	31	6.232	0.032	1.1	0.0223	0.0000	OK
60 minute summer	12	31	6.136	0.028	1.1	0.0044	0.0000	OK
60 minute summer	13	31	6.095	0.036	2.4	0.0296	0.0000	OK
60 minute summer	14	31	6.012	0.042	4.0	0.0320	0.0000	OK
60 minute summer	15	36	5.924	0.074	5.1	0.0196	0.0000	OK
60 minute summer	16	31	5.995	0.015	0.8	0.0060	0.0000	OK
60 minute summer	17	38	5.922	0.072	1.9	0.0191	0.0000	OK
60 minute summer	18	1	6.000	0.000	0.0	0.0000	0.0000	OK
60 minute summer	19	38	5.922	0.072	1.1	0.0304	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	1.000	1	3.7	0.540	0.401	0.4923	7.5
60 minute summer	3	1.001	2	0.0	0.000	0.000	0.0480	
60 minute summer	4	1.002	2	0.3	0.307	0.043	0.0477	
60 minute summer	5	1.003	4	0.8	0.314	0.115	0.0691	
60 minute summer	6	1.004	7	0.3	0.335	0.065	0.0062	
60 minute summer	7	1.005	8	0.3	0.299	0.021	0.0113	
60 minute summer	8	1.006	9	0.8	0.192	0.029	0.0255	
60 minute summer	9	Flow through pond	5	4.0	0.023	0.010	8.6002	
60 minute summer	10	1.007	8	0.0	0.000	0.000	0.0030	
60 minute summer	11	1.013	12	1.1	0.562	0.210	0.0239	
60 minute summer	12	1.008	13	1.1	0.406	0.075	0.0202	
60 minute summer	13	1.009	14	2.4	0.657	0.119	0.0254	
60 minute summer	14	1.010	15	4.0	0.656	0.169	0.0423	
60 minute summer	15	Flow through pond	5	4.0	0.023	0.010	8.6002	
60 minute summer	16	1.011	17	0.8	0.276	0.020	0.0111	
60 minute summer	17	Flow through pond	5	4.0	0.023	0.010	8.6002	
60 minute summer	18	1.012	19	0.0	0.000	0.000	0.0313	
60 minute summer	19	Flow through pond	5	4.0	0.023	0.010	8.6002	

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

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute winter	1	32	5.360	0.060	4.4	0.0000	0.0000	OK
60 minute winter	2	32	5.577	0.077	4.5	0.0444	0.0000	OK
60 minute winter	3	1	5.740	0.000	0.0	0.0000	0.0000	OK
60 minute winter	4	75	5.906	0.246	1.3	0.2785	0.0000	SURCHARGED
60 minute winter	5	75	5.906	0.056	8.8	0.0000	0.0000	OK
60 minute winter	6	32	6.120	0.020	0.4	0.0029	0.0000	OK
60 minute winter	7	32	6.070	0.017	0.4	0.0027	0.0000	OK
60 minute winter	8	32	5.998	0.019	0.9	0.0058	0.0000	OK
60 minute winter	9	37	5.933	0.083	2.2	0.0220	0.0000	OK
60 minute winter	10	1	6.100	0.000	0.0	0.0000	0.0000	OK
60 minute winter	11	31	6.235	0.035	1.3	0.0243	0.0000	OK
60 minute winter	12	31	6.138	0.030	1.3	0.0048	0.0000	OK
60 minute winter	13	31	6.097	0.038	2.7	0.0316	0.0000	OK
60 minute winter	14	32	6.014	0.044	4.5	0.0340	0.0000	OK
60 minute winter	15	36	5.937	0.087	5.8	0.0229	0.0000	OK
60 minute winter	16	31	5.995	0.015	0.9	0.0063	0.0000	OK
60 minute winter	17	37	5.933	0.083	2.2	0.0220	0.0000	OK
60 minute winter	18	1	6.000	0.000	0.0	0.0000	0.0000	OK
60 minute winter	19	37	5.932	0.082	1.3	0.0349	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	1.000	1	4.4	0.564	0.476	0.5587	10.2
60 minute winter	3	1.001	2	0.0	0.000	0.000	0.0535	
60 minute winter	4	1.002	2	0.3	0.303	0.043	0.0532	
60 minute winter	5	1.003	4	1.3	0.337	0.184	0.0865	
60 minute winter	6	1.004	7	0.4	0.364	0.086	0.0076	
60 minute winter	7	1.005	8	0.4	0.336	0.028	0.0132	
60 minute winter	8	1.006	9	0.9	0.181	0.033	0.0308	
60 minute winter	9	Flow through pond	5	8.8	0.032	0.021	15.3219	
60 minute winter	10	1.007	8	0.0	0.000	0.000	0.0033	
60 minute winter	11	1.013	12	1.3	0.590	0.248	0.0269	
60 minute winter	12	1.008	13	1.3	0.426	0.089	0.0224	
60 minute winter	13	1.009	14	2.7	0.680	0.134	0.0277	
60 minute winter	14	1.010	15	4.5	0.646	0.191	0.0505	
60 minute winter	15	Flow through pond	5	8.8	0.032	0.021	15.3219	
60 minute winter	16	1.011	17	0.9	0.201	0.022	0.0135	
60 minute winter	17	Flow through pond	5	8.8	0.032	0.021	15.3219	
60 minute winter	18	1.012	19	0.0	0.000	0.000	0.0372	
60 minute winter	19	Flow through pond	5	8.8	0.032	0.021	15.3219	

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

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
120 minute summer	1	62	5.343	0.043	2.3	0.0000	0.0000	OK
120 minute summer	2	62	5.554	0.054	2.4	0.0311	0.0000	OK
120 minute summer	3	2	5.740	0.000	0.0	0.0000	0.0000	OK
120 minute summer	4	158	5.890	0.230	0.9	0.2605	0.0000	SURCHARGED
120 minute summer	5	158	5.891	0.041	4.4	0.0000	0.0000	OK
120 minute summer	6	64	6.114	0.014	0.2	0.0020	0.0000	OK
120 minute summer	7	64	6.065	0.012	0.2	0.0020	0.0000	OK
120 minute summer	8	64	5.993	0.014	0.5	0.0044	0.0000	OK
120 minute summer	9	68	5.920	0.070	1.2	0.0185	0.0000	OK
120 minute summer	10	2	6.100	0.000	0.0	0.0000	0.0000	OK
120 minute summer	11	62	6.225	0.025	0.7	0.0176	0.0000	OK
120 minute summer	12	62	6.130	0.022	0.7	0.0036	0.0000	OK
120 minute summer	13	62	6.087	0.028	1.5	0.0232	0.0000	OK
120 minute summer	14	62	6.003	0.033	2.5	0.0253	0.0000	OK
120 minute summer	15	66	5.922	0.072	3.2	0.0190	0.0000	OK
120 minute summer	16	62	5.992	0.012	0.5	0.0048	0.0000	OK
120 minute summer	17	68	5.920	0.070	1.2	0.0185	0.0000	OK
120 minute summer	18	2	6.000	0.000	0.0	0.0000	0.0000	OK
120 minute summer	19	68	5.920	0.070	0.7	0.0295	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	1.000	1	2.3	0.474	0.252	0.3519	8.8
120 minute summer	3	1.001	2	0.0	0.000	0.000	0.0356	
120 minute summer	4	1.002	2	0.3	0.306	0.043	0.0357	
120 minute summer	5	1.003	4	0.9	0.239	0.123	0.0754	
120 minute summer	6	1.004	7	0.2	0.300	0.043	0.0046	
120 minute summer	7	1.005	8	0.2	0.263	0.014	0.0085	
120 minute summer	8	1.006	9	0.5	0.128	0.018	0.0243	
120 minute summer	9	Flow through pond	5	4.4	0.023	0.010	10.6337	
120 minute summer	10	1.007	8	0.0	0.000	0.000	0.0022	
120 minute summer	11	1.013	12	0.7	0.491	0.134	0.0174	
120 minute summer	12	1.008	13	0.7	0.357	0.048	0.0145	
120 minute summer	13	1.009	14	1.5	0.582	0.075	0.0180	
120 minute summer	14	1.010	15	2.5	0.465	0.106	0.0379	
120 minute summer	15	Flow through pond	5	4.4	0.023	0.010	10.6337	
120 minute summer	16	1.011	17	0.5	0.137	0.012	0.0107	
120 minute summer	17	Flow through pond	5	4.4	0.023	0.010	10.6337	
120 minute summer	18	1.012	19	0.0	0.000	0.000	0.0301	
120 minute summer	19	Flow through pond	5	4.4	0.023	0.010	10.6337	

Results for 30 year 120 minute winter. 360 minute analysis at 2 minute timestep. Mass balance: 99.73%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
120 minute winter	1	64	5.348	0.048	2.8	0.0000	0.0000	OK
120 minute winter	2	64	5.560	0.060	2.9	0.0345	0.0000	OK
120 minute winter	3	2	5.740	0.000	0.0	0.0000	0.0000	OK
120 minute winter	4	120	5.912	0.252	1.1	0.2849	0.0000	SURCHARGED
120 minute winter	5	120	5.912	0.062	6.9	0.0000	0.0000	OK
120 minute winter	6	62	6.114	0.014	0.2	0.0020	0.0000	OK
120 minute winter	7	74	6.065	0.012	0.2	0.0020	0.0000	OK
120 minute winter	8	62	5.993	0.014	0.5	0.0044	0.0000	OK
120 minute winter	9	66	5.925	0.075	1.3	0.0197	0.0000	OK
120 minute winter	10	2	6.100	0.000	0.0	0.0000	0.0000	OK
120 minute winter	11	62	6.227	0.027	0.8	0.0189	0.0000	OK
120 minute winter	12	62	6.132	0.024	0.8	0.0038	0.0000	OK
120 minute winter	13	62	6.089	0.030	1.7	0.0248	0.0000	OK
120 minute winter	14	62	6.005	0.035	2.8	0.0268	0.0000	OK
120 minute winter	15	64	5.927	0.077	3.6	0.0204	0.0000	OK
120 minute winter	16	56	5.992	0.012	0.5	0.0048	0.0000	OK
120 minute winter	17	66	5.925	0.075	1.3	0.0197	0.0000	OK
120 minute winter	18	2	6.000	0.000	0.0	0.0000	0.0000	OK
120 minute winter	19	66	5.924	0.074	0.8	0.0314	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
120 minute winter	2	1.000	1	2.8	0.500	0.305	0.4044	12.0
120 minute winter	3	1.001	2	0.0	0.000	0.000	0.0404	
120 minute winter	4	1.002	2	0.3	0.302	0.043	0.0449	
120 minute winter	5	1.003	4	1.1	0.247	0.159	0.0904	
120 minute winter	6	1.004	7	0.2	0.300	0.043	0.0046	
120 minute winter	7	1.005	8	0.2	0.284	0.014	0.0085	
120 minute winter	8	1.006	9	0.5	0.126	0.018	0.0267	
120 minute winter	9	Flow through pond	5	6.9	0.028	0.017	17.8523	
120 minute winter	10	1.007	8	0.0	0.000	0.000	0.0022	
120 minute winter	11	1.013	12	0.8	0.511	0.153	0.0191	
120 minute winter	12	1.008	13	0.8	0.372	0.055	0.0159	
120 minute winter	13	1.009	14	1.7	0.605	0.085	0.0197	
120 minute winter	14	1.010	15	2.8	0.467	0.119	0.0423	
120 minute winter	15	Flow through pond	5	6.9	0.028	0.017	17.8523	
120 minute winter	16	1.011	17	0.5	0.129	0.012	0.0117	
120 minute winter	17	Flow through pond	5	6.9	0.028	0.017	17.8523	
120 minute winter	18	1.012	19	0.0	0.000	0.000	0.0326	
120 minute winter	19	Flow through pond	5	6.9	0.028	0.017	17.8523	

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

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
180 minute summer	1	92	5.338	0.038	1.8	0.0000	0.0000	OK
180 minute summer	2	92	5.547	0.047	1.9	0.0271	0.0000	OK
180 minute summer	3	4	5.740	0.000	0.0	0.0000	0.0000	OK
180 minute summer	4	204	5.892	0.232	0.8	0.2622	0.0000	SURCHARGED
180 minute summer	5	204	5.892	0.042	3.8	0.0000	0.0000	OK
180 minute summer	6	92	6.110	0.010	0.1	0.0015	0.0000	OK
180 minute summer	7	92	6.062	0.009	0.1	0.0014	0.0000	OK
180 minute summer	8	92	5.990	0.011	0.3	0.0035	0.0000	OK
180 minute summer	9	100	5.917	0.067	0.8	0.0176	0.0000	OK
180 minute summer	10	4	6.100	0.000	0.0	0.0000	0.0000	OK
180 minute summer	11	92	6.221	0.021	0.5	0.0147	0.0000	OK
180 minute summer	12	92	6.127	0.019	0.5	0.0030	0.0000	OK
180 minute summer	13	92	6.083	0.024	1.1	0.0194	0.0000	OK
180 minute summer	14	92	5.998	0.028	1.8	0.0212	0.0000	OK
180 minute summer	15	100	5.918	0.068	2.2	0.0180	0.0000	OK
180 minute summer	16	92	5.991	0.011	0.4	0.0043	0.0000	OK
180 minute summer	17	100	5.917	0.067	0.9	0.0176	0.0000	OK
180 minute summer	18	4	6.000	0.000	0.0	0.0000	0.0000	OK
180 minute summer	19	100	5.916	0.066	0.5	0.0281	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	1.000	1	1.8	0.439	0.192	0.2905	9.9
180 minute summer	3	1.001	2	0.0	0.000	0.000	0.0299	
180 minute summer	4	1.002	2	0.3	0.306	0.043	0.0313	
180 minute summer	5	1.003	4	0.8	0.207	0.119	0.0765	
180 minute summer	6	1.004	7	0.1	0.247	0.022	0.0028	
180 minute summer	7	1.005	8	0.1	0.230	0.007	0.0057	
180 minute summer	8	1.006	9	0.3	0.089	0.011	0.0226	
180 minute summer	9	Flow through pond	5	3.8	0.022	0.009	10.8258	
180 minute summer	10	1.007	8	0.0	0.000	0.000	0.0016	
180 minute summer	11	1.013	12	0.5	0.443	0.093	0.0134	
180 minute summer	12	1.008	13	0.5	0.314	0.033	0.0111	
180 minute summer	13	1.009	14	1.1	0.529	0.053	0.0140	
180 minute summer	14	1.010	15	1.7	0.366	0.074	0.0339	
180 minute summer	15	Flow through pond	5	3.8	0.022	0.009	10.8258	
180 minute summer	16	1.011	17	0.4	0.113	0.010	0.0100	
180 minute summer	17	Flow through pond	5	3.8	0.022	0.009	10.8258	
180 minute summer	18	1.012	19	0.0	0.000	0.000	0.0282	
180 minute summer	19	Flow through pond	5	3.8	0.022	0.009	10.8258	

Results for 30 year 180 minute winter. 420 minute analysis at 4 minute timestep. Mass balance: 99.35%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
180 minute winter	1	96	5.343	0.043	2.3	0.0000	0.0000	OK
180 minute winter	2	96	5.553	0.053	2.3	0.0304	0.0000	OK
180 minute winter	3	4	5.740	0.000	0.0	0.0000	0.0000	OK
180 minute winter	4	180	5.914	0.254	1.0	0.2875	0.0000	SURCHARGED
180 minute winter	5	180	5.914	0.064	5.0	0.0000	0.0000	OK
180 minute winter	6	96	6.114	0.014	0.2	0.0020	0.0000	OK
180 minute winter	7	96	6.065	0.012	0.2	0.0020	0.0000	OK
180 minute winter	8	96	5.992	0.013	0.4	0.0040	0.0000	OK
180 minute winter	9	96	5.919	0.069	1.0	0.0183	0.0000	OK
180 minute winter	10	4	6.100	0.000	0.0	0.0000	0.0000	OK
180 minute winter	11	92	6.223	0.023	0.6	0.0163	0.0000	OK
180 minute winter	12	92	6.129	0.021	0.6	0.0033	0.0000	OK
180 minute winter	13	92	6.084	0.025	1.2	0.0207	0.0000	OK
180 minute winter	14	92	6.000	0.030	2.0	0.0227	0.0000	OK
180 minute winter	15	96	5.921	0.071	2.6	0.0188	0.0000	OK
180 minute winter	16	88	5.991	0.011	0.4	0.0043	0.0000	OK
180 minute winter	17	96	5.919	0.069	1.0	0.0183	0.0000	OK
180 minute winter	18	4	6.000	0.000	0.0	0.0000	0.0000	OK
180 minute winter	19	96	5.919	0.069	0.6	0.0291	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	1.000	1	2.3	0.469	0.242	0.3415	13.4
180 minute winter	3	1.001	2	0.0	0.000	0.000	0.0346	
180 minute winter	4	1.002	2	0.3	0.302	0.043	0.0399	
180 minute winter	5	1.003	4	1.0	0.223	0.139	0.0919	
180 minute winter	6	1.004	7	0.2	0.300	0.043	0.0046	
180 minute winter	7	1.005	8	0.2	0.284	0.014	0.0078	
180 minute winter	8	1.006	9	0.4	0.103	0.015	0.0241	
180 minute winter	9	Flow through pond	5	5.0	0.024	0.012	18.8979	
180 minute winter	10	1.007	8	0.0	0.000	0.000	0.0019	
180 minute winter	11	1.013	12	0.6	0.469	0.115	0.0156	
180 minute winter	12	1.008	13	0.6	0.353	0.042	0.0126	
180 minute winter	13	1.009	14	1.2	0.547	0.060	0.0154	
180 minute winter	14	1.010	15	2.0	0.386	0.085	0.0371	
180 minute winter	15	Flow through pond	5	5.0	0.024	0.012	18.8979	
180 minute winter	16	1.011	17	0.4	0.109	0.010	0.0106	
180 minute winter	17	Flow through pond	5	5.0	0.024	0.012	18.8979	
180 minute winter	18	1.012	19	0.0	0.000	0.000	0.0296	
180 minute winter	19	Flow through pond	5	5.0	0.024	0.012	18.8979	

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

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
240 minute summer	1	128	5.334	0.034	1.5	0.0000	0.0000	OK
240 minute summer	2	124	5.542	0.042	1.5	0.0244	0.0000	OK
240 minute summer	3	4	5.740	0.000	0.0	0.0000	0.0000	OK
240 minute summer	4	240	5.894	0.234	0.8	0.2650	0.0000	SURCHARGED
240 minute summer	5	240	5.894	0.044	3.6	0.0000	0.0000	OK
240 minute summer	6	120	6.110	0.010	0.1	0.0015	0.0000	OK
240 minute summer	7	120	6.062	0.009	0.1	0.0014	0.0000	OK
240 minute summer	8	124	5.990	0.011	0.3	0.0035	0.0000	OK
240 minute summer	9	128	5.916	0.066	0.7	0.0173	0.0000	OK
240 minute summer	10	4	6.100	0.000	0.0	0.0000	0.0000	OK
240 minute summer	11	120	6.219	0.019	0.4	0.0133	0.0000	OK
240 minute summer	12	120	6.125	0.017	0.4	0.0027	0.0000	OK
240 minute summer	13	124	6.081	0.022	0.9	0.0179	0.0000	OK
240 minute summer	14	124	5.996	0.026	1.5	0.0197	0.0000	OK
240 minute summer	15	128	5.917	0.067	1.9	0.0176	0.0000	OK
240 minute summer	16	120	5.989	0.009	0.3	0.0038	0.0000	OK
240 minute summer	17	128	5.916	0.066	0.7	0.0173	0.0000	OK
240 minute summer	18	4	6.000	0.000	0.0	0.0000	0.0000	OK
240 minute summer	19	128	5.915	0.065	0.4	0.0276	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	1.000	1	1.5	0.416	0.157	0.2511	10.6
240 minute summer	3	1.001	2	0.0	0.000	0.000	0.0261	
240 minute summer	4	1.002	2	0.3	0.306	0.043	0.0298	
240 minute summer	5	1.003	4	0.8	0.204	0.118	0.0782	
240 minute summer	6	1.004	7	0.1	0.247	0.022	0.0028	
240 minute summer	7	1.005	8	0.1	0.230	0.007	0.0057	
240 minute summer	8	1.006	9	0.3	0.087	0.011	0.0221	
240 minute summer	9	Flow through pond	5	3.6	0.021	0.009	11.3773	
240 minute summer	10	1.007	8	0.0	0.000	0.000	0.0016	
240 minute summer	11	1.013	12	0.4	0.415	0.076	0.0118	
240 minute summer	12	1.008	13	0.4	0.313	0.028	0.0099	
240 minute summer	13	1.009	14	0.9	0.505	0.045	0.0125	
240 minute summer	14	1.010	15	1.5	0.387	0.064	0.0330	
240 minute summer	15	Flow through pond	5	3.6	0.021	0.009	11.3773	
240 minute summer	16	1.011	17	0.3	0.091	0.007	0.0098	
240 minute summer	17	Flow through pond	5	3.6	0.021	0.009	11.3773	
240 minute summer	18	1.012	19	0.0	0.000	0.000	0.0275	
240 minute summer	19	Flow through pond	5	3.6	0.021	0.009	11.3773	

Results for 30 year 240 minute winter. 480 minute analysis at 4 minute timestep. Mass balance: 99.76%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
240 minute winter	1	124	5.338	0.038	1.8	0.0000	0.0000	OK
240 minute winter	2	124	5.548	0.048	1.8	0.0274	0.0000	OK
240 minute winter	3	4	5.740	0.000	0.0	0.0000	0.0000	OK
240 minute winter	4	236	5.918	0.258	0.7	0.2922	0.0000	SURCHARGED
240 minute winter	5	236	5.919	0.069	3.8	0.0000	0.0000	OK
240 minute winter	6	96	6.110	0.010	0.1	0.0015	0.0000	OK
240 minute winter	7	96	6.062	0.009	0.1	0.0014	0.0000	OK
240 minute winter	8	112	5.990	0.011	0.3	0.0035	0.0000	OK
240 minute winter	9	236	5.919	0.069	0.8	0.0181	0.0000	OK
240 minute winter	10	4	6.100	0.000	0.0	0.0000	0.0000	OK
240 minute winter	11	124	6.221	0.021	0.5	0.0149	0.0000	OK
240 minute winter	12	124	6.127	0.019	0.5	0.0030	0.0000	OK
240 minute winter	13	124	6.082	0.023	1.0	0.0189	0.0000	OK
240 minute winter	14	124	5.997	0.027	1.6	0.0203	0.0000	OK
240 minute winter	15	232	5.919	0.069	2.1	0.0182	0.0000	OK
240 minute winter	16	108	5.989	0.009	0.3	0.0038	0.0000	OK
240 minute winter	17	232	5.919	0.069	0.8	0.0181	0.0000	OK
240 minute winter	18	4	6.000	0.000	0.0	0.0000	0.0000	OK
240 minute winter	19	232	5.919	0.069	0.5	0.0290	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	1.000	1	1.8	0.443	0.198	0.2963	14.5
240 minute winter	3	1.001	2	0.0	0.000	0.000	0.0304	
240 minute winter	4	1.002	2	0.3	0.301	0.043	0.0355	
240 minute winter	5	1.003	4	0.7	0.189	0.098	0.0946	
240 minute winter	6	1.004	7	0.1	0.247	0.022	0.0028	
240 minute winter	7	1.005	8	0.1	0.230	0.007	0.0057	
240 minute winter	8	1.006	9	0.3	0.089	0.011	0.0222	
240 minute winter	9	Flow through pond	5	3.8	0.018	0.009	20.8458	
240 minute winter	10	1.007	8	0.0	0.000	0.000	0.0016	
240 minute winter	11	1.013	12	0.5	0.444	0.096	0.0137	
240 minute winter	12	1.008	13	0.5	0.334	0.035	0.0110	
240 minute winter	13	1.009	14	1.0	0.527	0.050	0.0133	
240 minute winter	14	1.010	15	1.6	0.387	0.068	0.0337	
240 minute winter	15	Flow through pond	5	3.8	0.018	0.009	20.8458	
240 minute winter	16	1.011	17	0.3	0.092	0.007	0.0100	
240 minute winter	17	Flow through pond	5	3.8	0.018	0.009	20.8458	
240 minute winter	18	1.012	19	0.0	0.000	0.000	0.0294	
240 minute winter	19	Flow through pond	5	3.8	0.018	0.009	20.8458	

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

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
360 minute summer	1	184	5.330	0.030	1.1	0.0000	0.0000	OK
360 minute summer	2	184	5.537	0.037	1.2	0.0214	0.0000	OK
360 minute summer	3	8	5.740	0.000	0.0	0.0000	0.0000	OK
360 minute summer	4	304	5.891	0.231	0.6	0.2612	0.0000	SURCHARGED
360 minute summer	5	304	5.891	0.041	2.7	0.0000	0.0000	OK
360 minute summer	6	176	6.110	0.010	0.1	0.0015	0.0000	OK
360 minute summer	7	184	6.062	0.009	0.1	0.0014	0.0000	OK
360 minute summer	8	184	5.988	0.009	0.2	0.0029	0.0000	OK
360 minute summer	9	192	5.912	0.062	1.6	0.0164	0.0000	OK
360 minute summer	10	8	6.100	0.000	0.0	0.0000	0.0000	OK
360 minute summer	11	184	6.217	0.017	0.3	0.0116	0.0000	OK
360 minute summer	12	184	6.123	0.015	0.3	0.0024	0.0000	OK
360 minute summer	13	184	6.077	0.018	0.6	0.0147	0.0000	OK
360 minute summer	14	184	5.991	0.021	1.0	0.0162	0.0000	OK
360 minute summer	15	192	5.913	0.063	1.3	0.0167	0.0000	OK
360 minute summer	16	176	5.988	0.008	0.2	0.0031	0.0000	OK
360 minute summer	17	192	5.912	0.062	1.6	0.0164	0.0000	OK
360 minute summer	18	8	6.000	0.000	0.0	0.0000	0.0000	OK
360 minute summer	19	192	5.912	0.062	1.6	0.0262	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	1.000	1	1.1	0.385	0.120	0.2071	12.0
360 minute summer	3	1.001	2	0.0	0.000	0.000	0.0218	
360 minute summer	4	1.002	2	0.3	0.306	0.043	0.0265	
360 minute summer	5	1.003	4	0.6	0.193	0.087	0.0759	
360 minute summer	6	1.004	7	0.1	0.247	0.022	0.0028	
360 minute summer	7	1.005	8	0.1	0.230	0.007	0.0049	
360 minute summer	8	1.006	9	0.2	0.067	0.007	0.0204	
360 minute summer	9	Flow through pond	5	2.7	0.018	0.006	10.6326	
360 minute summer	10	1.007	8	0.0	0.000	0.000	0.0012	
360 minute summer	11	1.013	12	0.3	0.381	0.057	0.0096	
360 minute summer	12	1.008	13	0.3	0.289	0.021	0.0077	
360 minute summer	13	1.009	14	0.6	0.448	0.030	0.0094	
360 minute summer	14	1.010	15	1.0	0.247	0.043	0.0296	
360 minute summer	15	Flow through pond	5	2.7	0.018	0.006	10.6326	
360 minute summer	16	1.011	17	0.2	0.068	0.005	0.0090	
360 minute summer	17	Flow through pond	5	2.7	0.018	0.006	10.6326	
360 minute summer	18	1.012	19	0.0	0.000	0.000	0.0258	
360 minute summer	19	Flow through pond	5	2.7	0.018	0.006	10.6326	

Results for 30 year 360 minute winter. 600 minute analysis at 8 minute timestep. Mass balance: 99.69%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
360 minute winter	1	184	5.334	0.034	1.4	0.0000	0.0000	OK
360 minute winter	2	184	5.542	0.042	1.4	0.0242	0.0000	OK
360 minute winter	3	8	5.740	0.000	0.0	0.0000	0.0000	OK
360 minute winter	4	344	5.921	0.261	0.5	0.2950	0.0000	SURCHARGED
360 minute winter	5	344	5.921	0.071	2.7	0.0000	0.0000	OK
360 minute winter	6	152	6.110	0.010	0.1	0.0015	0.0000	OK
360 minute winter	7	160	6.062	0.009	0.1	0.0014	0.0000	OK
360 minute winter	8	160	5.988	0.009	0.2	0.0029	0.0000	OK
360 minute winter	9	344	5.921	0.071	0.5	0.0187	0.0000	OK
360 minute winter	10	8	6.100	0.000	0.0	0.0000	0.0000	OK
360 minute winter	11	168	6.217	0.017	0.3	0.0116	0.0000	OK
360 minute winter	12	160	6.123	0.015	0.3	0.0024	0.0000	OK
360 minute winter	13	184	6.078	0.019	0.7	0.0158	0.0000	OK
360 minute winter	14	184	5.993	0.023	1.2	0.0177	0.0000	OK
360 minute winter	15	344	5.921	0.071	1.5	0.0188	0.0000	OK
360 minute winter	16	152	5.988	0.008	0.2	0.0031	0.0000	OK
360 minute winter	17	344	5.921	0.071	0.5	0.0187	0.0000	OK
360 minute winter	18	8	6.000	0.000	0.0	0.0000	0.0000	OK
360 minute winter	19	344	5.921	0.071	0.3	0.0300	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	1.000	1	1.4	0.414	0.155	0.2486	16.7
360 minute winter	3	1.001	2	0.0	0.000	0.000	0.0258	
360 minute winter	4	1.002	2	0.3	0.300	0.043	0.0310	
360 minute winter	5	1.003	4	0.5	0.163	0.071	0.0962	
360 minute winter	6	1.004	7	0.1	0.247	0.022	0.0028	
360 minute winter	7	1.005	8	0.1	0.230	0.007	0.0049	
360 minute winter	8	1.006	9	0.2	0.068	0.007	0.0228	
360 minute winter	9	Flow through pond	5	2.7	0.013	0.006	21.9700	
360 minute winter	10	1.007	8	0.0	0.000	0.000	0.0012	
360 minute winter	11	1.013	12	0.3	0.381	0.057	0.0096	
360 minute winter	12	1.008	13	0.3	0.289	0.021	0.0082	
360 minute winter	13	1.009	14	0.7	0.464	0.035	0.0106	
360 minute winter	14	1.010	15	1.2	0.286	0.051	0.0308	
360 minute winter	15	Flow through pond	5	2.7	0.013	0.006	21.9700	
360 minute winter	16	1.011	17	0.2	0.069	0.005	0.0102	
360 minute winter	17	Flow through pond	5	2.7	0.013	0.006	21.9700	
360 minute winter	18	1.012	19	0.0	0.000	0.000	0.0308	
360 minute winter	19	Flow through pond	5	2.7	0.013	0.006	21.9700	

Results for 30 year 480 minute summer. 720 minute analysis at 8 minute timestep. Mass balance: 99.81%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
480 minute summer	1	256	5.327	0.027	1.0	0.0000	0.0000	OK
480 minute summer	2	256	5.534	0.034	1.0	0.0197	0.0000	OK
480 minute summer	3	8	5.740	0.000	0.0	0.0000	0.0000	OK
480 minute summer	4	368	5.889	0.229	0.6	0.2585	0.0000	SURCHARGED
480 minute summer	5	368	5.889	0.039	2.1	0.0000	0.0000	OK
480 minute summer	6	240	6.110	0.010	0.1	0.0015	0.0000	OK
480 minute summer	7	248	6.062	0.009	0.1	0.0014	0.0000	OK
480 minute summer	8	248	5.988	0.009	0.2	0.0029	0.0000	OK
480 minute summer	9	240	5.910	0.060	1.6	0.0159	0.0000	OK
480 minute summer	10	8	6.100	0.000	0.0	0.0000	0.0000	OK
480 minute summer	11	232	6.214	0.014	0.2	0.0095	0.0000	OK
480 minute summer	12	224	6.120	0.012	0.2	0.0020	0.0000	OK
480 minute summer	13	248	6.075	0.016	0.5	0.0135	0.0000	OK
480 minute summer	14	248	5.989	0.019	0.8	0.0145	0.0000	OK
480 minute summer	15	248	5.911	0.061	1.0	0.0161	0.0000	OK
480 minute summer	16	248	5.988	0.008	0.2	0.0031	0.0000	OK
480 minute summer	17	248	5.910	0.060	1.6	0.0159	0.0000	OK
480 minute summer	18	8	6.000	0.000	0.0	0.0000	0.0000	OK
480 minute summer	19	240	5.910	0.060	1.6	0.0253	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
480 minute summer	2	1.000	1	1.0	0.367	0.102	0.1847	13.4
480 minute summer	3	1.001	2	0.0	0.000	0.000	0.0195	
480 minute summer	4	1.002	2	0.3	0.307	0.043	0.0247	
480 minute summer	5	1.003	4	0.6	0.191	0.088	0.0742	
480 minute summer	6	1.004	7	0.1	0.247	0.022	0.0028	
480 minute summer	7	1.005	8	0.1	0.230	0.007	0.0049	
480 minute summer	8	1.006	9	0.2	0.066	0.007	0.0195	
480 minute summer	9	Flow through pond	5	2.1	0.016	0.005	10.0671	
480 minute summer	10	1.007	8	0.0	0.000	0.000	0.0012	
480 minute summer	11	1.013	12	0.2	0.337	0.038	0.0073	
480 minute summer	12	1.008	13	0.2	0.255	0.014	0.0063	
480 minute summer	13	1.009	14	0.5	0.430	0.025	0.0081	
480 minute summer	14	1.010	15	0.8	0.213	0.034	0.0276	
480 minute summer	15	Flow through pond	5	2.1	0.016	0.005	10.0671	
480 minute summer	16	1.011	17	0.2	0.067	0.005	0.0086	
480 minute summer	17	Flow through pond	5	2.1	0.016	0.005	10.0671	
480 minute summer	18	1.012	19	0.0	0.000	0.000	0.0246	
480 minute summer	19	Flow through pond	5	2.1	0.016	0.005	10.0671	

Results for 30 year 480 minute winter. 720 minute analysis at 8 minute timestep. Mass balance: 99.71%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
480 minute winter	1	232	5.330	0.030	1.1	0.0000	0.0000	OK
480 minute winter	2	232	5.537	0.037	1.1	0.0216	0.0000	OK
480 minute winter	3	8	5.740	0.000	0.0	0.0000	0.0000	OK
480 minute winter	4	392	5.918	0.258	0.5	0.2923	0.0000	SURCHARGED
480 minute winter	5	392	5.919	0.069	2.5	0.0000	0.0000	OK
480 minute winter	6	208	6.110	0.010	0.1	0.0015	0.0000	OK
480 minute winter	7	216	6.062	0.009	0.1	0.0014	0.0000	OK
480 minute winter	8	216	5.988	0.009	0.2	0.0029	0.0000	OK
480 minute winter	9	392	5.919	0.069	1.6	0.0181	0.0000	OK
480 minute winter	10	8	6.100	0.000	0.0	0.0000	0.0000	OK
480 minute winter	11	248	6.217	0.017	0.3	0.0116	0.0000	OK
480 minute winter	12	240	6.123	0.015	0.3	0.0024	0.0000	OK
480 minute winter	13	240	6.077	0.018	0.6	0.0147	0.0000	OK
480 minute winter	14	240	5.991	0.021	1.0	0.0162	0.0000	OK
480 minute winter	15	392	5.919	0.069	1.3	0.0182	0.0000	OK
480 minute winter	16	216	5.988	0.008	0.2	0.0031	0.0000	OK
480 minute winter	17	400	5.919	0.069	1.6	0.0181	0.0000	OK
480 minute winter	18	8	6.000	0.000	0.0	0.0000	0.0000	OK
480 minute winter	19	400	5.919	0.069	1.6	0.0290	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
480 minute winter	2	1.000	1	1.1	0.388	0.123	0.2107	18.6
480 minute winter	3	1.001	2	0.0	0.000	0.000	0.0221	
480 minute winter	4	1.002	2	0.3	0.301	0.043	0.0274	
480 minute winter	5	1.003	4	0.5	0.187	0.075	0.0947	
480 minute winter	6	1.004	7	0.1	0.247	0.022	0.0028	
480 minute winter	7	1.005	8	0.1	0.230	0.007	0.0049	
480 minute winter	8	1.006	9	0.2	0.068	0.007	0.0218	
480 minute winter	9	Flow through pond	5	2.5	0.013	0.006	20.8857	
480 minute winter	10	1.007	8	0.0	0.000	0.000	0.0012	
480 minute winter	11	1.013	12	0.3	0.381	0.057	0.0096	
480 minute winter	12	1.008	13	0.3	0.289	0.021	0.0077	
480 minute winter	13	1.009	14	0.6	0.448	0.030	0.0094	
480 minute winter	14	1.010	15	1.0	0.252	0.043	0.0296	
480 minute winter	15	Flow through pond	5	2.5	0.013	0.006	20.8857	
480 minute winter	16	1.011	17	0.2	0.069	0.005	0.0098	
480 minute winter	17	Flow through pond	5	2.5	0.013	0.006	20.8857	
480 minute winter	18	1.012	19	0.0	0.000	0.000	0.0295	
480 minute winter	19	Flow through pond	5	2.5	0.013	0.006	20.8857	

Results for 30 year 600 minute summer. 840 minute analysis at 15 minute timestep. Mass balance: 99.75%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
600 minute summer	1	315	5.327	0.027	0.9	0.0000	0.0000	OK
600 minute summer	2	315	5.534	0.034	0.9	0.0194	0.0000	OK
600 minute summer	3	15	5.740	0.000	0.0	0.0000	0.0000	OK
600 minute summer	4	435	5.890	0.230	0.4	0.2597	0.0000	SURCHARGED
600 minute summer	5	435	5.890	0.040	1.8	0.0000	0.0000	OK
600 minute summer	6	315	6.110	0.010	0.1	0.0015	0.0000	OK
600 minute summer	7	315	6.062	0.009	0.1	0.0014	0.0000	OK
600 minute summer	8	315	5.988	0.009	0.2	0.0029	0.0000	OK
600 minute summer	9	315	5.909	0.059	0.4	0.0155	0.0000	OK
600 minute summer	10	15	6.100	0.000	0.0	0.0000	0.0000	OK
600 minute summer	11	300	6.214	0.014	0.2	0.0095	0.0000	OK
600 minute summer	12	300	6.120	0.012	0.2	0.0020	0.0000	OK
600 minute summer	13	300	6.074	0.015	0.4	0.0121	0.0000	OK
600 minute summer	14	315	5.988	0.018	0.7	0.0137	0.0000	OK
600 minute summer	15	315	5.909	0.059	0.9	0.0157	0.0000	OK
600 minute summer	16	255	5.986	0.006	0.1	0.0023	0.0000	OK
600 minute summer	17	315	5.909	0.059	0.3	0.0155	0.0000	OK
600 minute summer	18	15	6.000	0.000	0.0	0.0000	0.0000	OK
600 minute summer	19	315	5.909	0.059	0.2	0.0248	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
600 minute summer	2	1.000	1	0.9	0.364	0.100	0.1814	15.1
600 minute summer	3	1.001	2	0.0	0.000	0.000	0.0192	
600 minute summer	4	1.002	2	0.3	0.307	0.042	0.0243	
600 minute summer	5	1.003	4	0.4	0.149	0.059	0.0749	
600 minute summer	6	1.004	7	0.1	0.247	0.022	0.0028	
600 minute summer	7	1.005	8	0.1	0.230	0.007	0.0049	
600 minute summer	8	1.006	9	0.2	0.067	0.007	0.0190	
600 minute summer	9	Flow through pond	5	1.8	0.016	0.004	10.2889	
600 minute summer	10	1.007	8	0.0	0.000	0.000	0.0012	
600 minute summer	11	1.013	12	0.2	0.337	0.038	0.0073	
600 minute summer	12	1.008	13	0.2	0.255	0.014	0.0058	
600 minute summer	13	1.009	14	0.4	0.411	0.020	0.0072	
600 minute summer	14	1.010	15	0.7	0.195	0.030	0.0266	
600 minute summer	15	Flow through pond	5	1.8	0.016	0.004	10.2889	
600 minute summer	16	1.011	17	0.1	0.042	0.002	0.0082	
600 minute summer	17	Flow through pond	5	1.8	0.016	0.004	10.2889	
600 minute summer	18	1.012	19	0.0	0.000	0.000	0.0239	
600 minute summer	19	Flow through pond	5	1.8	0.016	0.004	10.2889	

Results for 30 year 600 minute winter. 840 minute analysis at 15 minute timestep. Mass balance: 99.73%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
600 minute winter	1	315	5.329	0.029	1.0	0.0000	0.0000	OK
600 minute winter	2	315	5.536	0.036	1.0	0.0206	0.0000	OK
600 minute winter	3	15	5.740	0.000	0.0	0.0000	0.0000	OK
600 minute winter	4	480	5.919	0.259	0.5	0.2925	0.0000	SURCHARGED
600 minute winter	5	480	5.919	0.069	1.9	0.0000	0.0000	OK
600 minute winter	6	285	6.110	0.010	0.1	0.0015	0.0000	OK
600 minute winter	7	300	6.062	0.009	0.1	0.0014	0.0000	OK
600 minute winter	8	300	5.988	0.009	0.2	0.0029	0.0000	OK
600 minute winter	9	480	5.919	0.069	0.4	0.0182	0.0000	OK
600 minute winter	10	15	6.100	0.000	0.0	0.0000	0.0000	OK
600 minute winter	11	255	6.214	0.014	0.2	0.0095	0.0000	OK
600 minute winter	12	255	6.120	0.012	0.2	0.0020	0.0000	OK
600 minute winter	13	315	6.075	0.016	0.5	0.0135	0.0000	OK
600 minute winter	14	315	5.989	0.019	0.8	0.0145	0.0000	OK
600 minute winter	15	480	5.919	0.069	1.0	0.0182	0.0000	OK
600 minute winter	16	315	5.988	0.008	0.2	0.0031	0.0000	OK
600 minute winter	17	480	5.919	0.069	0.4	0.0182	0.0000	OK
600 minute winter	18	15	6.000	0.000	0.0	0.0000	0.0000	OK
600 minute winter	19	480	5.919	0.069	0.2	0.0291	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
600 minute winter	2	1.000	1	1.0	0.377	0.112	0.1971	19.6
600 minute winter	3	1.001	2	0.0	0.000	0.000	0.0208	
600 minute winter	4	1.002	2	0.3	0.301	0.043	0.0260	
600 minute winter	5	1.003	4	0.5	0.168	0.065	0.0948	
600 minute winter	6	1.004	7	0.1	0.247	0.022	0.0028	
600 minute winter	7	1.005	8	0.1	0.230	0.007	0.0049	
600 minute winter	8	1.006	9	0.2	0.067	0.007	0.0219	
600 minute winter	9	Flow through pond	5	1.9	0.012	0.005	20.9593	
600 minute winter	10	1.007	8	0.0	0.000	0.000	0.0012	
600 minute winter	11	1.013	12	0.2	0.337	0.038	0.0073	
600 minute winter	12	1.008	13	0.2	0.255	0.014	0.0063	
600 minute winter	13	1.009	14	0.5	0.430	0.025	0.0081	
600 minute winter	14	1.010	15	0.8	0.216	0.034	0.0295	
600 minute winter	15	Flow through pond	5	1.9	0.012	0.005	20.9593	
600 minute winter	16	1.011	17	0.2	0.068	0.005	0.0098	
600 minute winter	17	Flow through pond	5	1.9	0.012	0.005	20.9593	
600 minute winter	18	1.012	19	0.0	0.000	0.000	0.0296	
600 minute winter	19	Flow through pond	5	1.9	0.012	0.005	20.9593	

Results for 30 year 720 minute summer. 960 minute analysis at 15 minute timestep. Mass balance: 99.64%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
720 minute summer	1	375	5.326	0.026	0.8	0.0000	0.0000	OK
720 minute summer	2	375	5.532	0.032	0.8	0.0185	0.0000	OK
720 minute summer	3	15	5.740	0.000	0.0	0.0000	0.0000	OK
720 minute summer	4	510	5.887	0.227	0.4	0.2569	0.0000	SURCHARGED
720 minute summer	5	510	5.887	0.037	1.5	0.0000	0.0000	OK
720 minute summer	6	15	6.100	0.000	0.0	0.0000	0.0000	OK
720 minute summer	7	15	6.053	0.000	0.0	0.0000	0.0000	OK
720 minute summer	8	345	5.986	0.007	0.1	0.0021	0.0000	OK
720 minute summer	9	375	5.908	0.058	0.3	0.0152	0.0000	OK
720 minute summer	10	15	6.100	0.000	0.0	0.0000	0.0000	OK
720 minute summer	11	375	6.214	0.014	0.2	0.0095	0.0000	OK
720 minute summer	12	375	6.120	0.012	0.2	0.0020	0.0000	OK
720 minute summer	13	375	6.074	0.015	0.4	0.0121	0.0000	OK
720 minute summer	14	375	5.987	0.017	0.6	0.0127	0.0000	OK
720 minute summer	15	375	5.908	0.058	0.8	0.0154	0.0000	OK
720 minute summer	16	315	5.986	0.006	0.1	0.0023	0.0000	OK
720 minute summer	17	375	5.908	0.058	0.3	0.0152	0.0000	OK
720 minute summer	18	15	6.000	0.000	0.0	0.0000	0.0000	OK
720 minute summer	19	375	5.907	0.057	0.2	0.0243	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
720 minute summer	2	1.000	1	0.8	0.353	0.090	0.1685	16.4
720 minute summer	3	1.001	2	0.0	0.000	0.000	0.0179	
720 minute summer	4	1.002	2	0.3	0.308	0.043	0.0231	
720 minute summer	5	1.003	4	0.4	0.170	0.057	0.0733	
720 minute summer	6	1.004	7	0.0	0.000	0.000	0.0000	
720 minute summer	7	1.005	8	0.0	0.000	0.000	0.0015	
720 minute summer	8	1.006	9	0.1	0.037	0.004	0.0180	
720 minute summer	9	Flow through pond	5	1.5	0.013	0.004	9.7622	
720 minute summer	10	1.007	8	0.0	0.000	0.000	0.0007	
720 minute summer	11	1.013	12	0.2	0.337	0.038	0.0073	
720 minute summer	12	1.008	13	0.2	0.255	0.014	0.0058	
720 minute summer	13	1.009	14	0.4	0.412	0.020	0.0068	
720 minute summer	14	1.010	15	0.6	0.175	0.026	0.0255	
720 minute summer	15	Flow through pond	5	1.5	0.013	0.004	9.7622	
720 minute summer	16	1.011	17	0.1	0.040	0.002	0.0080	
720 minute summer	17	Flow through pond	5	1.5	0.013	0.004	9.7622	
720 minute summer	18	1.012	19	0.0	0.000	0.000	0.0233	
720 minute summer	19	Flow through pond	5	1.5	0.013	0.004	9.7622	

Results for 30 year 720 minute winter. 960 minute analysis at 15 minute timestep. Mass balance: 99.71%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
720 minute winter	1	360	5.327	0.027	0.9	0.0000	0.0000	OK
720 minute winter	2	360	5.534	0.034	0.9	0.0196	0.0000	OK
720 minute winter	3	15	5.740	0.000	0.0	0.0000	0.0000	OK
720 minute winter	4	555	5.917	0.257	0.5	0.2906	0.0000	SURCHARGED
720 minute winter	5	555	5.917	0.067	1.8	0.0000	0.0000	OK
720 minute winter	6	360	6.110	0.010	0.1	0.0015	0.0000	OK
720 minute winter	7	375	6.062	0.009	0.1	0.0014	0.0000	OK
720 minute winter	8	375	5.988	0.009	0.2	0.0029	0.0000	OK
720 minute winter	9	555	5.917	0.067	0.4	0.0177	0.0000	OK
720 minute winter	10	15	6.100	0.000	0.0	0.0000	0.0000	OK
720 minute winter	11	330	6.214	0.014	0.2	0.0095	0.0000	OK
720 minute winter	12	330	6.120	0.012	0.2	0.0020	0.0000	OK
720 minute winter	13	330	6.074	0.015	0.4	0.0121	0.0000	OK
720 minute winter	14	360	5.988	0.018	0.7	0.0137	0.0000	OK
720 minute winter	15	555	5.917	0.067	0.9	0.0178	0.0000	OK
720 minute winter	16	240	5.986	0.006	0.1	0.0023	0.0000	OK
720 minute winter	17	555	5.917	0.067	0.3	0.0177	0.0000	OK
720 minute winter	18	15	6.000	0.000	0.0	0.0000	0.0000	OK
720 minute winter	19	555	5.917	0.067	0.2	0.0284	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
720 minute winter	2	1.000	1	0.9	0.366	0.102	0.1840	21.5
720 minute winter	3	1.001	2	0.0	0.000	0.000	0.0195	
720 minute winter	4	1.002	2	0.3	0.302	0.043	0.0247	
720 minute winter	5	1.003	4	0.5	0.141	0.066	0.0937	
720 minute winter	6	1.004	7	0.1	0.247	0.022	0.0028	
720 minute winter	7	1.005	8	0.1	0.230	0.007	0.0049	
720 minute winter	8	1.006	9	0.2	0.067	0.007	0.0212	
720 minute winter	9	Flow through pond	5	1.8	0.012	0.004	20.1800	
720 minute winter	10	1.007	8	0.0	0.000	0.000	0.0012	
720 minute winter	11	1.013	12	0.2	0.337	0.038	0.0073	
720 minute winter	12	1.008	13	0.2	0.255	0.014	0.0058	
720 minute winter	13	1.009	14	0.4	0.412	0.020	0.0072	
720 minute winter	14	1.010	15	0.7	0.197	0.030	0.0287	
720 minute winter	15	Flow through pond	5	1.8	0.012	0.004	20.1800	
720 minute winter	16	1.011	17	0.1	0.039	0.002	0.0095	
720 minute winter	17	Flow through pond	5	1.8	0.012	0.004	20.1800	
720 minute winter	18	1.012	19	0.0	0.000	0.000	0.0286	
720 minute winter	19	Flow through pond	5	1.8	0.012	0.004	20.1800	

Results for 30 year 960 minute summer. 1200 minute analysis at 15 minute timestep. Mass balance: 99.85%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
960 minute summer	1	495	5.324	0.024	0.7	0.0000	0.0000	OK
960 minute summer	2	495	5.530	0.030	0.7	0.0174	0.0000	OK
960 minute summer	3	15	5.740	0.000	0.0	0.0000	0.0000	OK
960 minute summer	4	630	5.883	0.223	0.5	0.2521	0.0000	SURCHARGED
960 minute summer	5	630	5.883	0.033	1.1	0.0000	0.0000	OK
960 minute summer	6	15	6.100	0.000	0.0	0.0000	0.0000	OK
960 minute summer	7	15	6.053	0.000	0.0	0.0000	0.0000	OK
960 minute summer	8	480	5.986	0.007	0.1	0.0021	0.0000	OK
960 minute summer	9	465	5.906	0.056	0.2	0.0147	0.0000	OK
960 minute summer	10	15	6.100	0.000	0.0	0.0000	0.0000	OK
960 minute summer	11	420	6.210	0.010	0.1	0.0068	0.0000	OK
960 minute summer	12	405	6.117	0.009	0.1	0.0014	0.0000	OK
960 minute summer	13	495	6.072	0.013	0.3	0.0106	0.0000	OK
960 minute summer	14	495	5.985	0.015	0.5	0.0116	0.0000	OK
960 minute summer	15	495	5.906	0.056	0.6	0.0148	0.0000	OK
960 minute summer	16	435	5.986	0.006	0.1	0.0023	0.0000	OK
960 minute summer	17	450	5.906	0.056	0.2	0.0147	0.0000	OK
960 minute summer	18	15	6.000	0.000	0.0	0.0000	0.0000	OK
960 minute summer	19	450	5.906	0.056	0.1	0.0235	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
960 minute summer	2	1.000	1	0.7	0.341	0.079	0.1532	16.9
960 minute summer	3	1.001	2	0.0	0.000	0.000	0.0164	
960 minute summer	4	1.002	2	0.3	0.309	0.043	0.0216	
960 minute summer	5	1.003	4	0.5	0.150	0.068	0.0704	
960 minute summer	6	1.004	7	0.0	0.000	0.000	0.0000	
960 minute summer	7	1.005	8	0.0	0.000	0.000	0.0015	
960 minute summer	8	1.006	9	0.1	0.038	0.004	0.0172	
960 minute summer	9	Flow through pond	5	1.1	0.013	0.003	8.7108	
960 minute summer	10	1.007	8	0.0	0.000	0.000	0.0007	
960 minute summer	11	1.013	12	0.1	0.273	0.019	0.0045	
960 minute summer	12	1.008	13	0.1	0.207	0.007	0.0042	
960 minute summer	13	1.009	14	0.3	0.363	0.015	0.0058	
960 minute summer	14	1.010	15	0.5	0.156	0.021	0.0240	
960 minute summer	15	Flow through pond	5	1.1	0.013	0.003	8.7108	
960 minute summer	16	1.011	17	0.1	0.040	0.002	0.0077	
960 minute summer	17	Flow through pond	5	1.1	0.013	0.003	8.7108	
960 minute summer	18	1.012	19	0.0	0.000	0.000	0.0223	
960 minute summer	19	Flow through pond	5	1.1	0.013	0.003	8.7108	

Results for 30 year 960 minute winter. 1200 minute analysis at 15 minute timestep. Mass balance: 99.71%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
960 minute winter	1	435	5.324	0.024	0.8	0.0000	0.0000	OK
960 minute winter	2	435	5.530	0.030	0.8	0.0176	0.0000	OK
960 minute winter	3	15	5.740	0.000	0.0	0.0000	0.0000	OK
960 minute winter	4	705	5.915	0.255	0.4	0.2885	0.0000	SURCHARGED
960 minute winter	5	705	5.915	0.065	1.6	0.0000	0.0000	OK
960 minute winter	6	15	6.100	0.000	0.0	0.0000	0.0000	OK
960 minute winter	7	15	6.053	0.000	0.0	0.0000	0.0000	OK
960 minute winter	8	420	5.986	0.007	0.1	0.0021	0.0000	OK
960 minute winter	9	705	5.915	0.065	0.3	0.0172	0.0000	OK
960 minute winter	10	15	6.100	0.000	0.0	0.0000	0.0000	OK
960 minute winter	11	480	6.214	0.014	0.2	0.0095	0.0000	OK
960 minute winter	12	480	6.120	0.012	0.2	0.0020	0.0000	OK
960 minute winter	13	480	6.074	0.015	0.4	0.0121	0.0000	OK
960 minute winter	14	480	5.987	0.017	0.6	0.0127	0.0000	OK
960 minute winter	15	705	5.916	0.066	0.8	0.0173	0.0000	OK
960 minute winter	16	345	5.986	0.006	0.1	0.0023	0.0000	OK
960 minute winter	17	705	5.915	0.065	0.3	0.0172	0.0000	OK
960 minute winter	18	15	6.000	0.000	0.0	0.0000	0.0000	OK
960 minute winter	19	705	5.915	0.065	0.2	0.0276	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
960 minute winter	2	1.000	1	0.8	0.343	0.080	0.1557	24.2
960 minute winter	3	1.001	2	0.0	0.000	0.000	0.0167	
960 minute winter	4	1.002	2	0.3	0.303	0.043	0.0220	
960 minute winter	5	1.003	4	0.4	0.142	0.055	0.0925	
960 minute winter	6	1.004	7	0.0	0.000	0.000	0.0000	
960 minute winter	7	1.005	8	0.0	0.000	0.000	0.0015	
960 minute winter	8	1.006	9	0.1	0.038	0.004	0.0204	
960 minute winter	9	Flow through pond	5	1.6	0.012	0.004	19.3386	
960 minute winter	10	1.007	8	0.0	0.000	0.000	0.0007	
960 minute winter	11	1.013	12	0.2	0.337	0.038	0.0073	
960 minute winter	12	1.008	13	0.2	0.255	0.014	0.0058	
960 minute winter	13	1.009	14	0.4	0.412	0.020	0.0068	
960 minute winter	14	1.010	15	0.6	0.176	0.026	0.0277	
960 minute winter	15	Flow through pond	5	1.6	0.012	0.004	19.3386	
960 minute winter	16	1.011	17	0.1	0.040	0.002	0.0092	
960 minute winter	17	Flow through pond	5	1.6	0.012	0.004	19.3386	
960 minute winter	18	1.012	19	0.0	0.000	0.000	0.0276	
960 minute winter	19	Flow through pond	5	1.6	0.012	0.004	19.3386	

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

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
1440 minute summer	1	750	5.323	0.023	0.7	0.0000	0.0000	OK
1440 minute summer	2	750	5.529	0.029	0.7	0.0165	0.0000	OK
1440 minute summer	3	30	5.740	0.000	0.0	0.0000	0.0000	OK
1440 minute summer	4	900	5.882	0.222	0.4	0.2513	0.0000	SURCHARGED
1440 minute summer	5	900	5.882	0.032	0.9	0.0000	0.0000	OK
1440 minute summer	6	30	6.100	0.000	0.0	0.0000	0.0000	OK
1440 minute summer	7	30	6.053	0.000	0.0	0.0000	0.0000	OK
1440 minute summer	8	30	5.979	0.000	0.0	0.0000	0.0000	OK
1440 minute summer	9	690	5.905	0.055	0.1	0.0145	0.0000	OK
1440 minute summer	10	30	6.100	0.000	0.0	0.0000	0.0000	OK
1440 minute summer	11	660	6.210	0.010	0.1	0.0068	0.0000	OK
1440 minute summer	12	660	6.117	0.009	0.1	0.0014	0.0000	OK
1440 minute summer	13	660	6.070	0.011	0.2	0.0088	0.0000	OK
1440 minute summer	14	660	5.982	0.012	0.3	0.0092	0.0000	OK
1440 minute summer	15	690	5.905	0.055	0.4	0.0146	0.0000	OK
1440 minute summer	16	720	5.986	0.006	0.1	0.0023	0.0000	OK
1440 minute summer	17	690	5.905	0.055	0.2	0.0145	0.0000	OK
1440 minute summer	18	30	6.000	0.000	0.0	0.0000	0.0000	OK
1440 minute summer	19	690	5.905	0.055	0.1	0.0232	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
1440 minute summer	2	1.000	1	0.7	0.330	0.070	0.1414	17.9
1440 minute summer	3	1.001	2	0.0	0.000	0.000	0.0153	
1440 minute summer	4	1.002	2	0.3	0.309	0.043	0.0207	
1440 minute summer	5	1.003	4	0.4	0.120	0.060	0.0700	
1440 minute summer	6	1.004	7	0.0	0.000	0.000	0.0000	
1440 minute summer	7	1.005	8	0.0	0.000	0.000	0.0000	
1440 minute summer	8	1.006	9	0.0	0.000	0.000	0.0161	
1440 minute summer	9	Flow through pond	5	0.9	0.012	0.002	8.4945	
1440 minute summer	10	1.007	8	0.0	0.000	0.000	0.0000	
1440 minute summer	11	1.013	12	0.1	0.272	0.019	0.0045	
1440 minute summer	12	1.008	13	0.1	0.207	0.007	0.0036	
1440 minute summer	13	1.009	14	0.2	0.333	0.010	0.0042	
1440 minute summer	14	1.010	15	0.3	0.107	0.013	0.0226	
1440 minute summer	15	Flow through pond	5	0.9	0.012	0.002	8.4945	
1440 minute summer	16	1.011	17	0.1	0.040	0.002	0.0075	
1440 minute summer	17	Flow through pond	5	0.9	0.012	0.002	8.4945	
1440 minute summer	18	1.012	19	0.0	0.000	0.000	0.0218	
1440 minute summer	19	Flow through pond	5	0.9	0.012	0.002	8.4945	

Results for 30 year 1440 minute winter. 1680 minute analysis at 30 minute timestep. Mass balance: 99.72%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
1440 minute winter	1	690	5.322	0.022	0.6	0.0000	0.0000	OK
1440 minute winter	2	690	5.528	0.028	0.7	0.0164	0.0000	OK
1440 minute winter	3	30	5.740	0.000	0.0	0.0000	0.0000	OK
1440 minute winter	4	990	5.911	0.251	0.4	0.2834	0.0000	SURCHARGED
1440 minute winter	5	990	5.911	0.061	0.9	0.0000	0.0000	OK
1440 minute winter	6	30	6.100	0.000	0.0	0.0000	0.0000	OK
1440 minute winter	7	30	6.053	0.000	0.0	0.0000	0.0000	OK
1440 minute winter	8	30	5.979	0.000	0.0	0.0000	0.0000	OK
1440 minute winter	9	990	5.911	0.061	0.1	0.0161	0.0000	OK
1440 minute winter	10	30	6.100	0.000	0.0	0.0000	0.0000	OK
1440 minute winter	11	540	6.210	0.010	0.1	0.0068	0.0000	OK
1440 minute winter	12	540	6.117	0.009	0.1	0.0014	0.0000	OK
1440 minute winter	13	540	6.070	0.011	0.2	0.0088	0.0000	OK
1440 minute winter	14	720	5.984	0.014	0.4	0.0105	0.0000	OK
1440 minute winter	15	990	5.911	0.061	0.5	0.0161	0.0000	OK
1440 minute winter	16	600	5.986	0.006	0.1	0.0023	0.0000	OK
1440 minute winter	17	990	5.911	0.061	0.2	0.0161	0.0000	OK
1440 minute winter	18	30	6.000	0.000	0.0	0.0000	0.0000	OK
1440 minute winter	19	990	5.911	0.061	0.1	0.0257	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
1440 minute winter	2	1.000	1	0.6	0.329	0.070	0.1405	30.2
1440 minute winter	3	1.001	2	0.0	0.000	0.000	0.0152	
1440 minute winter	4	1.002	2	0.3	0.305	0.042	0.0205	
1440 minute winter	5	1.003	4	0.4	0.118	0.063	0.0895	
1440 minute winter	6	1.004	7	0.0	0.000	0.000	0.0000	
1440 minute winter	7	1.005	8	0.0	0.000	0.000	0.0000	
1440 minute winter	8	1.006	9	0.0	0.000	0.000	0.0186	
1440 minute winter	9	Flow through pond	5	0.9	0.011	0.002	17.2537	
1440 minute winter	10	1.007	8	0.0	0.000	0.000	0.0000	
1440 minute winter	11	1.013	12	0.1	0.272	0.019	0.0045	
1440 minute winter	12	1.008	13	0.1	0.207	0.007	0.0036	
1440 minute winter	13	1.009	14	0.2	0.333	0.010	0.0047	
1440 minute winter	14	1.010	15	0.4	0.132	0.017	0.0252	
1440 minute winter	15	Flow through pond	5	0.9	0.011	0.002	17.2537	
1440 minute winter	16	1.011	17	0.1	0.040	0.002	0.0083	
1440 minute winter	17	Flow through pond	5	0.9	0.011	0.002	17.2537	
1440 minute winter	18	1.012	19	0.0	0.000	0.000	0.0251	
1440 minute winter	19	Flow through pond	5	0.9	0.011	0.002	17.2537	

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

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	1	9	5.399	0.099	11.5	0.0000	0.0000	OK
15 minute summer	2	9	5.693	0.193	17.0	0.1114	0.0000	SURCHARGED
15 minute summer	3	1	5.740	0.000	0.0	0.0000	0.0000	OK
15 minute summer	4	83	5.887	0.227	1.0	0.2565	0.0000	SURCHARGED
15 minute summer	5	83	5.887	0.037	6.6	0.0000	0.0000	OK
15 minute summer	6	8	6.135	0.035	1.4	0.0051	0.0000	OK
15 minute summer	7	9	6.082	0.029	1.2	0.0046	0.0000	OK
15 minute summer	8	8	6.011	0.032	3.0	0.0098	0.0000	OK
15 minute summer	9	12	5.933	0.083	7.4	0.0220	0.0000	OK
15 minute summer	10	1	6.100	0.000	0.0	0.0000	0.0000	OK
15 minute summer	11	8	6.271	0.071	4.7	0.0497	0.0000	OK
15 minute summer	12	9	6.164	0.056	4.2	0.0089	0.0000	OK
15 minute summer	13	8	6.136	0.077	9.1	0.0634	0.0000	OK
15 minute summer	14	8	6.061	0.091	15.1	0.0700	0.0000	OK
15 minute summer	15	9	5.944	0.094	19.0	0.0248	0.0000	OK
15 minute summer	16	8	6.009	0.029	3.4	0.0118	0.0000	OK
15 minute summer	17	12	5.933	0.083	8.0	0.0219	0.0000	OK
15 minute summer	18	1	6.000	0.000	0.0	0.0000	0.0000	OK
15 minute summer	19	13	5.932	0.082	4.7	0.0348	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	1.000	1	11.5	0.698	1.230	1.0632	7.7
15 minute summer	3	1.001	2	0.0	0.000	0.000	0.0647	
15 minute summer	4	1.002	2	-1.1	0.313	-0.182	0.0752	
15 minute summer	5	1.003	4	1.0	0.243	0.145	0.0730	
15 minute summer	6	1.004	7	1.2	0.485	0.251	0.0166	
15 minute summer	7	1.005	8	1.2	0.463	0.081	0.0283	
15 minute summer	8	1.006	9	2.7	0.481	0.098	0.0341	
15 minute summer	9	Flow through pond	5	6.6	0.030	0.016	10.3926	
15 minute summer	10	1.007	8	0.0	0.000	0.000	0.0071	
15 minute summer	11	1.013	12	4.2	0.820	0.807	0.0625	
15 minute summer	12	1.008	13	4.0	0.554	0.275	0.0546	
15 minute summer	13	1.009	14	8.3	0.870	0.416	0.0712	
15 minute summer	14	1.010	15	14.3	1.297	0.610	0.0764	
15 minute summer	15	Flow through pond	5	6.6	0.030	0.016	10.3926	
15 minute summer	16	1.011	17	3.3	0.611	0.081	0.0142	
15 minute summer	17	Flow through pond	5	6.6	0.030	0.016	10.3926	
15 minute summer	18	1.012	19	0.0	0.000	0.000	0.0372	
15 minute summer	19	Flow through pond	5	6.6	0.030	0.016	10.3926	

Results for 100 year +40% CC 15 minute winter. 255 minute analysis at 1 minute timestep. Mass balance: 99.45%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	1	10	5.408	0.108	13.5	0.0000	0.0000	OK
15 minute winter	2	10	5.806	0.306	20.0	0.1763	0.0000	SURCHARGED
15 minute winter	3	10	5.822	0.082	1.7	0.0130	0.0000	OK
15 minute winter	4	37	5.911	0.251	1.8	0.2836	0.0000	SURCHARGED
15 minute winter	5	37	5.911	0.061	16.0	0.0000	0.0000	OK
15 minute winter	6	8	6.140	0.040	1.6	0.0058	0.0000	OK
15 minute winter	7	9	6.086	0.033	1.5	0.0053	0.0000	OK
15 minute winter	8	8	6.016	0.037	3.8	0.0116	0.0000	OK
15 minute winter	9	11	5.956	0.106	9.3	0.0281	0.0000	OK
15 minute winter	10	1	6.100	0.000	0.0	0.0000	0.0000	OK
15 minute winter	11	8	6.285	0.085	5.6	0.0593	0.0000	OK
15 minute winter	12	9	6.176	0.068	5.3	0.0107	0.0000	OK
15 minute winter	13	8	6.151	0.092	11.4	0.0757	0.0000	OK
15 minute winter	14	8	6.080	0.110	19.1	0.0844	0.0000	OK
15 minute winter	15	10	5.969	0.119	24.2	0.0315	0.0000	OK
15 minute winter	16	8	6.012	0.032	4.0	0.0129	0.0000	OK
15 minute winter	17	11	5.956	0.106	9.5	0.0279	0.0000	OK
15 minute winter	18	1	6.000	0.000	0.0	0.0000	0.0000	OK
15 minute winter	19	11	5.954	0.104	5.6	0.0439	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	1.000	1	13.5	0.804	1.449	1.1051	10.5
15 minute winter	3	1.001	2	-1.7	-0.258	-0.234	0.1215	
15 minute winter	4	1.002	2	-2.9	-0.424	-0.484	0.1284	
15 minute winter	5	1.003	4	1.8	0.296	0.254	0.0894	
15 minute winter	6	1.004	7	1.5	0.524	0.326	0.0199	
15 minute winter	7	1.005	8	1.5	0.482	0.105	0.0349	
15 minute winter	8	1.006	9	3.7	0.517	0.136	0.0446	
15 minute winter	9	Flow through pond	5	16.0	0.045	0.038	17.3748	
15 minute winter	10	1.007	8	0.0	0.000	0.000	0.0088	
15 minute winter	11	1.013	12	5.3	0.836	1.012	0.0766	
15 minute winter	12	1.008	13	5.3	0.560	0.364	0.0693	
15 minute winter	13	1.009	14	11.1	0.887	0.554	0.0882	
15 minute winter	14	1.010	15	18.6	1.348	0.794	0.0987	
15 minute winter	15	Flow through pond	5	16.0	0.045	0.038	17.3748	
15 minute winter	16	1.011	17	4.0	0.585	0.097	0.0187	
15 minute winter	17	Flow through pond	5	16.0	0.045	0.038	17.3748	
15 minute winter	18	1.012	19	0.0	0.000	0.000	0.0487	
15 minute winter	19	Flow through pond	5	16.0	0.045	0.038	17.3748	

Results for 100 year +40% CC 30 minute summer. 270 minute analysis at 1 minute timestep. Mass balance: 99.33%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
30 minute summer	1	17	5.391	0.091	9.6	0.0000	0.0000	OK
30 minute summer	2	16	5.641	0.141	11.1	0.0814	0.0000	OK
30 minute summer	3	1	5.740	0.000	0.0	0.0000	0.0000	OK
30 minute summer	4	90	5.901	0.241	1.4	0.2720	0.0000	SURCHARGED
30 minute summer	5	90	5.901	0.051	8.8	0.0000	0.0000	OK
30 minute summer	6	16	6.130	0.030	0.9	0.0043	0.0000	OK
30 minute summer	7	16	6.078	0.025	0.9	0.0040	0.0000	OK
30 minute summer	8	16	6.007	0.028	2.2	0.0088	0.0000	OK
30 minute summer	9	19	5.939	0.089	5.2	0.0234	0.0000	OK
30 minute summer	10	1	6.100	0.000	0.0	0.0000	0.0000	OK
30 minute summer	11	16	6.257	0.057	3.1	0.0397	0.0000	OK
30 minute summer	12	16	6.156	0.048	3.1	0.0077	0.0000	OK
30 minute summer	13	16	6.124	0.065	6.7	0.0533	0.0000	OK
30 minute summer	14	16	6.047	0.077	11.1	0.0591	0.0000	OK
30 minute summer	15	17	5.945	0.095	14.2	0.0251	0.0000	OK
30 minute summer	16	16	6.004	0.024	2.2	0.0097	0.0000	OK
30 minute summer	17	19	5.938	0.088	5.3	0.0233	0.0000	OK
30 minute summer	18	1	6.000	0.000	0.0	0.0000	0.0000	OK
30 minute summer	19	20	5.937	0.087	3.1	0.0370	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	1.000	1	9.6	0.659	1.031	1.0034	9.1
30 minute summer	3	1.001	2	0.0	0.000	0.000	0.0647	
30 minute summer	4	1.002	2	0.3	0.305	0.043	0.0642	
30 minute summer	5	1.003	4	1.4	0.401	0.200	0.0825	
30 minute summer	6	1.004	7	0.9	0.454	0.192	0.0135	
30 minute summer	7	1.005	8	0.9	0.417	0.060	0.0236	
30 minute summer	8	1.006	9	2.1	0.366	0.078	0.0347	
30 minute summer	9	Flow through pond	5	8.8	0.034	0.021	13.2748	
30 minute summer	10	1.007	8	0.0	0.000	0.000	0.0061	
30 minute summer	11	1.013	12	3.1	0.746	0.593	0.0507	
30 minute summer	12	1.008	13	3.1	0.513	0.213	0.0448	
30 minute summer	13	1.009	14	6.6	0.807	0.331	0.0575	
30 minute summer	14	1.010	15	11.1	1.076	0.472	0.0711	
30 minute summer	15	Flow through pond	5	8.8	0.034	0.021	13.2748	
30 minute summer	16	1.011	17	2.2	0.427	0.054	0.0148	
30 minute summer	17	Flow through pond	5	8.8	0.034	0.021	13.2748	
30 minute summer	18	1.012	19	0.0	0.000	0.000	0.0400	
30 minute summer	19	Flow through pond	5	8.8	0.034	0.021	13.2748	

Results for 100 year +40% CC 30 minute winter. 270 minute analysis at 1 minute timestep. Mass balance: 99.55%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
30 minute winter	1	17	5.400	0.100	11.6	0.0000	0.0000	OK
30 minute winter	2	17	5.703	0.203	13.1	0.1169	0.0000	SURCHARGED
30 minute winter	3	1	5.740	0.000	0.0	0.0000	0.0000	OK
30 minute winter	4	35	5.924	0.264	1.9	0.2983	0.0000	SURCHARGED
30 minute winter	5	36	5.924	0.074	20.3	0.0000	0.0000	OK
30 minute winter	6	17	6.132	0.032	1.0	0.0046	0.0000	OK
30 minute winter	7	17	6.080	0.027	1.0	0.0043	0.0000	OK
30 minute winter	8	16	6.010	0.031	2.6	0.0097	0.0000	OK
30 minute winter	9	19	5.959	0.109	6.3	0.0288	0.0000	OK
30 minute winter	10	1	6.100	0.000	0.0	0.0000	0.0000	OK
30 minute winter	11	16	6.263	0.063	3.7	0.0444	0.0000	OK
30 minute winter	12	16	6.162	0.054	3.7	0.0086	0.0000	OK
30 minute winter	13	16	6.132	0.073	7.9	0.0597	0.0000	OK
30 minute winter	14	16	6.058	0.088	13.1	0.0670	0.0000	OK
30 minute winter	15	18	5.969	0.119	16.7	0.0315	0.0000	OK
30 minute winter	16	16	6.006	0.026	2.6	0.0105	0.0000	OK
30 minute winter	17	19	5.959	0.109	6.3	0.0288	0.0000	OK
30 minute winter	18	1	6.000	0.000	0.0	0.0000	0.0000	OK
30 minute winter	19	20	5.957	0.107	3.7	0.0453	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	1.000	1	11.6	0.705	1.245	1.0661	12.8
30 minute winter	3	1.001	2	0.0	0.000	0.000	0.0647	
30 minute winter	4	1.002	2	-0.9	0.299	-0.147	0.0927	
30 minute winter	5	1.003	4	1.9	0.316	0.274	0.0979	
30 minute winter	6	1.004	7	1.0	0.469	0.216	0.0147	
30 minute winter	7	1.005	8	1.0	0.427	0.069	0.0266	
30 minute winter	8	1.006	9	2.6	0.365	0.095	0.0443	
30 minute winter	9	Flow through pond	5	20.3	0.048	0.048	23.1284	
30 minute winter	10	1.007	8	0.0	0.000	0.000	0.0069	
30 minute winter	11	1.013	12	3.7	0.776	0.707	0.0581	
30 minute winter	12	1.008	13	3.7	0.525	0.256	0.0520	
30 minute winter	13	1.009	14	7.9	0.824	0.393	0.0669	
30 minute winter	14	1.010	15	13.0	1.065	0.556	0.0870	
30 minute winter	15	Flow through pond	5	20.3	0.048	0.048	23.1284	
30 minute winter	16	1.011	17	2.6	0.402	0.064	0.0190	
30 minute winter	17	Flow through pond	5	20.3	0.048	0.048	23.1284	
30 minute winter	18	1.012	19	0.0	0.000	0.000	0.0504	
30 minute winter	19	Flow through pond	5	20.3	0.048	0.048	23.1284	

Results for 100 year +40% CC 60 minute summer. 300 minute analysis at 1 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute summer	1	32	5.377	0.077	7.0	0.0000	0.0000	OK
60 minute summer	2	31	5.605	0.105	7.5	0.0605	0.0000	OK
60 minute summer	3	1	5.740	0.000	0.0	0.0000	0.0000	OK
60 minute summer	4	69	5.910	0.250	1.6	0.2823	0.0000	SURCHARGED
60 minute summer	5	68	5.910	0.060	10.4	0.0000	0.0000	OK
60 minute summer	6	31	6.124	0.024	0.6	0.0035	0.0000	OK
60 minute summer	7	31	6.073	0.020	0.6	0.0032	0.0000	OK
60 minute summer	8	31	6.003	0.024	1.5	0.0073	0.0000	OK
60 minute summer	9	35	5.939	0.089	3.6	0.0235	0.0000	OK
60 minute summer	10	1	6.100	0.000	0.0	0.0000	0.0000	OK
60 minute summer	11	31	6.245	0.045	2.1	0.0316	0.0000	OK
60 minute summer	12	31	6.147	0.039	2.1	0.0062	0.0000	OK
60 minute summer	13	31	6.110	0.051	4.5	0.0419	0.0000	OK
60 minute summer	14	31	6.031	0.061	7.5	0.0467	0.0000	OK
60 minute summer	15	33	5.944	0.094	9.5	0.0248	0.0000	OK
60 minute summer	16	31	6.000	0.020	1.5	0.0081	0.0000	OK
60 minute summer	17	35	5.939	0.089	3.6	0.0234	0.0000	OK
60 minute summer	18	1	6.000	0.000	0.0	0.0000	0.0000	OK
60 minute summer	19	36	5.938	0.088	2.1	0.0371	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	1.000	1	7.0	0.631	0.753	0.7870	10.7
60 minute summer	3	1.001	2	0.0	0.000	0.000	0.0647	
60 minute summer	4	1.002	2	0.3	0.303	0.043	0.0643	
60 minute summer	5	1.003	4	1.6	0.362	0.221	0.0888	
60 minute summer	6	1.004	7	0.6	0.406	0.128	0.0101	
60 minute summer	7	1.005	8	0.6	0.363	0.040	0.0178	
60 minute summer	8	1.006	9	1.5	0.259	0.054	0.0341	
60 minute summer	9	Flow through pond	5	10.4	0.035	0.025	16.7862	
60 minute summer	10	1.007	8	0.0	0.000	0.000	0.0047	
60 minute summer	11	1.013	12	2.1	0.674	0.402	0.0380	
60 minute summer	12	1.008	13	2.1	0.471	0.144	0.0328	
60 minute summer	13	1.009	14	4.5	0.744	0.222	0.0420	
60 minute summer	14	1.010	15	7.4	0.831	0.317	0.0618	
60 minute summer	15	Flow through pond	5	10.4	0.035	0.025	16.7862	
60 minute summer	16	1.011	17	1.5	0.290	0.037	0.0147	
60 minute summer	17	Flow through pond	5	10.4	0.035	0.025	16.7862	
60 minute summer	18	1.012	19	0.0	0.000	0.000	0.0402	
60 minute summer	19	Flow through pond	5	10.4	0.035	0.025	16.7862	

Results for 100 year +40% CC 60 minute winter. 300 minute analysis at 1 minute timestep. Mass balance: 99.70%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute winter	1	32	5.384	0.084	8.2	0.0000	0.0000	OK
60 minute winter	2	32	5.619	0.119	8.4	0.0688	0.0000	OK
60 minute winter	3	1	5.740	0.000	0.0	0.0000	0.0000	OK
60 minute winter	4	64	5.935	0.275	2.0	0.3115	0.0000	SURCHARGED
60 minute winter	5	64	5.936	0.086	19.7	0.0000	0.0000	OK
60 minute winter	6	31	6.127	0.027	0.7	0.0038	0.0000	OK
60 minute winter	7	31	6.075	0.022	0.7	0.0035	0.0000	OK
60 minute winter	8	32	6.004	0.025	1.7	0.0078	0.0000	OK
60 minute winter	9	34	5.951	0.101	4.0	0.0267	0.0000	OK
60 minute winter	10	1	6.100	0.000	0.0	0.0000	0.0000	OK
60 minute winter	11	30	6.247	0.047	2.3	0.0332	0.0000	OK
60 minute winter	12	32	6.149	0.041	2.3	0.0065	0.0000	OK
60 minute winter	13	31	6.113	0.054	5.0	0.0448	0.0000	OK
60 minute winter	14	30	6.035	0.065	8.3	0.0499	0.0000	OK
60 minute winter	15	34	5.959	0.109	10.6	0.0287	0.0000	OK
60 minute winter	16	31	6.001	0.021	1.7	0.0086	0.0000	OK
60 minute winter	17	34	5.951	0.101	4.0	0.0267	0.0000	OK
60 minute winter	18	1	6.000	0.000	0.0	0.0000	0.0000	OK
60 minute winter	19	35	5.949	0.099	2.3	0.0420	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	1.000	1	8.2	0.649	0.882	0.8902	15.4
60 minute winter	3	1.001	2	0.0	0.000	0.000	0.0647	
60 minute winter	4	1.002	2	0.3	0.297	0.042	0.0697	
60 minute winter	5	1.003	4	2.0	0.357	0.289	0.1045	
60 minute winter	6	1.004	7	0.7	0.424	0.150	0.0113	
60 minute winter	7	1.005	8	0.7	0.383	0.047	0.0199	
60 minute winter	8	1.006	9	1.7	0.246	0.062	0.0401	
60 minute winter	9	Flow through pond	5	19.2	0.044	0.046	28.7150	
60 minute winter	10	1.007	8	0.0	0.000	0.000	0.0051	
60 minute winter	11	1.013	12	2.3	0.689	0.440	0.0407	
60 minute winter	12	1.008	13	2.3	0.482	0.159	0.0356	
60 minute winter	13	1.009	14	5.0	0.776	0.250	0.0459	
60 minute winter	14	1.010	15	8.3	0.806	0.355	0.0715	
60 minute winter	15	Flow through pond	5	19.2	0.044	0.046	28.7150	
60 minute winter	16	1.011	17	1.7	0.272	0.042	0.0175	
60 minute winter	17	Flow through pond	5	19.2	0.044	0.046	28.7150	
60 minute winter	18	1.012	19	0.0	0.000	0.000	0.0465	
60 minute winter	19	Flow through pond	5	19.2	0.044	0.046	28.7150	

Results for 100 year +40% CC 120 minute summer. 360 minute analysis at 2 minute timestep. Mass balance: 99.72%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
120 minute summer	1	62	5.361	0.061	4.5	0.0000	0.0000	OK
120 minute summer	2	62	5.578	0.078	4.6	0.0449	0.0000	OK
120 minute summer	3	2	5.740	0.000	0.0	0.0000	0.0000	OK
120 minute summer	4	122	5.916	0.256	1.1	0.2894	0.0000	SURCHARGED
120 minute summer	5	122	5.916	0.066	9.5	0.0000	0.0000	OK
120 minute summer	6	62	6.120	0.020	0.4	0.0029	0.0000	OK
120 minute summer	7	62	6.070	0.017	0.4	0.0027	0.0000	OK
120 minute summer	8	62	5.998	0.019	0.9	0.0058	0.0000	OK
120 minute summer	9	66	5.932	0.082	2.2	0.0216	0.0000	OK
120 minute summer	10	2	6.100	0.000	0.0	0.0000	0.0000	OK
120 minute summer	11	62	6.235	0.035	1.3	0.0243	0.0000	OK
120 minute summer	12	62	6.138	0.030	1.3	0.0048	0.0000	OK
120 minute summer	13	62	6.097	0.038	2.7	0.0317	0.0000	OK
120 minute summer	14	62	6.015	0.044	4.5	0.0340	0.0000	OK
120 minute summer	15	64	5.936	0.086	5.8	0.0226	0.0000	OK
120 minute summer	16	62	5.995	0.015	0.9	0.0063	0.0000	OK
120 minute summer	17	66	5.932	0.082	2.2	0.0216	0.0000	OK
120 minute summer	18	2	6.000	0.000	0.0	0.0000	0.0000	OK
120 minute summer	19	66	5.931	0.081	1.3	0.0342	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	1.000	1	4.5	0.565	0.483	0.5657	12.6
120 minute summer	3	1.001	2	0.0	0.000	0.000	0.0541	
120 minute summer	4	1.002	2	0.3	0.301	0.043	0.0569	
120 minute summer	5	1.003	4	1.1	0.234	0.158	0.0930	
120 minute summer	6	1.004	7	0.4	0.364	0.086	0.0076	
120 minute summer	7	1.005	8	0.4	0.335	0.027	0.0132	
120 minute summer	8	1.006	9	0.9	0.177	0.033	0.0306	
120 minute summer	9	Flow through pond	5	9.5	0.032	0.023	19.6793	
120 minute summer	10	1.007	8	0.0	0.000	0.000	0.0033	
120 minute summer	11	1.013	12	1.3	0.589	0.248	0.0269	
120 minute summer	12	1.008	13	1.3	0.427	0.090	0.0225	
120 minute summer	13	1.009	14	2.7	0.681	0.135	0.0278	
120 minute summer	14	1.010	15	4.5	0.621	0.192	0.0505	
120 minute summer	15	Flow through pond	5	9.5	0.032	0.023	19.6793	
120 minute summer	16	1.011	17	0.9	0.193	0.022	0.0133	
120 minute summer	17	Flow through pond	5	9.5	0.032	0.023	19.6793	
120 minute summer	18	1.012	19	0.0	0.000	0.000	0.0363	
120 minute summer	19	Flow through pond	5	9.5	0.032	0.023	19.6793	

Results for 100 year +40% CC 120 minute winter. 360 minute analysis at 2 minute timestep. Mass balance: 99.39%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
120 minute winter	1	62	5.366	0.066	5.2	0.0000	0.0000	OK
120 minute winter	2	62	5.585	0.085	5.2	0.0492	0.0000	OK
120 minute winter	3	2	5.740	0.000	0.0	0.0000	0.0000	OK
120 minute winter	4	120	5.947	0.287	1.3	0.3249	0.0000	SURCHARGED
120 minute winter	5	120	5.947	0.097	12.1	0.0000	0.0000	OK
120 minute winter	6	62	6.120	0.020	0.4	0.0029	0.0000	OK
120 minute winter	7	64	6.070	0.017	0.4	0.0027	0.0000	OK
120 minute winter	8	64	5.999	0.020	1.0	0.0061	0.0000	OK
120 minute winter	9	118	5.948	0.098	2.4	0.0258	0.0000	OK
120 minute winter	10	2	6.100	0.000	0.0	0.0000	0.0000	OK
120 minute winter	11	60	6.236	0.036	1.4	0.0253	0.0000	OK
120 minute winter	12	62	6.139	0.031	1.4	0.0050	0.0000	OK
120 minute winter	13	62	6.100	0.041	3.0	0.0335	0.0000	OK
120 minute winter	14	62	6.017	0.047	5.0	0.0360	0.0000	OK
120 minute winter	15	118	5.948	0.098	6.4	0.0259	0.0000	OK
120 minute winter	16	60	5.996	0.016	1.0	0.0067	0.0000	OK
120 minute winter	17	118	5.948	0.098	2.4	0.0258	0.0000	OK
120 minute winter	18	2	6.000	0.000	0.0	0.0000	0.0000	OK
120 minute winter	19	122	5.947	0.097	1.4	0.0412	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	1.000	1	5.2	0.588	0.561	0.6313	18.6
120 minute winter	3	1.001	2	0.0	0.000	0.000	0.0589	
120 minute winter	4	1.002	2	0.3	0.299	0.043	0.0638	
120 minute winter	5	1.003	4	1.3	0.265	0.187	0.1090	
120 minute winter	6	1.004	7	0.4	0.364	0.086	0.0076	
120 minute winter	7	1.005	8	0.4	0.334	0.028	0.0138	
120 minute winter	8	1.006	9	1.0	0.185	0.037	0.0348	
120 minute winter	9	Flow through pond	5	12.1	0.034	0.029	34.2236	
120 minute winter	10	1.007	8	0.0	0.000	0.000	0.0036	
120 minute winter	11	1.013	12	1.4	0.602	0.268	0.0283	
120 minute winter	12	1.008	13	1.4	0.430	0.097	0.0241	
120 minute winter	13	1.009	14	3.0	0.700	0.150	0.0300	
120 minute winter	14	1.010	15	5.0	0.638	0.213	0.0549	
120 minute winter	15	Flow through pond	5	12.1	0.034	0.029	34.2236	
120 minute winter	16	1.011	17	1.0	0.255	0.024	0.0154	
120 minute winter	17	Flow through pond	5	12.1	0.034	0.029	34.2236	
120 minute winter	18	1.012	19	0.0	0.000	0.000	0.0455	
120 minute winter	19	Flow through pond	5	12.1	0.034	0.029	34.2236	

Results for 100 year +40% CC 180 minute summer. 420 minute analysis at 4 minute timestep. Mass balance: 99.57%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
180 minute summer	1	92	5.353	0.053	3.5	0.0000	0.0000	OK
180 minute summer	2	92	5.567	0.067	3.6	0.0385	0.0000	OK
180 minute summer	3	4	5.740	0.000	0.0	0.0000	0.0000	OK
180 minute summer	4	184	5.919	0.259	1.0	0.2933	0.0000	SURCHARGED
180 minute summer	5	184	5.919	0.069	7.2	0.0000	0.0000	OK
180 minute summer	6	92	6.117	0.017	0.3	0.0024	0.0000	OK
180 minute summer	7	92	6.067	0.014	0.3	0.0023	0.0000	OK
180 minute summer	8	92	5.995	0.016	0.7	0.0050	0.0000	OK
180 minute summer	9	96	5.925	0.075	1.7	0.0198	0.0000	OK
180 minute summer	10	4	6.100	0.000	0.0	0.0000	0.0000	OK
180 minute summer	11	92	6.230	0.030	1.0	0.0210	0.0000	OK
180 minute summer	12	92	6.134	0.026	1.0	0.0042	0.0000	OK
180 minute summer	13	92	6.092	0.033	2.1	0.0272	0.0000	OK
180 minute summer	14	92	6.009	0.039	3.4	0.0296	0.0000	OK
180 minute summer	15	96	5.928	0.078	4.4	0.0206	0.0000	OK
180 minute summer	16	92	5.994	0.014	0.7	0.0056	0.0000	OK
180 minute summer	17	96	5.925	0.075	1.7	0.0198	0.0000	OK
180 minute summer	18	4	6.000	0.000	0.0	0.0000	0.0000	OK
180 minute summer	19	96	5.924	0.074	1.0	0.0314	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
180 minute summer	2	1.000	1	3.5	0.526	0.371	0.4668	14.0
180 minute summer	3	1.001	2	0.0	0.000	0.000	0.0460	
180 minute summer	4	1.002	2	0.3	0.300	0.042	0.0510	
180 minute summer	5	1.003	4	1.0	0.198	0.137	0.0952	
180 minute summer	6	1.004	7	0.3	0.330	0.061	0.0059	
180 minute summer	7	1.005	8	0.3	0.287	0.018	0.0103	
180 minute summer	8	1.006	9	0.7	0.148	0.024	0.0272	
180 minute summer	9	Flow through pond	5	7.2	0.027	0.017	21.2581	
180 minute summer	10	1.007	8	0.0	0.000	0.000	0.0027	
180 minute summer	11	1.013	12	1.0	0.545	0.187	0.0219	
180 minute summer	12	1.008	13	1.0	0.390	0.066	0.0181	
180 minute summer	13	1.009	14	2.0	0.630	0.101	0.0226	
180 minute summer	14	1.010	15	3.4	0.542	0.145	0.0440	
180 minute summer	15	Flow through pond	5	7.2	0.027	0.017	21.2581	
180 minute summer	16	1.011	17	0.7	0.163	0.017	0.0119	
180 minute summer	17	Flow through pond	5	7.2	0.027	0.017	21.2581	
180 minute summer	18	1.012	19	0.0	0.000	0.000	0.0326	
180 minute summer	19	Flow through pond	5	7.2	0.027	0.017	21.2581	

Results for 100 year +40% CC 180 minute winter. 420 minute analysis at 4 minute timestep. Mass balance: 99.55%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
180 minute winter	1	92	5.357	0.057	3.9	0.0000	0.0000	OK
180 minute winter	2	92	5.572	0.072	3.9	0.0412	0.0000	OK
180 minute winter	3	4	5.740	0.000	0.0	0.0000	0.0000	OK
180 minute winter	4	180	5.954	0.294	0.9	0.3325	0.0000	SURCHARGED
180 minute winter	5	180	5.954	0.104	8.6	0.0000	0.0000	SURCHARGED
180 minute winter	6	92	6.117	0.017	0.3	0.0025	0.0000	OK
180 minute winter	7	92	6.068	0.015	0.3	0.0024	0.0000	OK
180 minute winter	8	92	5.996	0.017	0.7	0.0052	0.0000	OK
180 minute winter	9	180	5.954	0.104	1.7	0.0275	0.0000	OK
180 minute winter	10	4	6.100	0.000	0.0	0.0000	0.0000	OK
180 minute winter	11	92	6.230	0.030	1.0	0.0212	0.0000	OK
180 minute winter	12	88	6.135	0.027	1.0	0.0042	0.0000	OK
180 minute winter	13	96	6.093	0.034	2.2	0.0284	0.0000	OK
180 minute winter	14	92	6.010	0.040	3.7	0.0308	0.0000	OK
180 minute winter	15	176	5.955	0.105	4.7	0.0276	0.0000	OK
180 minute winter	16	88	5.994	0.014	0.7	0.0056	0.0000	OK
180 minute winter	17	176	5.954	0.104	1.7	0.0275	0.0000	OK
180 minute winter	18	4	6.000	0.000	0.0	0.0000	0.0000	OK
180 minute winter	19	180	5.954	0.104	1.0	0.0441	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	1.000	1	3.9	0.545	0.419	0.5090	20.6
180 minute winter	3	1.001	2	0.0	0.000	0.000	0.0495	
180 minute winter	4	1.002	2	0.3	0.299	0.043	0.0544	
180 minute winter	5	1.003	4	0.9	0.224	0.128	0.1094	
180 minute winter	6	1.004	7	0.3	0.335	0.065	0.0062	
180 minute winter	7	1.005	8	0.3	0.304	0.021	0.0110	
180 minute winter	8	1.006	9	0.7	0.154	0.026	0.0370	
180 minute winter	9	Flow through pond	5	8.6	0.024	0.020	37.3572	
180 minute winter	10	1.007	8	0.0	0.000	0.000	0.0028	
180 minute winter	11	1.013	12	1.0	0.546	0.191	0.0224	
180 minute winter	12	1.008	13	1.0	0.397	0.069	0.0190	
180 minute winter	13	1.009	14	2.2	0.650	0.110	0.0240	
180 minute winter	14	1.010	15	3.7	0.552	0.158	0.0489	
180 minute winter	15	Flow through pond	5	8.6	0.024	0.020	37.3572	
180 minute winter	16	1.011	17	0.7	0.160	0.017	0.0165	
180 minute winter	17	Flow through pond	5	8.6	0.024	0.020	37.3572	
180 minute winter	18	1.012	19	0.0	0.000	0.000	0.0490	
180 minute winter	19	Flow through pond	5	8.6	0.024	0.020	37.3572	

Results for 100 year +40% CC 240 minute summer. 480 minute analysis at 4 minute timestep. Mass balance: 99.64%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
240 minute summer	1	124	5.348	0.048	2.8	0.0000	0.0000	OK
240 minute summer	2	124	5.560	0.060	2.8	0.0344	0.0000	OK
240 minute summer	3	4	5.740	0.000	0.0	0.0000	0.0000	OK
240 minute summer	4	244	5.922	0.262	0.8	0.2962	0.0000	SURCHARGED
240 minute summer	5	244	5.922	0.072	5.4	0.0000	0.0000	OK
240 minute summer	6	128	6.114	0.014	0.2	0.0020	0.0000	OK
240 minute summer	7	132	6.065	0.012	0.2	0.0020	0.0000	OK
240 minute summer	8	124	5.993	0.014	0.5	0.0044	0.0000	OK
240 minute summer	9	240	5.922	0.072	1.2	0.0190	0.0000	OK
240 minute summer	10	4	6.100	0.000	0.0	0.0000	0.0000	OK
240 minute summer	11	124	6.225	0.025	0.7	0.0176	0.0000	OK
240 minute summer	12	124	6.130	0.022	0.7	0.0036	0.0000	OK
240 minute summer	13	124	6.087	0.028	1.5	0.0231	0.0000	OK
240 minute summer	14	124	6.004	0.034	2.6	0.0258	0.0000	OK
240 minute summer	15	128	5.923	0.073	3.3	0.0192	0.0000	OK
240 minute summer	16	120	5.992	0.012	0.5	0.0048	0.0000	OK
240 minute summer	17	240	5.922	0.072	1.2	0.0190	0.0000	OK
240 minute summer	18	4	6.000	0.000	0.0	0.0000	0.0000	OK
240 minute summer	19	240	5.922	0.072	0.7	0.0305	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	1.000	1	2.8	0.500	0.305	0.4040	15.2
240 minute summer	3	1.001	2	0.0	0.000	0.000	0.0404	
240 minute summer	4	1.002	2	0.3	0.300	0.043	0.0454	
240 minute summer	5	1.003	4	0.8	0.189	0.109	0.0969	
240 minute summer	6	1.004	7	0.2	0.300	0.043	0.0046	
240 minute summer	7	1.005	8	0.2	0.282	0.014	0.0085	
240 minute summer	8	1.006	9	0.5	0.129	0.018	0.0249	
240 minute summer	9	Flow through pond	5	5.4	0.020	0.013	22.4520	
240 minute summer	10	1.007	8	0.0	0.000	0.000	0.0022	
240 minute summer	11	1.013	12	0.7	0.491	0.134	0.0174	
240 minute summer	12	1.008	13	0.7	0.358	0.048	0.0145	
240 minute summer	13	1.009	14	1.5	0.574	0.075	0.0183	
240 minute summer	14	1.010	15	2.6	0.467	0.111	0.0394	
240 minute summer	15	Flow through pond	5	5.4	0.020	0.013	22.4520	
240 minute summer	16	1.011	17	0.5	0.136	0.012	0.0109	
240 minute summer	17	Flow through pond	5	5.4	0.020	0.013	22.4520	
240 minute summer	18	1.012	19	0.0	0.000	0.000	0.0314	
240 minute summer	19	Flow through pond	5	5.4	0.020	0.013	22.4520	

Results for 100 year +40% CC 240 minute winter. 480 minute analysis at 4 minute timestep. Mass balance: 99.33%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
240 minute winter	1	120	5.351	0.051	3.1	0.0000	0.0000	OK
240 minute winter	2	120	5.563	0.063	3.1	0.0364	0.0000	OK
240 minute winter	3	4	5.740	0.000	0.0	0.0000	0.0000	OK
240 minute winter	4	240	5.956	0.296	0.8	0.3353	0.0000	SURCHARGED
240 minute winter	5	240	5.957	0.107	6.8	0.0000	0.0000	SURCHARGED
240 minute winter	6	112	6.114	0.014	0.2	0.0020	0.0000	OK
240 minute winter	7	148	6.065	0.012	0.2	0.0020	0.0000	OK
240 minute winter	8	124	5.994	0.015	0.6	0.0048	0.0000	OK
240 minute winter	9	236	5.957	0.107	1.4	0.0282	0.0000	OK
240 minute winter	10	4	6.100	0.000	0.0	0.0000	0.0000	OK
240 minute winter	11	116	6.227	0.027	0.8	0.0189	0.0000	OK
240 minute winter	12	116	6.132	0.024	0.8	0.0038	0.0000	OK
240 minute winter	13	116	6.089	0.030	1.7	0.0248	0.0000	OK
240 minute winter	14	124	6.006	0.036	2.9	0.0273	0.0000	OK
240 minute winter	15	236	5.957	0.107	3.7	0.0283	0.0000	OK
240 minute winter	16	116	5.993	0.013	0.6	0.0052	0.0000	OK
240 minute winter	17	236	5.957	0.107	1.4	0.0282	0.0000	OK
240 minute winter	18	4	6.000	0.000	0.0	0.0000	0.0000	OK
240 minute winter	19	236	5.957	0.107	0.8	0.0451	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	1.000	1	3.1	0.514	0.336	0.4339	22.3
240 minute winter	3	1.001	2	0.0	0.000	0.000	0.0430	
240 minute winter	4	1.002	2	0.3	0.300	0.043	0.0480	
240 minute winter	5	1.003	4	0.8	0.217	0.120	0.1094	
240 minute winter	6	1.004	7	0.2	0.300	0.043	0.0046	
240 minute winter	7	1.005	8	0.2	0.282	0.014	0.0091	
240 minute winter	8	1.006	9	0.6	0.136	0.022	0.0377	
240 minute winter	9	Flow through pond	5	6.8	0.021	0.016	38.4946	
240 minute winter	10	1.007	8	0.0	0.000	0.000	0.0025	
240 minute winter	11	1.013	12	0.8	0.511	0.153	0.0191	
240 minute winter	12	1.008	13	0.8	0.373	0.055	0.0159	
240 minute winter	13	1.009	14	1.7	0.605	0.085	0.0200	
240 minute winter	14	1.010	15	2.9	0.482	0.124	0.0494	
240 minute winter	15	Flow through pond	5	6.8	0.021	0.016	38.4946	
240 minute winter	16	1.011	17	0.6	0.146	0.015	0.0169	
240 minute winter	17	Flow through pond	5	6.8	0.021	0.016	38.4946	
240 minute winter	18	1.012	19	0.0	0.000	0.000	0.0503	
240 minute winter	19	Flow through pond	5	6.8	0.021	0.016	38.4946	

Results for 100 year +40% CC 360 minute summer. 600 minute analysis at 8 minute timestep. Mass balance: 99.63%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
360 minute summer	1	184	5.342	0.042	2.2	0.0000	0.0000	OK
360 minute summer	2	184	5.552	0.052	2.2	0.0300	0.0000	OK
360 minute summer	3	8	5.740	0.000	0.0	0.0000	0.0000	OK
360 minute summer	4	344	5.926	0.266	0.6	0.3011	0.0000	SURCHARGED
360 minute summer	5	344	5.926	0.076	4.4	0.0000	0.0000	OK
360 minute summer	6	184	6.114	0.014	0.2	0.0020	0.0000	OK
360 minute summer	7	184	6.065	0.012	0.2	0.0019	0.0000	OK
360 minute summer	8	184	5.991	0.012	0.4	0.0038	0.0000	OK
360 minute summer	9	352	5.926	0.076	4.0	0.0202	0.0000	OK
360 minute summer	10	8	6.100	0.000	0.0	0.0000	0.0000	OK
360 minute summer	11	184	6.223	0.023	0.6	0.0163	0.0000	OK
360 minute summer	12	184	6.129	0.021	0.6	0.0033	0.0000	OK
360 minute summer	13	184	6.084	0.025	1.2	0.0205	0.0000	OK
360 minute summer	14	184	5.999	0.029	2.0	0.0225	0.0000	OK
360 minute summer	15	344	5.927	0.077	2.6	0.0202	0.0000	OK
360 minute summer	16	184	5.991	0.011	0.4	0.0043	0.0000	OK
360 minute summer	17	352	5.926	0.076	3.6	0.0202	0.0000	OK
360 minute summer	18	8	6.000	0.000	0.0	0.0000	0.0000	OK
360 minute summer	19	352	5.926	0.076	4.2	0.0323	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	1.000	1	2.2	0.465	0.235	0.3347	17.5
360 minute summer	3	1.001	2	0.0	0.000	0.000	0.0340	
360 minute summer	4	1.002	2	0.3	0.298	0.043	0.0391	
360 minute summer	5	1.003	4	0.6	0.186	0.083	0.0995	
360 minute summer	6	1.004	7	0.2	0.294	0.041	0.0044	
360 minute summer	7	1.005	8	0.2	0.271	0.012	0.0074	
360 minute summer	8	1.006	9	0.4	0.101	0.014	0.0250	
360 minute summer	9	Flow through pond	5	4.4	0.015	0.010	24.4716	
360 minute summer	10	1.007	8	0.0	0.000	0.000	0.0018	
360 minute summer	11	1.013	12	0.6	0.469	0.113	0.0155	
360 minute summer	12	1.008	13	0.6	0.350	0.041	0.0124	
360 minute summer	13	1.009	14	1.2	0.544	0.059	0.0152	
360 minute summer	14	1.010	15	2.0	0.394	0.084	0.0356	
360 minute summer	15	Flow through pond	5	4.4	0.015	0.010	24.4716	
360 minute summer	16	1.011	17	0.4	0.111	0.010	0.0112	
360 minute summer	17	Flow through pond	5	4.4	0.015	0.010	24.4716	
360 minute summer	18	1.012	19	0.0	0.000	0.000	0.0338	
360 minute summer	19	Flow through pond	5	4.4	0.015	0.010	24.4716	

Results for 100 year +40% CC 360 minute winter. 600 minute analysis at 8 minute timestep. Mass balance: 99.50%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
360 minute winter	1	184	5.343	0.043	2.3	0.0000	0.0000	OK
360 minute winter	2	184	5.554	0.054	2.3	0.0309	0.0000	OK
360 minute winter	3	8	5.740	0.000	0.0	0.0000	0.0000	OK
360 minute winter	4	360	5.964	0.304	0.6	0.3438	0.0000	SURCHARGED
360 minute winter	5	360	5.964	0.114	4.9	0.0000	0.0000	SURCHARGED
360 minute winter	6	184	6.114	0.014	0.2	0.0020	0.0000	OK
360 minute winter	7	200	6.065	0.012	0.2	0.0020	0.0000	OK
360 minute winter	8	184	5.993	0.014	0.5	0.0044	0.0000	OK
360 minute winter	9	360	5.964	0.114	1.1	0.0302	0.0000	OK
360 minute winter	10	8	6.100	0.000	0.0	0.0000	0.0000	OK
360 minute winter	11	176	6.223	0.023	0.6	0.0163	0.0000	OK
360 minute winter	12	176	6.129	0.021	0.6	0.0033	0.0000	OK
360 minute winter	13	192	6.085	0.026	1.3	0.0216	0.0000	OK
360 minute winter	14	184	6.001	0.031	2.2	0.0237	0.0000	OK
360 minute winter	15	352	5.965	0.115	2.8	0.0302	0.0000	OK
360 minute winter	16	168	5.991	0.011	0.4	0.0043	0.0000	OK
360 minute winter	17	360	5.964	0.114	1.0	0.0302	0.0000	OK
360 minute winter	18	8	6.000	0.000	0.0	0.0000	0.0000	OK
360 minute winter	19	360	5.964	0.114	0.6	0.0483	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	1.000	1	2.3	0.473	0.250	0.3498	25.6
360 minute winter	3	1.001	2	0.0	0.000	0.000	0.0354	
360 minute winter	4	1.002	2	0.3	0.300	0.043	0.0402	
360 minute winter	5	1.003	4	0.6	0.191	0.088	0.1094	
360 minute winter	6	1.004	7	0.2	0.300	0.043	0.0046	
360 minute winter	7	1.005	8	0.2	0.283	0.014	0.0085	
360 minute winter	8	1.006	9	0.5	0.124	0.018	0.0399	
360 minute winter	9	Flow through pond	5	4.9	0.014	0.012	41.9745	
360 minute winter	10	1.007	8	0.0	0.000	0.000	0.0022	
360 minute winter	11	1.013	12	0.6	0.469	0.115	0.0156	
360 minute winter	12	1.008	13	0.6	0.352	0.042	0.0130	
360 minute winter	13	1.009	14	1.3	0.565	0.065	0.0164	
360 minute winter	14	1.010	15	2.2	0.402	0.094	0.0522	
360 minute winter	15	Flow through pond	5	4.9	0.014	0.012	41.9745	
360 minute winter	16	1.011	17	0.4	0.111	0.010	0.0181	
360 minute winter	17	Flow through pond	5	4.9	0.014	0.012	41.9745	
360 minute winter	18	1.012	19	0.0	0.000	0.000	0.0540	
360 minute winter	19	Flow through pond	5	4.9	0.014	0.012	41.9745	

Results for 100 year +40% CC 480 minute summer. 720 minute analysis at 8 minute timestep. Mass balance: 99.68%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
480 minute summer	1	248	5.337	0.037	1.7	0.0000	0.0000	OK
480 minute summer	2	248	5.546	0.046	1.7	0.0266	0.0000	OK
480 minute summer	3	8	5.740	0.000	0.0	0.0000	0.0000	OK
480 minute summer	4	400	5.923	0.263	0.6	0.2978	0.0000	SURCHARGED
480 minute summer	5	400	5.923	0.073	3.5	0.0000	0.0000	OK
480 minute summer	6	216	6.110	0.010	0.1	0.0015	0.0000	OK
480 minute summer	7	224	6.062	0.009	0.1	0.0014	0.0000	OK
480 minute summer	8	240	5.990	0.011	0.3	0.0035	0.0000	OK
480 minute summer	9	408	5.924	0.074	0.7	0.0194	0.0000	OK
480 minute summer	10	8	6.100	0.000	0.0	0.0000	0.0000	OK
480 minute summer	11	240	6.219	0.019	0.4	0.0133	0.0000	OK
480 minute summer	12	240	6.125	0.017	0.4	0.0027	0.0000	OK
480 minute summer	13	248	6.081	0.022	0.9	0.0179	0.0000	OK
480 minute summer	14	248	5.996	0.026	1.5	0.0197	0.0000	OK
480 minute summer	15	400	5.924	0.074	1.9	0.0195	0.0000	OK
480 minute summer	16	240	5.989	0.009	0.3	0.0038	0.0000	OK
480 minute summer	17	408	5.923	0.073	0.7	0.0194	0.0000	OK
480 minute summer	18	8	6.000	0.000	0.0	0.0000	0.0000	OK
480 minute summer	19	408	5.923	0.073	0.4	0.0311	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
480 minute summer	2	1.000	1	1.7	0.437	0.187	0.2842	19.0
480 minute summer	3	1.001	2	0.0	0.000	0.000	0.0292	
480 minute summer	4	1.002	2	0.3	0.300	0.043	0.0344	
480 minute summer	5	1.003	4	0.6	0.170	0.083	0.0978	
480 minute summer	6	1.004	7	0.1	0.247	0.022	0.0028	
480 minute summer	7	1.005	8	0.1	0.230	0.007	0.0057	
480 minute summer	8	1.006	9	0.3	0.088	0.011	0.0238	
480 minute summer	9	Flow through pond	5	3.5	0.013	0.008	23.1244	
480 minute summer	10	1.007	8	0.0	0.000	0.000	0.0016	
480 minute summer	11	1.013	12	0.4	0.415	0.076	0.0118	
480 minute summer	12	1.008	13	0.4	0.313	0.028	0.0099	
480 minute summer	13	1.009	14	0.9	0.505	0.045	0.0125	
480 minute summer	14	1.010	15	1.5	0.331	0.064	0.0328	
480 minute summer	15	Flow through pond	5	3.5	0.013	0.008	23.1244	
480 minute summer	16	1.011	17	0.3	0.092	0.007	0.0107	
480 minute summer	17	Flow through pond	5	3.5	0.013	0.008	23.1244	
480 minute summer	18	1.012	19	0.0	0.000	0.000	0.0322	
480 minute summer	19	Flow through pond	5	3.5	0.013	0.008	23.1244	

Results for 100 year +40% CC 480 minute winter. 720 minute analysis at 8 minute timestep. Mass balance: 99.57%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
480 minute winter	1	240	5.339	0.039	1.9	0.0000	0.0000	OK
480 minute winter	2	240	5.549	0.049	1.9	0.0280	0.0000	OK
480 minute winter	3	8	5.740	0.000	0.0	0.0000	0.0000	OK
480 minute winter	4	472	5.966	0.306	0.5	0.3456	0.0000	SURCHARGED
480 minute winter	5	472	5.966	0.116	3.5	0.0000	0.0000	SURCHARGED
480 minute winter	6	168	6.110	0.010	0.1	0.0015	0.0000	OK
480 minute winter	7	176	6.062	0.009	0.1	0.0014	0.0000	OK
480 minute winter	8	208	5.990	0.011	0.3	0.0035	0.0000	OK
480 minute winter	9	472	5.966	0.116	0.8	0.0306	0.0000	OK
480 minute winter	10	8	6.100	0.000	0.0	0.0000	0.0000	OK
480 minute winter	11	240	6.221	0.021	0.5	0.0149	0.0000	OK
480 minute winter	12	240	6.127	0.019	0.5	0.0030	0.0000	OK
480 minute winter	13	240	6.082	0.023	1.0	0.0188	0.0000	OK
480 minute winter	14	240	5.997	0.027	1.7	0.0209	0.0000	OK
480 minute winter	15	464	5.966	0.116	2.2	0.0306	0.0000	OK
480 minute winter	16	208	5.989	0.009	0.3	0.0038	0.0000	OK
480 minute winter	17	472	5.966	0.116	0.8	0.0306	0.0000	OK
480 minute winter	18	8	6.000	0.000	0.0	0.0000	0.0000	OK
480 minute winter	19	472	5.966	0.116	0.5	0.0490	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
480 minute winter	2	1.000	1	1.9	0.449	0.207	0.3059	28.3
480 minute winter	3	1.001	2	0.0	0.000	0.000	0.0313	
480 minute winter	4	1.002	2	0.3	0.301	0.043	0.0361	
480 minute winter	5	1.003	4	0.5	0.187	0.065	0.1094	
480 minute winter	6	1.004	7	0.1	0.247	0.022	0.0028	
480 minute winter	7	1.005	8	0.1	0.230	0.007	0.0057	
480 minute winter	8	1.006	9	0.3	0.087	0.011	0.0405	
480 minute winter	9	Flow through pond	5	3.5	0.012	0.008	42.7067	
480 minute winter	10	1.007	8	0.0	0.000	0.000	0.0016	
480 minute winter	11	1.013	12	0.5	0.444	0.096	0.0137	
480 minute winter	12	1.008	13	0.5	0.335	0.035	0.0110	
480 minute winter	13	1.009	14	1.0	0.516	0.050	0.0136	
480 minute winter	14	1.010	15	1.7	0.351	0.073	0.0529	
480 minute winter	15	Flow through pond	5	3.5	0.012	0.008	42.7067	
480 minute winter	16	1.011	17	0.3	0.092	0.007	0.0184	
480 minute winter	17	Flow through pond	5	3.5	0.012	0.008	42.7067	
480 minute winter	18	1.012	19	0.0	0.000	0.000	0.0548	
480 minute winter	19	Flow through pond	5	3.5	0.012	0.008	42.7067	

Results for 100 year +40% CC 600 minute summer. 840 minute analysis at 15 minute timestep. Mass balance: 99.70%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
600 minute summer	1	315	5.334	0.034	1.4	0.0000	0.0000	OK
600 minute summer	2	315	5.542	0.042	1.4	0.0242	0.0000	OK
600 minute summer	3	15	5.740	0.000	0.0	0.0000	0.0000	OK
600 minute summer	4	465	5.920	0.260	0.5	0.2942	0.0000	SURCHARGED
600 minute summer	5	465	5.920	0.070	2.7	0.0000	0.0000	OK
600 minute summer	6	285	6.110	0.010	0.1	0.0015	0.0000	OK
600 minute summer	7	300	6.062	0.009	0.1	0.0014	0.0000	OK
600 minute summer	8	300	5.988	0.009	0.2	0.0029	0.0000	OK
600 minute summer	9	465	5.920	0.070	0.5	0.0186	0.0000	OK
600 minute summer	10	15	6.100	0.000	0.0	0.0000	0.0000	OK
600 minute summer	11	300	6.217	0.017	0.3	0.0116	0.0000	OK
600 minute summer	12	300	6.123	0.015	0.3	0.0024	0.0000	OK
600 minute summer	13	315	6.078	0.019	0.7	0.0158	0.0000	OK
600 minute summer	14	315	5.993	0.023	1.2	0.0177	0.0000	OK
600 minute summer	15	465	5.921	0.071	1.5	0.0186	0.0000	OK
600 minute summer	16	285	5.988	0.008	0.2	0.0031	0.0000	OK
600 minute summer	17	465	5.920	0.070	0.5	0.0186	0.0000	OK
600 minute summer	18	15	6.000	0.000	0.0	0.0000	0.0000	OK
600 minute summer	19	465	5.920	0.070	0.3	0.0297	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
600 minute summer	2	1.000	1	1.4	0.414	0.155	0.2485	20.2
600 minute summer	3	1.001	2	0.0	0.000	0.000	0.0258	
600 minute summer	4	1.002	2	0.3	0.301	0.043	0.0309	
600 minute summer	5	1.003	4	0.5	0.154	0.065	0.0958	
600 minute summer	6	1.004	7	0.1	0.247	0.022	0.0028	
600 minute summer	7	1.005	8	0.1	0.230	0.007	0.0049	
600 minute summer	8	1.006	9	0.2	0.065	0.007	0.0225	
600 minute summer	9	Flow through pond	5	2.7	0.012	0.006	21.6601	
600 minute summer	10	1.007	8	0.0	0.000	0.000	0.0012	
600 minute summer	11	1.013	12	0.3	0.381	0.057	0.0096	
600 minute summer	12	1.008	13	0.3	0.289	0.021	0.0082	
600 minute summer	13	1.009	14	0.7	0.464	0.035	0.0106	
600 minute summer	14	1.010	15	1.2	0.288	0.051	0.0304	
600 minute summer	15	Flow through pond	5	2.7	0.012	0.006	21.6601	
600 minute summer	16	1.011	17	0.2	0.070	0.005	0.0101	
600 minute summer	17	Flow through pond	5	2.7	0.012	0.006	21.6601	
600 minute summer	18	1.012	19	0.0	0.000	0.000	0.0304	
600 minute summer	19	Flow through pond	5	2.7	0.012	0.006	21.6601	

Results for 100 year +40% CC 600 minute winter. 840 minute analysis at 15 minute timestep. Mass balance: 99.52%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
600 minute winter	1	315	5.336	0.036	1.6	0.0000	0.0000	OK
600 minute winter	2	315	5.545	0.045	1.6	0.0257	0.0000	OK
600 minute winter	3	15	5.740	0.000	0.0	0.0000	0.0000	OK
600 minute winter	4	585	5.970	0.310	0.5	0.3503	0.0000	SURCHARGED
600 minute winter	5	585	5.970	0.120	2.7	0.0000	0.0000	SURCHARGED
600 minute winter	6	225	6.110	0.010	0.1	0.0015	0.0000	OK
600 minute winter	7	240	6.062	0.009	0.1	0.0014	0.0000	OK
600 minute winter	8	300	5.990	0.011	0.3	0.0035	0.0000	OK
600 minute winter	9	585	5.970	0.120	0.7	0.0317	0.0000	OK
600 minute winter	10	15	6.100	0.000	0.0	0.0000	0.0000	OK
600 minute winter	11	300	6.219	0.019	0.4	0.0133	0.0000	OK
600 minute winter	12	300	6.125	0.017	0.4	0.0027	0.0000	OK
600 minute winter	13	315	6.081	0.022	0.9	0.0179	0.0000	OK
600 minute winter	14	315	5.996	0.026	1.5	0.0197	0.0000	OK
600 minute winter	15	585	5.970	0.120	1.9	0.0317	0.0000	OK
600 minute winter	16	300	5.989	0.009	0.3	0.0038	0.0000	OK
600 minute winter	17	585	5.970	0.120	0.7	0.0317	0.0000	OK
600 minute winter	18	15	6.000	0.000	0.0	0.0000	0.0000	OK
600 minute winter	19	585	5.970	0.120	0.4	0.0507	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
600 minute winter	2	1.000	1	1.6	0.428	0.174	0.2699	30.6
600 minute winter	3	1.001	2	0.0	0.000	0.000	0.0279	
600 minute winter	4	1.002	2	0.3	0.301	0.042	0.0327	
600 minute winter	5	1.003	4	0.5	0.155	0.065	0.1094	
600 minute winter	6	1.004	7	0.1	0.247	0.022	0.0028	
600 minute winter	7	1.005	8	0.1	0.230	0.007	0.0057	
600 minute winter	8	1.006	9	0.3	0.086	0.011	0.0419	
600 minute winter	9	Flow through pond	5	2.7	0.013	0.006	44.6318	
600 minute winter	10	1.007	8	0.0	0.000	0.000	0.0016	
600 minute winter	11	1.013	12	0.4	0.415	0.076	0.0118	
600 minute winter	12	1.008	13	0.4	0.313	0.028	0.0099	
600 minute winter	13	1.009	14	0.9	0.505	0.045	0.0125	
600 minute winter	14	1.010	15	1.5	0.301	0.064	0.0545	
600 minute winter	15	Flow through pond	5	2.7	0.013	0.006	44.6318	
600 minute winter	16	1.011	17	0.3	0.089	0.007	0.0188	
600 minute winter	17	Flow through pond	5	2.7	0.013	0.006	44.6318	
600 minute winter	18	1.012	19	0.0	0.000	0.000	0.0567	
600 minute winter	19	Flow through pond	5	2.7	0.013	0.006	44.6318	

Results for 100 year +40% CC 720 minute summer. 960 minute analysis at 15 minute timestep. Mass balance: 99.69%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
720 minute summer	1	375	5.333	0.033	1.3	0.0000	0.0000	OK
720 minute summer	2	375	5.541	0.041	1.3	0.0233	0.0000	OK
720 minute summer	3	15	5.740	0.000	0.0	0.0000	0.0000	OK
720 minute summer	4	525	5.920	0.260	0.5	0.2937	0.0000	SURCHARGED
720 minute summer	5	525	5.920	0.070	2.6	0.0000	0.0000	OK
720 minute summer	6	345	6.110	0.010	0.1	0.0015	0.0000	OK
720 minute summer	7	360	6.062	0.009	0.1	0.0014	0.0000	OK
720 minute summer	8	360	5.988	0.009	0.2	0.0029	0.0000	OK
720 minute summer	9	525	5.920	0.070	0.5	0.0185	0.0000	OK
720 minute summer	10	15	6.100	0.000	0.0	0.0000	0.0000	OK
720 minute summer	11	360	6.217	0.017	0.3	0.0116	0.0000	OK
720 minute summer	12	360	6.123	0.015	0.3	0.0024	0.0000	OK
720 minute summer	13	360	6.077	0.018	0.6	0.0147	0.0000	OK
720 minute summer	14	360	5.991	0.021	1.0	0.0162	0.0000	OK
720 minute summer	15	525	5.920	0.070	1.3	0.0185	0.0000	OK
720 minute summer	16	345	5.988	0.008	0.2	0.0031	0.0000	OK
720 minute summer	17	525	5.920	0.070	0.5	0.0184	0.0000	OK
720 minute summer	18	15	6.000	0.000	0.0	0.0000	0.0000	OK
720 minute summer	19	525	5.920	0.070	0.3	0.0296	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
720 minute summer	2	1.000	1	1.3	0.405	0.144	0.2362	21.7
720 minute summer	3	1.001	2	0.0	0.000	0.000	0.0246	
720 minute summer	4	1.002	2	0.3	0.301	0.043	0.0297	
720 minute summer	5	1.003	4	0.5	0.155	0.069	0.0955	
720 minute summer	6	1.004	7	0.1	0.247	0.022	0.0028	
720 minute summer	7	1.005	8	0.1	0.230	0.007	0.0049	
720 minute summer	8	1.006	9	0.2	0.065	0.007	0.0223	
720 minute summer	9	Flow through pond	5	2.6	0.012	0.006	21.4551	
720 minute summer	10	1.007	8	0.0	0.000	0.000	0.0012	
720 minute summer	11	1.013	12	0.3	0.381	0.057	0.0096	
720 minute summer	12	1.008	13	0.3	0.289	0.021	0.0077	
720 minute summer	13	1.009	14	0.6	0.448	0.030	0.0094	
720 minute summer	14	1.010	15	1.0	0.253	0.043	0.0301	
720 minute summer	15	Flow through pond	5	2.6	0.012	0.006	21.4551	
720 minute summer	16	1.011	17	0.2	0.070	0.005	0.0100	
720 minute summer	17	Flow through pond	5	2.6	0.012	0.006	21.4551	
720 minute summer	18	1.012	19	0.0	0.000	0.000	0.0302	
720 minute summer	19	Flow through pond	5	2.6	0.012	0.006	21.4551	

Results for 100 year +40% CC 720 minute winter. 960 minute analysis at 15 minute timestep. Mass balance: 99.53%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
720 minute winter	1	360	5.334	0.034	1.4	0.0000	0.0000	OK
720 minute winter	2	360	5.542	0.042	1.4	0.0240	0.0000	OK
720 minute winter	3	15	5.740	0.000	0.0	0.0000	0.0000	OK
720 minute winter	4	690	5.971	0.311	0.4	0.3517	0.0000	SURCHARGED
720 minute winter	5	690	5.971	0.121	2.5	0.0000	0.0000	SURCHARGED
720 minute winter	6	270	6.110	0.010	0.1	0.0015	0.0000	OK
720 minute winter	7	285	6.062	0.009	0.1	0.0014	0.0000	OK
720 minute winter	8	285	5.988	0.009	0.2	0.0029	0.0000	OK
720 minute winter	9	690	5.971	0.121	0.5	0.0320	0.0000	OK
720 minute winter	10	15	6.100	0.000	0.0	0.0000	0.0000	OK
720 minute winter	11	315	6.217	0.017	0.3	0.0116	0.0000	OK
720 minute winter	12	315	6.123	0.015	0.3	0.0024	0.0000	OK
720 minute winter	13	405	6.078	0.019	0.7	0.0158	0.0000	OK
720 minute winter	14	360	5.993	0.023	1.2	0.0177	0.0000	OK
720 minute winter	15	690	5.971	0.121	1.5	0.0321	0.0000	OK
720 minute winter	16	300	5.988	0.008	0.2	0.0031	0.0000	OK
720 minute winter	17	690	5.971	0.121	0.5	0.0320	0.0000	OK
720 minute winter	18	15	6.000	0.000	0.0	0.0000	0.0000	OK
720 minute winter	19	690	5.971	0.121	0.3	0.0513	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
720 minute winter	2	1.000	1	1.4	0.412	0.153	0.2463	32.1
720 minute winter	3	1.001	2	0.0	0.000	0.000	0.0256	
720 minute winter	4	1.002	2	0.3	0.301	0.043	0.0305	
720 minute winter	5	1.003	4	0.4	0.154	0.055	0.1094	
720 minute winter	6	1.004	7	0.1	0.247	0.022	0.0028	
720 minute winter	7	1.005	8	0.1	0.230	0.007	0.0049	
720 minute winter	8	1.006	9	0.2	0.067	0.007	0.0423	
720 minute winter	9	Flow through pond	5	2.5	0.012	0.006	45.2074	
720 minute winter	10	1.007	8	0.0	0.000	0.000	0.0012	
720 minute winter	11	1.013	12	0.3	0.381	0.057	0.0096	
720 minute winter	12	1.008	13	0.3	0.289	0.021	0.0082	
720 minute winter	13	1.009	14	0.7	0.479	0.035	0.0106	
720 minute winter	14	1.010	15	1.2	0.266	0.051	0.0550	
720 minute winter	15	Flow through pond	5	2.5	0.012	0.006	45.2074	
720 minute winter	16	1.011	17	0.2	0.068	0.005	0.0190	
720 minute winter	17	Flow through pond	5	2.5	0.012	0.006	45.2074	
720 minute winter	18	1.012	19	0.0	0.000	0.000	0.0572	
720 minute winter	19	Flow through pond	5	2.5	0.012	0.006	45.2074	

Results for 100 year +40% CC 960 minute summer. 1200 minute analysis at 15 minute timestep. Mass balance: 99.67%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
960 minute summer	1	495	5.330	0.030	1.1	0.0000	0.0000	OK
960 minute summer	2	495	5.537	0.037	1.1	0.0216	0.0000	OK
960 minute summer	3	15	5.740	0.000	0.0	0.0000	0.0000	OK
960 minute summer	4	660	5.917	0.257	0.4	0.2908	0.0000	SURCHARGED
960 minute summer	5	660	5.917	0.067	2.0	0.0000	0.0000	OK
960 minute summer	6	465	6.110	0.010	0.1	0.0015	0.0000	OK
960 minute summer	7	480	6.062	0.009	0.1	0.0014	0.0000	OK
960 minute summer	8	480	5.988	0.009	0.2	0.0029	0.0000	OK
960 minute summer	9	660	5.917	0.067	0.4	0.0178	0.0000	OK
960 minute summer	10	15	6.100	0.000	0.0	0.0000	0.0000	OK
960 minute summer	11	450	6.214	0.014	0.2	0.0095	0.0000	OK
960 minute summer	12	450	6.120	0.012	0.2	0.0020	0.0000	OK
960 minute summer	13	495	6.075	0.016	0.5	0.0135	0.0000	OK
960 minute summer	14	495	5.990	0.020	0.9	0.0154	0.0000	OK
960 minute summer	15	660	5.918	0.068	1.1	0.0178	0.0000	OK
960 minute summer	16	480	5.988	0.008	0.2	0.0031	0.0000	OK
960 minute summer	17	660	5.917	0.067	0.4	0.0178	0.0000	OK
960 minute summer	18	15	6.000	0.000	0.0	0.0000	0.0000	OK
960 minute summer	19	660	5.917	0.067	0.2	0.0285	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
960 minute summer	2	1.000	1	1.1	0.388	0.123	0.2103	24.7
960 minute summer	3	1.001	2	0.0	0.000	0.000	0.0221	
960 minute summer	4	1.002	2	0.3	0.303	0.042	0.0273	
960 minute summer	5	1.003	4	0.4	0.173	0.056	0.0938	
960 minute summer	6	1.004	7	0.1	0.247	0.022	0.0028	
960 minute summer	7	1.005	8	0.1	0.230	0.007	0.0049	
960 minute summer	8	1.006	9	0.2	0.067	0.007	0.0212	
960 minute summer	9	Flow through pond	5	2.0	0.012	0.005	20.2569	
960 minute summer	10	1.007	8	0.0	0.000	0.000	0.0012	
960 minute summer	11	1.013	12	0.2	0.337	0.038	0.0073	
960 minute summer	12	1.008	13	0.2	0.255	0.014	0.0063	
960 minute summer	13	1.009	14	0.5	0.411	0.025	0.0085	
960 minute summer	14	1.010	15	0.9	0.236	0.038	0.0288	
960 minute summer	15	Flow through pond	5	2.0	0.012	0.005	20.2569	
960 minute summer	16	1.011	17	0.2	0.069	0.005	0.0095	
960 minute summer	17	Flow through pond	5	2.0	0.012	0.005	20.2569	
960 minute summer	18	1.012	19	0.0	0.000	0.000	0.0287	
960 minute summer	19	Flow through pond	5	2.0	0.012	0.005	20.2569	

Results for 100 year +40% CC 960 minute winter. 1200 minute analysis at 15 minute timestep. Mass balance: 99.56%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
960 minute winter	1	480	5.331	0.031	1.2	0.0000	0.0000	OK
960 minute winter	2	480	5.539	0.039	1.2	0.0223	0.0000	OK
960 minute winter	3	15	5.740	0.000	0.0	0.0000	0.0000	OK
960 minute winter	4	795	5.967	0.307	0.4	0.3474	0.0000	SURCHARGED
960 minute winter	5	795	5.967	0.117	2.0	0.0000	0.0000	SURCHARGED
960 minute winter	6	390	6.110	0.010	0.1	0.0015	0.0000	OK
960 minute winter	7	405	6.062	0.009	0.1	0.0014	0.0000	OK
960 minute winter	8	405	5.988	0.009	0.2	0.0029	0.0000	OK
960 minute winter	9	795	5.967	0.117	0.5	0.0310	0.0000	OK
960 minute winter	10	15	6.100	0.000	0.0	0.0000	0.0000	OK
960 minute winter	11	465	6.217	0.017	0.3	0.0116	0.0000	OK
960 minute winter	12	465	6.123	0.015	0.3	0.0024	0.0000	OK
960 minute winter	13	465	6.077	0.018	0.6	0.0147	0.0000	OK
960 minute winter	14	465	5.991	0.021	1.0	0.0162	0.0000	OK
960 minute winter	15	795	5.968	0.118	1.3	0.0311	0.0000	OK
960 minute winter	16	420	5.988	0.008	0.2	0.0031	0.0000	OK
960 minute winter	17	795	5.967	0.117	0.5	0.0310	0.0000	OK
960 minute winter	18	15	6.000	0.000	0.0	0.0000	0.0000	OK
960 minute winter	19	795	5.967	0.117	0.3	0.0496	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
960 minute winter	2	1.000	1	1.2	0.395	0.132	0.2211	36.2
960 minute winter	3	1.001	2	0.0	0.000	0.000	0.0232	
960 minute winter	4	1.002	2	0.3	0.301	0.043	0.0281	
960 minute winter	5	1.003	4	0.4	0.138	0.057	0.1094	
960 minute winter	6	1.004	7	0.1	0.247	0.022	0.0028	
960 minute winter	7	1.005	8	0.1	0.230	0.007	0.0049	
960 minute winter	8	1.006	9	0.2	0.067	0.007	0.0410	
960 minute winter	9	Flow through pond	5	2.0	0.011	0.005	43.4347	
960 minute winter	10	1.007	8	0.0	0.000	0.000	0.0012	
960 minute winter	11	1.013	12	0.3	0.381	0.057	0.0096	
960 minute winter	12	1.008	13	0.3	0.289	0.021	0.0077	
960 minute winter	13	1.009	14	0.6	0.448	0.030	0.0094	
960 minute winter	14	1.010	15	1.0	0.246	0.043	0.0534	
960 minute winter	15	Flow through pond	5	2.0	0.011	0.005	43.4347	
960 minute winter	16	1.011	17	0.2	0.068	0.005	0.0184	
960 minute winter	17	Flow through pond	5	2.0	0.011	0.005	43.4347	
960 minute winter	18	1.012	19	0.0	0.000	0.000	0.0555	
960 minute winter	19	Flow through pond	5	2.0	0.011	0.005	43.4347	

Results for 100 year +40% CC 1440 minute summer. 1680 minute analysis at 30 minute timestep. Mass balance: 99.63%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
1440 minute summer	1	750	5.326	0.026	0.8	0.0000	0.0000	OK
1440 minute summer	2	750	5.532	0.032	0.8	0.0186	0.0000	OK
1440 minute summer	3	30	5.740	0.000	0.0	0.0000	0.0000	OK
1440 minute summer	4	960	5.916	0.256	0.4	0.2893	0.0000	SURCHARGED
1440 minute summer	5	960	5.916	0.066	1.7	0.0000	0.0000	OK
1440 minute summer	6	750	6.110	0.010	0.1	0.0015	0.0000	OK
1440 minute summer	7	750	6.062	0.009	0.1	0.0014	0.0000	OK
1440 minute summer	8	750	5.988	0.009	0.2	0.0029	0.0000	OK
1440 minute summer	9	960	5.916	0.066	0.4	0.0174	0.0000	OK
1440 minute summer	10	30	6.100	0.000	0.0	0.0000	0.0000	OK
1440 minute summer	11	750	6.214	0.014	0.2	0.0095	0.0000	OK
1440 minute summer	12	750	6.120	0.012	0.2	0.0020	0.0000	OK
1440 minute summer	13	750	6.074	0.015	0.4	0.0121	0.0000	OK
1440 minute summer	14	750	5.988	0.018	0.7	0.0137	0.0000	OK
1440 minute summer	15	960	5.916	0.066	0.9	0.0174	0.0000	OK
1440 minute summer	16	630	5.986	0.006	0.1	0.0023	0.0000	OK
1440 minute summer	17	960	5.916	0.066	0.3	0.0174	0.0000	OK
1440 minute summer	18	30	6.000	0.000	0.0	0.0000	0.0000	OK
1440 minute summer	19	960	5.916	0.066	0.2	0.0279	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
1440 minute summer	2	1.000	1	0.8	0.354	0.091	0.1697	30.7
1440 minute summer	3	1.001	2	0.0	0.000	0.000	0.0180	
1440 minute summer	4	1.002	2	0.3	0.305	0.043	0.0232	
1440 minute summer	5	1.003	4	0.4	0.121	0.059	0.0929	
1440 minute summer	6	1.004	7	0.1	0.247	0.022	0.0028	
1440 minute summer	7	1.005	8	0.1	0.230	0.007	0.0049	
1440 minute summer	8	1.006	9	0.2	0.067	0.007	0.0207	
1440 minute summer	9	Flow through pond	5	1.7	0.012	0.004	19.6240	
1440 minute summer	10	1.007	8	0.0	0.000	0.000	0.0012	
1440 minute summer	11	1.013	12	0.2	0.337	0.038	0.0073	
1440 minute summer	12	1.008	13	0.2	0.255	0.014	0.0058	
1440 minute summer	13	1.009	14	0.4	0.390	0.020	0.0072	
1440 minute summer	14	1.010	15	0.7	0.198	0.030	0.0279	
1440 minute summer	15	Flow through pond	5	1.7	0.012	0.004	19.6240	
1440 minute summer	16	1.011	17	0.1	0.040	0.002	0.0093	
1440 minute summer	17	Flow through pond	5	1.7	0.012	0.004	19.6240	
1440 minute summer	18	1.012	19	0.0	0.000	0.000	0.0280	
1440 minute summer	19	Flow through pond	5	1.7	0.012	0.004	19.6240	

Results for 100 year +40% CC 1440 minute winter. 1680 minute analysis at 30 minute timestep. Mass balance: 99.60%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
1440 minute winter	1	720	5.327	0.027	0.9	0.0000	0.0000	OK
1440 minute winter	2	720	5.534	0.034	0.9	0.0195	0.0000	OK
1440 minute winter	3	30	5.740	0.000	0.0	0.0000	0.0000	OK
1440 minute winter	4	1110	5.963	0.303	0.3	0.3422	0.0000	SURCHARGED
1440 minute winter	5	1110	5.963	0.113	1.7	0.0000	0.0000	SURCHARGED
1440 minute winter	6	690	6.110	0.010	0.1	0.0015	0.0000	OK
1440 minute winter	7	690	6.062	0.009	0.1	0.0014	0.0000	OK
1440 minute winter	8	690	5.988	0.009	0.2	0.0029	0.0000	OK
1440 minute winter	9	1110	5.963	0.113	0.4	0.0298	0.0000	OK
1440 minute winter	10	30	6.100	0.000	0.0	0.0000	0.0000	OK
1440 minute winter	11	660	6.214	0.014	0.2	0.0095	0.0000	OK
1440 minute winter	12	660	6.120	0.012	0.2	0.0020	0.0000	OK
1440 minute winter	13	660	6.074	0.015	0.4	0.0121	0.0000	OK
1440 minute winter	14	690	5.988	0.018	0.7	0.0137	0.0000	OK
1440 minute winter	15	1110	5.963	0.113	0.9	0.0299	0.0000	OK
1440 minute winter	16	480	5.986	0.006	0.1	0.0023	0.0000	OK
1440 minute winter	17	1110	5.963	0.113	0.3	0.0298	0.0000	OK
1440 minute winter	18	30	6.000	0.000	0.0	0.0000	0.0000	OK
1440 minute winter	19	1110	5.963	0.113	0.2	0.0477	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
1440 minute winter	2	1.000	1	0.9	0.365	0.100	0.1817	41.1
1440 minute winter	3	1.001	2	0.0	0.000	0.000	0.0192	
1440 minute winter	4	1.002	2	0.3	0.300	0.042	0.0242	
1440 minute winter	5	1.003	4	0.3	0.106	0.050	0.1094	
1440 minute winter	6	1.004	7	0.1	0.247	0.022	0.0028	
1440 minute winter	7	1.005	8	0.1	0.230	0.007	0.0049	
1440 minute winter	8	1.006	9	0.2	0.064	0.007	0.0394	
1440 minute winter	9	Flow through pond	5	1.7	0.009	0.004	41.3342	
1440 minute winter	10	1.007	8	0.0	0.000	0.000	0.0012	
1440 minute winter	11	1.013	12	0.2	0.337	0.038	0.0073	
1440 minute winter	12	1.008	13	0.2	0.255	0.014	0.0058	
1440 minute winter	13	1.009	14	0.4	0.412	0.020	0.0072	
1440 minute winter	14	1.010	15	0.7	0.197	0.030	0.0513	
1440 minute winter	15	Flow through pond	5	1.7	0.009	0.004	41.3342	
1440 minute winter	16	1.011	17	0.1	0.040	0.002	0.0177	
1440 minute winter	17	Flow through pond	5	1.7	0.009	0.004	41.3342	
1440 minute winter	18	1.012	19	0.0	0.000	0.000	0.0534	
1440 minute winter	19	Flow through pond	5	1.7	0.009	0.004	41.3342	