

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 Soffits
M5-60 (mm)	20.000	Minimum Backdrop Height (m)	0.200
Ratio-R	0.400	Preferred Cover Depth (m)	1.200
CV	0.750	Include Intermediate Ground	✓
Time of Entry (mins)	5.00	Enforce best practice design rules	x

Nodes

Name	Area (ha)	T of E (mins)	Cover Level (m)	Diameter (mm)	Depth (m)
S13	0.012	5.00	190.820	450	2.245
S14			189.630	450	1.575
S15	0.016	5.00	188.700	450	1.165
S16	0.015	5.00	187.680	450	0.638
S17	0.030	5.00	187.400	450	0.601
S18	0.034	5.00	188.000	450	1.252
S19	0.030	5.00	187.500	1200	1.240
S20			187.400	1200	1.154
OUTFALL			187.300	450	1.116
S21	0.074	5.00	188.600	450	0.500
S22	0.074	5.00	188.240	450	0.490
S23	0.014	5.00	187.350	450	0.500
S24	0.014	5.00	187.500	450	0.818
S25			187.500	450	1.039
S26	0.014	5.00	187.500	450	1.215
S27	0.014	5.00	187.350	450	0.500

Links (Input)

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)
S5.000	S13	S14	15.590	0.600	188.575	188.055	0.520	30.0	100	5.18	50.0
S5.001	S14	S15	15.590	0.600	188.055	187.535	0.520	30.0	100	5.37	50.0
S5.002	S15	S16	13.300	0.600	187.535	187.092	0.443	30.0	100	5.52	50.0
S5.003	S16	S17	7.280	0.600	187.042	186.799	0.243	30.0	150	5.77	50.0
S5.004	S17	S18	20.580	0.600	186.799	186.748	0.051	400.0	150	6.46	50.0
S5.005	S18	S19	40.380	0.600	186.748	186.647	0.101	400.0	150	7.82	50.0
S5.006	S19	S20	5.700	0.600	186.260	186.246	0.014	400.0	150	8.01	50.0
S5.007	S20	OUTFALL	10.400	0.600	186.246	186.184	0.062	167.7	150	8.23	50.0
S6.000	S21	S22	33.350	0.600	188.100	187.750	0.350	95.3	150	5.54	50.0
S6.001	S22	S16	17.970	0.600	187.750	187.180	0.570	31.5	150	5.71	50.0
S7.000	S23	S24	16.850	0.600	186.850	186.682	0.168	100.0	100	5.37	50.0
S7.001	S24	S25	17.075	0.600	186.682	186.511	0.171	100.0	100	5.74	50.0
S7.002	S25	S26	17.750	0.600	186.461	186.285	0.176	100.9	150	6.03	50.0
S7.003	S26	S19	2.500	0.600	186.285	186.260	0.025	100.0	150	6.07	50.0

Links (Input)

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)
S8.000	S27	S25	17.100	0.600	186.850	186.679	0.171	100.0	100	5.37	50.0

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)
S5.000	15.590	30.0	100	Circular	190.820	188.575	2.145	189.630	188.055	1.475
S5.001	15.590	30.0	100	Circular	189.630	188.055	1.475	188.700	187.535	1.065
S5.002	13.300	30.0	100	Circular	188.700	187.535	1.065	187.680	187.092	0.488
S5.003	7.280	30.0	150	Circular	187.680	187.042	0.488	187.400	186.799	0.451
S5.004	20.580	400.0	150	Circular	187.400	186.799	0.451	188.000	186.748	1.102
S5.005	40.380	400.0	150	Circular	188.000	186.748	1.102	187.500	186.647	0.703
S5.006	5.700	400.0	150	Circular	187.500	186.260	1.090	187.400	186.246	1.004
S5.007	10.400	167.7	150	Circular	187.400	186.246	1.004	187.300	186.184	0.966
S6.000	33.350	95.3	150	Circular	188.600	188.100	0.350	188.240	187.750	0.340
S6.001	17.970	31.5	150	Circular	188.240	187.750	0.340	187.680	187.180	0.350
S7.000	16.850	100.0	100	Circular	187.350	186.850	0.400	187.500	186.682	0.718
S7.001	17.075	100.0	100	Circular	187.500	186.682	0.718	187.500	186.511	0.889
S7.002	17.750	100.9	150	Circular	187.500	186.461	0.889	187.500	186.285	1.065
S7.003	2.500	100.0	150	Circular	187.500	186.285	1.065	187.500	186.260	1.090
S8.000	17.100	100.0	100	Circular	187.350	186.850	0.400	187.500	186.679	0.721

Link	US Node	Dia (mm)	Node Type	MH Type	DS Node	Dia (mm)	Node Type	MH Type
S5.000	S13	450	Manhole	Adoptable	S14	450	Manhole	Adoptable
S5.001	S14	450	Manhole	Adoptable	S15	450	Manhole	Adoptable
S5.002	S15	450	Manhole	Adoptable	S16	450	Manhole	Adoptable
S5.003	S16	450	Manhole	Adoptable	S17	450	Manhole	Adoptable
S5.004	S17	450	Manhole	Adoptable	S18	450	Manhole	Adoptable
S5.005	S18	450	Manhole	Adoptable	S19	1200	Manhole	Adoptable
S5.006	S19	1200	Manhole	Adoptable	S20	1200	Manhole	Adoptable
S5.007	S20	1200	Manhole	Adoptable	OUTFALL	450	Manhole	Adoptable
S6.000	S21	450	Manhole	Adoptable	S22	450	Manhole	Adoptable
S6.001	S22	450	Manhole	Adoptable	S16	450	Manhole	Adoptable
S7.000	S23	450	Manhole	Adoptable	S24	450	Manhole	Adoptable
S7.001	S24	450	Manhole	Adoptable	S25	450	Manhole	Adoptable
S7.002	S25	450	Manhole	Adoptable	S26	450	Manhole	Adoptable
S7.003	S26	450	Manhole	Adoptable	S19	1200	Manhole	Adoptable
S8.000	S27	450	Manhole	Adoptable	S25	450	Manhole	Adoptable

Manhole Schedule

Node	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)	
S13	190.820	2.245	450					
				0	S5.000	188.575	100	
S14	189.630	1.575	450		1	S5.000	188.055	100
				0	S5.001	188.055	100	
S15	188.700	1.165	450		1	S5.001	187.535	100
				0	S5.002	187.535	100	
S16	187.680	0.638	450		1	S5.002	187.092	100
				2	S6.001	187.180	150	
				0	S5.003	187.042	150	
S17	187.400	0.601	450		1	S5.003	186.799	150
				0	S5.004	186.799	150	
S18	188.000	1.252	450		1	S5.004	186.748	150
				0	S5.005	186.748	150	
S19	187.500	1.240	1200		1	S7.003	186.260	150
				2	S5.005	186.647	150	
				0	S5.006	186.260	150	
S20	187.400	1.154	1200		1	S5.006	186.246	150
				0	S5.007	186.246	150	
OUTFALL	187.300	1.116	450		1	S5.007	186.184	150
S21	188.600	0.500	450					
				0	S6.000	188.100	150	
S22	188.240	0.490	450		1	S6.000	187.750	150
				0	S6.001	187.750	150	
S23	187.350	0.500	450					
				0	S7.000	186.850	100	
S24	187.500	0.818	450		1	S7.000	186.682	100
				0	S7.001	186.682	100	

Manhole Schedule

Node	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)
S25	187.500	1.039	450		1	S8.000	186.679 100
					2	S7.001	186.511 100
					0	S7.002	186.461 150
S26	187.500	1.215	450		1	S7.002	186.285 150
					0	S7.003	186.285 150
					0	S8.000	186.850 100
S27	187.350	0.500	450				

Simulation Settings

Rainfall Methodology	FSR	Analysis Speed	Normal
FSR Region	England and Wales	Skip Steady State	x
M5-60 (mm)	20.000	Drain Down Time (mins)	240
Ratio-R	0.400	Additional Storage (m³/ha)	20.0
Summer CV	0.750	Check Discharge Rate(s)	x
Winter CV	0.840	Check Discharge Volume	x

Storm Durations

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

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

Node S20 Online Hydro-Brake® Control

Flap Valve	x	Objective	(HE) Minimise upstream storage
Replaces Downstream Link	✓	Sump Available	✓
Invert Level (m)	186.246	Product Number	CTL-SHE-0101-5000-1300-5000
Design Depth (m)	1.300	Min Outlet Diameter (m)	0.150
Design Flow (l/s)	5.0	Min Node Diameter (mm)	1200

Node S17 Depth/Area Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Safety Factor	2.0	Invert Level (m)	186.799
Side Inf Coefficient (m/hr)	0.00000	Porosity	0.35	Time to half empty (mins)	

Depth (m)	Area (m²)	Inf Area (m²)	Depth (m)	Area (m²)	Inf Area (m²)	Depth (m)	Area (m²)	Inf Area (m²)
0.000	300.0	0.0	0.450	300.0	0.0	0.451	0.0	0.0

Node S18 Depth/Area Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Safety Factor	2.0	Invert Level (m)	186.748
Side Inf Coefficient (m/hr)	0.00000	Porosity	0.35	Time to half empty (mins)	

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	300.0	0.0	0.450	300.0	0.0	0.451	0.0	0.0

Node S19 Depth/Area Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Safety Factor	2.0	Invert Level (m)	186.260
Side Inf Coefficient (m/hr)	0.00000	Porosity	0.35	Time to half empty (mins)	

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	100.0	0.0	0.450	100.0	0.0	0.451	0.0	0.0

Node S21 Depth/Area Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Safety Factor	2.0	Invert Level (m)	188.100
Side Inf Coefficient (m/hr)	0.00000	Porosity	0.35	Time to half empty (mins)	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	500.0	0.0	0.400	500.0	0.0	0.401	0.0	0.0

Node S22 Depth/Area Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Safety Factor	2.0	Invert Level (m)	187.750
Side Inf Coefficient (m/hr)	0.00000	Porosity	0.35	Time to half empty (mins)	11

Depth (m)	Area (m ²)	Inf Area (m ²)	Depth (m)	Area (m ²)	Inf Area (m ²)	Depth (m)	Area (m ²)	Inf Area (m ²)
0.000	500.0	0.0	0.400	500.0	0.0	0.401	0.0	0.0

Results for 100 year Critical Storm Duration. Lowest mass balance: 99.03%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	S13	10	188.626	0.051	5.4	0.0135	0.0000	OK
15 minute winter	S14	10	188.104	0.049	5.4	0.0077	0.0000	OK
15 minute winter	S15	11	187.728	0.193	12.5	0.0839	0.0000	SURCHARGED
180 minute winter	S16	180	187.186	0.144	16.2	0.0905	0.0000	OK
180 minute winter	S17	180	187.181	0.382	19.0	40.5937	0.0000	FLOOD RISK
240 minute winter	S18	236	187.172	0.424	13.3	44.8272	0.0000	SURCHARGED
240 minute winter	S19	232	187.157	0.897	15.1	17.2158	0.0000	SURCHARGED
240 minute winter	S20	232	187.152	0.906	6.1	1.0245	0.0000	FLOOD RISK
15 minute summer	OUTFALL	1	186.184	0.000	5.0	0.0000	0.0000	OK
60 minute winter	S21	42	188.177	0.077	17.2	13.6766	0.0000	OK
60 minute winter	S22	43	187.833	0.083	23.6	14.8509	0.0000	OK
15 minute winter	S23	12	187.265	0.415	6.3	0.2983	0.0000	FLOOD RISK
240 minute winter	S24	232	187.158	0.476	3.6	0.2385	0.0000	SURCHARGED
240 minute winter	S25	232	187.157	0.696	3.6	0.1107	0.0000	SURCHARGED
240 minute winter	S26	232	187.157	0.872	4.4	0.3392	0.0000	SURCHARGED
240 minute winter	S27	232	187.157	0.307	1.2	0.2210	0.0000	FLOOD RISK
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	S13	S5.000	S14	5.4	1.376	0.482	0.0606	
15 minute winter	S14	S5.001	S15	5.3	0.854	0.476	0.0905	
15 minute winter	S15	S5.002	S16	11.3	1.498	1.016	0.1040	
180 minute winter	S16	S5.003	S17	16.2	1.151	0.496	0.1273	
180 minute winter	S17	S5.004	S18	11.0	0.643	1.252	0.3623	
240 minute winter	S18	S5.005	S19	8.4	0.640	0.956	0.7109	
240 minute winter	S19	S5.006	S20	6.1	0.346	0.695	0.1003	
240 minute winter	S20	Hydro-Brake®	OUTFALL	5.0				106.2
60 minute winter	S21	S6.000	S22	9.3	0.976	0.512	0.3186	
60 minute winter	S22	S6.001	S16	17.4	1.786	0.546	0.1748	
15 minute winter	S23	S7.000	S24	4.5	0.623	0.749	0.1318	
240 minute winter	S24	S7.001	S25	2.4	0.698	0.398	0.1336	
240 minute winter	S25	S7.002	S26	3.2	0.460	0.183	0.3125	
240 minute winter	S26	S7.003	S19	4.2	0.700	0.235	0.0440	
240 minute winter	S27	S8.000	S25	1.2	0.596	0.199	0.1338	

Results for 100 year +40% CC Critical Storm Duration. Lowest mass balance: 99.03%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	S13	10	188.636	0.061	7.5	0.0161	0.0000	OK
15 minute winter	S14	12	188.272	0.217	7.5	0.0345	0.0000	SURCHARGED
15 minute winter	S15	12	188.122	0.587	16.5	0.2549	0.0000	SURCHARGED
120 minute winter	S16	86	187.550	0.508	29.7	0.3194	0.0000	FLOOD RISK
240 minute winter	S17	152	187.400	0.601	23.2	47.9979	33.0814	FLOOD
180 minute winter	S18	120	187.400	0.652	21.0	47.7601	0.0000	SURCHARGED
180 minute winter	S19	124	187.373	1.113	18.1	17.5656	0.0000	FLOOD RISK
180 minute winter	S20	124	187.367	1.121	8.3	1.2683	0.0000	FLOOD RISK
15 minute summer	OUTFALL	1	186.184	0.000	5.0	0.0000	0.0000	OK
30 minute winter	S21	24	188.202	0.102	36.0	18.1059	0.0000	OK
60 minute winter	S22	43	187.862	0.112	34.4	19.9379	0.0000	OK
480 minute winter	S23	288	187.350	0.500	2.0	0.3595	8.0541	FLOOD
180 minute winter	S24	120	187.372	0.690	4.0	0.3457	0.0000	FLOOD RISK
180 minute winter	S25	124	187.369	0.908	5.4	0.1443	0.0000	FLOOD RISK
180 minute winter	S26	124	187.373	1.088	7.2	0.4232	0.0000	FLOOD RISK
360 minute winter	S27	224	187.350	0.500	2.4	0.3595	8.3085	FLOOD
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	S13	S5.000	S14	7.5	1.456	0.678	0.0981	
15 minute winter	S14	S5.001	S15	6.4	0.916	0.580	0.1220	
15 minute winter	S15	S5.002	S16	13.3	1.702	1.199	0.1041	
120 minute winter	S16	S5.003	S17	29.2	1.659	0.896	0.1282	
240 minute winter	S17	S5.004	S18	10.8	0.619	1.227	0.3623	
180 minute winter	S18	S5.005	S19	9.5	0.631	1.080	0.7109	
180 minute winter	S19	S5.006	S20	8.3	0.469	0.942	0.1003	
180 minute winter	S20	Hydro-Brake®	OUTFALL	5.0				98.5
30 minute winter	S21	S6.000	S22	14.1	1.069	0.778	0.4426	
60 minute winter	S22	S6.001	S16	24.4	1.746	0.769	0.2848	
480 minute winter	S23	S7.000	S24	-1.3	0.408	-0.212	0.1318	
180 minute winter	S24	S7.001	S25	3.6	0.753	0.592	0.1336	
180 minute winter	S25	S7.002	S26	5.2	0.479	0.292	0.3125	
180 minute winter	S26	S7.003	S19	7.0	0.791	0.392	0.0440	
360 minute winter	S27	S8.000	S25	-1.6	0.565	-0.268	0.1338	

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

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	S13	10	188.624	0.049	5.1	0.0131	0.0000	OK
15 minute summer	S14	10	188.102	0.047	5.1	0.0075	0.0000	OK
15 minute summer	S15	11	187.680	0.145	11.8	0.0630	0.0000	SURCHARGED
15 minute summer	S16	12	187.153	0.111	24.0	0.0701	0.0000	OK
15 minute summer	S17	21	186.932	0.133	35.0	14.1462	0.0000	OK
15 minute summer	S18	41	186.859	0.111	18.2	11.6865	0.0000	OK
15 minute summer	S19	77	186.798	0.538	32.2	16.6363	0.0000	SURCHARGED
15 minute summer	S20	77	186.791	0.545	5.5	0.6168	0.0000	SURCHARGED
15 minute summer	OUTFALL	1	186.184	0.000	5.0	0.0000	0.0000	OK

15 minute summer	S21	15	188.162	0.062	31.6	10.9776	0.0000	OK
15 minute summer	S22	16	187.814	0.064	33.9	11.3788	0.0000	OK

15 minute summer	S23	12	187.204	0.354	6.0	0.2546	0.0000	FLOOD RISK
15 minute summer	S24	12	187.099	0.417	10.2	0.2088	0.0000	SURCHARGED
15 minute summer	S25	77	186.798	0.337	14.9	0.0536	0.0000	SURCHARGED
15 minute summer	S26	77	186.798	0.513	19.5	0.1995	0.0000	SURCHARGED

15 minute summer	S27	11	186.934	0.084	6.0	0.0601	0.0000	OK
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Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	S13	S5.000	S14	5.1	1.357	0.456	0.0582	
15 minute summer	S14	S5.001	S15	5.0	0.858	0.452	0.0893	
15 minute summer	S15	S5.002	S16	10.7	1.555	0.968	0.1041	
15 minute summer	S16	S5.003	S17	24.0	2.222	0.736	0.0958	
15 minute summer	S17	S5.004	S18	9.8	0.856	1.114	0.2978	
15 minute summer	S18	S5.005	S19	7.2	0.621	0.825	0.5571	
15 minute summer	S19	S5.006	S20	5.5	0.389	0.632	0.1003	
15 minute summer	S20	Hydro-Brake®	OUTFALL	5.0				54.7
15 minute summer	S21	S6.000	S22	6.3	0.907	0.347	0.2325	
15 minute summer	S22	S6.001	S16	11.2	1.606	0.352	0.1251	
15 minute summer	S23	S7.000	S24	4.5	0.608	0.743	0.1318	
15 minute summer	S24	S7.001	S25	9.1	1.157	1.499	0.1336	
15 minute summer	S25	S7.002	S26	13.7	0.867	0.773	0.3125	
15 minute summer	S26	S7.003	S19	18.8	1.215	1.058	0.0440	
15 minute summer	S27	S8.000	S25	5.8	0.858	0.964	0.1159	

Results for 100 year 15 minute winter. 255 minute analysis at 1 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	S13	10	188.626	0.051	5.4	0.0135	0.0000	OK
15 minute winter	S14	10	188.104	0.049	5.4	0.0077	0.0000	OK
15 minute winter	S15	11	187.728	0.193	12.5	0.0839	0.0000	SURCHARGED
15 minute winter	S16	12	187.162	0.120	26.1	0.0754	0.0000	OK
15 minute winter	S17	22	186.953	0.154	37.4	16.3085	0.0000	SURCHARGED
15 minute winter	S18	55	186.886	0.138	19.6	14.6340	0.0000	OK
15 minute winter	S19	58	186.855	0.595	33.0	16.7289	0.0000	SURCHARGED
15 minute winter	S20	58	186.849	0.603	5.9	0.6819	0.0000	SURCHARGED
15 minute winter	OUTFALL	1	186.184	0.000	5.0	0.0000	0.0000	OK
15 minute winter	S21	15	188.168	0.068	33.2	12.1422	0.0000	OK
15 minute winter	S22	16	187.821	0.071	36.0	12.6376	0.0000	OK
15 minute winter	S23	12	187.265	0.415	6.3	0.2983	0.0000	FLOOD RISK
15 minute winter	S24	12	187.155	0.473	10.6	0.2371	0.0000	SURCHARGED
15 minute winter	S25	58	186.855	0.394	15.0	0.0627	0.0000	SURCHARGED
15 minute winter	S26	58	186.855	0.570	19.8	0.2218	0.0000	SURCHARGED
15 minute winter	S27	11	186.939	0.089	6.3	0.0637	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	S13	S5.000	S14	5.4	1.376	0.482	0.0606	
15 minute winter	S14	S5.001	S15	5.3	0.854	0.476	0.0905	
15 minute winter	S15	S5.002	S16	11.3	1.498	1.016	0.1040	
15 minute winter	S16	S5.003	S17	26.1	2.188	0.801	0.1066	
15 minute winter	S17	S5.004	S18	11.1	0.856	1.271	0.3323	
15 minute winter	S18	S5.005	S19	8.7	0.637	0.989	0.6985	
15 minute winter	S19	S5.006	S20	5.9	0.395	0.671	0.1003	
15 minute winter	S20	Hydro-Brake®	OUTFALL	5.0				62.0
15 minute winter	S21	S6.000	S22	7.5	0.947	0.415	0.2663	
15 minute winter	S22	S6.001	S16	13.4	1.679	0.421	0.1432	
15 minute winter	S23	S7.000	S24	4.5	0.623	0.749	0.1318	
15 minute winter	S24	S7.001	S25	9.0	1.154	1.495	0.1336	
15 minute winter	S25	S7.002	S26	14.1	0.846	0.799	0.3125	
15 minute winter	S26	S7.003	S19	18.9	1.275	1.065	0.0440	
15 minute winter	S27	S8.000	S25	6.1	0.862	1.003	0.1198	

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

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
30 minute summer	S13	18	188.621	0.046	4.6	0.0123	0.0000	OK
30 minute summer	S14	18	188.100	0.045	4.6	0.0071	0.0000	OK
30 minute summer	S15	18	187.621	0.086	10.8	0.0373	0.0000	OK
30 minute summer	S16	19	187.157	0.114	25.0	0.0720	0.0000	OK
30 minute summer	S17	35	186.980	0.181	35.5	19.2469	0.0000	SURCHARGED
30 minute summer	S18	66	186.933	0.185	19.7	19.5168	0.0000	SURCHARGED
30 minute summer	S19	69	186.900	0.640	29.7	16.8016	0.0000	SURCHARGED
30 minute summer	S20	69	186.894	0.648	6.5	0.7331	0.0000	SURCHARGED
30 minute summer	OUTFALL	1	186.184	0.000	5.0	0.0000	0.0000	OK
30 minute summer	S21	23	188.170	0.070	28.5	12.5070	0.0000	OK
30 minute summer	S22	24	187.824	0.074	32.8	13.1202	0.0000	OK
30 minute summer	S23	20	187.149	0.299	5.4	0.2149	0.0000	FLOOD RISK
30 minute summer	S24	20	187.059	0.377	9.6	0.1887	0.0000	SURCHARGED
30 minute summer	S25	69	186.900	0.439	13.8	0.0699	0.0000	SURCHARGED
30 minute summer	S26	69	186.900	0.615	17.6	0.2394	0.0000	SURCHARGED
30 minute summer	S27	18	186.927	0.077	5.4	0.0554	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	S13	S5.000	S14	4.6	1.323	0.414	0.0542	
30 minute summer	S14	S5.001	S15	4.6	0.848	0.414	0.0824	
30 minute summer	S15	S5.002	S16	10.8	1.542	0.977	0.0996	
30 minute summer	S16	S5.003	S17	24.9	1.994	0.765	0.1073	
30 minute summer	S17	S5.004	S18	12.6	0.845	1.435	0.3623	
30 minute summer	S18	S5.005	S19	8.1	0.614	0.927	0.7109	
30 minute summer	S19	S5.006	S20	6.5	0.371	0.745	0.1003	
30 minute summer	S20	Hydro-Brake®	OUTFALL	5.0				72.6
30 minute summer	S21	S6.000	S22	7.9	0.956	0.437	0.2778	
30 minute summer	S22	S6.001	S16	14.2	1.705	0.448	0.1501	
30 minute summer	S23	S7.000	S24	4.3	0.589	0.714	0.1318	
30 minute summer	S24	S7.001	S25	8.4	1.071	1.388	0.1336	
30 minute summer	S25	S7.002	S26	12.7	0.758	0.719	0.3125	
30 minute summer	S26	S7.003	S19	17.0	1.056	0.957	0.0440	
30 minute summer	S27	S8.000	S25	5.4	0.852	0.890	0.1079	

Results for 100 year 30 minute winter. 270 minute analysis at 1 minute timestep. Mass balance: 99.77%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
30 minute winter	S13	18	188.619	0.044	4.2	0.0117	0.0000	OK
30 minute winter	S14	18	188.098	0.043	4.2	0.0068	0.0000	OK
30 minute winter	S15	18	187.614	0.079	9.8	0.0341	0.0000	OK
30 minute winter	S16	20	187.160	0.117	25.8	0.0739	0.0000	OK
30 minute winter	S17	39	187.019	0.219	35.0	23.3013	0.0000	SURCHARGED
30 minute winter	S18	69	186.975	0.227	20.1	23.9728	0.0000	SURCHARGED
30 minute winter	S19	71	186.944	0.684	28.5	16.8727	0.0000	SURCHARGED
30 minute winter	S20	71	186.939	0.693	8.5	0.7833	0.0000	SURCHARGED
30 minute winter	OUTFALL	1	186.184	0.000	5.0	0.0000	0.0000	OK
30 minute winter	S21	24	188.176	0.076	25.7	13.6067	0.0000	OK
30 minute winter	S22	25	187.831	0.081	30.8	14.4277	0.0000	OK
30 minute winter	S23	20	187.116	0.266	4.9	0.1913	0.0000	FLOOD RISK
30 minute winter	S24	21	187.035	0.353	8.8	0.1770	0.0000	SURCHARGED
30 minute winter	S25	71	186.944	0.483	12.5	0.0769	0.0000	SURCHARGED
30 minute winter	S26	71	186.944	0.659	16.5	0.2565	0.0000	SURCHARGED
30 minute winter	S27	71	186.944	0.094	4.9	0.0678	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	S13	S5.000	S14	4.2	1.293	0.378	0.0507	
30 minute winter	S14	S5.001	S15	4.2	0.847	0.378	0.0763	
30 minute winter	S15	S5.002	S16	9.8	1.536	0.881	0.0847	
30 minute winter	S16	S5.003	S17	25.7	1.899	0.789	0.1170	
30 minute winter	S17	S5.004	S18	13.2	0.839	1.510	0.3623	
30 minute winter	S18	S5.005	S19	7.3	0.593	0.836	0.7109	
30 minute winter	S19	S5.006	S20	8.5	0.483	0.970	0.1003	
30 minute winter	S20	Hydro-Brake®	OUTFALL	5.0				74.0
30 minute winter	S21	S6.000	S22	9.2	0.984	0.504	0.3116	
30 minute winter	S22	S6.001	S16	16.6	1.767	0.522	0.1688	
30 minute winter	S23	S7.000	S24	3.9	0.568	0.652	0.1318	
30 minute winter	S24	S7.001	S25	7.8	0.998	1.291	0.1336	
30 minute winter	S25	S7.002	S26	11.9	0.742	0.673	0.3125	
30 minute winter	S26	S7.003	S19	15.9	1.117	0.895	0.0440	
30 minute winter	S27	S8.000	S25	4.9	0.841	0.810	0.1323	

Results for 100 year 60 minute summer. 300 minute analysis at 1 minute timestep. Mass balance: 99.58%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute summer	S13	33	188.614	0.039	3.4	0.0104	0.0000	OK
60 minute summer	S14	33	188.093	0.038	3.4	0.0061	0.0000	OK
60 minute summer	S15	33	187.602	0.066	8.0	0.0289	0.0000	OK
60 minute summer	S16	35	187.150	0.108	23.4	0.0679	0.0000	OK
60 minute summer	S17	65	187.042	0.243	31.2	25.7887	0.0000	SURCHARGED
60 minute summer	S18	89	187.011	0.263	18.2	27.8082	0.0000	SURCHARGED
60 minute summer	S19	93	186.983	0.723	25.1	16.9346	0.0000	SURCHARGED
60 minute summer	S20	93	186.977	0.731	7.6	0.8271	0.0000	SURCHARGED
60 minute summer	OUTFALL	1	186.184	0.000	5.0	0.0000	0.0000	OK
60 minute summer	S21	40	188.174	0.073	21.2	13.0875	0.0000	OK
60 minute summer	S22	41	187.829	0.079	26.7	13.9899	0.0000	OK
60 minute summer	S23	91	186.983	0.133	4.0	0.0954	0.0000	SURCHARGED
60 minute summer	S24	92	186.983	0.301	7.9	0.1508	0.0000	SURCHARGED
60 minute summer	S25	91	186.983	0.522	11.3	0.0830	0.0000	SURCHARGED
60 minute summer	S26	90	186.983	0.698	14.0	0.2714	0.0000	SURCHARGED
60 minute summer	S27	91	186.983	0.133	4.0	0.0956	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
60 minute summer	S13	S5.000	S14	3.4	1.224	0.306	0.0433	
60 minute summer	S14	S5.001	S15	3.4	0.822	0.306	0.0644	
60 minute summer	S15	S5.002	S16	8.0	1.491	0.720	0.0713	
60 minute summer	S16	S5.003	S17	23.4	1.675	0.719	0.1131	
60 minute summer	S17	S5.004	S18	13.2	0.780	1.505	0.3623	
60 minute summer	S18	S5.005	S19	7.8	0.615	0.884	0.7109	
60 minute summer	S19	S5.006	S20	7.6	0.430	0.864	0.1003	
60 minute summer	S20	Hydro-Brake®	OUTFALL	5.0				78.5
60 minute summer	S21	S6.000	S22	8.6	0.966	0.474	0.2984	
60 minute summer	S22	S6.001	S16	15.8	1.748	0.497	0.1626	
60 minute summer	S23	S7.000	S24	3.9	0.560	0.653	0.1318	
60 minute summer	S24	S7.001	S25	7.3	0.941	1.215	0.1336	
60 minute summer	S25	S7.002	S26	10.1	0.639	0.572	0.3125	
60 minute summer	S26	S7.003	S19	13.4	0.921	0.754	0.0440	
60 minute summer	S27	S8.000	S25	4.0	0.809	0.662	0.1338	

Results for 100 year 60 minute winter. 300 minute analysis at 1 minute timestep. Mass balance: 99.22%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute winter	S13	33	188.610	0.035	2.8	0.0093	0.0000	OK
60 minute winter	S14	33	188.089	0.034	2.8	0.0055	0.0000	OK
60 minute winter	S15	33	187.593	0.058	6.5	0.0250	0.0000	OK
60 minute winter	S16	41	187.158	0.116	23.8	0.0732	0.0000	OK
60 minute winter	S17	67	187.096	0.297	29.4	31.5305	0.0000	SURCHARGED
60 minute winter	S18	93	187.067	0.319	21.6	33.7303	0.0000	SURCHARGED
60 minute winter	S19	95	187.043	0.783	22.7	17.0319	0.0000	SURCHARGED
60 minute winter	S20	95	187.038	0.792	7.2	0.8961	0.0000	SURCHARGED
60 minute winter	OUTFALL	1	186.184	0.000	5.0	0.0000	0.0000	OK
60 minute winter	S21	42	188.177	0.077	17.2	13.6766	0.0000	OK
60 minute winter	S22	43	187.833	0.083	23.6	14.8509	0.0000	OK
60 minute winter	S23	95	187.043	0.193	3.2	0.1387	0.0000	SURCHARGED
60 minute winter	S24	95	187.043	0.361	6.4	0.1808	0.0000	SURCHARGED
60 minute winter	S25	95	187.043	0.582	9.4	0.0925	0.0000	SURCHARGED
60 minute winter	S26	95	187.043	0.758	11.8	0.2948	0.0000	SURCHARGED
60 minute winter	S27	94	187.043	0.193	3.2	0.1387	0.0000	SURCHARGED
Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
60 minute winter	S13	S5.000	S14	2.8	1.162	0.252	0.0376	
60 minute winter	S14	S5.001	S15	2.8	0.797	0.252	0.0549	
60 minute winter	S15	S5.002	S16	6.5	1.429	0.585	0.0604	
60 minute winter	S16	S5.003	S17	23.7	1.534	0.727	0.1174	
60 minute winter	S17	S5.004	S18	13.2	0.772	1.510	0.3623	
60 minute winter	S18	S5.005	S19	7.4	0.622	0.844	0.7109	
60 minute winter	S19	S5.006	S20	7.2	0.410	0.823	0.1003	
60 minute winter	S20	Hydro-Brake®	OUTFALL	5.0				75.6
60 minute winter	S21	S6.000	S22	9.3	0.976	0.512	0.3186	
60 minute winter	S22	S6.001	S16	17.4	1.786	0.546	0.1748	
60 minute winter	S23	S7.000	S24	3.2	0.544	0.530	0.1318	
60 minute winter	S24	S7.001	S25	6.2	0.860	1.031	0.1336	
60 minute winter	S25	S7.002	S26	8.7	0.609	0.494	0.3125	
60 minute winter	S26	S7.003	S19	11.2	0.987	0.628	0.0440	
60 minute winter	S27	S8.000	S25	3.2	0.770	0.530	0.1338	

Results for 100 year 120 minute summer. 360 minute analysis at 2 minute timestep. Mass balance: 99.26%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
120 minute summer	S13	64	188.606	0.031	2.2	0.0082	0.0000	OK
120 minute summer	S14	64	188.085	0.030	2.2	0.0048	0.0000	OK
120 minute summer	S15	64	187.585	0.050	5.1	0.0215	0.0000	OK
120 minute summer	S16	72	187.140	0.098	20.0	0.0615	0.0000	OK
120 minute summer	S17	126	187.096	0.297	24.8	31.5482	0.0000	SURCHARGED
120 minute summer	S18	132	187.083	0.334	16.9	35.3540	0.0000	SURCHARGED
120 minute summer	S19	122	187.066	0.806	20.4	17.0686	0.0000	SURCHARGED
120 minute summer	S20	122	187.061	0.815	6.3	0.9219	0.0000	SURCHARGED
120 minute summer	OUTFALL	2	186.184	0.000	5.0	0.0000	0.0000	OK
120 minute summer	S21	72	188.169	0.069	13.6	12.3493	0.0000	OK
120 minute summer	S22	74	187.826	0.076	19.6	13.4550	0.0000	OK
120 minute summer	S23	122	187.067	0.217	2.6	0.1560	0.0000	FLOOD RISK
120 minute summer	S24	122	187.067	0.385	5.2	0.1928	0.0000	SURCHARGED
120 minute summer	S25	122	187.066	0.605	7.8	0.0962	0.0000	SURCHARGED
120 minute summer	S26	122	187.066	0.781	9.5	0.3037	0.0000	SURCHARGED
120 minute summer	S27	122	187.066	0.216	2.6	0.1554	0.0000	FLOOD RISK
Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
120 minute summer	S13	S5.000	S14	2.2	1.088	0.198	0.0315	
120 minute summer	S14	S5.001	S15	2.2	0.756	0.198	0.0457	
120 minute summer	S15	S5.002	S16	5.1	1.351	0.459	0.0502	
120 minute summer	S16	S5.003	S17	20.1	1.346	0.617	0.1083	
120 minute summer	S17	S5.004	S18	12.6	0.718	1.436	0.3623	
120 minute summer	S18	S5.005	S19	8.1	0.635	0.923	0.7109	
120 minute summer	S19	S5.006	S20	6.3	0.359	0.721	0.1003	
120 minute summer	S20	Hydro-Brake®	OUTFALL	5.0				85.6
120 minute summer	S21	S6.000	S22	7.9	0.934	0.432	0.2802	
120 minute summer	S22	S6.001	S16	14.8	1.722	0.467	0.1549	
120 minute summer	S23	S7.000	S24	2.6	0.536	0.431	0.1318	
120 minute summer	S24	S7.001	S25	5.2	0.844	0.864	0.1336	
120 minute summer	S25	S7.002	S26	6.9	0.508	0.393	0.3125	
120 minute summer	S26	S7.003	S19	9.0	0.793	0.509	0.0440	
120 minute summer	S27	S8.000	S25	2.6	0.732	0.431	0.1338	

Results for 100 year 120 minute winter. 360 minute analysis at 2 minute timestep. Mass balance: 99.20%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
120 minute winter	S13	62	188.602	0.027	1.7	0.0072	0.0000	OK
120 minute winter	S14	62	188.082	0.027	1.7	0.0042	0.0000	OK
120 minute winter	S15	64	187.578	0.043	4.0	0.0186	0.0000	OK
120 minute winter	S16	120	187.166	0.124	19.6	0.0783	0.0000	OK
120 minute winter	S17	124	187.159	0.360	23.2	38.1843	0.0000	FLOOD RISK
120 minute winter	S18	134	187.143	0.394	18.7	41.6958	0.0000	SURCHARGED
120 minute winter	S19	120	187.121	0.861	18.6	17.1583	0.0000	SURCHARGED
120 minute winter	S20	120	187.116	0.870	7.2	0.9844	0.0000	FLOOD RISK
120 minute winter	OUTFALL	2	186.184	0.000	5.0	0.0000	0.0000	OK
120 minute winter	S21	76	188.169	0.069	10.5	12.2108	0.0000	OK
120 minute winter	S22	76	187.826	0.076	17.0	13.4936	0.0000	OK
120 minute winter	S23	120	187.123	0.272	2.0	0.1959	0.0000	FLOOD RISK
120 minute winter	S24	120	187.122	0.440	4.0	0.2206	0.0000	SURCHARGED
120 minute winter	S25	120	187.122	0.660	6.0	0.1050	0.0000	SURCHARGED
120 minute winter	S26	120	187.121	0.836	7.6	0.3253	0.0000	SURCHARGED
120 minute winter	S27	120	187.122	0.272	2.0	0.1953	0.0000	FLOOD RISK
Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
120 minute winter	S13	S5.000	S14	1.7	1.013	0.153	0.0262	
120 minute winter	S14	S5.001	S15	1.7	0.712	0.153	0.0380	
120 minute winter	S15	S5.002	S16	4.0	1.272	0.360	0.0462	
120 minute winter	S16	S5.003	S17	19.6	1.263	0.601	0.1209	
120 minute winter	S17	S5.004	S18	12.2	0.693	1.389	0.3623	
120 minute winter	S18	S5.005	S19	8.4	0.637	0.956	0.7109	
120 minute winter	S19	S5.006	S20	7.2	0.410	0.823	0.1003	
120 minute winter	S20	Hydro-Brake®	OUTFALL	5.0				84.2
120 minute winter	S21	S6.000	S22	7.7	0.925	0.425	0.2794	
120 minute winter	S22	S6.001	S16	14.9	1.724	0.469	0.1555	
120 minute winter	S23	S7.000	S24	2.0	0.518	0.331	0.1318	
120 minute winter	S24	S7.001	S25	4.0	0.801	0.663	0.1336	
120 minute winter	S25	S7.002	S26	5.6	0.509	0.315	0.3125	
120 minute winter	S26	S7.003	S19	7.2	0.820	0.407	0.0440	
120 minute winter	S27	S8.000	S25	2.0	0.684	0.331	0.1338	

Results for 100 year 180 minute summer. 420 minute analysis at 4 minute timestep. Mass balance: 99.30%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
180 minute summer	S13	96	188.601	0.026	1.6	0.0069	0.0000	OK
180 minute summer	S14	96	188.081	0.026	1.6	0.0041	0.0000	OK
180 minute summer	S15	96	187.577	0.042	3.8	0.0181	0.0000	OK
180 minute summer	S16	104	187.128	0.086	17.3	0.0538	0.0000	OK
180 minute summer	S17	184	187.113	0.314	20.7	33.2986	0.0000	FLOOD RISK
180 minute summer	S18	184	187.104	0.356	15.5	37.6587	0.0000	SURCHARGED
180 minute summer	S19	180	187.090	0.830	17.8	17.1085	0.0000	SURCHARGED
180 minute summer	S20	180	187.086	0.840	6.3	0.9497	0.0000	SURCHARGED
180 minute summer	OUTFALL	4	186.184	0.000	5.0	0.0000	0.0000	OK
180 minute summer	S21	104	188.164	0.064	10.0	11.3674	0.0000	OK
180 minute summer	S22	104	187.820	0.070	15.8	12.4384	0.0000	OK
180 minute summer	S23	180	187.092	0.242	1.9	0.1738	0.0000	FLOOD RISK
180 minute summer	S24	180	187.092	0.409	3.8	0.2052	0.0000	SURCHARGED
180 minute summer	S25	180	187.091	0.630	5.7	0.1001	0.0000	SURCHARGED
180 minute summer	S26	180	187.091	0.805	7.1	0.3133	0.0000	SURCHARGED
180 minute summer	S27	180	187.091	0.241	1.9	0.1732	0.0000	FLOOD RISK
Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
180 minute summer	S13	S5.000	S14	1.6	0.996	0.144	0.0251	
180 minute summer	S14	S5.001	S15	1.6	0.690	0.144	0.0365	
180 minute summer	S15	S5.002	S16	3.8	1.255	0.342	0.0403	
180 minute summer	S16	S5.003	S17	17.3	1.174	0.530	0.1019	
180 minute summer	S17	S5.004	S18	11.6	0.664	1.319	0.3623	
180 minute summer	S18	S5.005	S19	8.4	0.639	0.954	0.7109	
180 minute summer	S19	S5.006	S20	6.3	0.357	0.716	0.1003	
180 minute summer	S20	Hydro-Brake®	OUTFALL	5.0				95.2
180 minute summer	S21	S6.000	S22	6.8	0.899	0.374	0.2529	
180 minute summer	S22	S6.001	S16	13.0	1.668	0.410	0.1403	
180 minute summer	S23	S7.000	S24	1.9	0.512	0.315	0.1318	
180 minute summer	S24	S7.001	S25	3.8	0.794	0.630	0.1336	
180 minute summer	S25	S7.002	S26	5.2	0.464	0.292	0.3125	
180 minute summer	S26	S7.003	S19	6.7	0.747	0.377	0.0440	
180 minute summer	S27	S8.000	S25	1.9	0.675	0.315	0.1338	

Results for 100 year 180 minute winter. 420 minute analysis at 4 minute timestep. Mass balance: 99.23%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
180 minute winter	S13	96	188.599	0.023	1.3	0.0062	0.0000	OK
180 minute winter	S14	96	188.078	0.023	1.3	0.0037	0.0000	OK
180 minute winter	S15	96	187.572	0.037	3.0	0.0159	0.0000	OK
180 minute winter	S16	180	187.186	0.144	16.2	0.0905	0.0000	OK
180 minute winter	S17	180	187.181	0.382	19.0	40.5937	0.0000	FLOOD RISK
180 minute winter	S18	184	187.171	0.423	15.5	44.6952	0.0000	SURCHARGED
180 minute winter	S19	176	187.154	0.894	16.7	17.2118	0.0000	SURCHARGED
180 minute winter	S20	176	187.149	0.903	6.3	1.0217	0.0000	FLOOD RISK
180 minute winter	OUTFALL	4	186.184	0.000	5.0	0.0000	0.0000	OK

180 minute winter	S21	108	188.161	0.061	7.7	10.9149	0.0000	OK
180 minute winter	S22	108	187.818	0.068	13.4	12.0932	0.0000	OK

180 minute winter	S23	176	187.156	0.306	1.5	0.2198	0.0000	FLOOD RISK
180 minute winter	S24	176	187.156	0.473	4.1	0.2372	0.0000	SURCHARGED
180 minute winter	S25	176	187.155	0.694	4.5	0.1103	0.0000	SURCHARGED
180 minute winter	S26	176	187.154	0.869	5.6	0.3382	0.0000	SURCHARGED

180 minute winter	S27	176	187.155	0.305	1.5	0.2192	0.0000	FLOOD RISK
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Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
180 minute winter	S13	S5.000	S14	1.3	0.939	0.117	0.0216	
180 minute winter	S14	S5.001	S15	1.3	0.663	0.117	0.0309	
180 minute winter	S15	S5.002	S16	3.0	1.180	0.270	0.0549	
180 minute winter	S16	S5.003	S17	16.2	1.151	0.496	0.1273	
180 minute winter	S17	S5.004	S18	11.0	0.643	1.252	0.3623	
180 minute winter	S18	S5.005	S19	8.3	0.639	0.946	0.7109	
180 minute winter	S19	S5.006	S20	6.3	0.359	0.721	0.1003	
180 minute winter	S20	Hydro-Brake®	OUTFALL	5.0				95.2

180 minute winter	S21	S6.000	S22	6.4	0.877	0.350	0.2418	
180 minute winter	S22	S6.001	S16	12.4	1.649	0.391	0.1354	

180 minute winter	S23	S7.000	S24	1.5	0.484	0.248	0.1318	
180 minute winter	S24	S7.001	S25	3.0	0.743	0.497	0.1336	
180 minute winter	S25	S7.002	S26	4.1	0.470	0.231	0.3125	
180 minute winter	S26	S7.003	S19	5.3	0.724	0.297	0.0440	

180 minute winter	S27	S8.000	S25	1.5	0.633	0.248	0.1338	
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Results for 100 year 240 minute summer. 480 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
240 minute summer	S13	124	188.599	0.024	1.4	0.0065	0.0000	OK
240 minute summer	S14	124	188.079	0.024	1.4	0.0038	0.0000	OK
240 minute summer	S15	124	187.573	0.038	3.2	0.0164	0.0000	OK
240 minute summer	S16	128	187.119	0.077	15.5	0.0487	0.0000	OK
240 minute summer	S17	236	187.116	0.317	18.4	33.6960	0.0000	FLOOD RISK
240 minute summer	S18	236	187.109	0.361	14.4	38.1661	0.0000	SURCHARGED
240 minute summer	S19	224	187.095	0.835	16.7	17.1158	0.0000	SURCHARGED
240 minute summer	S20	224	187.090	0.844	6.2	0.9548	0.0000	SURCHARGED
240 minute summer	OUTFALL	4	186.184	0.000	5.0	0.0000	0.0000	OK
240 minute summer	S21	136	188.160	0.060	8.4	10.6034	0.0000	OK
240 minute summer	S22	136	187.816	0.066	13.4	11.6726	0.0000	OK
240 minute summer	S23	224	187.096	0.246	1.6	0.1770	0.0000	FLOOD RISK
240 minute summer	S24	224	187.096	0.414	4.3	0.2074	0.0000	SURCHARGED
240 minute summer	S25	224	187.095	0.634	4.8	0.1008	0.0000	SURCHARGED
240 minute summer	S26	224	187.095	0.810	5.6	0.3151	0.0000	SURCHARGED
240 minute summer	S27	224	187.095	0.245	1.6	0.1764	0.0000	FLOOD RISK
Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
240 minute summer	S13	S5.000	S14	1.4	0.959	0.126	0.0227	
240 minute summer	S14	S5.001	S15	1.4	0.677	0.125	0.0322	
240 minute summer	S15	S5.002	S16	3.2	1.197	0.285	0.0352	
240 minute summer	S16	S5.003	S17	15.4	1.086	0.474	0.0974	
240 minute summer	S17	S5.004	S18	10.9	0.637	1.246	0.3623	
240 minute summer	S18	S5.005	S19	8.6	0.637	0.979	0.7109	
240 minute summer	S19	S5.006	S20	6.2	0.352	0.707	0.1003	
240 minute summer	S20	Hydro-Brake®	OUTFALL	5.0				105.7
240 minute summer	S21	S6.000	S22	6.0	0.869	0.332	0.2317	
240 minute summer	S22	S6.001	S16	11.7	1.624	0.368	0.1294	
240 minute summer	S23	S7.000	S24	1.6	0.491	0.264	0.1318	
240 minute summer	S24	S7.001	S25	3.2	0.753	0.526	0.1336	
240 minute summer	S25	S7.002	S26	4.1	0.457	0.234	0.3125	
240 minute summer	S26	S7.003	S19	5.3	0.634	0.300	0.0440	
240 minute summer	S27	S8.000	S25	1.6	0.643	0.263	0.1338	

Results for 100 year 240 minute winter. 480 minute analysis at 4 minute timestep. Mass balance: 99.29%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
240 minute winter	S13	124	188.596	0.021	1.0	0.0055	0.0000	OK
240 minute winter	S14	120	188.075	0.020	1.0	0.0032	0.0000	OK
240 minute winter	S15	120	187.567	0.032	2.3	0.0137	0.0000	OK
240 minute winter	S16	232	187.183	0.141	13.7	0.0888	0.0000	OK
240 minute winter	S17	236	187.180	0.381	16.1	40.4670	0.0000	FLOOD RISK
240 minute winter	S18	236	187.172	0.424	13.3	44.8272	0.0000	SURCHARGED
240 minute winter	S19	232	187.157	0.897	15.1	17.2158	0.0000	SURCHARGED
240 minute winter	S20	232	187.152	0.906	6.1	1.0245	0.0000	FLOOD RISK
240 minute winter	OUTFALL	4	186.184	0.000	5.0	0.0000	0.0000	OK

240 minute winter	S21	140	188.156	0.056	6.2	9.9370	0.0000	OK
240 minute winter	S22	140	187.812	0.062	11.1	11.0268	0.0000	OK

240 minute winter	S23	232	187.158	0.308	1.2	0.2216	0.0000	FLOOD RISK
240 minute winter	S24	232	187.158	0.476	3.6	0.2385	0.0000	SURCHARGED
240 minute winter	S25	232	187.157	0.696	3.6	0.1107	0.0000	SURCHARGED
240 minute winter	S26	232	187.157	0.872	4.4	0.3392	0.0000	SURCHARGED

240 minute winter	S27	232	187.157	0.307	1.2	0.2210	0.0000	FLOOD RISK
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Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
240 minute winter	S13	S5.000	S14	1.0	0.871	0.090	0.0179	
240 minute winter	S14	S5.001	S15	1.0	0.619	0.090	0.0255	
240 minute winter	S15	S5.002	S16	2.3	1.098	0.207	0.0535	
240 minute winter	S16	S5.003	S17	13.7	1.061	0.421	0.1267	
240 minute winter	S17	S5.004	S18	10.5	0.608	1.195	0.3623	
240 minute winter	S18	S5.005	S19	8.4	0.640	0.956	0.7109	
240 minute winter	S19	S5.006	S20	6.1	0.346	0.695	0.1003	
240 minute winter	S20	Hydro-Brake®	OUTFALL	5.0				106.2

240 minute winter	S21	S6.000	S22	5.4	0.840	0.296	0.2137	
240 minute winter	S22	S6.001	S16	10.6	1.584	0.333	0.1201	

240 minute winter	S23	S7.000	S24	1.2	0.456	0.199	0.1318	
240 minute winter	S24	S7.001	S25	2.4	0.698	0.398	0.1336	
240 minute winter	S25	S7.002	S26	3.2	0.460	0.183	0.3125	
240 minute winter	S26	S7.003	S19	4.2	0.700	0.235	0.0440	

240 minute winter	S27	S8.000	S25	1.2	0.596	0.199	0.1338	
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Results for 100 year 360 minute summer. 600 minute analysis at 8 minute timestep. Mass balance: 99.61%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
360 minute summer	S13	184	188.596	0.021	1.0	0.0055	0.0000	OK
360 minute summer	S14	184	188.075	0.020	1.0	0.0032	0.0000	OK
360 minute summer	S15	184	187.567	0.032	2.3	0.0137	0.0000	OK
360 minute summer	S16	192	187.106	0.064	12.4	0.0403	0.0000	OK
360 minute summer	S17	296	187.102	0.303	14.6	32.1134	0.0000	FLOOD RISK
360 minute summer	S18	296	187.094	0.346	12.6	36.5781	0.0000	SURCHARGED
360 minute summer	S19	280	187.079	0.819	14.3	17.0903	0.0000	SURCHARGED
360 minute summer	S20	280	187.075	0.828	6.2	0.9370	0.0000	SURCHARGED
360 minute summer	OUTFALL	8	186.184	0.000	5.0	0.0000	0.0000	OK
360 minute summer	S21	200	188.153	0.052	6.2	9.3463	0.0000	OK
360 minute summer	S22	200	187.808	0.058	10.4	10.3354	0.0000	OK
360 minute summer	S23	280	187.081	0.230	1.2	0.1657	0.0000	FLOOD RISK
360 minute summer	S24	280	187.080	0.398	2.4	0.1995	0.0000	SURCHARGED
360 minute summer	S25	280	187.079	0.618	3.6	0.0983	0.0000	SURCHARGED
360 minute summer	S26	280	187.079	0.794	4.4	0.3089	0.0000	SURCHARGED
360 minute summer	S27	280	187.080	0.230	1.2	0.1651	0.0000	FLOOD RISK
Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
360 minute summer	S13	S5.000	S14	1.0	0.871	0.090	0.0178	
360 minute summer	S14	S5.001	S15	1.0	0.617	0.089	0.0253	
360 minute summer	S15	S5.002	S16	2.3	1.096	0.206	0.0277	
360 minute summer	S16	S5.003	S17	12.4	0.957	0.381	0.0902	
360 minute summer	S17	S5.004	S18	10.1	0.588	1.157	0.3623	
360 minute summer	S18	S5.005	S19	7.7	0.628	0.873	0.7109	
360 minute summer	S19	S5.006	S20	6.2	0.350	0.703	0.1003	
360 minute summer	S20	Hydro-Brake®	OUTFALL	5.0				127.5
360 minute summer	S21	S6.000	S22	4.8	0.817	0.264	0.1962	
360 minute summer	S22	S6.001	S16	9.4	1.538	0.297	0.1103	
360 minute summer	S23	S7.000	S24	1.2	0.456	0.197	0.1318	
360 minute summer	S24	S7.001	S25	2.4	0.680	0.392	0.1336	
360 minute summer	S25	S7.002	S26	3.2	0.422	0.181	0.3125	
360 minute summer	S26	S7.003	S19	4.2	0.650	0.234	0.0440	
360 minute summer	S27	S8.000	S25	1.2	0.594	0.196	0.1338	

Results for 100 year 360 minute winter. 600 minute analysis at 8 minute timestep. Mass balance: 99.40%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
360 minute winter	S13	176	188.592	0.017	0.7	0.0046	0.0000	OK
360 minute winter	S14	176	188.072	0.017	0.7	0.0027	0.0000	OK
360 minute winter	S15	184	187.562	0.027	1.7	0.0117	0.0000	OK
360 minute winter	S16	328	187.168	0.126	10.6	0.0791	0.0000	OK
360 minute winter	S17	328	187.166	0.367	12.4	38.9735	0.0000	FLOOD RISK
360 minute winter	S18	328	187.160	0.412	11.3	43.4993	0.0000	SURCHARGED
360 minute winter	S19	320	187.145	0.885	12.2	17.1971	0.0000	SURCHARGED
360 minute winter	S20	320	187.140	0.894	5.7	1.0115	0.0000	FLOOD RISK
360 minute winter	OUTFALL	8	186.184	0.000	5.0	0.0000	0.0000	OK
360 minute winter	S21	200	188.149	0.049	4.5	8.6457	0.0000	OK
360 minute winter	S22	200	187.804	0.054	8.5	9.5582	0.0000	OK
360 minute winter	S23	320	187.147	0.297	0.9	0.2133	0.0000	FLOOD RISK
360 minute winter	S24	320	187.146	0.464	1.6	0.2327	0.0000	SURCHARGED
360 minute winter	S25	320	187.146	0.685	2.4	0.1088	0.0000	SURCHARGED
360 minute winter	S26	320	187.145	0.860	2.9	0.3347	0.0000	SURCHARGED
360 minute winter	S27	320	187.146	0.296	0.9	0.2127	0.0000	FLOOD RISK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
360 minute winter	S13	S5.000	S14	0.7	0.785	0.063	0.0139	
360 minute winter	S14	S5.001	S15	0.7	0.562	0.063	0.0202	
360 minute winter	S15	S5.002	S16	1.7	1.010	0.153	0.0456	
360 minute winter	S16	S5.003	S17	10.6	0.936	0.325	0.1215	
360 minute winter	S17	S5.004	S18	9.2	0.562	1.049	0.3623	
360 minute winter	S18	S5.005	S19	7.7	0.629	0.878	0.7109	
360 minute winter	S19	S5.006	S20	5.7	0.323	0.649	0.1003	
360 minute winter	S20	Hydro-Brake®	OUTFALL	5.0				129.7
360 minute winter	S21	S6.000	S22	4.1	0.782	0.227	0.1764	
360 minute winter	S22	S6.001	S16	8.2	1.482	0.258	0.0994	
360 minute winter	S23	S7.000	S24	0.8	0.409	0.133	0.1318	
360 minute winter	S24	S7.001	S25	1.6	0.622	0.265	0.1336	
360 minute winter	S25	S7.002	S26	2.1	0.427	0.121	0.3125	
360 minute winter	S26	S7.003	S19	2.8	0.529	0.160	0.0440	
360 minute winter	S27	S8.000	S25	0.9	0.532	0.144	0.1338	

Results for 100 year 480 minute summer. 720 minute analysis at 8 minute timestep. Mass balance: 99.84%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
480 minute summer	S13	248	188.593	0.018	0.8	0.0049	0.0000	OK
480 minute summer	S14	248	188.073	0.018	0.8	0.0029	0.0000	OK
480 minute summer	S15	248	187.563	0.028	1.8	0.0121	0.0000	OK
480 minute summer	S16	256	187.101	0.059	10.5	0.0368	0.0000	OK
480 minute summer	S17	360	187.087	0.288	12.3	30.5832	0.0000	SURCHARGED
480 minute summer	S18	360	187.080	0.332	11.2	35.0691	0.0000	SURCHARGED
480 minute summer	S19	344	187.065	0.805	13.1	17.0675	0.0000	SURCHARGED
480 minute summer	S20	344	187.061	0.814	5.2	0.9211	0.0000	SURCHARGED
480 minute summer	OUTFALL	8	186.184	0.000	5.0	0.0000	0.0000	OK
480 minute summer	S21	256	188.148	0.048	4.8	8.5707	0.0000	OK
480 minute summer	S22	256	187.803	0.053	8.6	9.4227	0.0000	OK
480 minute summer	S23	344	187.066	0.216	0.9	0.1555	0.0000	FLOOD RISK
480 minute summer	S24	344	187.066	0.384	1.8	0.1924	0.0000	SURCHARGED
480 minute summer	S25	344	187.065	0.604	2.7	0.0961	0.0000	SURCHARGED
480 minute summer	S26	344	187.065	0.780	3.3	0.3034	0.0000	SURCHARGED
480 minute summer	S27	344	187.066	0.216	0.9	0.1549	0.0000	FLOOD RISK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
480 minute summer	S13	S5.000	S14	0.8	0.816	0.072	0.0153	
480 minute summer	S14	S5.001	S15	0.8	0.588	0.072	0.0214	
480 minute summer	S15	S5.002	S16	1.8	1.027	0.162	0.0233	
480 minute summer	S16	S5.003	S17	10.5	0.955	0.322	0.0868	
480 minute summer	S17	S5.004	S18	9.0	0.568	1.027	0.3623	
480 minute summer	S18	S5.005	S19	8.2	0.637	0.932	0.7109	
480 minute summer	S19	S5.006	S20	5.2	0.297	0.596	0.1003	
480 minute summer	S20	Hydro-Brake®	OUTFALL	5.0				151.6
480 minute summer	S21	S6.000	S22	4.1	0.782	0.224	0.1736	
480 minute summer	S22	S6.001	S16	8.0	1.471	0.251	0.0976	
480 minute summer	S23	S7.000	S24	0.9	0.422	0.149	0.1318	
480 minute summer	S24	S7.001	S25	1.8	0.642	0.295	0.1336	
480 minute summer	S25	S7.002	S26	2.4	0.405	0.135	0.3125	
480 minute summer	S26	S7.003	S19	3.1	0.650	0.174	0.0440	
480 minute summer	S27	S8.000	S25	0.9	0.548	0.151	0.1338	

Results for 100 year 480 minute winter. 720 minute analysis at 8 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
480 minute winter	S13	240	188.591	0.016	0.6	0.0043	0.0000	OK
480 minute winter	S14	240	188.071	0.016	0.6	0.0025	0.0000	OK
480 minute winter	S15	240	187.560	0.024	1.4	0.0106	0.0000	OK
480 minute winter	S16	376	187.140	0.098	8.8	0.0617	0.0000	OK
480 minute winter	S17	384	187.138	0.339	10.2	36.0346	0.0000	FLOOD RISK
480 minute winter	S18	384	187.131	0.383	9.8	40.4706	0.0000	SURCHARGED
480 minute winter	S19	368	187.115	0.855	11.1	17.1487	0.0000	SURCHARGED
480 minute winter	S20	368	187.111	0.864	6.1	0.9777	0.0000	FLOOD RISK
480 minute winter	OUTFALL	8	186.184	0.000	5.0	0.0000	0.0000	OK
480 minute winter	S21	264	188.144	0.044	3.6	7.8083	0.0000	OK
480 minute winter	S22	264	187.798	0.048	6.9	8.6144	0.0000	OK
480 minute winter	S23	368	187.117	0.267	0.7	0.1917	0.0000	FLOOD RISK
480 minute winter	S24	368	187.116	0.434	1.4	0.2177	0.0000	SURCHARGED
480 minute winter	S25	368	187.116	0.655	2.1	0.1041	0.0000	SURCHARGED
480 minute winter	S26	368	187.115	0.830	2.5	0.3230	0.0000	SURCHARGED
480 minute winter	S27	368	187.116	0.266	0.7	0.1911	0.0000	FLOOD RISK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
480 minute winter	S13	S5.000	S14	0.6	0.750	0.054	0.0125	
480 minute winter	S14	S5.001	S15	0.6	0.534	0.054	0.0177	
480 minute winter	S15	S5.002	S16	1.4	0.957	0.126	0.0280	
480 minute winter	S16	S5.003	S17	8.8	0.926	0.270	0.1085	
480 minute winter	S17	S5.004	S18	8.1	0.538	0.922	0.3623	
480 minute winter	S18	S5.005	S19	7.3	0.621	0.830	0.7109	
480 minute winter	S19	S5.006	S20	6.1	0.347	0.695	0.1003	
480 minute winter	S20	Hydro-Brake®	OUTFALL	5.0				153.2
480 minute winter	S21	S6.000	S22	3.4	0.741	0.187	0.1531	
480 minute winter	S22	S6.001	S16	6.8	1.407	0.213	0.0864	
480 minute winter	S23	S7.000	S24	0.7	0.393	0.116	0.1318	
480 minute winter	S24	S7.001	S25	1.4	0.596	0.229	0.1336	
480 minute winter	S25	S7.002	S26	1.8	0.422	0.105	0.3125	
480 minute winter	S26	S7.003	S19	2.5	0.591	0.139	0.0440	
480 minute winter	S27	S8.000	S25	0.7	0.510	0.116	0.1338	

Results for 100 year 600 minute summer. 840 minute analysis at 15 minute timestep. Mass balance: 99.97%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
600 minute summer	S13	315	188.591	0.016	0.6	0.0043	0.0000	OK
600 minute summer	S14	315	188.071	0.016	0.6	0.0025	0.0000	OK
600 minute summer	S15	315	187.560	0.024	1.4	0.0106	0.0000	OK
600 minute summer	S16	315	187.096	0.054	8.9	0.0337	0.0000	OK
600 minute summer	S17	420	187.061	0.262	10.5	27.7842	0.0000	SURCHARGED
600 minute summer	S18	435	187.053	0.305	10.3	32.2575	0.0000	SURCHARGED
600 minute summer	S19	435	187.036	0.776	10.4	17.0211	0.0000	SURCHARGED
600 minute summer	S20	435	187.032	0.786	6.0	0.8885	0.0000	SURCHARGED
600 minute summer	OUTFALL	15	186.184	0.000	5.0	0.0000	0.0000	OK
600 minute summer	S21	330	188.144	0.044	3.9	7.8829	0.0000	OK
600 minute summer	S22	330	187.799	0.049	7.3	8.7006	0.0000	OK
600 minute summer	S23	405	187.037	0.187	0.7	0.1344	0.0000	SURCHARGED
600 minute summer	S24	405	187.037	0.355	1.4	0.1777	0.0000	SURCHARGED
600 minute summer	S25	435	187.036	0.575	2.1	0.0915	0.0000	SURCHARGED
600 minute summer	S26	435	187.036	0.751	2.4	0.2922	0.0000	SURCHARGED
600 minute summer	S27	435	187.036	0.186	0.7	0.1340	0.0000	SURCHARGED
Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
600 minute summer	S13	S5.000	S14	0.6	0.750	0.054	0.0125	
600 minute summer	S14	S5.001	S15	0.6	0.534	0.054	0.0177	
600 minute summer	S15	S5.002	S16	1.4	0.957	0.126	0.0195	
600 minute summer	S16	S5.003	S17	8.9	0.908	0.273	0.0843	
600 minute summer	S17	S5.004	S18	8.5	0.548	0.964	0.3623	
600 minute summer	S18	S5.005	S19	6.6	0.606	0.749	0.7109	
600 minute summer	S19	S5.006	S20	6.0	0.338	0.678	0.1003	
600 minute summer	S20	Hydro-Brake®	OUTFALL	5.0				171.2
600 minute summer	S21	S6.000	S22	3.5	0.746	0.190	0.1552	
600 minute summer	S22	S6.001	S16	6.9	1.414	0.217	0.0876	
600 minute summer	S23	S7.000	S24	0.7	0.393	0.116	0.1318	
600 minute summer	S24	S7.001	S25	1.4	0.594	0.230	0.1336	
600 minute summer	S25	S7.002	S26	1.8	0.342	0.100	0.3125	
600 minute summer	S26	S7.003	S19	2.2	0.546	0.127	0.0440	
600 minute summer	S27	S8.000	S25	0.7	0.511	0.116	0.1338	

Results for 100 year 600 minute winter. 840 minute analysis at 15 minute timestep. Mass balance: 99.82%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
600 minute winter	S13	300	188.590	0.015	0.5	0.0039	0.0000	OK
600 minute winter	S14	300	188.070	0.015	0.5	0.0023	0.0000	OK
600 minute winter	S15	300	187.557	0.022	1.1	0.0094	0.0000	OK
600 minute winter	S16	465	187.110	0.068	7.5	0.0425	0.0000	OK
600 minute winter	S17	465	187.109	0.310	8.7	32.9130	0.0000	FLOOD RISK
600 minute winter	S18	465	187.102	0.354	8.6	37.4663	0.0000	SURCHARGED
600 minute winter	S19	450	187.088	0.828	9.3	17.1050	0.0000	SURCHARGED
600 minute winter	S20	450	187.084	0.838	5.2	0.9472	0.0000	SURCHARGED
600 minute winter	OUTFALL	15	186.184	0.000	5.0	0.0000	0.0000	OK
600 minute winter	S21	330	188.140	0.040	3.0	7.1894	0.0000	OK
600 minute winter	S22	330	187.794	0.044	5.8	7.9077	0.0000	OK
600 minute winter	S23	450	187.090	0.240	0.6	0.1722	0.0000	FLOOD RISK
600 minute winter	S24	450	187.089	0.407	1.2	0.2041	0.0000	SURCHARGED
600 minute winter	S25	450	187.089	0.627	2.2	0.0998	0.0000	SURCHARGED
600 minute winter	S26	450	187.088	0.803	2.1	0.3125	0.0000	SURCHARGED
600 minute winter	S27	450	187.089	0.239	0.6	0.1716	0.0000	FLOOD RISK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
600 minute winter	S13	S5.000	S14	0.5	0.711	0.045	0.0110	
600 minute winter	S14	S5.001	S15	0.5	0.520	0.045	0.0151	
600 minute winter	S15	S5.002	S16	1.1	0.893	0.099	0.0164	
600 minute winter	S16	S5.003	S17	7.5	0.928	0.229	0.0921	
600 minute winter	S17	S5.004	S18	7.2	0.517	0.817	0.3623	
600 minute winter	S18	S5.005	S19	7.6	0.603	0.867	0.7109	
600 minute winter	S19	S5.006	S20	5.2	0.293	0.588	0.1003	
600 minute winter	S20	Hydro-Brake®	OUTFALL	5.0				177.2
600 minute winter	S21	S6.000	S22	2.9	0.709	0.159	0.1361	
600 minute winter	S22	S6.001	S16	5.8	1.347	0.181	0.0768	
600 minute winter	S23	S7.000	S24	0.6	0.358	0.099	0.1318	
600 minute winter	S24	S7.001	S25	1.0	0.564	0.172	0.1336	
600 minute winter	S25	S7.002	S26	-1.5	0.414	-0.084	0.3125	
600 minute winter	S26	S7.003	S19	2.0	0.609	0.114	0.0440	
600 minute winter	S27	S8.000	S25	0.6	0.465	0.099	0.1338	

Results for 100 year 720 minute summer. 960 minute analysis at 15 minute timestep. Mass balance: 99.98%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
720 minute summer	S13	375	188.591	0.016	0.6	0.0043	0.0000	OK
720 minute summer	S14	375	188.071	0.016	0.6	0.0025	0.0000	OK
720 minute summer	S15	375	187.559	0.024	1.3	0.0102	0.0000	OK
720 minute summer	S16	375	187.093	0.051	8.1	0.0320	0.0000	OK
720 minute summer	S17	495	187.042	0.242	9.5	25.7421	0.0000	SURCHARGED
720 minute summer	S18	495	187.034	0.286	9.5	30.2482	0.0000	SURCHARGED
720 minute summer	S19	480	187.019	0.758	10.1	16.9924	0.0000	SURCHARGED
720 minute summer	S20	480	187.014	0.768	5.8	0.8681	0.0000	SURCHARGED
720 minute summer	OUTFALL	15	186.184	0.000	5.0	0.0000	0.0000	OK
720 minute summer	S21	390	188.142	0.042	3.5	7.4807	0.0000	OK
720 minute summer	S22	390	187.796	0.046	6.6	8.2384	0.0000	OK
720 minute summer	S23	480	187.020	0.170	0.7	0.1221	0.0000	SURCHARGED
720 minute summer	S24	480	187.020	0.338	1.5	0.1692	0.0000	SURCHARGED
720 minute summer	S25	480	187.019	0.558	2.1	0.0887	0.0000	SURCHARGED
720 minute summer	S26	480	187.019	0.734	2.4	0.2854	0.0000	SURCHARGED
720 minute summer	S27	480	187.019	0.169	0.7	0.1215	0.0000	SURCHARGED
Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
720 minute summer	S13	S5.000	S14	0.6	0.750	0.054	0.0125	
720 minute summer	S14	S5.001	S15	0.6	0.552	0.054	0.0171	
720 minute summer	S15	S5.002	S16	1.3	0.937	0.117	0.0185	
720 minute summer	S16	S5.003	S17	8.1	0.905	0.247	0.0817	
720 minute summer	S17	S5.004	S18	7.9	0.537	0.898	0.3623	
720 minute summer	S18	S5.005	S19	8.0	0.603	0.916	0.7109	
720 minute summer	S19	S5.006	S20	5.8	0.331	0.665	0.1003	
720 minute summer	S20	Hydro-Brake®	OUTFALL	5.0				181.3
720 minute summer	S21	S6.000	S22	3.1	0.725	0.172	0.1440	
720 minute summer	S22	S6.001	S16	6.2	1.376	0.196	0.0813	
720 minute summer	S23	S7.000	S24	0.7	0.393	0.116	0.1318	
720 minute summer	S24	S7.001	S25	1.4	0.567	0.229	0.1336	
720 minute summer	S25	S7.002	S26	1.7	0.342	0.098	0.3125	
720 minute summer	S26	S7.003	S19	2.3	0.546	0.128	0.0440	
720 minute summer	S27	S8.000	S25	0.7	0.510	0.116	0.1338	

Results for 100 year 720 minute winter. 960 minute analysis at 15 minute timestep. Mass balance: 99.97%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
720 minute winter	S13	330	188.588	0.013	0.4	0.0035	0.0000	OK
720 minute winter	S14	330	188.068	0.013	0.4	0.0021	0.0000	OK
720 minute winter	S15	375	187.556	0.021	1.0	0.0089	0.0000	OK
720 minute winter	S16	375	187.087	0.045	6.4	0.0284	0.0000	OK
720 minute winter	S17	540	187.078	0.279	7.5	29.6001	0.0000	SURCHARGED
720 minute winter	S18	540	187.072	0.323	7.8	34.1922	0.0000	SURCHARGED
720 minute winter	S19	525	187.058	0.798	9.0	17.0563	0.0000	SURCHARGED
720 minute winter	S20	525	187.054	0.808	5.2	0.9133	0.0000	SURCHARGED
720 minute winter	OUTFALL	15	186.184	0.000	5.0	0.0000	0.0000	OK

720 minute winter	S21	390	188.138	0.038	2.6	6.6987	0.0000	OK
720 minute winter	S22	390	187.791	0.041	5.1	7.3504	0.0000	OK
720 minute winter	S23	525	187.059	0.209	0.5	0.1506	0.0000	FLOOD RISK
720 minute winter	S24	525	187.059	0.377	1.1	0.1890	0.0000	SURCHARGED
720 minute winter	S25	525	187.058	0.597	1.9	0.0950	0.0000	SURCHARGED
720 minute winter	S26	525	187.058	0.773	1.8	0.3007	0.0000	SURCHARGED
720 minute winter	S27	525	187.059	0.209	0.5	0.1499	0.0000	FLOOD RISK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
720 minute winter	S13	S5.000	S14	0.4	0.666	0.036	0.0094	
720 minute winter	S14	S5.001	S15	0.4	0.483	0.036	0.0137	
720 minute winter	S15	S5.002	S16	1.0	0.869	0.090	0.0153	
720 minute winter	S16	S5.003	S17	6.4	0.856	0.197	0.0802	
720 minute winter	S17	S5.004	S18	6.6	0.502	0.747	0.3623	
720 minute winter	S18	S5.005	S19	7.2	0.599	0.819	0.7109	
720 minute winter	S19	S5.006	S20	5.2	0.296	0.594	0.1003	
720 minute winter	S20	Hydro-Brake®	OUTFALL	5.0				199.8
720 minute winter	S21	S6.000	S22	2.5	0.681	0.138	0.1231	
720 minute winter	S22	S6.001	S16	5.0	1.296	0.158	0.0695	
720 minute winter	S23	S7.000	S24	0.5	0.357	0.083	0.1318	
720 minute winter	S24	S7.001	S25	1.0	0.532	0.164	0.1336	
720 minute winter	S25	S7.002	S26	-1.4	0.342	-0.078	0.3125	
720 minute winter	S26	S7.003	S19	1.8	0.575	0.101	0.0440	
720 minute winter	S27	S8.000	S25	0.5	0.463	0.083	0.1338	

Results for 100 year 960 minute summer. 1200 minute analysis at 15 minute timestep. Mass balance: 99.98%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
960 minute summer	S13	495	188.590	0.015	0.5	0.0039	0.0000	OK
960 minute summer	S14	495	188.070	0.015	0.5	0.0023	0.0000	OK
960 minute summer	S15	495	187.557	0.022	1.1	0.0094	0.0000	OK
960 minute summer	S16	495	187.088	0.046	6.7	0.0290	0.0000	OK
960 minute summer	S17	615	186.999	0.200	7.8	21.2084	0.0000	SURCHARGED
960 minute summer	S18	615	186.991	0.243	8.1	25.6780	0.0000	SURCHARGED
960 minute summer	S19	615	186.975	0.715	9.7	16.9214	0.0000	SURCHARGED
960 minute summer	S20	615	186.969	0.723	5.1	0.8178	0.0000	SURCHARGED
960 minute summer	OUTFALL	15	186.184	0.000	5.0	0.0000	0.0000	OK
960 minute summer	S21	510	188.138	0.038	2.8	6.7860	0.0000	OK
960 minute summer	S22	510	187.792	0.042	5.3	7.4411	0.0000	OK
960 minute summer	S23	615	186.976	0.126	0.5	0.0905	0.0000	SURCHARGED
960 minute summer	S24	615	186.976	0.294	1.0	0.1472	0.0000	SURCHARGED
960 minute summer	S25	615	186.975	0.514	1.5	0.0817	0.0000	SURCHARGED
960 minute summer	S26	615	186.975	0.690	1.8	0.2683	0.0000	SURCHARGED
960 minute summer	S27	615	186.975	0.125	0.5	0.0899	0.0000	SURCHARGED
Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
960 minute summer	S13	S5.000	S14	0.5	0.711	0.045	0.0110	
960 minute summer	S14	S5.001	S15	0.5	0.520	0.045	0.0151	
960 minute summer	S15	S5.002	S16	1.1	0.893	0.099	0.0164	
960 minute summer	S16	S5.003	S17	6.7	0.770	0.205	0.0788	
960 minute summer	S17	S5.004	S18	6.8	0.513	0.776	0.3623	
960 minute summer	S18	S5.005	S19	6.9	0.614	0.791	0.7109	
960 minute summer	S19	S5.006	S20	5.1	0.291	0.585	0.1003	
960 minute summer	S20	Hydro-Brake®	OUTFALL	5.0				194.0
960 minute summer	S21	S6.000	S22	2.6	0.687	0.142	0.1253	
960 minute summer	S22	S6.001	S16	5.1	1.305	0.161	0.0707	
960 minute summer	S23	S7.000	S24	0.5	0.358	0.083	0.1318	
960 minute summer	S24	S7.001	S25	1.0	0.564	0.166	0.1336	
960 minute summer	S25	S7.002	S26	1.3	0.342	0.075	0.3125	
960 minute summer	S26	S7.003	S19	1.7	0.426	0.096	0.0440	
960 minute summer	S27	S8.000	S25	0.5	0.465	0.083	0.1338	

Results for 100 year 960 minute winter. 1200 minute analysis at 15 minute timestep. Mass balance: 99.98%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
960 minute winter	S13	420	188.587	0.011	0.3	0.0030	0.0000	OK
960 minute winter	S14	420	188.066	0.011	0.3	0.0018	0.0000	OK
960 minute winter	S15	420	187.552	0.017	0.7	0.0075	0.0000	OK
960 minute winter	S16	510	187.082	0.040	5.1	0.0253	0.0000	OK
960 minute winter	S17	660	187.004	0.205	5.9	21.7909	0.0000	SURCHARGED
960 minute winter	S18	660	186.997	0.249	6.6	26.3254	0.0000	SURCHARGED
960 minute winter	S19	660	186.982	0.722	8.2	16.9333	0.0000	SURCHARGED
960 minute winter	S20	660	186.977	0.730	5.1	0.8262	0.0000	SURCHARGED
960 minute winter	OUTFALL	15	186.184	0.000	5.0	0.0000	0.0000	OK

960 minute winter	S21	510	188.134	0.034	2.1	6.0089	0.0000	OK
960 minute winter	S22	510	187.787	0.037	4.1	6.5742	0.0000	OK
960 minute winter	S23	660	186.983	0.133	0.4	0.0958	0.0000	SURCHARGED
960 minute winter	S24	660	186.983	0.301	0.8	0.1508	0.0000	SURCHARGED
960 minute winter	S25	660	186.982	0.521	1.2	0.0829	0.0000	SURCHARGED
960 minute winter	S26	660	186.982	0.697	1.5	0.2711	0.0000	SURCHARGED
960 minute winter	S27	660	186.982	0.132	0.4	0.0952	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
960 minute winter	S13	S5.000	S14	0.3	0.610	0.027	0.0077	
960 minute winter	S14	S5.001	S15	0.3	0.437	0.027	0.0108	
960 minute winter	S15	S5.002	S16	0.7	0.783	0.063	0.0119	
960 minute winter	S16	S5.003	S17	5.1	0.752	0.158	0.0773	
960 minute winter	S17	S5.004	S18	5.6	0.477	0.633	0.3623	
960 minute winter	S18	S5.005	S19	6.0	0.592	0.681	0.7109	
960 minute winter	S19	S5.006	S20	5.1	0.293	0.580	0.1003	
960 minute winter	S20	Hydro-Brake®	OUTFALL	5.0				217.7
960 minute winter	S21	S6.000	S22	2.0	0.641	0.111	0.1053	
960 minute winter	S22	S6.001	S16	4.0	1.220	0.127	0.0595	
960 minute winter	S23	S7.000	S24	0.4	0.335	0.066	0.1318	
960 minute winter	S24	S7.001	S25	0.8	0.529	0.133	0.1336	
960 minute winter	S25	S7.002	S26	1.1	0.342	0.062	0.3125	
960 minute winter	S26	S7.003	S19	1.5	0.513	0.082	0.0440	
960 minute winter	S27	S8.000	S25	0.4	0.435	0.066	0.1338	

Results for 100 year 1440 minute summer. 1680 minute analysis at 30 minute timestep. Mass balance: 99.98%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
1440 minute summer	S13	720	188.587	0.011	0.3	0.0030	0.0000	OK
1440 minute summer	S14	720	188.066	0.011	0.3	0.0018	0.0000	OK
1440 minute summer	S15	720	187.552	0.017	0.7	0.0075	0.0000	OK
1440 minute summer	S16	750	187.081	0.039	4.9	0.0247	0.0000	OK
1440 minute summer	S17	870	186.918	0.119	5.7	12.5999	0.0000	OK
1440 minute summer	S18	870	186.912	0.164	6.3	17.2984	0.0000	SURCHARGED
1440 minute summer	S19	870	186.894	0.634	8.0	16.7909	0.0000	SURCHARGED
1440 minute summer	S20	870	186.888	0.642	5.1	0.7256	0.0000	SURCHARGED
1440 minute summer	OUTFALL	30	186.184	0.000	5.0	0.0000	0.0000	OK
1440 minute summer	S21	750	188.133	0.033	2.0	5.8366	0.0000	OK
1440 minute summer	S22	750	187.786	0.036	3.9	6.3664	0.0000	OK
1440 minute summer	S23	870	186.895	0.045	0.4	0.0324	0.0000	OK
1440 minute summer	S24	870	186.895	0.213	0.8	0.1067	0.0000	SURCHARGED
1440 minute summer	S25	870	186.894	0.433	1.2	0.0688	0.0000	SURCHARGED
1440 minute summer	S26	870	186.894	0.609	1.5	0.2368	0.0000	SURCHARGED
1440 minute summer	S27	870	186.894	0.044	0.4	0.0318	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	S13	S5.000	S14	0.3	0.610	0.027	0.0077	
1440 minute summer	S14	S5.001	S15	0.3	0.436	0.027	0.0108	
1440 minute summer	S15	S5.002	S16	0.7	0.783	0.063	0.0119	
1440 minute summer	S16	S5.003	S17	4.9	0.697	0.150	0.0634	
1440 minute summer	S17	S5.004	S18	5.4	0.480	0.613	0.3350	
1440 minute summer	S18	S5.005	S19	5.8	0.588	0.662	0.7109	
1440 minute summer	S19	S5.006	S20	5.1	0.291	0.581	0.1003	
1440 minute summer	S20	Hydro-Brake®	OUTFALL	5.0				201.9
1440 minute summer	S21	S6.000	S22	1.9	0.632	0.105	0.1008	
1440 minute summer	S22	S6.001	S16	3.8	1.199	0.119	0.0569	
1440 minute summer	S23	S7.000	S24	0.4	0.335	0.066	0.0947	
1440 minute summer	S24	S7.001	S25	0.8	0.531	0.133	0.1336	
1440 minute summer	S25	S7.002	S26	1.1	0.342	0.062	0.3125	
1440 minute summer	S26	S7.003	S19	1.4	0.213	0.079	0.0440	
1440 minute summer	S27	S8.000	S25	0.4	0.435	0.066	0.0954	

Results for 100 year 1440 minute winter. 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 winter	S13	600	188.584	0.009	0.2	0.0025	0.0000	OK
1440 minute winter	S14	600	188.064	0.009	0.2	0.0015	0.0000	OK
1440 minute winter	S15	660	187.550	0.015	0.5	0.0064	0.0000	OK
1440 minute winter	S16	750	187.076	0.034	3.7	0.0216	0.0000	OK
1440 minute winter	S17	900	186.881	0.082	4.3	8.7096	0.0000	OK
1440 minute winter	S18	900	186.872	0.124	5.0	13.1412	0.0000	OK
1440 minute winter	S19	900	186.857	0.597	6.7	16.7322	0.0000	SURCHARGED
1440 minute winter	S20	900	186.851	0.605	5.0	0.6842	0.0000	SURCHARGED
1440 minute winter	OUTFALL	30	186.184	0.000	5.0	0.0000	0.0000	OK
1440 minute winter	S21	750	188.129	0.029	1.5	5.1299	0.0000	OK
1440 minute winter	S22	750	187.781	0.031	3.0	5.5825	0.0000	OK
1440 minute winter	S23	690	186.865	0.015	0.3	0.0109	0.0000	OK
1440 minute winter	S24	900	186.859	0.177	0.6	0.0884	0.0000	SURCHARGED
1440 minute winter	S25	900	186.858	0.397	0.9	0.0631	0.0000	SURCHARGED
1440 minute winter	S26	900	186.857	0.572	1.2	0.2227	0.0000	SURCHARGED
1440 minute winter	S27	690	186.865	0.015	0.3	0.0110	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	S13	S5.000	S14	0.2	0.541	0.018	0.0058	
1440 minute winter	S14	S5.001	S15	0.2	0.415	0.018	0.0084	
1440 minute winter	S15	S5.002	S16	0.5	0.710	0.045	0.0094	
1440 minute winter	S16	S5.003	S17	3.7	0.645	0.114	0.0449	
1440 minute winter	S17	S5.004	S18	4.3	0.448	0.492	0.2620	
1440 minute winter	S18	S5.005	S19	5.0	0.565	0.565	0.6706	
1440 minute winter	S19	S5.006	S20	5.0	0.290	0.575	0.1003	
1440 minute winter	S20	Hydro-Brake®	OUTFALL	5.0				236.5
1440 minute winter	S21	S6.000	S22	1.5	0.586	0.081	0.0837	
1440 minute winter	S22	S6.001	S16	2.9	1.115	0.092	0.0473	
1440 minute winter	S23	S7.000	S24	0.3	0.308	0.050	0.0722	
1440 minute winter	S24	S7.001	S25	0.6	0.490	0.100	0.1336	
1440 minute winter	S25	S7.002	S26	0.9	0.342	0.051	0.3125	
1440 minute winter	S26	S7.003	S19	1.1	0.349	0.065	0.0440	
1440 minute winter	S27	S8.000	S25	0.3	0.400	0.050	0.0733	

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	S13	10	188.635	0.060	7.2	0.0159	0.0000	OK
15 minute summer	S14	12	188.197	0.142	7.2	0.0226	0.0000	SURCHARGED
15 minute summer	S15	12	188.047	0.512	16.1	0.2223	0.0000	SURCHARGED
15 minute summer	S16	13	187.335	0.293	35.7	0.1843	0.0000	SURCHARGED
15 minute summer	S17	27	187.009	0.209	48.1	22.2355	0.0000	SURCHARGED
15 minute summer	S18	59	186.958	0.210	26.9	22.1950	0.0000	SURCHARGED
15 minute summer	S19	61	186.927	0.667	42.5	16.8442	0.0000	SURCHARGED
15 minute summer	S20	61	186.921	0.675	6.9	0.7632	0.0000	SURCHARGED
15 minute summer	OUTFALL	1	186.184	0.000	5.0	0.0000	0.0000	OK
15 minute summer	S21	15	188.183	0.083	44.3	14.7799	0.0000	OK
15 minute summer	S22	16	187.835	0.085	48.6	15.1492	0.0000	OK
15 minute summer	S23	10	187.350	0.500	8.4	0.3595	0.8486	FLOOD
15 minute summer	S24	11	187.330	0.648	13.1	0.3244	0.0000	FLOOD RISK
15 minute summer	S25	61	186.927	0.466	17.1	0.0740	0.0000	SURCHARGED
15 minute summer	S26	61	186.927	0.642	24.2	0.2496	0.0000	SURCHARGED
15 minute summer	S27	12	187.089	0.239	8.4	0.1715	0.0000	FLOOD RISK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	S13	S5.000	S14	7.2	1.452	0.649	0.0947	
15 minute summer	S14	S5.001	S15	6.5	0.921	0.587	0.1220	
15 minute summer	S15	S5.002	S16	13.3	1.702	1.200	0.1041	
15 minute summer	S16	S5.003	S17	34.9	2.252	1.072	0.1282	
15 minute summer	S17	S5.004	S18	13.7	0.813	1.564	0.3623	
15 minute summer	S18	S5.005	S19	6.8	0.577	0.772	0.7109	
15 minute summer	S19	S5.006	S20	6.9	0.410	0.784	0.1003	
15 minute summer	S20	Hydro-Brake®	OUTFALL	5.0				71.3
15 minute summer	S21	S6.000	S22	10.4	1.028	0.573	0.3382	
15 minute summer	S22	S6.001	S16	19.5	1.798	0.613	0.2486	
15 minute summer	S23	S7.000	S24	4.7	0.606	0.775	0.1318	
15 minute summer	S24	S7.001	S25	9.9	1.265	1.639	0.1336	
15 minute summer	S25	S7.002	S26	16.2	0.921	0.917	0.3125	
15 minute summer	S26	S7.003	S19	23.3	1.323	1.311	0.0440	
15 minute summer	S27	S8.000	S25	7.4	0.944	1.218	0.1338	

Results for 100 year +40% CC 15 minute winter. 255 minute analysis at 1 minute timestep. Mass balance: 99.59%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	S13	10	188.636	0.061	7.5	0.0161	0.0000	OK
15 minute winter	S14	12	188.272	0.217	7.5	0.0345	0.0000	SURCHARGED
15 minute winter	S15	12	188.122	0.587	16.5	0.2549	0.0000	SURCHARGED
15 minute winter	S16	14	187.418	0.376	38.5	0.2363	0.0000	FLOOD RISK
15 minute winter	S17	30	187.052	0.253	51.8	26.8821	0.0000	SURCHARGED
15 minute winter	S18	62	187.003	0.255	28.9	26.9259	0.0000	SURCHARGED
15 minute winter	S19	64	186.974	0.714	44.0	16.9203	0.0000	SURCHARGED
15 minute winter	S20	64	186.968	0.722	7.0	0.8170	0.0000	SURCHARGED
15 minute winter	OUTFALL	1	186.184	0.000	5.0	0.0000	0.0000	OK
15 minute winter	S21	15	188.192	0.092	46.5	16.3637	0.0000	OK
15 minute winter	S22	16	187.845	0.095	51.7	16.9495	0.0000	OK
15 minute winter	S23	10	187.350	0.500	8.8	0.3595	1.1612	FLOOD
15 minute winter	S24	11	187.341	0.659	12.8	0.3303	0.0000	FLOOD RISK
15 minute winter	S25	16	187.002	0.541	17.6	0.0860	0.0000	SURCHARGED
15 minute winter	S26	64	186.974	0.689	24.6	0.2680	0.0000	SURCHARGED
15 minute winter	S27	12	187.140	0.290	8.8	0.2084	0.0000	FLOOD RISK
Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute winter	S13	S5.000	S14	7.5	1.456	0.678	0.0981	
15 minute winter	S14	S5.001	S15	6.4	0.916	0.580	0.1220	
15 minute winter	S15	S5.002	S16	13.3	1.702	1.199	0.1041	
15 minute winter	S16	S5.003	S17	37.4	2.253	1.147	0.1282	
15 minute winter	S17	S5.004	S18	14.2	0.824	1.615	0.3623	
15 minute winter	S18	S5.005	S19	-8.4	0.582	-0.960	0.7109	
15 minute winter	S19	S5.006	S20	7.0	0.429	0.800	0.1003	
15 minute winter	S20	Hydro-Brake®	OUTFALL	5.0				69.9
15 minute winter	S21	S6.000	S22	12.2	1.057	0.670	0.3846	
15 minute winter	S22	S6.001	S16	22.5	1.846	0.709	0.2640	
15 minute winter	S23	S7.000	S24	4.6	0.629	0.758	0.1318	
15 minute winter	S24	S7.001	S25	10.0	1.277	1.655	0.1336	
15 minute winter	S25	S7.002	S26	16.2	0.920	0.917	0.3125	
15 minute winter	S26	S7.003	S19	23.5	1.338	1.326	0.0440	
15 minute winter	S27	S8.000	S25	7.6	0.978	1.265	0.1338	

Results for 100 year +40% CC 30 minute summer. 270 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
30 minute summer	S13	17	188.632	0.057	6.5	0.0152	0.0000	OK
30 minute summer	S14	20	188.129	0.074	6.5	0.0118	0.0000	OK
30 minute summer	S15	20	188.018	0.483	14.8	0.2097	0.0000	SURCHARGED
30 minute summer	S16	21	187.424	0.382	37.8	0.2405	0.0000	FLOOD RISK
30 minute summer	S17	43	187.119	0.320	49.9	34.0102	0.0000	FLOOD RISK
30 minute summer	S18	75	187.079	0.331	29.6	34.9834	0.0000	SURCHARGED
30 minute summer	S19	77	187.055	0.795	40.7	17.0520	0.0000	SURCHARGED
30 minute summer	S20	77	187.051	0.805	11.7	0.9103	0.0000	SURCHARGED
30 minute summer	OUTFALL	1	186.184	0.000	5.0	0.0000	0.0000	OK
30 minute summer	S21	23	188.194	0.094	39.9	16.7262	0.0000	OK
30 minute summer	S22	23	187.849	0.098	47.5	17.5449	0.0000	OK
30 minute summer	S23	18	187.350	0.500	7.5	0.3595	0.6678	FLOOD
30 minute summer	S24	19	187.319	0.637	11.8	0.3192	0.0000	FLOOD RISK
30 minute summer	S25	23	187.059	0.598	16.0	0.0951	0.0000	SURCHARGED
30 minute summer	S26	77	187.055	0.770	22.4	0.2997	0.0000	SURCHARGED
30 minute summer	S27	23	187.085	0.235	7.5	0.1688	0.0000	FLOOD RISK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
30 minute summer	S13	S5.000	S14	6.5	1.434	0.590	0.0797	
30 minute summer	S14	S5.001	S15	6.2	0.898	0.556	0.1095	
30 minute summer	S15	S5.002	S16	12.3	1.566	1.104	0.1041	
30 minute summer	S16	S5.003	S17	36.8	2.091	1.129	0.1282	
30 minute summer	S17	S5.004	S18	14.2	0.809	1.614	0.3623	
30 minute summer	S18	S5.005	S19	-10.1	-0.575	-1.148	0.7109	
30 minute summer	S19	S5.006	S20	11.7	0.663	1.331	0.1003	
30 minute summer	S20	Hydro-Brake®	OUTFALL	5.0				68.4
30 minute summer	S21	S6.000	S22	12.6	1.059	0.694	0.3978	
30 minute summer	S22	S6.001	S16	23.7	1.848	0.746	0.2683	
30 minute summer	S23	S7.000	S24	4.3	0.586	0.712	0.1318	
30 minute summer	S24	S7.001	S25	9.5	1.220	1.581	0.1336	
30 minute summer	S25	S7.002	S26	15.0	0.851	0.847	0.3125	
30 minute summer	S26	S7.003	S19	21.5	1.219	1.209	0.0440	
30 minute summer	S27	S8.000	S25	6.6	0.855	1.092	0.1338	

Results for 100 year +40% CC 30 minute winter. 270 minute analysis at 1 minute timestep. Mass balance: 99.03%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
30 minute winter	S13	18	188.628	0.053	5.8	0.0141	0.0000	OK
30 minute winter	S14	20	188.113	0.058	5.8	0.0093	0.0000	OK
30 minute winter	S15	20	187.976	0.441	13.5	0.1913	0.0000	SURCHARGED
30 minute winter	S16	22	187.466	0.424	38.0	0.2669	0.0000	FLOOD RISK
30 minute winter	S17	44	187.180	0.381	49.5	40.4916	0.0000	FLOOD RISK
30 minute winter	S18	77	187.138	0.390	36.8	41.1787	0.0000	SURCHARGED
30 minute winter	S19	24	187.134	0.874	38.6	17.1785	0.0000	SURCHARGED
30 minute winter	S20	24	187.129	0.883	7.6	0.9991	0.0000	FLOOD RISK
30 minute winter	OUTFALL	1	186.184	0.000	5.0	0.0000	0.0000	OK
30 minute winter	S21	24	188.202	0.102	36.0	18.1059	0.0000	OK
30 minute winter	S22	25	187.861	0.111	44.7	19.7067	0.0000	OK
30 minute winter	S23	18	187.350	0.500	6.8	0.3595	1.0025	FLOOD
30 minute winter	S24	22	187.335	0.653	11.1	0.3273	0.0000	FLOOD RISK
30 minute winter	S25	24	187.195	0.734	15.2	0.1167	0.0000	SURCHARGED
30 minute winter	S26	24	187.152	0.867	21.1	0.3374	0.0000	SURCHARGED
30 minute winter	S27	23	187.241	0.391	6.8	0.2814	0.0000	FLOOD RISK
Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
30 minute winter	S13	S5.000	S14	5.8	1.399	0.524	0.0665	
30 minute winter	S14	S5.001	S15	5.7	0.855	0.512	0.0978	
30 minute winter	S15	S5.002	S16	11.6	1.532	1.044	0.1041	
30 minute winter	S16	S5.003	S17	37.3	2.121	1.145	0.1282	
30 minute winter	S17	S5.004	S18	14.0	0.831	1.597	0.3623	
30 minute winter	S18	S5.005	S19	-12.9	-0.734	-1.470	0.7109	
30 minute winter	S19	S5.006	S20	7.6	0.430	0.863	0.1003	
30 minute winter	S20	Hydro-Brake®	OUTFALL	5.0				66.0
30 minute winter	S21	S6.000	S22	14.1	1.069	0.778	0.4426	
30 minute winter	S22	S6.001	S16	25.5	1.702	0.802	0.2833	
30 minute winter	S23	S7.000	S24	4.3	0.566	0.712	0.1318	
30 minute winter	S24	S7.001	S25	9.4	1.197	1.551	0.1336	
30 minute winter	S25	S7.002	S26	14.3	0.810	0.807	0.3125	
30 minute winter	S26	S7.003	S19	20.2	1.181	1.135	0.0440	
30 minute winter	S27	S8.000	S25	6.3	0.858	1.035	0.1338	

Results for 100 year +40% CC 60 minute summer. 300 minute analysis at 1 minute timestep. Mass balance: 99.15%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute summer	S13	33	188.623	0.047	4.8	0.0126	0.0000	OK
60 minute summer	S14	33	188.101	0.046	4.8	0.0073	0.0000	OK
60 minute summer	S15	35	187.767	0.232	11.2	0.1006	0.0000	SURCHARGED
60 minute summer	S16	39	187.421	0.379	35.7	0.2382	0.0000	FLOOD RISK
60 minute summer	S17	68	187.230	0.430	45.1	45.6977	0.0000	FLOOD RISK
60 minute summer	S18	95	187.194	0.446	33.2	47.1805	0.0000	SURCHARGED
60 minute summer	S19	97	187.168	0.908	34.8	17.2338	0.0000	SURCHARGED
60 minute summer	S20	97	187.163	0.917	11.8	1.0370	0.0000	FLOOD RISK
60 minute summer	OUTFALL	1	186.184	0.000	5.0	0.0000	0.0000	OK
60 minute summer	S21	39	188.197	0.097	29.7	17.2236	0.0000	OK
60 minute summer	S22	40	187.854	0.104	38.8	18.5607	0.0000	OK
60 minute summer	S23	35	187.350	0.500	5.6	0.3595	0.1868	FLOOD
60 minute summer	S24	38	187.321	0.639	9.5	0.3200	0.0000	FLOOD RISK
60 minute summer	S25	39	187.174	0.713	13.8	0.1134	0.0000	SURCHARGED
60 minute summer	S26	97	187.168	0.883	18.0	0.3434	0.0000	SURCHARGED
60 minute summer	S27	39	187.211	0.361	5.6	0.2593	0.0000	FLOOD RISK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
60 minute summer	S13	S5.000	S14	4.8	1.337	0.432	0.0560	
60 minute summer	S14	S5.001	S15	4.8	0.853	0.432	0.0884	
60 minute summer	S15	S5.002	S16	10.9	1.535	0.986	0.1041	
60 minute summer	S16	S5.003	S17	35.1	1.993	1.076	0.1282	
60 minute summer	S17	S5.004	S18	13.9	0.802	1.589	0.3623	
60 minute summer	S18	S5.005	S19	-11.7	-0.666	-1.336	0.7109	
60 minute summer	S19	S5.006	S20	11.8	0.668	1.341	0.1003	
60 minute summer	S20	Hydro-Brake®	OUTFALL	5.0				71.3
60 minute summer	S21	S6.000	S22	13.2	1.058	0.726	0.4170	
60 minute summer	S22	S6.001	S16	24.5	1.718	0.771	0.2755	
60 minute summer	S23	S7.000	S24	4.1	0.560	0.686	0.1318	
60 minute summer	S24	S7.001	S25	8.5	1.088	1.410	0.1336	
60 minute summer	S25	S7.002	S26	12.6	0.717	0.714	0.3125	
60 minute summer	S26	S7.003	S19	17.2	1.012	0.968	0.0440	
60 minute summer	S27	S8.000	S25	5.7	0.851	0.951	0.1338	

Results for 100 year +40% CC 60 minute winter. 300 minute analysis at 1 minute timestep. Mass balance: 99.16%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute winter	S13	33	188.617	0.042	3.9	0.0112	0.0000	OK
60 minute winter	S14	33	188.096	0.041	3.9	0.0065	0.0000	OK
60 minute winter	S15	37	187.681	0.146	9.1	0.0632	0.0000	SURCHARGED
60 minute winter	S16	56	187.539	0.497	34.6	0.3128	0.0000	FLOOD RISK
60 minute winter	S17	56	187.400	0.601	43.1	47.9979	8.3848	FLOOD
60 minute winter	S18	72	187.383	0.635	34.4	47.7480	0.0000	SURCHARGED
60 minute winter	S19	71	187.350	1.090	30.8	17.5284	0.0000	FLOOD RISK
60 minute winter	S20	72	187.344	1.098	11.7	1.2423	0.0000	FLOOD RISK
60 minute winter	OUTFALL	1	186.184	0.000	5.0	0.0000	0.0000	OK
60 minute winter	S21	41	188.200	0.100	24.0	17.8015	0.0000	OK
60 minute winter	S22	43	187.862	0.112	34.4	19.9379	0.0000	OK
60 minute winter	S23	37	187.350	0.500	4.5	0.3595	0.6328	FLOOD
60 minute winter	S24	74	187.350	0.668	8.1	0.3347	0.0000	FLOOD RISK
60 minute winter	S25	72	187.350	0.889	11.7	0.1414	0.0000	FLOOD RISK
60 minute winter	S26	71	187.350	1.065	15.2	0.4144	0.0000	FLOOD RISK
60 minute winter	S27	72	187.350	0.500	4.5	0.3595	0.0536	FLOOD
Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
60 minute winter	S13	S5.000	S14	3.9	1.268	0.351	0.0480	
60 minute winter	S14	S5.001	S15	3.9	0.873	0.351	0.0834	
60 minute winter	S15	S5.002	S16	9.1	1.501	0.820	0.1041	
60 minute winter	S16	S5.003	S17	34.2	1.941	1.048	0.1282	
60 minute winter	S17	S5.004	S18	17.6	1.002	2.011	0.3623	
60 minute winter	S18	S5.005	S19	-12.8	-0.725	-1.456	0.7109	
60 minute winter	S19	S5.006	S20	11.7	0.667	1.338	0.1003	
60 minute winter	S20	Hydro-Brake®	OUTFALL	5.0				72.9
60 minute winter	S21	S6.000	S22	13.9	1.056	0.762	0.4414	
60 minute winter	S22	S6.001	S16	24.4	1.746	0.769	0.2848	
60 minute winter	S23	S7.000	S24	3.8	0.550	0.636	0.1318	
60 minute winter	S24	S7.001	S25	7.2	0.914	1.185	0.1336	
60 minute winter	S25	S7.002	S26	10.7	0.607	0.605	0.3125	
60 minute winter	S26	S7.003	S19	14.5	1.030	0.816	0.0440	
60 minute winter	S27	S8.000	S25	4.5	0.824	0.752	0.1338	

Results for 100 year +40% CC 120 minute summer. 360 minute analysis at 2 minute timestep. Mass balance: 99.29%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
120 minute summer	S13	64	188.612	0.037	3.1	0.0099	0.0000	OK
120 minute summer	S14	64	188.091	0.036	3.1	0.0058	0.0000	OK
120 minute summer	S15	62	187.594	0.059	7.2	0.0257	0.0000	OK
120 minute summer	S16	96	187.459	0.417	31.2	0.2624	0.0000	FLOOD RISK
120 minute summer	S17	96	187.400	0.601	36.9	47.9979	10.9025	FLOOD
120 minute summer	S18	100	187.391	0.643	28.9	47.7539	0.0000	SURCHARGED
120 minute summer	S19	100	187.361	1.101	26.6	17.5459	0.0000	FLOOD RISK
120 minute summer	S20	100	187.356	1.110	8.5	1.2551	0.0000	FLOOD RISK
120 minute summer	OUTFALL	2	186.184	0.000	5.0	0.0000	0.0000	OK
120 minute summer	S21	72	188.189	0.089	19.1	15.7863	0.0000	OK
120 minute summer	S22	72	187.845	0.095	28.5	16.9903	0.0000	OK
120 minute summer	S23	100	187.350	0.500	3.6	0.3595	1.7043	FLOOD
120 minute summer	S24	100	187.356	0.674	6.5	0.3379	0.0000	FLOOD RISK
120 minute summer	S25	100	187.359	0.898	9.4	0.1427	0.0000	FLOOD RISK
120 minute summer	S26	100	187.361	1.076	12.2	0.4185	0.0000	FLOOD RISK
120 minute summer	S27	100	187.350	0.500	3.6	0.3595	1.8583	FLOOD
Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
120 minute summer	S13	S5.000	S14	3.1	1.194	0.279	0.0405	
120 minute summer	S14	S5.001	S15	3.1	0.846	0.279	0.0573	
120 minute summer	S15	S5.002	S16	7.2	1.420	0.648	0.0839	
120 minute summer	S16	S5.003	S17	30.8	1.752	0.946	0.1282	
120 minute summer	S17	S5.004	S18	15.2	0.865	1.736	0.3623	
120 minute summer	S18	S5.005	S19	-10.0	0.657	-1.139	0.7109	
120 minute summer	S19	S5.006	S20	8.5	0.481	0.966	0.1003	
120 minute summer	S20	Hydro-Brake®	OUTFALL	5.0				84.5
120 minute summer	S21	S6.000	S22	11.6	1.029	0.640	0.3775	
120 minute summer	S22	S6.001	S16	22.6	1.778	0.711	0.2643	
120 minute summer	S23	S7.000	S24	3.2	0.541	0.535	0.1318	
120 minute summer	S24	S7.001	S25	5.8	0.849	0.954	0.1336	
120 minute summer	S25	S7.002	S26	8.6	0.494	0.486	0.3125	
120 minute summer	S26	S7.003	S19	11.6	0.859	0.654	0.0440	
120 minute summer	S27	S8.000	S25	3.6	0.787	0.597	0.1338	

Results for 100 year +40% CC 120 minute winter. 360 minute analysis at 2 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
120 minute winter	S13	64	188.607	0.032	2.4	0.0086	0.0000	OK
120 minute winter	S14	64	188.087	0.032	2.4	0.0050	0.0000	OK
120 minute winter	S15	64	187.585	0.050	5.6	0.0219	0.0000	OK
120 minute winter	S16	86	187.550	0.508	29.7	0.3194	0.0000	FLOOD RISK
120 minute winter	S17	84	187.400	0.601	34.7	47.9979	26.4820	FLOOD
120 minute winter	S18	90	187.396	0.648	26.7	47.7575	0.0000	SURCHARGED
120 minute winter	S19	90	187.371	1.111	22.7	17.5610	0.0000	FLOOD RISK
120 minute winter	S20	90	187.365	1.119	7.2	1.2652	0.0000	FLOOD RISK
120 minute winter	OUTFALL	2	186.184	0.000	5.0	0.0000	0.0000	OK
120 minute winter	S21	74	188.187	0.087	14.7	15.4340	0.0000	OK
120 minute winter	S22	76	187.845	0.095	24.5	16.8751	0.0000	OK
120 minute winter	S23	88	187.350	0.500	2.8	0.3595	3.3441	FLOOD
120 minute winter	S24	90	187.364	0.682	5.4	0.3415	0.0000	FLOOD RISK
120 minute winter	S25	90	187.367	0.905	7.4	0.1440	0.0000	FLOOD RISK
120 minute winter	S26	90	187.370	1.085	9.3	0.4221	0.0000	FLOOD RISK
120 minute winter	S27	88	187.350	0.500	2.8	0.3595	3.4071	FLOOD

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
120 minute winter	S13	S5.000	S14	2.4	1.114	0.216	0.0336	
120 minute winter	S14	S5.001	S15	2.4	0.794	0.216	0.0474	
120 minute winter	S15	S5.002	S16	5.6	1.333	0.504	0.0783	
120 minute winter	S16	S5.003	S17	29.2	1.659	0.896	0.1282	
120 minute winter	S17	S5.004	S18	16.4	0.934	1.875	0.3623	
120 minute winter	S18	S5.005	S19	-9.4	0.634	-1.068	0.7109	
120 minute winter	S19	S5.006	S20	7.2	0.410	0.823	0.1003	
120 minute winter	S20	Hydro-Brake®	OUTFALL	5.0				85.9
120 minute winter	S21	S6.000	S22	11.3	1.015	0.620	0.3704	
120 minute winter	S22	S6.001	S16	21.9	1.792	0.689	0.2635	
120 minute winter	S23	S7.000	S24	2.7	0.542	0.445	0.1318	
120 minute winter	S24	S7.001	S25	4.9	0.826	0.815	0.1336	
120 minute winter	S25	S7.002	S26	6.7	0.522	0.380	0.3125	
120 minute winter	S26	S7.003	S19	8.9	0.872	0.500	0.0440	
120 minute winter	S27	S8.000	S25	2.7	0.730	0.446	0.1338	

Results for 100 year +40% CC 180 minute summer. 420 minute analysis at 4 minute timestep. Mass balance: 99.34%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
180 minute summer	S13	96	188.607	0.032	2.3	0.0084	0.0000	OK
180 minute summer	S14	96	188.086	0.031	2.3	0.0049	0.0000	OK
180 minute summer	S15	92	187.584	0.049	5.3	0.0214	0.0000	OK
180 minute summer	S16	128	187.461	0.419	26.4	0.2634	0.0000	FLOOD RISK
180 minute summer	S17	128	187.400	0.601	30.1	47.9979	14.8710	FLOOD
180 minute summer	S18	132	187.390	0.642	24.8	47.7531	0.0000	SURCHARGED
180 minute summer	S19	132	187.358	1.098	22.7	17.5408	0.0000	FLOOD RISK
180 minute summer	S20	132	187.352	1.106	5.5	1.2510	0.0000	FLOOD RISK
180 minute summer	OUTFALL	4	186.184	0.000	5.0	0.0000	0.0000	OK
180 minute summer	S21	104	188.180	0.080	14.0	14.3129	0.0000	OK
180 minute summer	S22	104	187.838	0.088	22.8	15.6680	0.0000	OK
180 minute summer	S23	132	187.350	0.500	2.7	0.3595	3.3105	FLOOD
180 minute summer	S24	132	187.355	0.673	5.4	0.3372	0.0000	FLOOD RISK
180 minute summer	S25	132	187.356	0.895	6.8	0.1423	0.0000	FLOOD RISK
180 minute summer	S26	132	187.358	1.073	8.9	0.4173	0.0000	FLOOD RISK
180 minute summer	S27	132	187.350	0.500	2.7	0.3595	3.5868	FLOOD
Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
180 minute summer	S13	S5.000	S14	2.3	1.102	0.207	0.0326	
180 minute summer	S14	S5.001	S15	2.3	0.790	0.207	0.0459	
180 minute summer	S15	S5.002	S16	5.3	1.302	0.477	0.0747	
180 minute summer	S16	S5.003	S17	26.2	1.489	0.804	0.1282	
180 minute summer	S17	S5.004	S18	14.5	0.823	1.651	0.3623	
180 minute summer	S18	S5.005	S19	8.6	0.643	0.982	0.7109	
180 minute summer	S19	S5.006	S20	5.5	0.314	0.629	0.1003	
180 minute summer	S20	Hydro-Brake®	OUTFALL	5.0				96.5
180 minute summer	S21	S6.000	S22	10.0	0.987	0.552	0.3390	
180 minute summer	S22	S6.001	S16	20.6	1.798	0.649	0.2534	
180 minute summer	S23	S7.000	S24	2.7	0.529	0.441	0.1318	
180 minute summer	S24	S7.001	S25	4.3	0.784	0.714	0.1336	
180 minute summer	S25	S7.002	S26	6.2	0.467	0.350	0.3125	
180 minute summer	S26	S7.003	S19	8.4	0.790	0.472	0.0440	
180 minute summer	S27	S8.000	S25	2.6	0.732	0.437	0.1338	

Results for 100 year +40% CC 180 minute winter. 420 minute analysis at 4 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
180 minute winter	S13	96	188.603	0.028	1.8	0.0074	0.0000	OK
180 minute winter	S14	96	188.082	0.027	1.8	0.0043	0.0000	OK
180 minute winter	S15	96	187.577	0.042	4.1	0.0183	0.0000	OK
180 minute winter	S16	120	187.525	0.483	24.8	0.3036	0.0000	FLOOD RISK
180 minute winter	S17	120	187.400	0.601	28.3	47.9979	32.1836	FLOOD
180 minute winter	S18	120	187.400	0.652	21.0	47.7601	0.0000	SURCHARGED
180 minute winter	S19	124	187.373	1.113	18.1	17.5656	0.0000	FLOOD RISK
180 minute winter	S20	124	187.367	1.121	8.3	1.2683	0.0000	FLOOD RISK
180 minute winter	OUTFALL	4	186.184	0.000	5.0	0.0000	0.0000	OK
180 minute winter	S21	108	188.176	0.076	10.8	13.5484	0.0000	OK
180 minute winter	S22	104	187.834	0.084	19.3	14.9213	0.0000	OK
180 minute winter	S23	120	187.350	0.500	2.7	0.3595	5.7329	FLOOD
180 minute winter	S24	120	187.372	0.690	4.0	0.3457	0.0000	FLOOD RISK
180 minute winter	S25	124	187.369	0.908	5.4	0.1443	0.0000	FLOOD RISK
180 minute winter	S26	124	187.373	1.088	7.2	0.4232	0.0000	FLOOD RISK
180 minute winter	S27	120	187.350	0.500	2.8	0.3595	5.8703	FLOOD

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
180 minute winter	S13	S5.000	S14	1.8	1.029	0.162	0.0273	
180 minute winter	S14	S5.001	S15	1.8	0.745	0.162	0.0379	
180 minute winter	S15	S5.002	S16	4.1	1.243	0.369	0.0722	
180 minute winter	S16	S5.003	S17	24.4	1.388	0.750	0.1282	
180 minute winter	S17	S5.004	S18	11.4	0.652	1.303	0.3623	
180 minute winter	S18	S5.005	S19	9.5	0.631	1.080	0.7109	
180 minute winter	S19	S5.006	S20	8.3	0.469	0.942	0.1003	
180 minute winter	S20	Hydro-Brake®	OUTFALL	5.0				98.5
180 minute winter	S21	S6.000	S22	9.2	0.968	0.505	0.3176	
180 minute winter	S22	S6.001	S16	19.1	1.780	0.600	0.2481	
180 minute winter	S23	S7.000	S24	2.0	0.506	0.329	0.1318	
180 minute winter	S24	S7.001	S25	3.6	0.753	0.592	0.1336	
180 minute winter	S25	S7.002	S26	5.2	0.479	0.292	0.3125	
180 minute winter	S26	S7.003	S19	7.0	0.791	0.392	0.0440	
180 minute winter	S27	S8.000	S25	2.0	0.664	0.330	0.1338	

Results for 100 year +40% CC 240 minute summer. 480 minute analysis at 4 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
240 minute summer	S13	124	188.604	0.029	1.9	0.0076	0.0000	OK
240 minute summer	S14	124	188.083	0.028	1.9	0.0044	0.0000	OK
240 minute summer	S15	124	187.579	0.044	4.4	0.0190	0.0000	OK
240 minute summer	S16	160	187.457	0.415	22.4	0.2611	0.0000	FLOOD RISK
240 minute summer	S17	160	187.400	0.601	26.4	47.9979	14.9137	FLOOD
240 minute summer	S18	160	187.394	0.646	21.3	47.7559	0.0000	SURCHARGED
240 minute summer	S19	160	187.366	1.106	19.7	17.5532	0.0000	FLOOD RISK
240 minute summer	S20	160	187.360	1.114	5.4	1.2597	0.0000	FLOOD RISK
240 minute summer	OUTFALL	4	186.184	0.000	5.0	0.0000	0.0000	OK
240 minute summer	S21	136	188.174	0.074	11.7	13.1480	0.0000	OK
240 minute summer	S22	136	187.832	0.082	19.2	14.6887	0.0000	OK
240 minute summer	S23	160	187.350	0.500	2.2	0.3595	4.4231	FLOOD
240 minute summer	S24	164	187.355	0.673	4.2	0.3373	0.0000	FLOOD RISK
240 minute summer	S25	160	187.360	0.899	5.6	0.1429	0.0000	FLOOD RISK
240 minute summer	S26	160	187.365	1.080	7.4	0.4202	0.0000	FLOOD RISK
240 minute summer	S27	160	187.350	0.500	2.2	0.3595	4.8434	FLOOD
Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
240 minute summer	S13	S5.000	S14	1.9	1.045	0.171	0.0283	
240 minute summer	S14	S5.001	S15	1.9	0.748	0.170	0.0396	
240 minute summer	S15	S5.002	S16	4.4	1.280	0.394	0.0713	
240 minute summer	S16	S5.003	S17	22.2	1.271	0.681	0.1282	
240 minute summer	S17	S5.004	S18	11.0	0.626	1.254	0.3623	
240 minute summer	S18	S5.005	S19	8.9	0.647	1.013	0.7109	
240 minute summer	S19	S5.006	S20	5.4	0.308	0.618	0.1003	
240 minute summer	S20	Hydro-Brake®	OUTFALL	5.0				108.6
240 minute summer	S21	S6.000	S22	8.8	0.950	0.483	0.3092	
240 minute summer	S22	S6.001	S16	17.8	1.772	0.560	0.2283	
240 minute summer	S23	S7.000	S24	2.1	0.506	0.344	0.1318	
240 minute summer	S24	S7.001	S25	3.7	0.753	0.612	0.1336	
240 minute summer	S25	S7.002	S26	5.3	0.459	0.301	0.3125	
240 minute summer	S26	S7.003	S19	7.2	0.747	0.405	0.0440	
240 minute summer	S27	S8.000	S25	2.1	0.661	0.351	0.1338	

Results for 100 year +40% CC 240 minute winter. 480 minute analysis at 4 minute timestep. Mass balance: 99.48%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
240 minute winter	S13	124	188.599	0.024	1.4	0.0065	0.0000	OK
240 minute winter	S14	124	188.079	0.024	1.4	0.0038	0.0000	OK
240 minute winter	S15	120	187.573	0.038	3.3	0.0164	0.0000	OK
240 minute winter	S16	152	187.504	0.462	20.5	0.2908	0.0000	FLOOD RISK
240 minute winter	S17	152	187.400	0.601	23.2	47.9979	33.0814	FLOOD
240 minute winter	S18	156	187.398	0.650	17.1	47.7585	0.0000	SURCHARGED
240 minute winter	S19	156	187.373	1.113	16.8	17.5655	0.0000	FLOOD RISK
240 minute winter	S20	156	187.367	1.121	5.7	1.2682	0.0000	FLOOD RISK
240 minute winter	OUTFALL	4	186.184	0.000	5.0	0.0000	0.0000	OK
240 minute winter	S21	136	188.169	0.069	8.7	12.2141	0.0000	OK
240 minute winter	S22	136	187.827	0.077	16.0	13.6711	0.0000	OK
240 minute winter	S23	152	187.350	0.500	2.7	0.3595	7.1314	FLOOD
240 minute winter	S24	156	187.366	0.684	3.0	0.3426	0.0000	FLOOD RISK
240 minute winter	S25	156	187.369	0.908	4.3	0.1443	0.0000	FLOOD RISK
240 minute winter	S26	156	187.373	1.088	5.8	0.4232	0.0000	FLOOD RISK
240 minute winter	S27	152	187.350	0.500	2.8	0.3595	7.3173	FLOOD

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
240 minute winter	S13	S5.000	S14	1.4	0.959	0.126	0.0228	
240 minute winter	S14	S5.001	S15	1.4	0.686	0.126	0.0324	
240 minute winter	S15	S5.002	S16	3.3	1.190	0.297	0.0691	
240 minute winter	S16	S5.003	S17	20.2	1.150	0.621	0.1282	
240 minute winter	S17	S5.004	S18	10.8	0.619	1.227	0.3623	
240 minute winter	S18	S5.005	S19	8.8	0.646	1.008	0.7109	
240 minute winter	S19	S5.006	S20	5.7	0.326	0.654	0.1003	
240 minute winter	S20	Hydro-Brake®	OUTFALL	5.0				111.0
240 minute winter	S21	S6.000	S22	7.8	0.923	0.426	0.2819	
240 minute winter	S22	S6.001	S16	16.2	1.724	0.508	0.2354	
240 minute winter	S23	S7.000	S24	-1.7	0.475	-0.284	0.1318	
240 minute winter	S24	S7.001	S25	2.9	0.714	0.480	0.1336	
240 minute winter	S25	S7.002	S26	4.2	0.460	0.238	0.3125	
240 minute winter	S26	S7.003	S19	5.7	0.725	0.318	0.0440	
240 minute winter	S27	S8.000	S25	-1.8	0.620	-0.305	0.1338	

Results for 100 year +40% CC 360 minute summer. 600 minute analysis at 8 minute timestep. Mass balance: 99.44%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
360 minute summer	S13	184	188.599	0.024	1.4	0.0065	0.0000	OK
360 minute summer	S14	184	188.079	0.024	1.4	0.0038	0.0000	OK
360 minute summer	S15	184	187.573	0.038	3.3	0.0166	0.0000	OK
360 minute summer	S16	224	187.450	0.408	17.9	0.2568	0.0000	FLOOD RISK
360 minute summer	S17	224	187.400	0.601	20.9	47.9979	13.8168	FLOOD
360 minute summer	S18	232	187.390	0.642	15.8	47.7535	0.0000	SURCHARGED
360 minute summer	S19	232	187.358	1.098	14.0	17.5412	0.0000	FLOOD RISK
360 minute summer	S20	232	187.352	1.106	6.1	1.2513	0.0000	FLOOD RISK
360 minute summer	OUTFALL	8	186.184	0.000	5.0	0.0000	0.0000	OK
360 minute summer	S21	192	188.165	0.065	8.7	11.4975	0.0000	OK
360 minute summer	S22	200	187.822	0.072	14.9	12.8160	0.0000	OK
360 minute summer	S23	232	187.350	0.500	1.7	0.3595	4.2400	FLOOD
360 minute summer	S24	232	187.355	0.673	3.1	0.3373	0.0000	FLOOD RISK
360 minute summer	S25	232	187.356	0.895	4.4	0.1424	0.0000	FLOOD RISK
360 minute summer	S26	232	187.358	1.073	5.9	0.4174	0.0000	FLOOD RISK
360 minute summer	S27	232	187.350	0.500	1.7	0.3595	4.4433	FLOOD
Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
360 minute summer	S13	S5.000	S14	1.4	0.959	0.126	0.0227	
360 minute summer	S14	S5.001	S15	1.4	0.668	0.125	0.0327	
360 minute summer	S15	S5.002	S16	3.3	1.207	0.294	0.0659	
360 minute summer	S16	S5.003	S17	17.8	1.081	0.545	0.1282	
360 minute summer	S17	S5.004	S18	10.2	0.594	1.160	0.3623	
360 minute summer	S18	S5.005	S19	7.4	0.620	0.847	0.7109	
360 minute summer	S19	S5.006	S20	6.1	0.344	0.690	0.1003	
360 minute summer	S20	Hydro-Brake®	OUTFALL	5.0				132.7
360 minute summer	S21	S6.000	S22	7.0	0.898	0.383	0.2592	
360 minute summer	S22	S6.001	S16	13.7	1.689	0.431	0.2149	
360 minute summer	S23	S7.000	S24	1.4	0.456	0.240	0.1318	
360 minute summer	S24	S7.001	S25	2.9	0.680	0.481	0.1336	
360 minute summer	S25	S7.002	S26	4.2	0.422	0.236	0.3125	
360 minute summer	S26	S7.003	S19	5.7	0.614	0.320	0.0440	
360 minute summer	S27	S8.000	S25	1.5	0.594	0.246	0.1338	

Results for 100 year +40% CC 360 minute winter. 600 minute analysis at 8 minute timestep. Mass balance: 99.49%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
360 minute winter	S13	184	188.596	0.021	1.0	0.0055	0.0000	OK
360 minute winter	S14	184	188.075	0.020	1.0	0.0032	0.0000	OK
360 minute winter	S15	184	187.567	0.032	2.4	0.0141	0.0000	OK
360 minute winter	S16	224	187.456	0.414	15.4	0.2606	0.0000	FLOOD RISK
360 minute winter	S17	224	187.400	0.601	17.5	47.9979	26.7743	FLOOD
360 minute winter	S18	224	187.396	0.648	11.8	47.7572	0.0000	SURCHARGED
360 minute winter	S19	224	187.368	1.108	13.9	17.5573	0.0000	FLOOD RISK
360 minute winter	S20	224	187.362	1.116	5.3	1.2625	0.0000	FLOOD RISK
360 minute winter	OUTFALL	8	186.184	0.000	5.0	0.0000	0.0000	OK
360 minute winter	S21	200	188.159	0.059	6.4	10.4589	0.0000	OK
360 minute winter	S22	200	187.816	0.066	12.1	11.6941	0.0000	OK
360 minute winter	S23	224	187.350	0.500	2.3	0.3595	7.8319	FLOOD
360 minute winter	S24	224	187.362	0.680	2.3	0.3406	0.0000	FLOOD RISK
360 minute winter	S25	224	187.364	0.903	3.3	0.1436	0.0000	FLOOD RISK
360 minute winter	S26	224	187.368	1.083	4.4	0.4212	0.0000	FLOOD RISK
360 minute winter	S27	224	187.350	0.500	2.4	0.3595	8.3085	FLOOD

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
360 minute winter	S13	S5.000	S14	1.0	0.871	0.090	0.0179	
360 minute winter	S14	S5.001	S15	1.0	0.631	0.090	0.0260	
360 minute winter	S15	S5.002	S16	2.4	1.108	0.216	0.0654	
360 minute winter	S16	S5.003	S17	15.3	1.009	0.469	0.1282	
360 minute winter	S17	S5.004	S18	9.3	0.576	1.058	0.3623	
360 minute winter	S18	S5.005	S19	8.3	0.639	0.946	0.7109	
360 minute winter	S19	S5.006	S20	5.3	0.299	0.599	0.1003	
360 minute winter	S20	Hydro-Brake®	OUTFALL	5.0				136.0
360 minute winter	S21	S6.000	S22	5.9	0.857	0.325	0.2300	
360 minute winter	S22	S6.001	S16	12.2	1.625	0.385	0.2164	
360 minute winter	S23	S7.000	S24	-1.5	0.434	-0.245	0.1318	
360 minute winter	S24	S7.001	S25	2.2	0.642	0.363	0.1336	
360 minute winter	S25	S7.002	S26	3.2	0.422	0.180	0.3125	
360 minute winter	S26	S7.003	S19	4.3	0.613	0.241	0.0440	
360 minute winter	S27	S8.000	S25	-1.6	0.565	-0.268	0.1338	

Results for 100 year +40% CC 480 minute summer. 720 minute analysis at 8 minute timestep. Mass balance: 99.49%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
480 minute summer	S13	248	188.597	0.022	1.1	0.0057	0.0000	OK
480 minute summer	S14	248	188.076	0.021	1.1	0.0034	0.0000	OK
480 minute summer	S15	248	187.569	0.034	2.6	0.0147	0.0000	OK
480 minute summer	S16	296	187.429	0.387	15.2	0.2435	0.0000	FLOOD RISK
480 minute summer	S17	296	187.400	0.601	17.7	47.9979	10.9426	FLOOD
480 minute summer	S18	296	187.392	0.644	12.0	47.7547	0.0000	SURCHARGED
480 minute summer	S19	296	187.364	1.103	12.9	17.5496	0.0000	FLOOD RISK
480 minute summer	S20	296	187.358	1.112	5.2	1.2574	0.0000	FLOOD RISK
480 minute summer	OUTFALL	8	186.184	0.000	5.0	0.0000	0.0000	OK
480 minute summer	S21	256	188.159	0.059	6.8	10.4835	0.0000	OK
480 minute summer	S22	256	187.815	0.065	12.5	11.6493	0.0000	OK
480 minute summer	S23	296	187.350	0.500	1.4	0.3595	4.3141	FLOOD
480 minute summer	S24	296	187.358	0.676	2.5	0.3385	0.0000	FLOOD RISK
480 minute summer	S25	296	187.361	0.900	3.6	0.1430	0.0000	FLOOD RISK
480 minute summer	S26	296	187.363	1.078	4.7	0.4194	0.0000	FLOOD RISK
480 minute summer	S27	296	187.350	0.500	1.7	0.3595	4.6197	FLOOD
Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
480 minute summer	S13	S5.000	S14	1.1	0.895	0.099	0.0192	
480 minute summer	S14	S5.001	S15	1.1	0.633	0.099	0.0276	
480 minute summer	S15	S5.002	S16	2.6	1.135	0.234	0.0627	
480 minute summer	S16	S5.003	S17	15.1	0.975	0.463	0.1282	
480 minute summer	S17	S5.004	S18	9.3	0.562	1.060	0.3623	
480 minute summer	S18	S5.005	S19	7.4	0.623	0.840	0.7109	
480 minute summer	S19	S5.006	S20	5.2	0.298	0.597	0.1003	
480 minute summer	S20	Hydro-Brake®	OUTFALL	5.0				156.0
480 minute summer	S21	S6.000	S22	5.9	0.860	0.326	0.2297	
480 minute summer	S22	S6.001	S16	11.6	1.623	0.366	0.2054	
480 minute summer	S23	S7.000	S24	1.2	0.434	0.196	0.1318	
480 minute summer	S24	S7.001	S25	2.4	0.619	0.392	0.1336	
480 minute summer	S25	S7.002	S26	3.4	0.422	0.194	0.3125	
480 minute summer	S26	S7.003	S19	4.6	0.650	0.260	0.0440	
480 minute summer	S27	S8.000	S25	-1.2	0.564	-0.204	0.1338	

Results for 100 year +40% CC 480 minute winter. 720 minute analysis at 8 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
480 minute winter	S13	232	188.593	0.018	0.8	0.0049	0.0000	OK
480 minute winter	S14	232	188.073	0.018	0.8	0.0029	0.0000	OK
480 minute winter	S15	240	187.564	0.029	1.9	0.0124	0.0000	OK
480 minute winter	S16	288	187.441	0.399	12.4	0.2509	0.0000	FLOOD RISK
480 minute winter	S17	288	187.400	0.601	14.3	47.9979	25.1677	FLOOD
480 minute winter	S18	296	187.393	0.645	10.3	47.7555	0.0000	SURCHARGED
480 minute winter	S19	296	187.364	1.104	12.1	17.5498	0.0000	FLOOD RISK
480 minute winter	S20	296	187.358	1.112	5.4	1.2572	0.0000	FLOOD RISK
480 minute winter	OUTFALL	8	186.184	0.000	5.0	0.0000	0.0000	OK
480 minute winter	S21	264	188.152	0.052	5.0	9.3300	0.0000	OK
480 minute winter	S22	264	187.808	0.058	9.7	10.3954	0.0000	OK
480 minute winter	S23	288	187.350	0.500	2.0	0.3595	8.0541	FLOOD
480 minute winter	S24	288	187.362	0.680	1.9	0.3408	0.0000	FLOOD RISK
480 minute winter	S25	296	187.361	0.900	2.7	0.1430	0.0000	FLOOD RISK
480 minute winter	S26	296	187.363	1.078	3.7	0.4195	0.0000	FLOOD RISK
480 minute winter	S27	288	187.350	0.500	2.1	0.3595	7.8445	FLOOD

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
480 minute winter	S13	S5.000	S14	0.8	0.816	0.072	0.0153	
480 minute winter	S14	S5.001	S15	0.8	0.597	0.072	0.0220	
480 minute winter	S15	S5.002	S16	1.9	1.042	0.171	0.0631	
480 minute winter	S16	S5.003	S17	12.3	0.951	0.377	0.1282	
480 minute winter	S17	S5.004	S18	8.3	0.545	0.946	0.3623	
480 minute winter	S18	S5.005	S19	7.7	0.629	0.875	0.7109	
480 minute winter	S19	S5.006	S20	5.4	0.307	0.617	0.1003	
480 minute winter	S20	Hydro-Brake®	OUTFALL	5.0				162.0
480 minute winter	S21	S6.000	S22	4.8	0.812	0.263	0.1968	
480 minute winter	S22	S6.001	S16	9.5	1.542	0.300	0.2098	
480 minute winter	S23	S7.000	S24	-1.3	0.408	-0.212	0.1318	
480 minute winter	S24	S7.001	S25	1.8	0.619	0.303	0.1336	
480 minute winter	S25	S7.002	S26	2.7	0.422	0.151	0.3125	
480 minute winter	S26	S7.003	S19	3.6	0.541	0.201	0.0440	
480 minute winter	S27	S8.000	S25	-1.4	0.530	-0.231	0.1338	

Results for 100 year +40% CC 600 minute summer. 840 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
600 minute summer	S13	315	188.595	0.020	0.9	0.0052	0.0000	OK
600 minute summer	S14	315	188.074	0.019	0.9	0.0031	0.0000	OK
600 minute summer	S15	315	187.565	0.030	2.1	0.0131	0.0000	OK
600 minute summer	S16	375	187.418	0.376	12.9	0.2365	0.0000	FLOOD RISK
600 minute summer	S17	375	187.400	0.601	15.1	47.9979	7.7243	FLOOD
600 minute summer	S18	375	187.391	0.643	9.9	47.7536	0.0000	SURCHARGED
600 minute summer	S19	375	187.361	1.101	11.9	17.5451	0.0000	FLOOD RISK
600 minute summer	S20	375	187.355	1.109	5.2	1.2546	0.0000	FLOOD RISK
600 minute summer	OUTFALL	15	186.184	0.000	5.0	0.0000	0.0000	OK
600 minute summer	S21	315	188.153	0.053	5.5	9.5062	0.0000	OK
600 minute summer	S22	330	187.809	0.059	10.4	10.5534	0.0000	OK
600 minute summer	S23	375	187.350	0.500	1.2	0.3595	3.6396	FLOOD
600 minute summer	S24	375	187.356	0.674	1.9	0.3376	0.0000	FLOOD RISK
600 minute summer	S25	375	187.358	0.897	2.7	0.1426	0.0000	FLOOD RISK
600 minute summer	S26	375	187.360	1.075	3.6	0.4183	0.0000	FLOOD RISK
600 minute summer	S27	375	187.350	0.500	1.5	0.3595	3.9551	FLOOD
Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
600 minute summer	S13	S5.000	S14	0.9	0.845	0.081	0.0166	
600 minute summer	S14	S5.001	S15	0.9	0.598	0.081	0.0237	
600 minute summer	S15	S5.002	S16	2.1	1.071	0.189	0.0617	
600 minute summer	S16	S5.003	S17	12.9	0.880	0.395	0.1282	
600 minute summer	S17	S5.004	S18	7.9	0.547	0.900	0.3623	
600 minute summer	S18	S5.005	S19	7.4	0.623	0.843	0.7109	
600 minute summer	S19	S5.006	S20	5.2	0.296	0.593	0.1003	
600 minute summer	S20	Hydro-Brake®	OUTFALL	5.0				177.9
600 minute summer	S21	S6.000	S22	4.9	0.822	0.272	0.2008	
600 minute summer	S22	S6.001	S16	9.8	1.553	0.308	0.1979	
600 minute summer	S23	S7.000	S24	0.9	0.408	0.151	0.1318	
600 minute summer	S24	S7.001	S25	1.8	0.618	0.302	0.1336	
600 minute summer	S25	S7.002	S26	2.6	0.342	0.150	0.3125	
600 minute summer	S26	S7.003	S19	3.6	0.489	0.200	0.0440	
600 minute summer	S27	S8.000	S25	-1.1	0.531	-0.181	0.1338	

Results for 100 year +40% CC 600 minute winter. 840 minute analysis at 15 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
600 minute winter	S13	315	188.592	0.017	0.7	0.0046	0.0000	OK
600 minute winter	S14	315	188.072	0.017	0.7	0.0027	0.0000	OK
600 minute winter	S15	315	187.561	0.026	1.6	0.0114	0.0000	OK
600 minute winter	S16	375	187.424	0.382	10.5	0.2402	0.0000	FLOOD RISK
600 minute winter	S17	375	187.400	0.601	12.2	47.9979	16.6449	FLOOD
600 minute winter	S18	375	187.391	0.643	9.5	47.7540	0.0000	SURCHARGED
600 minute winter	S19	375	187.360	1.100	10.0	17.5435	0.0000	FLOOD RISK
600 minute winter	S20	375	187.354	1.108	5.2	1.2529	0.0000	FLOOD RISK
600 minute winter	OUTFALL	15	186.184	0.000	5.0	0.0000	0.0000	OK
600 minute winter	S21	330	188.148	0.048	4.2	8.5658	0.0000	OK
600 minute winter	S22	330	187.803	0.053	8.2	9.5037	0.0000	OK
600 minute winter	S23	375	187.350	0.500	1.5	0.3595	6.7737	FLOOD
600 minute winter	S24	375	187.356	0.674	1.5	0.3376	0.0000	FLOOD RISK
600 minute winter	S25	375	187.358	0.896	2.2	0.1425	0.0000	FLOOD RISK
600 minute winter	S26	375	187.360	1.074	2.9	0.4180	0.0000	FLOOD RISK
600 minute winter	S27	375	187.350	0.500	1.7	0.3595	7.0857	FLOOD

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
600 minute winter	S13	S5.000	S14	0.7	0.784	0.063	0.0139	
600 minute winter	S14	S5.001	S15	0.7	0.563	0.063	0.0196	
600 minute winter	S15	S5.002	S16	1.6	0.993	0.144	0.0617	
600 minute winter	S16	S5.003	S17	10.5	0.914	0.321	0.1282	
600 minute winter	S17	S5.004	S18	7.8	0.523	0.884	0.3623	
600 minute winter	S18	S5.005	S19	6.7	0.609	0.762	0.7109	
600 minute winter	S19	S5.006	S20	5.2	0.293	0.587	0.1003	
600 minute winter	S20	Hydro-Brake®	OUTFALL	5.0				184.1
600 minute winter	S21	S6.000	S22	4.1	0.776	0.223	0.1747	
600 minute winter	S22	S6.001	S16	8.1	1.478	0.255	0.2007	
600 minute winter	S23	S7.000	S24	-1.0	0.377	-0.173	0.1318	
600 minute winter	S24	S7.001	S25	1.5	0.567	0.244	0.1336	
600 minute winter	S25	S7.002	S26	2.1	0.414	0.121	0.3125	
600 minute winter	S26	S7.003	S19	2.9	0.576	0.162	0.0440	
600 minute winter	S27	S8.000	S25	-1.2	0.489	-0.194	0.1338	

Results for 100 year +40% CC 720 minute summer. 960 minute analysis at 15 minute timestep. Mass balance: 99.59%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
720 minute summer	S13	375	188.593	0.018	0.8	0.0049	0.0000	OK
720 minute summer	S14	375	188.073	0.018	0.8	0.0029	0.0000	OK
720 minute summer	S15	375	187.563	0.028	1.8	0.0121	0.0000	OK
720 minute summer	S16	465	187.408	0.366	11.4	0.2303	0.0000	FLOOD RISK
720 minute summer	S17	465	187.400	0.601	13.4	47.9979	1.7403	FLOOD
720 minute summer	S18	465	187.387	0.639	9.6	47.7510	0.0000	SURCHARGED
720 minute summer	S19	465	187.354	1.094	11.8	17.5337	0.0000	FLOOD RISK
720 minute summer	S20	465	187.348	1.102	5.2	1.2460	0.0000	FLOOD RISK
720 minute summer	OUTFALL	15	186.184	0.000	5.0	0.0000	0.0000	OK
720 minute summer	S21	375	188.150	0.050	4.8	8.8919	0.0000	OK
720 minute summer	S22	390	187.805	0.055	9.2	9.8699	0.0000	OK
720 minute summer	S23	465	187.350	0.500	0.9	0.3595	2.2196	FLOOD
720 minute summer	S24	465	187.352	0.670	1.7	0.3358	0.0000	FLOOD RISK
720 minute summer	S25	465	187.353	0.892	2.5	0.1418	0.0000	FLOOD RISK
720 minute summer	S26	465	187.354	1.069	3.3	0.4157	0.0000	FLOOD RISK
720 minute summer	S27	465	187.350	0.500	1.0	0.3595	2.2885	FLOOD
Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
720 minute summer	S13	S5.000	S14	0.8	0.816	0.072	0.0153	
720 minute summer	S14	S5.001	S15	0.8	0.588	0.072	0.0214	
720 minute summer	S15	S5.002	S16	1.8	1.027	0.162	0.0597	
720 minute summer	S16	S5.003	S17	11.4	0.865	0.350	0.1282	
720 minute summer	S17	S5.004	S18	7.7	0.537	0.883	0.3623	
720 minute summer	S18	S5.005	S19	7.5	0.625	0.854	0.7109	
720 minute summer	S19	S5.006	S20	5.2	0.295	0.592	0.1003	
720 minute summer	S20	Hydro-Brake®	OUTFALL	5.0				201.8
720 minute summer	S21	S6.000	S22	4.4	0.795	0.240	0.1837	
720 minute summer	S22	S6.001	S16	8.7	1.505	0.273	0.1926	
720 minute summer	S23	S7.000	S24	0.8	0.408	0.136	0.1318	
720 minute summer	S24	S7.001	S25	1.6	0.564	0.273	0.1336	
720 minute summer	S25	S7.002	S26	2.4	0.342	0.136	0.3125	
720 minute summer	S26	S7.003	S19	3.2	0.489	0.181	0.0440	
720 minute summer	S27	S8.000	S25	0.8	0.530	0.136	0.1338	

Results for 100 year +40% CC 720 minute winter. 960 minute analysis at 15 minute timestep. Mass balance: 99.62%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
720 minute winter	S13	360	188.591	0.016	0.6	0.0043	0.0000	OK
720 minute winter	S14	360	188.071	0.016	0.6	0.0025	0.0000	OK
720 minute winter	S15	360	187.560	0.024	1.4	0.0106	0.0000	OK
720 minute winter	S16	450	187.416	0.374	9.1	0.2355	0.0000	FLOOD RISK
720 minute winter	S17	450	187.400	0.601	10.5	47.9979	11.7304	FLOOD
720 minute winter	S18	450	187.390	0.642	8.2	47.7532	0.0000	SURCHARGED
720 minute winter	S19	450	187.358	1.098	10.2	17.5409	0.0000	FLOOD RISK
720 minute winter	S20	450	187.352	1.106	5.1	1.2510	0.0000	FLOOD RISK
720 minute winter	OUTFALL	15	186.184	0.000	5.0	0.0000	0.0000	OK
720 minute winter	S21	390	188.145	0.045	3.6	7.9469	0.0000	OK
720 minute winter	S22	390	187.799	0.049	7.1	8.7896	0.0000	OK
720 minute winter	S23	450	187.350	0.500	1.5	0.3595	6.3951	FLOOD
720 minute winter	S24	450	187.355	0.673	1.3	0.3372	0.0000	FLOOD RISK
720 minute winter	S25	450	187.356	0.895	1.9	0.1423	0.0000	FLOOD RISK
720 minute winter	S26	450	187.358	1.073	2.6	0.4174	0.0000	FLOOD RISK
720 minute winter	S27	450	187.350	0.500	1.6	0.3595	6.6783	FLOOD

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
720 minute winter	S13	S5.000	S14	0.6	0.750	0.054	0.0125	
720 minute winter	S14	S5.001	S15	0.6	0.534	0.054	0.0177	
720 minute winter	S15	S5.002	S16	1.4	0.957	0.126	0.0607	
720 minute winter	S16	S5.003	S17	9.1	0.929	0.278	0.1282	
720 minute winter	S17	S5.004	S18	6.8	0.512	0.775	0.3623	
720 minute winter	S18	S5.005	S19	7.0	0.615	0.793	0.7109	
720 minute winter	S19	S5.006	S20	5.1	0.295	0.586	0.1003	
720 minute winter	S20	Hydro-Brake®	OUTFALL	5.0				209.0
720 minute winter	S21	S6.000	S22	3.5	0.747	0.193	0.1571	
720 minute winter	S22	S6.001	S16	7.0	1.421	0.221	0.1954	
720 minute winter	S23	S7.000	S24	-1.0	0.377	-0.161	0.1318	
720 minute winter	S24	S7.001	S25	1.3	0.564	0.214	0.1336	
720 minute winter	S25	S7.002	S26	1.9	0.342	0.107	0.3125	
720 minute winter	S26	S7.003	S19	2.5	0.609	0.143	0.0440	
720 minute winter	S27	S8.000	S25	-1.1	0.489	-0.177	0.1338	

Results for 100 year +40% CC 960 minute summer. 1200 minute analysis at 15 minute timestep. Mass balance: 99.78%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
960 minute summer	S13	480	188.591	0.016	0.6	0.0043	0.0000	OK
960 minute summer	S14	480	188.071	0.016	0.6	0.0025	0.0000	OK
960 minute summer	S15	495	187.560	0.024	1.4	0.0106	0.0000	OK
960 minute summer	S16	645	187.381	0.339	9.3	0.2130	0.0000	FLOOD RISK
960 minute summer	S17	645	187.378	0.579	10.9	47.9721	0.0000	FLOOD RISK
960 minute summer	S18	645	187.369	0.621	8.9	47.7386	0.0000	SURCHARGED
960 minute summer	S19	645	187.350	1.090	9.6	17.5273	0.0000	FLOOD RISK
960 minute summer	S20	645	187.344	1.098	5.1	1.2415	0.0000	FLOOD RISK
960 minute summer	OUTFALL	15	186.184	0.000	5.0	0.0000	0.0000	OK
960 minute summer	S21	510	188.146	0.045	3.9	8.0974	0.0000	OK
960 minute summer	S22	510	187.800	0.050	7.5	8.9576	0.0000	OK
960 minute summer	S23	645	187.350	0.500	0.7	0.3595	0.0596	FLOOD
960 minute summer	S24	645	187.350	0.668	1.3	0.3348	0.0000	FLOOD RISK
960 minute summer	S25	645	187.350	0.889	1.9	0.1413	0.0000	FLOOD RISK
960 minute summer	S26	645	187.350	1.065	2.6	0.4142	0.0000	FLOOD RISK
960 minute summer	S27	645	187.350	0.500	0.7	0.3595	0.0302	FLOOD
Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
960 minute summer	S13	S5.000	S14	0.6	0.750	0.054	0.0125	
960 minute summer	S14	S5.001	S15	0.6	0.551	0.054	0.0177	
960 minute summer	S15	S5.002	S16	1.4	0.957	0.126	0.0580	
960 minute summer	S16	S5.003	S17	9.3	0.907	0.287	0.1282	
960 minute summer	S17	S5.004	S18	7.3	0.518	0.831	0.3623	
960 minute summer	S18	S5.005	S19	6.3	0.601	0.722	0.7109	
960 minute summer	S19	S5.006	S20	5.1	0.292	0.586	0.1003	
960 minute summer	S20	Hydro-Brake®	OUTFALL	5.0				248.7
960 minute summer	S21	S6.000	S22	3.6	0.755	0.200	0.1613	
960 minute summer	S22	S6.001	S16	7.3	1.435	0.229	0.1809	
960 minute summer	S23	S7.000	S24	0.6	0.377	0.107	0.1318	
960 minute summer	S24	S7.001	S25	1.3	0.564	0.213	0.1336	
960 minute summer	S25	S7.002	S26	1.9	0.342	0.106	0.3125	
960 minute summer	S26	S7.003	S19	2.5	0.546	0.142	0.0440	
960 minute summer	S27	S8.000	S25	0.7	0.489	0.115	0.1338	

Results for 100 year +40% CC 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	S13	480	188.590	0.015	0.5	0.0039	0.0000	OK
960 minute winter	S14	480	188.070	0.015	0.5	0.0023	0.0000	OK
960 minute winter	S15	480	187.557	0.022	1.1	0.0094	0.0000	OK
960 minute winter	S16	615	187.409	0.367	7.4	0.2307	0.0000	FLOOD RISK
960 minute winter	S17	615	187.400	0.601	8.6	47.9979	3.4643	FLOOD
960 minute winter	S18	615	187.388	0.640	7.6	47.7515	0.0000	SURCHARGED
960 minute winter	S19	615	187.354	1.094	9.0	17.5347	0.0000	FLOOD RISK
960 minute winter	S20	615	187.348	1.102	5.1	1.2467	0.0000	FLOOD RISK
960 minute winter	OUTFALL	15	186.184	0.000	5.0	0.0000	0.0000	OK
960 minute winter	S21	510	188.140	0.040	2.9	7.1133	0.0000	OK
960 minute winter	S22	510	187.794	0.044	5.7	7.8298	0.0000	OK
960 minute winter	S23	615	187.350	0.500	1.0	0.3595	3.8997	FLOOD
960 minute winter	S24	615	187.353	0.670	1.2	0.3359	0.0000	FLOOD RISK
960 minute winter	S25	615	187.353	0.892	1.7	0.1419	0.0000	FLOOD RISK
960 minute winter	S26	615	187.354	1.069	2.2	0.4159	0.0000	FLOOD RISK
960 minute winter	S27	615	187.350	0.500	1.1	0.3595	4.0831	FLOOD

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
960 minute winter	S13	S5.000	S14	0.5	0.711	0.045	0.0110	
960 minute winter	S14	S5.001	S15	0.5	0.520	0.045	0.0151	
960 minute winter	S15	S5.002	S16	1.1	0.893	0.099	0.0591	
960 minute winter	S16	S5.003	S17	7.4	0.915	0.226	0.1282	
960 minute winter	S17	S5.004	S18	6.4	0.495	0.727	0.3623	
960 minute winter	S18	S5.005	S19	6.2	0.598	0.709	0.7109	
960 minute winter	S19	S5.006	S20	5.1	0.291	0.584	0.1003	
960 minute winter	S20	Hydro-Brake®	OUTFALL	5.0				257.2
960 minute winter	S21	S6.000	S22	2.8	0.704	0.156	0.1342	
960 minute winter	S22	S6.001	S16	5.7	1.340	0.178	0.1875	
960 minute winter	S23	S7.000	S24	-0.7	0.357	-0.113	0.1318	
960 minute winter	S24	S7.001	S25	1.1	0.532	0.185	0.1336	
960 minute winter	S25	S7.002	S26	1.6	0.342	0.092	0.3125	
960 minute winter	S26	S7.003	S19	2.2	0.575	0.123	0.0440	
960 minute winter	S27	S8.000	S25	-0.8	0.463	-0.128	0.1338	

Results for 100 year +40% CC 1440 minute summer. 1680 minute analysis at 30 minute timestep. Mass balance: 99.99%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
1440 minute summer	S13	750	188.590	0.015	0.5	0.0039	0.0000	OK
1440 minute summer	S14	750	188.070	0.015	0.5	0.0023	0.0000	OK
1440 minute summer	S15	750	187.557	0.022	1.1	0.0094	0.0000	OK
1440 minute summer	S16	930	187.143	0.101	7.1	0.0633	0.0000	OK
1440 minute summer	S17	930	187.141	0.342	8.2	36.3305	0.0000	FLOOD RISK
1440 minute summer	S18	930	187.135	0.387	7.7	40.9072	0.0000	SURCHARGED
1440 minute summer	S19	930	187.121	0.861	7.9	17.1585	0.0000	SURCHARGED
1440 minute summer	S20	930	187.117	0.871	5.1	0.9846	0.0000	FLOOD RISK
1440 minute summer	OUTFALL	30	186.184	0.000	5.0	0.0000	0.0000	OK
1440 minute summer	S21	750	188.139	0.039	2.8	6.9475	0.0000	OK
1440 minute summer	S22	750	187.793	0.043	5.5	7.6234	0.0000	OK
1440 minute summer	S23	930	187.123	0.273	0.5	0.1961	0.0000	FLOOD RISK
1440 minute summer	S24	930	187.123	0.441	1.0	0.2207	0.0000	SURCHARGED
1440 minute summer	S25	930	187.122	0.661	1.4	0.1050	0.0000	SURCHARGED
1440 minute summer	S26	930	187.121	0.836	1.8	0.3254	0.0000	SURCHARGED
1440 minute summer	S27	930	187.122	0.272	0.5	0.1955	0.0000	FLOOD RISK
Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
1440 minute summer	S13	S5.000	S14	0.5	0.711	0.045	0.0110	
1440 minute summer	S14	S5.001	S15	0.5	0.520	0.045	0.0151	
1440 minute summer	S15	S5.002	S16	1.1	0.893	0.099	0.0297	
1440 minute summer	S16	S5.003	S17	7.1	0.749	0.217	0.1098	
1440 minute summer	S17	S5.004	S18	6.4	0.486	0.729	0.3623	
1440 minute summer	S18	S5.005	S19	5.7	0.586	0.652	0.7109	
1440 minute summer	S19	S5.006	S20	5.1	0.290	0.578	0.1003	
1440 minute summer	S20	Hydro-Brake®	OUTFALL	5.0				295.1
1440 minute summer	S21	S6.000	S22	2.7	0.696	0.148	0.1295	
1440 minute summer	S22	S6.001	S16	5.4	1.322	0.169	0.0731	
1440 minute summer	S23	S7.000	S24	0.5	0.335	0.082	0.1318	
1440 minute summer	S24	S7.001	S25	0.9	0.531	0.152	0.1336	
1440 minute summer	S25	S7.002	S26	1.3	0.342	0.075	0.3125	
1440 minute summer	S26	S7.003	S19	1.8	0.372	0.101	0.0440	
1440 minute summer	S27	S8.000	S25	0.5	0.435	0.083	0.1338	

Results for 100 year +40% CC 1440 minute winter. 1680 minute analysis at 30 minute timestep. Mass balance: 99.99%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
1440 minute winter	S13	630	188.587	0.011	0.3	0.0030	0.0000	OK
1440 minute winter	S14	630	188.066	0.011	0.3	0.0018	0.0000	OK
1440 minute winter	S15	750	187.554	0.018	0.8	0.0080	0.0000	OK
1440 minute winter	S16	1020	187.162	0.120	5.3	0.0757	0.0000	OK
1440 minute winter	S17	1020	187.161	0.362	6.1	38.4287	0.0000	FLOOD RISK
1440 minute winter	S18	1020	187.155	0.407	6.1	42.9693	0.0000	SURCHARGED
1440 minute winter	S19	990	187.141	0.881	7.7	17.1899	0.0000	SURCHARGED
1440 minute winter	S20	990	187.136	0.890	5.1	1.0064	0.0000	FLOOD RISK
1440 minute winter	OUTFALL	30	186.184	0.000	5.0	0.0000	0.0000	OK
1440 minute winter	S21	750	188.134	0.034	2.1	6.0811	0.0000	OK
1440 minute winter	S22	750	187.787	0.037	4.2	6.6567	0.0000	OK
1440 minute winter	S23	990	187.142	0.292	0.4	0.2101	0.0000	FLOOD RISK
1440 minute winter	S24	990	187.142	0.460	0.8	0.2304	0.0000	SURCHARGED
1440 minute winter	S25	990	187.141	0.680	1.2	0.1081	0.0000	SURCHARGED
1440 minute winter	S26	990	187.141	0.856	1.5	0.3329	0.0000	SURCHARGED
1440 minute winter	S27	990	187.141	0.291	0.4	0.2094	0.0000	FLOOD RISK
Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
1440 minute winter	S13	S5.000	S14	0.3	0.610	0.027	0.0077	
1440 minute winter	S14	S5.001	S15	0.3	0.466	0.027	0.0115	
1440 minute winter	S15	S5.002	S16	0.8	0.814	0.072	0.0424	
1440 minute winter	S16	S5.003	S17	5.3	0.740	0.164	0.1192	
1440 minute winter	S17	S5.004	S18	5.2	0.470	0.595	0.3623	
1440 minute winter	S18	S5.005	S19	5.5	0.580	0.628	0.7109	
1440 minute winter	S19	S5.006	S20	5.1	0.291	0.580	0.1003	
1440 minute winter	S20	Hydro-Brake®	OUTFALL	5.0				332.8
1440 minute winter	S21	S6.000	S22	2.1	0.646	0.114	0.1072	
1440 minute winter	S22	S6.001	S16	4.1	1.229	0.130	0.0605	
1440 minute winter	S23	S7.000	S24	0.4	0.335	0.066	0.1318	
1440 minute winter	S24	S7.001	S25	0.8	0.490	0.131	0.1336	
1440 minute winter	S25	S7.002	S26	1.1	0.342	0.063	0.3125	
1440 minute winter	S26	S7.003	S19	1.5	0.430	0.084	0.0440	
1440 minute winter	S27	S8.000	S25	0.4	0.434	0.066	0.1338	