



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	0.690
S17	0.030	5.00	187.400	450	0.800
S18	0.034	5.00	188.000	450	1.451
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	1.100
S22	0.207	5.00	188.240	450	1.071
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	186.990	186.747	0.243	30.0	150	5.92	50.0
S5.004	S17	S18	20.580	0.600	186.600	186.549	0.051	400.0	150	6.61	50.0
S5.005	S18	S19	40.380	0.600	186.549	186.448	0.101	400.0	150	7.97	50.0
S5.006	S19	S20	5.700	0.600	186.260	186.246	0.014	400.0	150	8.16	50.0
S5.007	S20	OUTFALL	10.400	0.600	186.246	186.184	0.062	167.7	150	8.38	50.0
S6.000	S21	S22	33.350	0.600	187.500	187.169	0.331	100.8	150	5.56	50.0
S6.001	S22	S16	17.970	0.600	187.169	186.990	0.179	100.4	150	5.85	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	186.990	0.540	187.400	186.747	0.503
S5.004	20.580	400.0	150	Circular	187.400	186.600	0.650	188.000	186.549	1.301
S5.005	40.380	400.0	150	Circular	188.000	186.549	1.301	187.500	186.448	0.902
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	100.8	150	Circular	188.600	187.500	0.950	188.240	187.169	0.921
S6.001	17.970	100.4	150	Circular	188.240	187.169	0.921	187.680	186.990	0.540
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	0.690	450		1	S5.002	187.092	100
				2	S6.001	186.990	150	
				0	S5.003	186.990	150	
S17	187.400	0.800	450		1	S5.003	186.747	150
				0	S5.004	186.600	150	
S18	188.000	1.451	450		1	S5.004	186.549	150
				0	S5.005	186.549	150	
S19	187.500	1.240	1200		1	S7.003	186.260	150
				2	S5.005	186.448	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	1.100	450					
				0	S6.000	187.500	150	
S22	188.240	1.071	450		1	S6.000	187.169	150
				0	S6.001	187.169	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
S27	187.350	0.500	450		0	S8.000	186.850 100

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 S22 Online Orifice Control

Flap Valve	x	Invert Level (m)	187.169	Discharge Coefficient	0.600
Replaces Downstream Link	✓	Diameter (m)	0.050		

Node S17 Depth/Area Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Safety Factor	2.0	Invert Level (m)	186.600
Side Inf Coefficient (m/hr)	0.00000	Porosity	0.30	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)	186.549
Side Inf Coefficient (m/hr)	0.00000	Porosity	0.30	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 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	0.30	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	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)	187.500
Side Inf Coefficient (m/hr)	0.00000	Porosity	0.30	Time to half empty (mins)	152

Depth (m)	Area (m²)	Inf Area (m²)	Depth (m)	Area (m²)	Inf Area (m²)	Depth (m)	Area (m²)	Inf Area (m²)
0.000	500.0	0.0	0.500	500.0	0.0	0.501	0.0	0.0

Node S22 Depth/Area Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Safety Factor	2.0	Invert Level (m)	187.169
Side Inf Coefficient (m/hr)	0.00000	Porosity	0.30	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	500.0	0.0	0.500	500.0	0.0	0.501	0.0	0.0

Results for 100 year Critical Storm Duration. Lowest mass balance: 99.38%

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	11	187.085	0.095	19.6	0.0564	0.0000	OK
360 minute winter	S17	352	186.893	0.293	7.5	26.6670	0.0000	SURCHARGED
360 minute winter	S18	352	186.881	0.332	7.9	30.0679	0.0000	SURCHARGED
240 minute winter	S19	232	186.856	0.596	12.8	14.4774	0.0000	SURCHARGED
240 minute winter	S20	232	186.850	0.604	5.2	0.6826	0.0000	SURCHARGED
15 minute summer	OUTFALL	1	186.184	0.000	5.0	0.0000	0.0000	OK
240 minute winter	S21	228	187.670	0.170	8.1	25.6865	0.0000	SURCHARGED
240 minute winter	S22	228	187.669	0.500	22.4	76.9409	0.0000	SURCHARGED
15 minute winter	S23	12	187.275	0.425	6.3	0.3053	0.0000	FLOOD RISK
15 minute winter	S24	12	187.168	0.486	10.6	0.2437	0.0000	SURCHARGED
240 minute winter	S25	232	186.856	0.395	3.6	0.0628	0.0000	SURCHARGED
240 minute winter	S26	232	186.856	0.571	4.7	0.2221	0.0000	SURCHARGED
15 minute winter	S27	11	186.939	0.089	6.3	0.0637	0.0000	OK
Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute winter	S13	S5.000	S14	5.4	1.376	0.482	0.0606	
15 minute winter	S14	S5.001	S15	5.3	0.852	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	19.6	1.789	0.600	0.0795	
360 minute winter	S17	S5.004	S18	5.9	0.490	0.677	0.3623	
360 minute winter	S18	S5.005	S19	6.3	0.549	0.720	0.7109	
240 minute winter	S19	S5.006	S20	5.2	0.298	0.598	0.1003	
240 minute winter	S20	Hydro-Brake®	OUTFALL	5.0				120.6
240 minute winter	S21	S6.000	S22	5.2	0.374	0.294	0.5871	
240 minute winter	S22	Orifice	S16	3.6				
15 minute winter	S23	S7.000	S24	4.5	0.623	0.749	0.1318	
15 minute winter	S24	S7.001	S25	8.9	1.136	1.472	0.1336	
240 minute winter	S25	S7.002	S26	3.5	0.454	0.196	0.3125	
240 minute winter	S26	S7.003	S19	4.6	0.670	0.257	0.0440	
15 minute winter	S27	S8.000	S25	6.1	0.862	1.003	0.1199	

Results for 100 year +40% CC Critical Storm Duration. Lowest mass balance: 99.38%

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	188.236	0.181	7.5	0.0287	0.0000	SURCHARGED
15 minute winter	S15	12	188.048	0.513	16.6	0.2225	0.0000	SURCHARGED
360 minute winter	S16	256	187.409	0.419	7.6	0.2489	0.0000	FLOOD RISK
360 minute winter	S17	256	187.400	0.800	10.0	41.2722	6.0075	FLOOD
360 minute winter	S18	256	187.391	0.842	8.6	41.0737	0.0000	SURCHARGED
360 minute winter	S19	256	187.360	1.100	10.4	15.2911	0.0000	FLOOD RISK
360 minute winter	S20	256	187.354	1.107	5.2	1.2525	0.0000	FLOOD RISK
15 minute summer	OUTFALL	1	186.184	0.000	5.0	0.0000	0.0000	OK
240 minute winter	S21	236	187.972	0.472	23.4	71.5098	0.0000	SURCHARGED
120 minute winter	S22	74	188.240	1.071	47.9	79.3858	0.9104	FLOOD
480 minute winter	S23	336	187.350	0.500	1.2	0.3595	5.7925	FLOOD
360 minute winter	S24	256	187.356	0.674	2.4	0.3375	0.0000	FLOOD RISK
360 minute winter	S25	256	187.357	0.896	3.5	0.1424	0.0000	FLOOD RISK
360 minute winter	S26	256	187.360	1.075	4.6	0.4180	0.0000	FLOOD RISK
480 minute winter	S27	336	187.350	0.500	1.3	0.3595	6.2920	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	1.455	0.678	0.0981	
15 minute winter	S14	S5.001	S15	6.5	0.916	0.583	0.1220	
15 minute winter	S15	S5.002	S16	14.4	1.841	1.297	0.1030	
360 minute winter	S16	S5.003	S17	7.6	1.415	0.234	0.1282	
360 minute winter	S17	S5.004	S18	6.1	0.498	0.697	0.3623	
360 minute winter	S18	S5.005	S19	6.0	0.555	0.687	0.7109	
360 minute winter	S19	S5.006	S20	5.2	0.294	0.591	0.1003	
360 minute winter	S20	Hydro-Brake®	OUTFALL	5.0				139.6
240 minute winter	S21	S6.000	S22	-15.8	-0.900	-0.896	0.5871	
120 minute winter	S22	Orifice	S16	5.3				
480 minute winter	S23	S7.000	S24	1.0	0.409	0.166	0.1318	
360 minute winter	S24	S7.001	S25	2.3	0.642	0.379	0.1336	
360 minute winter	S25	S7.002	S26	3.4	0.422	0.191	0.3125	
360 minute winter	S26	S7.003	S19	4.5	0.572	0.254	0.0440	
480 minute winter	S27	S8.000	S25	1.0	0.532	0.166	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	0.0629	0.0000	SURCHARGED
15 minute summer	S16	10	187.083	0.093	18.7	0.0550	0.0000	OK
15 minute summer	S17	16	186.718	0.118	31.8	10.6931	0.0000	OK
15 minute summer	S18	30	186.659	0.110	19.2	9.9752	0.0000	OK
15 minute summer	S19	18	186.638	0.378	31.6	11.9564	0.0000	SURCHARGED
15 minute summer	S20	18	186.631	0.385	5.7	0.4358	0.0000	SURCHARGED
15 minute summer	OUTFALL	1	186.184	0.000	5.0	0.0000	0.0000	OK
15 minute summer	S21	15	187.569	0.069	31.6	10.4674	0.0000	OK
15 minute summer	S22	34	187.440	0.271	91.5	41.6984	0.0000	SURCHARGED
15 minute summer	S23	12	187.212	0.362	6.0	0.2605	0.0000	FLOOD RISK
15 minute summer	S24	12	187.111	0.429	10.2	0.2148	0.0000	SURCHARGED
15 minute summer	S25	13	186.701	0.240	14.4	0.0381	0.0000	SURCHARGED
15 minute summer	S26	17	186.641	0.356	19.1	0.1383	0.0000	SURCHARGED
15 minute summer	S27	11	186.934	0.084	6.0	0.0601	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	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	19.0	1.782	0.582	0.0775	
15 minute summer	S17	S5.004	S18	8.5	0.780	0.967	0.2716	
15 minute summer	S18	S5.005	S19	5.1	0.460	0.577	0.6351	
15 minute summer	S19	S5.006	S20	5.7	0.386	0.649	0.1003	
15 minute summer	S20	Hydro-Brake®	OUTFALL	5.0				57.0
15 minute summer	S21	S6.000	S22	7.7	0.524	0.436	0.4256	
15 minute summer	S22	Orifice	S16	2.6				
15 minute summer	S23	S7.000	S24	4.4	0.608	0.724	0.1318	
15 minute summer	S24	S7.001	S25	8.7	1.109	1.437	0.1336	
15 minute summer	S25	S7.002	S26	13.5	0.833	0.763	0.3125	
15 minute summer	S26	S7.003	S19	17.9	1.136	1.009	0.0440	
15 minute summer	S27	S8.000	S25	5.8	0.858	0.965	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	11	187.085	0.095	19.6	0.0564	0.0000	OK
15 minute winter	S17	16	186.732	0.131	32.2	11.9511	0.0000	OK
15 minute winter	S18	29	186.685	0.136	20.6	12.3624	0.0000	OK
15 minute winter	S19	17	186.666	0.406	33.6	12.8288	0.0000	SURCHARGED
15 minute winter	S20	17	186.659	0.413	5.8	0.4670	0.0000	SURCHARGED
15 minute winter	OUTFALL	1	186.184	0.000	5.0	0.0000	0.0000	OK
15 minute winter	S21	15	187.576	0.076	33.2	11.5522	0.0000	OK
15 minute winter	S22	35	187.476	0.307	96.7	47.2793	0.0000	SURCHARGED
15 minute winter	S23	12	187.275	0.425	6.3	0.3053	0.0000	FLOOD RISK
15 minute winter	S24	12	187.168	0.486	10.6	0.2437	0.0000	SURCHARGED
15 minute winter	S25	13	186.746	0.285	14.8	0.0452	0.0000	SURCHARGED
15 minute winter	S26	16	186.675	0.390	19.6	0.1518	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	0.852	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	19.6	1.789	0.600	0.0795	
15 minute winter	S17	S5.004	S18	9.5	0.776	1.088	0.3220	
15 minute winter	S18	S5.005	S19	5.0	0.461	0.569	0.6950	
15 minute winter	S19	S5.006	S20	5.8	0.403	0.660	0.1003	
15 minute winter	S20	Hydro-Brake®	OUTFALL	5.0				63.5
15 minute winter	S21	S6.000	S22	9.1	0.603	0.517	0.4435	
15 minute winter	S22	Orifice	S16	2.8				
15 minute winter	S23	S7.000	S24	4.5	0.623	0.749	0.1318	
15 minute winter	S24	S7.001	S25	8.9	1.136	1.472	0.1336	
15 minute winter	S25	S7.002	S26	13.9	0.834	0.788	0.3125	
15 minute winter	S26	S7.003	S19	18.8	1.203	1.058	0.0440	
15 minute winter	S27	S8.000	S25	6.1	0.862	1.003	0.1199	

Results for 100 year 30 minute summer. 270 minute analysis at 1 minute timestep. Mass balance: 99.95%

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	18	187.082	0.092	18.7	0.0545	0.0000	OK
30 minute summer	S17	24	186.736	0.136	30.2	12.3973	0.0000	OK
30 minute summer	S18	38	186.716	0.166	19.9	15.0858	0.0000	SURCHARGED
30 minute summer	S19	33	186.696	0.436	30.7	13.7720	0.0000	SURCHARGED
30 minute summer	S20	33	186.689	0.443	5.7	0.5007	0.0000	SURCHARGED
30 minute summer	OUTFALL	1	186.184	0.000	5.0	0.0000	0.0000	OK
30 minute summer	S21	23	187.578	0.078	28.5	11.7831	0.0000	OK
30 minute summer	S22	45	187.532	0.363	85.2	55.9077	0.0000	SURCHARGED
30 minute summer	S23	20	187.165	0.314	5.4	0.2261	0.0000	FLOOD RISK
30 minute summer	S24	20	187.077	0.395	9.4	0.1980	0.0000	SURCHARGED
30 minute summer	S25	21	186.735	0.274	13.2	0.0435	0.0000	SURCHARGED
30 minute summer	S26	33	186.696	0.411	17.4	0.1598	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	18.7	1.774	0.573	0.0766	
30 minute summer	S17	S5.004	S18	9.8	0.761	1.121	0.3510	
30 minute summer	S18	S5.005	S19	4.8	0.461	0.542	0.7109	
30 minute summer	S19	S5.006	S20	5.7	0.340	0.655	0.1003	
30 minute summer	S20	Hydro-Brake®	OUTFALL	5.0				74.3
30 minute summer	S21	S6.000	S22	9.5	0.619	0.535	0.4473	
30 minute summer	S22	Orifice	S16	3.0				
30 minute summer	S23	S7.000	S24	4.3	0.589	0.714	0.1318	
30 minute summer	S24	S7.001	S25	8.0	1.027	1.331	0.1336	
30 minute summer	S25	S7.002	S26	12.5	0.730	0.709	0.3125	
30 minute summer	S26	S7.003	S19	16.8	1.017	0.944	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: 99.82%

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	18	187.077	0.087	17.1	0.0514	0.0000	OK
30 minute winter	S17	33	186.757	0.157	27.5	14.2602	0.0000	SURCHARGED
30 minute winter	S18	35	186.742	0.193	20.8	17.5261	0.0000	SURCHARGED
30 minute winter	S19	31	186.731	0.470	29.7	14.2749	0.0000	SURCHARGED
30 minute winter	S20	32	186.724	0.478	5.8	0.5403	0.0000	SURCHARGED
30 minute winter	OUTFALL	1	186.184	0.000	5.0	0.0000	0.0000	OK
30 minute winter	S21	24	187.584	0.084	25.7	12.7836	0.0000	OK
30 minute winter	S22	37	187.563	0.394	78.5	60.6737	0.0000	SURCHARGED
30 minute winter	S23	21	187.137	0.287	4.9	0.2063	0.0000	FLOOD RISK
30 minute winter	S24	21	187.061	0.379	8.6	0.1900	0.0000	SURCHARGED
30 minute winter	S25	22	186.772	0.311	12.5	0.0495	0.0000	SURCHARGED
30 minute winter	S26	26	186.733	0.448	16.4	0.1743	0.0000	SURCHARGED
30 minute winter	S27	18	186.921	0.071	4.9	0.0511	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	17.1	1.742	0.525	0.0715	
30 minute winter	S17	S5.004	S18	10.5	0.745	1.197	0.3623	
30 minute winter	S18	S5.005	S19	4.7	0.460	0.541	0.7109	
30 minute winter	S19	S5.006	S20	5.8	0.352	0.659	0.1003	
30 minute winter	S20	Hydro-Brake®	OUTFALL	5.0				77.3
30 minute winter	S21	S6.000	S22	10.3	0.666	0.585	0.4637	
30 minute winter	S22	Orifice	S16	3.2				
30 minute winter	S23	S7.000	S24	3.9	0.568	0.651	0.1318	
30 minute winter	S24	S7.001	S25	7.8	0.998	1.291	0.1336	
30 minute winter	S25	S7.002	S26	11.7	0.713	0.662	0.3125	
30 minute winter	S26	S7.003	S19	15.7	1.082	0.883	0.0440	
30 minute winter	S27	S8.000	S25	4.9	0.841	0.810	0.0994	

Results for 100 year 60 minute summer. 300 minute analysis at 1 minute timestep. Mass balance: 99.70%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute 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	33	187.068	0.078	14.6	0.0462	0.0000	OK
60 minute summer	S17	65	186.773	0.173	23.2	15.6994	0.0000	SURCHARGED
60 minute summer	S18	64	186.763	0.214	18.2	19.3549	0.0000	SURCHARGED
60 minute summer	S19	60	186.750	0.490	26.4	14.3058	0.0000	SURCHARGED
60 minute summer	S20	60	186.743	0.497	5.7	0.5619	0.0000	SURCHARGED
60 minute summer	OUTFALL	1	186.184	0.000	5.0	0.0000	0.0000	OK
60 minute summer	S21	64	187.588	0.088	21.2	13.2877	0.0000	OK
60 minute summer	S22	62	187.586	0.417	66.1	64.2622	0.0000	SURCHARGED
60 minute summer	S23	36	186.974	0.124	4.0	0.0893	0.0000	SURCHARGED
60 minute summer	S24	36	186.923	0.241	7.9	0.1208	0.0000	SURCHARGED
60 minute summer	S25	60	186.751	0.290	10.9	0.0461	0.0000	SURCHARGED
60 minute summer	S26	60	186.750	0.465	13.8	0.1809	0.0000	SURCHARGED
60 minute summer	S27	33	186.911	0.061	4.0	0.0442	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
60 minute summer	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	14.6	1.682	0.447	0.0630	
60 minute summer	S17	S5.004	S18	10.2	0.676	1.159	0.3623	
60 minute summer	S18	S5.005	S19	5.4	0.464	0.613	0.7109	
60 minute summer	S19	S5.006	S20	5.7	0.322	0.647	0.1003	
60 minute summer	S20	Hydro-Brake®	OUTFALL	5.0				83.6
60 minute summer	S21	S6.000	S22	9.7	0.630	0.546	0.4719	
60 minute summer	S22	Orifice	S16	3.3				
60 minute summer	S23	S7.000	S24	3.9	0.560	0.653	0.1318	
60 minute summer	S24	S7.001	S25	7.0	0.897	1.154	0.1336	
60 minute summer	S25	S7.002	S26	9.9	0.615	0.558	0.3125	
60 minute summer	S26	S7.003	S19	13.2	0.897	0.744	0.0440	
60 minute summer	S27	S8.000	S25	4.0	0.809	0.662	0.0844	

Results for 100 year 60 minute winter. 300 minute analysis at 1 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
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	33	187.060	0.070	12.4	0.0418	0.0000	OK
60 minute winter	S17	65	186.811	0.211	19.4	19.1679	0.0000	SURCHARGED
60 minute winter	S18	63	186.801	0.252	20.0	22.8661	0.0000	SURCHARGED
60 minute winter	S19	58	186.792	0.532	23.2	14.3735	0.0000	SURCHARGED
60 minute winter	S20	58	186.785	0.539	6.6	0.6096	0.0000	SURCHARGED
60 minute winter	OUTFALL	1	186.184	0.000	5.0	0.0000	0.0000	OK
60 minute winter	S21	63	187.620	0.120	17.2	18.2100	0.0000	OK
60 minute winter	S22	61	187.619	0.450	55.4	69.2692	0.0000	SURCHARGED
60 minute winter	S23	37	186.925	0.075	3.2	0.0538	0.0000	OK
60 minute winter	S24	38	186.898	0.215	6.4	0.1080	0.0000	SURCHARGED
60 minute winter	S25	42	186.811	0.350	9.3	0.0556	0.0000	SURCHARGED
60 minute winter	S26	58	186.792	0.507	11.6	0.1974	0.0000	SURCHARGED
60 minute winter	S27	34	186.903	0.053	3.2	0.0383	0.0000	OK
Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
60 minute winter	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	12.4	1.622	0.381	0.0557	
60 minute winter	S17	S5.004	S18	10.0	0.658	1.139	0.3623	
60 minute winter	S18	S5.005	S19	-6.4	0.472	-0.728	0.7109	
60 minute winter	S19	S5.006	S20	6.6	0.374	0.750	0.1003	
60 minute winter	S20	Hydro-Brake®	OUTFALL	5.0				83.9
60 minute winter	S21	S6.000	S22	9.4	0.613	0.532	0.5458	
60 minute winter	S22	Orifice	S16	3.4				
60 minute winter	S23	S7.000	S24	3.2	0.544	0.530	0.1189	
60 minute winter	S24	S7.001	S25	6.1	0.860	1.011	0.1336	
60 minute winter	S25	S7.002	S26	8.4	0.579	0.474	0.3125	
60 minute winter	S26	S7.003	S19	11.1	0.967	0.623	0.0440	
60 minute winter	S27	S8.000	S25	3.2	0.770	0.530	0.0929	

Results for 100 year 120 minute summer. 360 minute analysis at 2 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
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	64	187.054	0.063	10.5	0.0377	0.0000	OK
120 minute summer	S17	124	186.815	0.215	15.9	19.5827	0.0000	SURCHARGED
120 minute summer	S18	124	186.804	0.255	15.2	23.1059	0.0000	SURCHARGED
120 minute summer	S19	114	186.784	0.524	21.5	14.3615	0.0000	SURCHARGED
120 minute summer	S20	114	186.778	0.531	5.8	0.6011	0.0000	SURCHARGED
120 minute summer	OUTFALL	2	186.184	0.000	5.0	0.0000	0.0000	OK
120 minute summer	S21	122	187.619	0.119	13.6	18.0579	0.0000	OK
120 minute summer	S22	122	187.619	0.450	45.2	69.2367	0.0000	SURCHARGED
120 minute summer	S23	64	186.896	0.046	2.6	0.0329	0.0000	OK
120 minute summer	S24	68	186.803	0.121	5.2	0.0607	0.0000	SURCHARGED
120 minute summer	S25	114	186.785	0.324	7.7	0.0515	0.0000	SURCHARGED
120 minute summer	S26	114	186.784	0.499	9.8	0.1943	0.0000	SURCHARGED
120 minute summer	S27	64	186.897	0.047	2.6	0.0338	0.0000	OK
Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
120 minute summer	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	10.4	1.557	0.321	0.0489	
120 minute summer	S17	S5.004	S18	9.3	0.610	1.062	0.3623	
120 minute summer	S18	S5.005	S19	6.6	0.533	0.754	0.7109	
120 minute summer	S19	S5.006	S20	5.8	0.332	0.666	0.1003	
120 minute summer	S20	Hydro-Brake®	OUTFALL	5.0				95.7
120 minute summer	S21	S6.000	S22	8.4	0.560	0.473	0.5438	
120 minute summer	S22	Orifice	S16	3.4				
120 minute summer	S23	S7.000	S24	2.6	0.540	0.431	0.0907	
120 minute summer	S24	S7.001	S25	5.1	0.844	0.838	0.1336	
120 minute summer	S25	S7.002	S26	7.2	0.480	0.407	0.3125	
120 minute summer	S26	S7.003	S19	9.3	0.773	0.526	0.0440	
120 minute summer	S27	S8.000	S25	2.6	0.732	0.431	0.0742	

Results for 100 year 120 minute winter. 360 minute analysis at 2 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
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	66	187.048	0.058	8.9	0.0342	0.0000	OK
120 minute winter	S17	124	186.861	0.261	13.1	23.7577	0.0000	SURCHARGED
120 minute winter	S18	122	186.850	0.301	14.9	27.2717	0.0000	SURCHARGED
120 minute winter	S19	116	186.833	0.573	17.7	14.4404	0.0000	SURCHARGED
120 minute winter	S20	116	186.827	0.580	5.4	0.6565	0.0000	SURCHARGED
120 minute winter	OUTFALL	2	186.184	0.000	5.0	0.0000	0.0000	OK

120 minute winter	S21	120	187.658	0.158	10.5	23.8667	0.0000	SURCHARGED
120 minute winter	S22	118	187.657	0.488	36.4	75.1236	0.0000	SURCHARGED

120 minute winter	S23	64	186.890	0.040	2.0	0.0285	0.0000	OK
120 minute winter	S24	110	186.836	0.154	4.0	0.0771	0.0000	SURCHARGED
120 minute winter	S25	116	186.834	0.373	5.9	0.0593	0.0000	SURCHARGED
120 minute winter	S26	116	186.833	0.548	7.5	0.2133	0.0000	SURCHARGED

120 minute winter	S27	64	186.891	0.040	2.0	0.0291	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)
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	0.0418	
120 minute winter	S16	S5.003	S17	8.9	1.496	0.272	0.0640	
120 minute winter	S17	S5.004	S18	8.7	0.588	0.992	0.3623	
120 minute winter	S18	S5.005	S19	6.4	0.532	0.730	0.7109	
120 minute winter	S19	S5.006	S20	5.4	0.308	0.618	0.1003	
120 minute winter	S20	Hydro-Brake®	OUTFALL	5.0				96.2

120 minute winter	S21	S6.000	S22	7.5	0.508	0.421	0.5871	
120 minute winter	S22	Orifice	S16	3.6				

120 minute winter	S23	S7.000	S24	2.0	0.519	0.331	0.0886	
120 minute winter	S24	S7.001	S25	3.9	0.797	0.653	0.1336	
120 minute winter	S25	S7.002	S26	5.5	0.483	0.313	0.3125	
120 minute winter	S26	S7.003	S19	7.2	0.792	0.407	0.0440	

120 minute winter	S27	S8.000	S25	2.0	0.684	0.331	0.0871	
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Results for 100 year 180 minute summer. 420 minute analysis at 4 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
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	96	187.046	0.056	8.5	0.0335	0.0000	OK
180 minute summer	S17	184	186.830	0.230	12.6	20.9372	0.0000	SURCHARGED
180 minute summer	S18	184	186.819	0.270	13.1	24.4337	0.0000	SURCHARGED
180 minute summer	S19	180	186.798	0.537	16.8	14.3831	0.0000	SURCHARGED
180 minute summer	S20	180	186.791	0.545	5.4	0.6162	0.0000	SURCHARGED
180 minute summer	OUTFALL	4	186.184	0.000	5.0	0.0000	0.0000	OK
180 minute summer	S21	180	187.627	0.127	10.0	19.1654	0.0000	OK
180 minute summer	S22	180	187.626	0.457	34.5	70.3538	0.0000	SURCHARGED
180 minute summer	S23	96	186.889	0.039	1.9	0.0277	0.0000	OK
180 minute summer	S24	180	186.799	0.117	3.8	0.0584	0.0000	SURCHARGED
180 minute summer	S25	180	186.798	0.337	5.7	0.0536	0.0000	SURCHARGED
180 minute summer	S26	180	186.798	0.513	7.2	0.1994	0.0000	SURCHARGED
180 minute summer	S27	96	186.889	0.039	1.9	0.0283	0.0000	OK
Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
180 minute summer	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	8.5	1.481	0.261	0.0477	
180 minute summer	S17	S5.004	S18	8.1	0.563	0.925	0.3623	
180 minute summer	S18	S5.005	S19	6.5	0.552	0.745	0.7109	
180 minute summer	S19	S5.006	S20	5.4	0.304	0.611	0.1003	
180 minute summer	S20	Hydro-Brake®	OUTFALL	5.0				107.3
180 minute summer	S21	S6.000	S22	7.2	0.492	0.405	0.5578	
180 minute summer	S22	Orifice	S16	3.4				
180 minute summer	S23	S7.000	S24	1.9	0.512	0.315	0.0808	
180 minute summer	S24	S7.001	S25	3.8	0.762	0.629	0.1336	
180 minute summer	S25	S7.002	S26	5.3	0.460	0.299	0.3125	
180 minute summer	S26	S7.003	S19	6.9	0.711	0.387	0.0440	
180 minute summer	S27	S8.000	S25	1.9	0.675	0.315	0.0764	

Results for 100 year 180 minute winter. 420 minute analysis at 4 minute timestep. Mass balance: 99.57%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
180 minute 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	96	187.042	0.052	7.5	0.0311	0.0000	OK
180 minute winter	S17	184	186.884	0.284	10.6	25.8213	0.0000	SURCHARGED
180 minute winter	S18	180	186.872	0.323	11.1	29.2796	0.0000	SURCHARGED
180 minute winter	S19	176	186.852	0.592	14.2	14.4706	0.0000	SURCHARGED
180 minute winter	S20	176	186.845	0.599	5.3	0.6778	0.0000	SURCHARGED
180 minute winter	OUTFALL	4	186.184	0.000	5.0	0.0000	0.0000	OK

180 minute winter	S21	176	187.669	0.169	9.1	25.5796	0.0000	SURCHARGED
180 minute winter	S22	176	187.668	0.499	27.7	76.8425	0.0000	SURCHARGED

180 minute winter	S23	96	186.884	0.034	1.5	0.0244	0.0000	OK
180 minute winter	S24	168	186.854	0.172	3.0	0.0862	0.0000	SURCHARGED
180 minute winter	S25	168	186.852	0.391	4.5	0.0622	0.0000	SURCHARGED
180 minute winter	S26	176	186.852	0.567	5.7	0.2205	0.0000	SURCHARGED

180 minute winter	S27	96	186.885	0.035	1.5	0.0248	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)
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	0.0338	
180 minute winter	S16	S5.003	S17	7.5	1.433	0.230	0.0729	
180 minute winter	S17	S5.004	S18	7.5	0.543	0.860	0.3623	
180 minute winter	S18	S5.005	S19	6.7	0.560	0.761	0.7109	
180 minute winter	S19	S5.006	S20	5.3	0.300	0.601	0.1003	
180 minute winter	S20	Hydro-Brake®	OUTFALL	5.0				108.4

180 minute winter	S21	S6.000	S22	6.1	0.427	0.343	0.5871	
180 minute winter	S22	Orifice	S16	3.6				

180 minute winter	S23	S7.000	S24	1.5	0.484	0.248	0.0838	
180 minute winter	S24	S7.001	S25	3.0	0.729	0.492	0.1336	
180 minute winter	S25	S7.002	S26	4.2	0.459	0.237	0.3125	
180 minute winter	S26	S7.003	S19	5.6	0.718	0.314	0.0440	

180 minute winter	S27	S8.000	S25	1.5	0.633	0.248	0.0830	
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Results for 100 year 240 minute summer. 480 minute analysis at 4 minute timestep. Mass balance: 99.64%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
240 minute summer	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	124	187.043	0.053	7.5	0.0312	0.0000	OK
240 minute summer	S17	240	186.838	0.238	10.9	21.6674	0.0000	SURCHARGED
240 minute summer	S18	244	186.826	0.277	11.2	25.0803	0.0000	SURCHARGED
240 minute summer	S19	224	186.803	0.543	14.6	14.3913	0.0000	SURCHARGED
240 minute summer	S20	224	186.796	0.550	5.3	0.6220	0.0000	SURCHARGED
240 minute summer	OUTFALL	4	186.184	0.000	5.0	0.0000	0.0000	OK
240 minute summer	S21	208	187.628	0.128	8.4	19.3335	0.0000	OK
240 minute summer	S22	204	187.627	0.458	28.8	70.5149	0.0000	SURCHARGED
240 minute summer	S23	124	186.885	0.035	1.6	0.0252	0.0000	OK
240 minute summer	S24	224	186.804	0.122	3.2	0.0610	0.0000	SURCHARGED
240 minute summer	S25	224	186.803	0.342	4.8	0.0544	0.0000	SURCHARGED
240 minute summer	S26	224	186.803	0.518	6.0	0.2014	0.0000	SURCHARGED
240 minute summer	S27	124	186.886	0.036	1.6	0.0256	0.0000	OK
Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
240 minute summer	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	7.5	1.435	0.231	0.0521	
240 minute summer	S17	S5.004	S18	7.6	0.539	0.869	0.3623	
240 minute summer	S18	S5.005	S19	6.6	0.567	0.753	0.7109	
240 minute summer	S19	S5.006	S20	5.3	0.302	0.605	0.1003	
240 minute summer	S20	Hydro-Brake®	OUTFALL	5.0				119.5
240 minute summer	S21	S6.000	S22	6.1	0.426	0.342	0.5598	
240 minute summer	S22	Orifice	S16	3.4				
240 minute summer	S23	S7.000	S24	1.6	0.492	0.264	0.0774	
240 minute summer	S24	S7.001	S25	3.2	0.726	0.525	0.1336	
240 minute summer	S25	S7.002	S26	4.4	0.440	0.248	0.3125	
240 minute summer	S26	S7.003	S19	5.7	0.609	0.321	0.0440	
240 minute summer	S27	S8.000	S25	1.6	0.643	0.263	0.0774	

Results for 100 year 240 minute winter. 480 minute analysis at 4 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
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	132	187.039	0.049	6.6	0.0291	0.0000	OK
240 minute winter	S17	240	186.890	0.290	9.0	26.3294	0.0000	SURCHARGED
240 minute winter	S18	240	186.877	0.328	9.6	29.7632	0.0000	SURCHARGED
240 minute winter	S19	232	186.856	0.596	12.8	14.4774	0.0000	SURCHARGED
240 minute winter	S20	232	186.850	0.604	5.2	0.6826	0.0000	SURCHARGED
240 minute winter	OUTFALL	4	186.184	0.000	5.0	0.0000	0.0000	OK
240 minute winter	S21	228	187.670	0.170	8.1	25.6865	0.0000	SURCHARGED
240 minute winter	S22	228	187.669	0.500	22.4	76.9409	0.0000	SURCHARGED
240 minute winter	S23	124	186.880	0.030	1.2	0.0217	0.0000	OK
240 minute winter	S24	232	186.857	0.175	2.4	0.0877	0.0000	SURCHARGED
240 minute winter	S25	232	186.856	0.395	3.6	0.0628	0.0000	SURCHARGED
240 minute winter	S26	232	186.856	0.571	4.7	0.2221	0.0000	SURCHARGED
240 minute winter	S27	128	186.881	0.031	1.2	0.0221	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
240 minute winter	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	0.0279	
240 minute winter	S16	S5.003	S17	6.6	1.390	0.204	0.0744	
240 minute winter	S17	S5.004	S18	6.8	0.519	0.777	0.3623	
240 minute winter	S18	S5.005	S19	6.6	0.566	0.757	0.7109	
240 minute winter	S19	S5.006	S20	5.2	0.298	0.598	0.1003	
240 minute winter	S20	Hydro-Brake®	OUTFALL	5.0				120.6
240 minute winter	S21	S6.000	S22	5.2	0.374	0.294	0.5871	
240 minute winter	S22	Orifice	S16	3.6				
240 minute winter	S23	S7.000	S24	1.2	0.456	0.199	0.0807	
240 minute winter	S24	S7.001	S25	2.4	0.696	0.398	0.1336	
240 minute winter	S25	S7.002	S26	3.5	0.454	0.196	0.3125	
240 minute winter	S26	S7.003	S19	4.6	0.670	0.257	0.0440	
240 minute winter	S27	S8.000	S25	1.2	0.596	0.199	0.0808	

Results for 100 year 360 minute summer. 600 minute analysis at 8 minute timestep. Mass balance: 99.68%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
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	184	187.038	0.048	6.3	0.0283	0.0000	OK
360 minute summer	S17	312	186.829	0.229	8.8	20.8408	0.0000	SURCHARGED
360 minute summer	S18	320	186.817	0.268	9.5	24.2924	0.0000	SURCHARGED
360 minute summer	S19	280	186.793	0.533	11.7	14.3759	0.0000	SURCHARGED
360 minute summer	S20	280	186.786	0.540	5.2	0.6112	0.0000	SURCHARGED
360 minute summer	OUTFALL	8	186.184	0.000	5.0	0.0000	0.0000	OK
360 minute summer	S21	272	187.625	0.125	6.2	18.8746	0.0000	OK
360 minute summer	S22	264	187.624	0.455	21.9	70.0533	0.0000	SURCHARGED
360 minute summer	S23	184	186.880	0.030	1.2	0.0217	0.0000	OK
360 minute summer	S24	280	186.794	0.112	2.4	0.0562	0.0000	SURCHARGED
360 minute summer	S25	280	186.793	0.332	3.6	0.0529	0.0000	SURCHARGED
360 minute summer	S26	280	186.793	0.508	4.5	0.1977	0.0000	SURCHARGED
360 minute summer	S27	184	186.881	0.031	1.2	0.0219	0.0000	OK
Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
360 minute summer	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	6.3	1.373	0.194	0.0469	
360 minute summer	S17	S5.004	S18	6.6	0.501	0.757	0.3623	
360 minute summer	S18	S5.005	S19	6.4	0.557	0.725	0.7109	
360 minute summer	S19	S5.006	S20	5.2	0.298	0.589	0.1003	
360 minute summer	S20	Hydro-Brake®	OUTFALL	5.0				143.5
360 minute summer	S21	S6.000	S22	5.0	0.361	0.282	0.5543	
360 minute summer	S22	Orifice	S16	3.4				
360 minute summer	S23	S7.000	S24	1.2	0.456	0.197	0.0742	
360 minute summer	S24	S7.001	S25	2.4	0.642	0.392	0.1336	
360 minute summer	S25	S7.002	S26	3.3	0.422	0.189	0.3125	
360 minute summer	S26	S7.003	S19	4.4	0.629	0.247	0.0440	
360 minute summer	S27	S8.000	S25	1.2	0.594	0.196	0.0737	

Results for 100 year 360 minute winter. 600 minute analysis at 8 minute timestep. Mass balance: 99.63%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
360 minute 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	192	187.035	0.045	5.7	0.0268	0.0000	OK
360 minute winter	S17	352	186.893	0.293	7.5	26.6670	0.0000	SURCHARGED
360 minute winter	S18	352	186.881	0.332	7.9	30.0679	0.0000	SURCHARGED
360 minute winter	S19	344	186.856	0.595	10.6	14.4767	0.0000	SURCHARGED
360 minute winter	S20	344	186.849	0.603	5.2	0.6821	0.0000	SURCHARGED
360 minute winter	OUTFALL	8	186.184	0.000	5.0	0.0000	0.0000	OK
360 minute winter	S21	288	187.664	0.164	6.4	24.8504	0.0000	SURCHARGED
360 minute winter	S22	280	187.663	0.494	16.7	76.0812	0.0000	SURCHARGED
360 minute winter	S23	184	186.876	0.026	0.9	0.0187	0.0000	OK
360 minute winter	S24	320	186.856	0.174	1.8	0.0874	0.0000	SURCHARGED
360 minute winter	S25	344	186.856	0.395	2.7	0.0627	0.0000	SURCHARGED
360 minute winter	S26	344	186.856	0.570	3.5	0.2219	0.0000	SURCHARGED
360 minute winter	S27	184	186.876	0.026	0.9	0.0189	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
360 minute winter	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	0.0224	
360 minute winter	S16	S5.003	S17	5.7	1.338	0.176	0.0751	
360 minute winter	S17	S5.004	S18	5.9	0.490	0.677	0.3623	
360 minute winter	S18	S5.005	S19	6.3	0.549	0.720	0.7109	
360 minute winter	S19	S5.006	S20	5.2	0.294	0.590	0.1003	
360 minute winter	S20	Hydro-Brake®	OUTFALL	5.0				146.4
360 minute winter	S21	S6.000	S22	4.0	0.297	0.225	0.5871	
360 minute winter	S22	Orifice	S16	3.6				
360 minute winter	S23	S7.000	S24	0.9	0.422	0.148	0.0774	
360 minute winter	S24	S7.001	S25	1.8	0.622	0.295	0.1336	
360 minute winter	S25	S7.002	S26	2.6	0.422	0.146	0.3125	
360 minute winter	S26	S7.003	S19	3.4	0.523	0.193	0.0440	
360 minute winter	S27	S8.000	S25	0.9	0.548	0.148	0.0785	

Results for 100 year 480 minute summer. 720 minute analysis at 8 minute timestep. Mass balance: 99.73%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
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	248	187.035	0.045	5.7	0.0267	0.0000	OK
480 minute summer	S17	376	186.822	0.222	7.7	20.1564	0.0000	SURCHARGED
480 minute summer	S18	384	186.810	0.260	8.1	23.6063	0.0000	SURCHARGED
480 minute summer	S19	344	186.786	0.526	10.2	14.3641	0.0000	SURCHARGED
480 minute summer	S20	344	186.779	0.533	5.1	0.6029	0.0000	SURCHARGED
480 minute summer	OUTFALL	8	186.184	0.000	5.0	0.0000	0.0000	OK
480 minute summer	S21	336	187.620	0.120	5.4	18.1812	0.0000	OK
480 minute summer	S22	336	187.619	0.450	17.5	69.3479	0.0000	SURCHARGED
480 minute summer	S23	248	186.876	0.026	0.9	0.0188	0.0000	OK
480 minute summer	S24	344	186.787	0.105	1.8	0.0526	0.0000	SURCHARGED
480 minute summer	S25	344	186.786	0.325	2.7	0.0517	0.0000	SURCHARGED
480 minute summer	S26	344	186.786	0.501	3.5	0.1948	0.0000	SURCHARGED
480 minute summer	S27	248	186.876	0.026	0.9	0.0190	0.0000	OK
Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
480 minute summer	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	5.7	1.335	0.174	0.0428	
480 minute summer	S17	S5.004	S18	5.9	0.491	0.672	0.3623	
480 minute summer	S18	S5.005	S19	6.0	0.558	0.685	0.7109	
480 minute summer	S19	S5.006	S20	5.1	0.294	0.587	0.1003	
480 minute summer	S20	Hydro-Brake®	OUTFALL	5.0				169.1
480 minute summer	S21	S6.000	S22	4.0	0.301	0.228	0.5454	
480 minute summer	S22	Orifice	S16	3.4				
480 minute summer	S23	S7.000	S24	0.9	0.422	0.149	0.0721	
480 minute summer	S24	S7.001	S25	1.8	0.619	0.298	0.1336	
480 minute summer	S25	S7.002	S26	2.6	0.342	0.148	0.3125	
480 minute summer	S26	S7.003	S19	3.4	0.629	0.194	0.0440	
480 minute summer	S27	S8.000	S25	0.9	0.550	0.149	0.0732	

Results for 100 year 480 minute winter. 720 minute analysis at 8 minute timestep. Mass balance: 99.69%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
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	256	187.033	0.043	5.3	0.0256	0.0000	OK
480 minute winter	S17	456	186.874	0.274	6.7	24.8860	0.0000	SURCHARGED
480 minute winter	S18	448	186.861	0.312	7.0	28.3135	0.0000	SURCHARGED
480 minute winter	S19	440	186.836	0.576	9.1	14.4451	0.0000	SURCHARGED
480 minute winter	S20	440	186.830	0.583	5.1	0.6599	0.0000	SURCHARGED
480 minute winter	OUTFALL	8	186.184	0.000	5.0	0.0000	0.0000	OK

480 minute winter	S21	360	187.656	0.156	5.1	23.6435	0.0000	SURCHARGED
480 minute winter	S22	360	187.655	0.486	13.3	74.8675	0.0000	SURCHARGED

480 minute winter	S23	240	186.873	0.023	0.7	0.0165	0.0000	OK
480 minute winter	S24	440	186.836	0.154	1.4	0.0773	0.0000	SURCHARGED
480 minute winter	S25	440	186.836	0.375	2.1	0.0596	0.0000	SURCHARGED
480 minute winter	S26	440	186.836	0.551	2.7	0.2143	0.0000	SURCHARGED

480 minute winter	S27	240	186.873	0.023	0.7	0.0167	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)
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	0.0195	
480 minute winter	S16	S5.003	S17	5.3	1.308	0.161	0.0689	
480 minute winter	S17	S5.004	S18	5.4	0.479	0.620	0.3623	
480 minute winter	S18	S5.005	S19	5.8	0.558	0.658	0.7109	
480 minute winter	S19	S5.006	S20	5.1	0.295	0.585	0.1003	
480 minute winter	S20	Hydro-Brake®	OUTFALL	5.0				172.1

480 minute winter	S21	S6.000	S22	3.2	0.248	0.183	0.5871	
480 minute winter	S22	Orifice	S16	3.5				

480 minute winter	S23	S7.000	S24	0.7	0.393	0.116	0.0749	
480 minute winter	S24	S7.001	S25	1.4	0.592	0.232	0.1336	
480 minute winter	S25	S7.002	S26	2.0	0.405	0.116	0.3125	
480 minute winter	S26	S7.003	S19	2.7	0.560	0.152	0.0440	

480 minute winter	S27	S8.000	S25	0.7	0.512	0.116	0.0760	
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Results for 100 year 600 minute summer. 840 minute analysis at 15 minute timestep. Mass balance: 99.81%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
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	187.033	0.043	5.1	0.0253	0.0000	OK
600 minute summer	S17	435	186.804	0.204	6.7	18.5471	0.0000	SURCHARGED
600 minute summer	S18	435	186.792	0.243	7.1	21.9943	0.0000	SURCHARGED
600 minute summer	S19	405	186.767	0.507	9.5	14.3339	0.0000	SURCHARGED
600 minute summer	S20	405	186.760	0.514	5.1	0.5817	0.0000	SURCHARGED
600 minute summer	OUTFALL	15	186.184	0.000	5.0	0.0000	0.0000	OK
600 minute summer	S21	405	187.614	0.114	4.7	17.2011	0.0000	OK
600 minute summer	S22	405	187.613	0.444	14.5	68.3678	0.0000	SURCHARGED
600 minute summer	S23	315	186.873	0.023	0.7	0.0165	0.0000	OK
600 minute summer	S24	405	186.768	0.086	1.4	0.0431	0.0000	OK
600 minute summer	S25	405	186.767	0.306	2.1	0.0487	0.0000	SURCHARGED
600 minute summer	S26	405	186.767	0.482	2.7	0.1876	0.0000	SURCHARGED
600 minute summer	S27	315	186.873	0.023	0.7	0.0167	0.0000	OK
Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
600 minute summer	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	5.1	1.301	0.158	0.0332	
600 minute summer	S17	S5.004	S18	5.3	0.485	0.605	0.3623	
600 minute summer	S18	S5.005	S19	5.5	0.556	0.629	0.7109	
600 minute summer	S19	S5.006	S20	5.1	0.292	0.587	0.1003	
600 minute summer	S20	Hydro-Brake®	OUTFALL	5.0				193.7
600 minute summer	S21	S6.000	S22	3.5	0.267	0.200	0.5321	
600 minute summer	S22	Orifice	S16	3.4				
600 minute summer	S23	S7.000	S24	0.7	0.393	0.116	0.0651	
600 minute summer	S24	S7.001	S25	1.4	0.594	0.232	0.1280	
600 minute summer	S25	S7.002	S26	2.0	0.342	0.115	0.3125	
600 minute summer	S26	S7.003	S19	2.7	0.511	0.151	0.0440	
600 minute summer	S27	S8.000	S25	0.7	0.512	0.116	0.0674	

Results for 100 year 600 minute winter. 840 minute analysis at 15 minute timestep. Mass balance: 99.74%

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	330	187.031	0.041	4.9	0.0246	0.0000	OK
600 minute winter	S17	495	186.854	0.254	6.1	23.0996	0.0000	SURCHARGED
600 minute winter	S18	495	186.842	0.293	6.4	26.5318	0.0000	SURCHARGED
600 minute winter	S19	450	186.817	0.557	8.1	14.4152	0.0000	SURCHARGED
600 minute winter	S20	450	186.811	0.565	5.1	0.6389	0.0000	SURCHARGED
600 minute winter	OUTFALL	15	186.184	0.000	5.0	0.0000	0.0000	OK
600 minute winter	S21	435	187.645	0.145	4.0	21.9893	0.0000	OK
600 minute winter	S22	435	187.644	0.475	11.1	73.2110	0.0000	SURCHARGED
600 minute winter	S23	315	186.871	0.021	0.6	0.0153	0.0000	OK
600 minute winter	S24	450	186.819	0.137	1.2	0.0684	0.0000	SURCHARGED
600 minute winter	S25	450	186.818	0.357	1.8	0.0567	0.0000	SURCHARGED
600 minute winter	S26	450	186.818	0.533	2.4	0.2071	0.0000	SURCHARGED
600 minute winter	S27	315	186.872	0.022	0.6	0.0155	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
600 minute winter	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	4.9	1.283	0.150	0.0601	
600 minute winter	S17	S5.004	S18	5.0	0.475	0.565	0.3623	
600 minute winter	S18	S5.005	S19	5.2	0.540	0.592	0.7109	
600 minute winter	S19	S5.006	S20	5.1	0.290	0.582	0.1003	
600 minute winter	S20	Hydro-Brake®	OUTFALL	5.0				197.5
600 minute winter	S21	S6.000	S22	2.7	0.214	0.155	0.5844	
600 minute winter	S22	Orifice	S16	3.5				
600 minute winter	S23	S7.000	S24	0.6	0.377	0.099	0.0735	
600 minute winter	S24	S7.001	S25	1.2	0.564	0.199	0.1336	
600 minute winter	S25	S7.002	S26	1.8	0.342	0.099	0.3125	
600 minute winter	S26	S7.003	S19	2.3	0.589	0.131	0.0440	
600 minute winter	S27	S8.000	S25	0.6	0.490	0.099	0.0745	

Results for 100 year 720 minute summer. 960 minute analysis at 15 minute timestep. Mass balance: 99.94%

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	187.032	0.042	4.9	0.0247	0.0000	OK
720 minute summer	S17	510	186.796	0.196	6.3	17.8119	0.0000	SURCHARGED
720 minute summer	S18	510	186.784	0.235	6.8	21.2692	0.0000	SURCHARGED
720 minute summer	S19	480	186.760	0.500	9.1	14.3222	0.0000	SURCHARGED
720 minute summer	S20	480	186.753	0.507	5.1	0.5735	0.0000	SURCHARGED
720 minute summer	OUTFALL	15	186.184	0.000	5.0	0.0000	0.0000	OK
720 minute summer	S21	480	187.607	0.107	4.1	16.2232	0.0000	OK
720 minute summer	S22	480	187.606	0.437	12.9	67.3537	0.0000	SURCHARGED
720 minute summer	S23	375	186.873	0.023	0.7	0.0165	0.0000	OK
720 minute summer	S24	480	186.761	0.079	1.4	0.0395	0.0000	OK
720 minute summer	S25	480	186.760	0.299	2.1	0.0476	0.0000	SURCHARGED
720 minute summer	S26	480	186.760	0.475	2.7	0.1848	0.0000	SURCHARGED
720 minute summer	S27	375	186.873	0.023	0.7	0.0167	0.0000	OK
Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
720 minute summer	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	4.9	1.285	0.151	0.0290	
720 minute summer	S17	S5.004	S18	5.2	0.481	0.588	0.3623	
720 minute summer	S18	S5.005	S19	5.3	0.558	0.601	0.7109	
720 minute summer	S19	S5.006	S20	5.1	0.292	0.585	0.1003	
720 minute summer	S20	Hydro-Brake®	OUTFALL	5.0				218.3
720 minute summer	S21	S6.000	S22	3.2	0.244	0.180	0.5179	
720 minute summer	S22	Orifice	S16	3.4				
720 minute summer	S23	S7.000	S24	0.7	0.393	0.116	0.0605	
720 minute summer	S24	S7.001	S25	1.4	0.567	0.232	0.1233	
720 minute summer	S25	S7.002	S26	2.0	0.342	0.115	0.3125	
720 minute summer	S26	S7.003	S19	2.7	0.511	0.152	0.0440	
720 minute summer	S27	S8.000	S25	0.7	0.512	0.116	0.0630	

Results for 100 year 720 minute winter. 960 minute analysis at 15 minute timestep. Mass balance: 99.79%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
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	405	187.030	0.040	4.6	0.0239	0.0000	OK
720 minute winter	S17	555	186.839	0.239	5.7	21.7079	0.0000	SURCHARGED
720 minute winter	S18	555	186.826	0.277	6.0	25.1396	0.0000	SURCHARGED
720 minute winter	S19	525	186.802	0.542	7.7	14.3904	0.0000	SURCHARGED
720 minute winter	S20	525	186.795	0.549	5.1	0.6214	0.0000	SURCHARGED
720 minute winter	OUTFALL	15	186.184	0.000	5.0	0.0000	0.0000	OK

720 minute winter	S21	510	187.634	0.134	3.3	20.3161	0.0000	OK
720 minute winter	S22	510	187.633	0.464	9.7	71.5120	0.0000	SURCHARGED

720 minute winter	S23	360	186.870	0.019	0.5	0.0140	0.0000	OK
720 minute winter	S24	525	186.803	0.121	1.0	0.0607	0.0000	SURCHARGED
720 minute winter	S25	525	186.802	0.341	1.5	0.0543	0.0000	SURCHARGED
720 minute winter	S26	525	186.802	0.517	2.0	0.2012	0.0000	SURCHARGED

720 minute winter	S27	360	186.870	0.020	0.5	0.0141	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)
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	4.6	1.264	0.142	0.0522	
720 minute winter	S17	S5.004	S18	4.8	0.468	0.542	0.3623	
720 minute winter	S18	S5.005	S19	5.4	0.546	0.615	0.7109	
720 minute winter	S19	S5.006	S20	5.1	0.290	0.579	0.1003	
720 minute winter	S20	Hydro-Brake®	OUTFALL	5.0				224.3

720 minute winter	S21	S6.000	S22	2.4	0.191	0.137	0.5706	
720 minute winter	S22	Orifice	S16	3.5				

720 minute winter	S23	S7.000	S24	0.5	0.358	0.083	0.0722	
720 minute winter	S24	S7.001	S25	1.0	0.532	0.166	0.1336	
720 minute winter	S25	S7.002	S26	1.5	0.342	0.083	0.3125	
720 minute winter	S26	S7.003	S19	1.9	0.550	0.109	0.0440	

720 minute winter	S27	S8.000	S25	0.5	0.465	0.084	0.0733	
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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	187.030	0.040	4.6	0.0237	0.0000	OK
960 minute summer	S17	645	186.773	0.173	5.7	15.7216	0.0000	SURCHARGED
960 minute summer	S18	630	186.761	0.212	6.3	19.2182	0.0000	SURCHARGED
960 minute summer	S19	615	186.738	0.478	8.0	14.2863	0.0000	SURCHARGED
960 minute summer	S20	615	186.731	0.485	5.1	0.5483	0.0000	SURCHARGED
960 minute summer	OUTFALL	15	186.184	0.000	5.0	0.0000	0.0000	OK
960 minute summer	S21	615	187.591	0.090	2.8	13.7050	0.0000	OK
960 minute summer	S22	615	187.590	0.421	10.4	64.8004	0.0000	SURCHARGED
960 minute summer	S23	480	186.870	0.019	0.5	0.0140	0.0000	OK
960 minute summer	S24	615	186.739	0.057	1.0	0.0283	0.0000	OK
960 minute summer	S25	615	186.738	0.277	1.5	0.0440	0.0000	SURCHARGED
960 minute summer	S26	615	186.738	0.453	2.0	0.1761	0.0000	SURCHARGED
960 minute summer	S27	480	186.870	0.020	0.5	0.0141	0.0000	OK
Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
960 minute summer	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	4.6	1.259	0.140	0.0263	
960 minute summer	S17	S5.004	S18	5.0	0.473	0.570	0.3623	
960 minute summer	S18	S5.005	S19	5.2	0.540	0.593	0.7109	
960 minute summer	S19	S5.006	S20	5.1	0.290	0.581	0.1003	
960 minute summer	S20	Hydro-Brake®	OUTFALL	5.0				248.7
960 minute summer	S21	S6.000	S22	2.6	0.203	0.146	0.4786	
960 minute summer	S22	Orifice	S16	3.3				
960 minute summer	S23	S7.000	S24	0.5	0.358	0.083	0.0432	
960 minute summer	S24	S7.001	S25	1.0	0.564	0.166	0.1058	
960 minute summer	S25	S7.002	S26	1.5	0.342	0.083	0.3125	
960 minute summer	S26	S7.003	S19	1.9	0.403	0.109	0.0440	
960 minute summer	S27	S8.000	S25	0.5	0.465	0.083	0.0458	

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	555	187.029	0.039	4.3	0.0230	0.0000	OK
960 minute winter	S17	690	186.802	0.202	5.1	18.3599	0.0000	SURCHARGED
960 minute winter	S18	705	186.790	0.241	5.5	21.7962	0.0000	SURCHARGED
960 minute winter	S19	660	186.765	0.505	7.3	14.3303	0.0000	SURCHARGED
960 minute winter	S20	660	186.758	0.512	5.0	0.5792	0.0000	SURCHARGED
960 minute winter	OUTFALL	15	186.184	0.000	5.0	0.0000	0.0000	OK
960 minute winter	S21	660	187.610	0.110	2.7	16.6264	0.0000	OK
960 minute winter	S22	660	187.609	0.440	7.8	67.7743	0.0000	SURCHARGED
960 minute winter	S23	450	186.868	0.017	0.4	0.0126	0.0000	OK
960 minute winter	S24	660	186.766	0.084	0.8	0.0420	0.0000	OK
960 minute winter	S25	660	186.765	0.304	1.2	0.0484	0.0000	SURCHARGED
960 minute winter	S26	660	186.765	0.480	1.6	0.1867	0.0000	SURCHARGED
960 minute winter	S27	450	186.868	0.018	0.4	0.0127	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
960 minute winter	S13	S5.000	S14	0.3	0.610	0.027	0.0077	
960 minute winter	S14	S5.001	S15	0.3	0.436	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	4.3	1.241	0.133	0.0323	
960 minute winter	S17	S5.004	S18	4.5	0.460	0.512	0.3623	
960 minute winter	S18	S5.005	S19	5.1	0.549	0.586	0.7109	
960 minute winter	S19	S5.006	S20	5.0	0.291	0.575	0.1003	
960 minute winter	S20	Hydro-Brake®	OUTFALL	5.0				274.1
960 minute winter	S21	S6.000	S22	2.0	0.163	0.115	0.5238	
960 minute winter	S22	Orifice	S16	3.4				
960 minute winter	S23	S7.000	S24	0.4	0.335	0.066	0.0638	
960 minute winter	S24	S7.001	S25	0.8	0.529	0.133	0.1266	
960 minute winter	S25	S7.002	S26	1.2	0.342	0.067	0.3125	
960 minute winter	S26	S7.003	S19	1.6	0.484	0.088	0.0440	
960 minute winter	S27	S8.000	S25	0.4	0.435	0.066	0.0661	

Results for 100 year 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	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	780	187.027	0.037	4.0	0.0221	0.0000	OK
1440 minute summer	S17	900	186.723	0.123	4.7	11.2119	0.0000	OK
1440 minute summer	S18	900	186.714	0.165	5.4	14.9784	0.0000	SURCHARGED
1440 minute summer	S19	870	186.690	0.430	7.0	13.5876	0.0000	SURCHARGED
1440 minute summer	S20	870	186.683	0.437	5.0	0.4941	0.0000	SURCHARGED
1440 minute summer	OUTFALL	30	186.184	0.000	5.0	0.0000	0.0000	OK
1440 minute summer	S21	870	187.559	0.059	2.0	8.8878	0.0000	OK
1440 minute summer	S22	870	187.558	0.389	7.5	59.9312	0.0000	SURCHARGED
1440 minute summer	S23	750	186.868	0.017	0.4	0.0126	0.0000	OK
1440 minute summer	S24	720	186.707	0.025	0.8	0.0124	0.0000	OK
1440 minute summer	S25	870	186.690	0.229	1.2	0.0364	0.0000	SURCHARGED
1440 minute summer	S26	870	186.690	0.405	1.6	0.1575	0.0000	SURCHARGED
1440 minute summer	S27	750	186.868	0.018	0.4	0.0127	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	4.0	1.216	0.123	0.0240	
1440 minute summer	S17	S5.004	S18	4.5	0.447	0.514	0.3406	
1440 minute summer	S18	S5.005	S19	4.8	0.530	0.550	0.7109	
1440 minute summer	S19	S5.006	S20	5.0	0.289	0.573	0.1003	
1440 minute summer	S20	Hydro-Brake®	OUTFALL	5.0				275.4
1440 minute summer	S21	S6.000	S22	1.9	0.157	0.109	0.3999	
1440 minute summer	S22	Orifice	S16	3.1				
1440 minute summer	S23	S7.000	S24	0.4	0.335	0.066	0.0204	
1440 minute summer	S24	S7.001	S25	0.8	0.531	0.133	0.0795	
1440 minute summer	S25	S7.002	S26	1.2	0.333	0.066	0.3125	
1440 minute summer	S26	S7.003	S19	1.5	0.275	0.087	0.0440	
1440 minute summer	S27	S8.000	S25	0.4	0.435	0.066	0.0157	

Results for 100 year 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	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	840	187.027	0.037	3.9	0.0218	0.0000	OK
1440 minute winter	S17	960	186.726	0.126	4.4	11.4506	0.0000	OK
1440 minute winter	S18	960	186.717	0.168	4.9	15.1945	0.0000	SURCHARGED
1440 minute winter	S19	930	186.691	0.431	6.3	13.6232	0.0000	SURCHARGED
1440 minute winter	S20	930	186.684	0.438	5.0	0.4954	0.0000	SURCHARGED
1440 minute winter	OUTFALL	30	186.184	0.000	5.0	0.0000	0.0000	OK
1440 minute winter	S21	930	187.565	0.065	1.5	9.7911	0.0000	OK
1440 minute winter	S22	930	187.564	0.395	5.7	60.8381	0.0000	SURCHARGED
1440 minute winter	S23	690	186.865	0.015	0.3	0.0109	0.0000	OK
1440 minute winter	S24	690	186.704	0.022	0.6	0.0108	0.0000	OK
1440 minute winter	S25	930	186.691	0.230	0.9	0.0366	0.0000	SURCHARGED
1440 minute winter	S26	930	186.691	0.406	1.2	0.1579	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	3.9	1.208	0.120	0.0236	
1440 minute winter	S17	S5.004	S18	4.2	0.451	0.476	0.3436	
1440 minute winter	S18	S5.005	S19	4.7	0.541	0.535	0.7109	
1440 minute winter	S19	S5.006	S20	5.0	0.290	0.572	0.1003	
1440 minute winter	S20	Hydro-Brake®	OUTFALL	5.0				317.4
1440 minute winter	S21	S6.000	S22	1.5	0.122	0.084	0.4146	
1440 minute winter	S22	Orifice	S16	3.2				
1440 minute winter	S23	S7.000	S24	0.3	0.308	0.050	0.0167	
1440 minute winter	S24	S7.001	S25	0.6	0.490	0.099	0.0772	
1440 minute winter	S25	S7.002	S26	0.9	0.342	0.050	0.3125	
1440 minute winter	S26	S7.003	S19	1.2	0.322	0.067	0.0440	
1440 minute winter	S27	S8.000	S25	0.3	0.400	0.050	0.0128	

Results for 100 year +40% CC 15 minute summer. 255 minute analysis at 1 minute timestep. Mass balance: 99.87%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	S13	10	188.635	0.060	7.2	0.0159	0.0000	OK
15 minute summer	S14	12	188.175	0.120	7.2	0.0191	0.0000	SURCHARGED
15 minute summer	S15	11	188.007	0.472	16.1	0.2050	0.0000	SURCHARGED
15 minute summer	S16	11	187.105	0.115	24.9	0.0681	0.0000	OK
15 minute summer	S17	16	186.763	0.163	42.0	14.8376	0.0000	SURCHARGED
15 minute summer	S18	28	186.729	0.180	27.5	16.3482	0.0000	SURCHARGED
15 minute summer	S19	16	186.754	0.494	43.3	14.3128	0.0000	SURCHARGED
15 minute summer	S20	16	186.748	0.501	7.2	0.5672	0.0000	SURCHARGED
15 minute summer	OUTFALL	1	186.184	0.000	5.0	0.0000	0.0000	OK
15 minute summer	S21	15	187.594	0.094	44.3	14.2321	0.0000	OK
15 minute summer	S22	34	187.549	0.380	129.5	58.5119	0.0000	SURCHARGED
15 minute summer	S23	10	187.350	0.500	8.4	0.3595	0.8889	FLOOD
15 minute summer	S24	11	187.334	0.652	13.0	0.3266	0.0000	FLOOD RISK
15 minute summer	S25	13	186.870	0.409	17.0	0.0650	0.0000	SURCHARGED
15 minute summer	S26	16	186.769	0.484	23.8	0.1882	0.0000	SURCHARGED
15 minute summer	S27	12	187.107	0.257	8.4	0.1849	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	1.451	0.649	0.0932	
15 minute summer	S14	S5.001	S15	6.7	0.920	0.604	0.1220	
15 minute summer	S15	S5.002	S16	14.0	1.795	1.265	0.1040	
15 minute summer	S16	S5.003	S17	24.9	1.865	0.764	0.0970	
15 minute summer	S17	S5.004	S18	11.6	0.759	1.324	0.3623	
15 minute summer	S18	S5.005	S19	-7.4	0.461	-0.848	0.7109	
15 minute summer	S19	S5.006	S20	7.2	0.420	0.816	0.1003	
15 minute summer	S20	Hydro-Brake®	OUTFALL	5.0				73.8
15 minute summer	S21	S6.000	S22	11.1	0.694	0.628	0.4871	
15 minute summer	S22	Orifice	S16	3.1				
15 minute summer	S23	S7.000	S24	4.6	0.606	0.758	0.1318	
15 minute summer	S24	S7.001	S25	9.8	1.247	1.615	0.1336	
15 minute summer	S25	S7.002	S26	15.8	0.899	0.895	0.3125	
15 minute summer	S26	S7.003	S19	22.8	1.295	1.284	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: 99.61%

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	188.236	0.181	7.5	0.0287	0.0000	SURCHARGED
15 minute winter	S15	12	188.048	0.513	16.6	0.2225	0.0000	SURCHARGED
15 minute winter	S16	11	187.108	0.118	25.7	0.0699	0.0000	OK
15 minute winter	S17	17	186.786	0.186	43.8	16.9003	0.0000	SURCHARGED
15 minute winter	S18	25	186.758	0.209	31.4	18.9183	0.0000	SURCHARGED
15 minute winter	S19	15	186.882	0.622	45.0	14.5199	0.0000	SURCHARGED
15 minute winter	S20	15	186.876	0.630	6.6	0.7125	0.0000	SURCHARGED
15 minute winter	OUTFALL	1	186.184	0.000	5.0	0.0000	0.0000	OK
15 minute winter	S21	16	187.608	0.107	46.5	16.2844	0.0000	OK
15 minute winter	S22	28	187.581	0.411	137.0	63.3808	0.0000	SURCHARGED
15 minute winter	S23	10	187.350	0.500	8.8	0.3595	1.2012	FLOOD
15 minute winter	S24	11	187.344	0.662	12.8	0.3316	0.0000	FLOOD RISK
15 minute winter	S25	15	186.970	0.509	17.2	0.0810	0.0000	SURCHARGED
15 minute winter	S26	15	186.906	0.621	24.3	0.2416	0.0000	SURCHARGED
15 minute winter	S27	12	187.161	0.311	8.8	0.2235	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	1.455	0.678	0.0981	
15 minute winter	S14	S5.001	S15	6.5	0.916	0.583	0.1220	
15 minute winter	S15	S5.002	S16	14.4	1.841	1.297	0.1030	
15 minute winter	S16	S5.003	S17	25.7	1.872	0.787	0.0995	
15 minute winter	S17	S5.004	S18	12.0	0.761	1.371	0.3623	
15 minute winter	S18	S5.005	S19	-11.7	-0.667	-1.338	0.7109	
15 minute winter	S19	S5.006	S20	6.6	0.438	0.750	0.1003	
15 minute winter	S20	Hydro-Brake®	OUTFALL	5.0				74.3
15 minute winter	S21	S6.000	S22	11.4	0.710	0.643	0.5188	
15 minute winter	S22	Orifice	S16	3.2				
15 minute winter	S23	S7.000	S24	4.6	0.629	0.758	0.1318	
15 minute winter	S24	S7.001	S25	9.9	1.259	1.632	0.1336	
15 minute winter	S25	S7.002	S26	15.8	0.899	0.896	0.3125	
15 minute winter	S26	S7.003	S19	23.1	1.311	1.300	0.0440	
15 minute winter	S27	S8.000	S25	7.4	0.942	1.221	0.1338	

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

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
30 minute summer	S13	17	188.632	0.057	6.5	0.0152	0.0000	OK
30 minute summer	S14	19	188.121	0.066	6.5	0.0105	0.0000	OK
30 minute summer	S15	19	187.942	0.407	14.8	0.1768	0.0000	SURCHARGED
30 minute summer	S16	19	187.099	0.109	23.6	0.0648	0.0000	OK
30 minute summer	S17	37	186.821	0.221	39.6	20.0756	0.0000	SURCHARGED
30 minute summer	S18	35	186.812	0.263	33.6	23.8146	0.0000	SURCHARGED
30 minute summer	S19	23	186.935	0.675	41.8	14.6054	0.0000	SURCHARGED
30 minute summer	S20	23	186.930	0.684	6.8	0.7738	0.0000	SURCHARGED
30 minute summer	OUTFALL	1	186.184	0.000	5.0	0.0000	0.0000	OK
30 minute summer	S21	37	187.630	0.130	39.9	19.6922	0.0000	OK
30 minute summer	S22	33	187.632	0.463	121.2	71.2589	0.0000	SURCHARGED
30 minute summer	S23	18	187.350	0.500	7.5	0.3595	0.7411	FLOOD
30 minute summer	S24	19	187.325	0.643	11.7	0.3221	0.0000	FLOOD RISK
30 minute summer	S25	22	187.017	0.556	15.7	0.0884	0.0000	SURCHARGED
30 minute summer	S26	23	186.958	0.673	22.0	0.2617	0.0000	SURCHARGED
30 minute summer	S27	20	187.093	0.243	7.5	0.1746	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	0.589	0.0750	
30 minute summer	S14	S5.001	S15	6.2	0.898	0.561	0.1036	
30 minute summer	S15	S5.002	S16	13.5	1.723	1.214	0.1030	
30 minute summer	S16	S5.003	S17	23.5	1.851	0.722	0.0925	
30 minute summer	S17	S5.004	S18	11.8	0.739	1.344	0.3623	
30 minute summer	S18	S5.005	S19	-12.8	-0.725	-1.456	0.7109	
30 minute summer	S19	S5.006	S20	6.8	0.384	0.771	0.1003	
30 minute summer	S20	Hydro-Brake®	OUTFALL	5.0				77.2
30 minute summer	S21	S6.000	S22	11.1	0.698	0.630	0.5639	
30 minute summer	S22	Orifice	S16	3.5				
30 minute summer	S23	S7.000	S24	4.2	0.586	0.702	0.1318	
30 minute summer	S24	S7.001	S25	9.4	1.205	1.561	0.1336	
30 minute summer	S25	S7.002	S26	14.6	0.827	0.823	0.3125	
30 minute summer	S26	S7.003	S19	20.9	1.188	1.178	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: 99.47%

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	0.0142	0.0000	OK
30 minute winter	S14	19	188.107	0.052	5.8	0.0083	0.0000	OK
30 minute winter	S15	19	187.858	0.323	13.5	0.1401	0.0000	SURCHARGED
30 minute winter	S16	19	187.095	0.105	22.4	0.0624	0.0000	OK
30 minute winter	S17	39	186.863	0.263	36.8	23.8772	0.0000	SURCHARGED
30 minute winter	S18	34	186.856	0.307	37.7	27.8197	0.0000	SURCHARGED
30 minute winter	S19	23	187.084	0.824	38.3	14.8451	0.0000	SURCHARGED
30 minute winter	S20	23	187.080	0.833	7.9	0.9426	0.0000	SURCHARGED
30 minute winter	OUTFALL	1	186.184	0.000	5.0	0.0000	0.0000	OK
30 minute winter	S21	37	187.666	0.166	36.0	25.1829	0.0000	SURCHARGED
30 minute winter	S22	31	187.720	0.551	111.6	77.2941	0.0000	SURCHARGED
30 minute winter	S23	18	187.350	0.500	6.8	0.3595	1.0578	FLOOD
30 minute winter	S24	22	187.334	0.652	11.0	0.3265	0.0000	FLOOD RISK
30 minute winter	S25	23	187.163	0.702	14.9	0.1117	0.0000	SURCHARGED
30 minute winter	S26	23	187.108	0.823	20.6	0.3203	0.0000	SURCHARGED
30 minute winter	S27	23	187.226	0.376	6.8	0.2706	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	0.523	0.0649	
30 minute winter	S14	S5.001	S15	5.7	0.854	0.516	0.0934	
30 minute winter	S15	S5.002	S16	12.7	1.624	1.144	0.1041	
30 minute winter	S16	S5.003	S17	22.4	1.836	0.689	0.0889	
30 minute winter	S17	S5.004	S18	11.8	0.753	1.350	0.3623	
30 minute winter	S18	S5.005	S19	-15.3	-0.871	-1.749	0.7109	
30 minute winter	S19	S5.006	S20	7.9	0.450	0.903	0.1003	
30 minute winter	S20	Hydro-Brake®	OUTFALL	5.0				76.5
30 minute winter	S21	S6.000	S22	10.9	0.694	0.615	0.5871	
30 minute winter	S22	Orifice	S16	3.8				
30 minute winter	S23	S7.000	S24	4.2	0.566	0.701	0.1318	
30 minute winter	S24	S7.001	S25	9.2	1.174	1.521	0.1336	
30 minute winter	S25	S7.002	S26	13.9	0.789	0.786	0.3125	
30 minute winter	S26	S7.003	S19	19.6	1.127	1.107	0.0440	
30 minute winter	S27	S8.000	S25	6.2	0.858	1.025	0.1338	

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

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute summer	S13	33	188.623	0.048	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	33	187.626	0.091	11.2	0.0396	0.0000	OK
60 minute summer	S16	33	187.086	0.096	19.9	0.0570	0.0000	OK
60 minute summer	S17	67	186.901	0.301	31.9	27.3953	0.0000	SURCHARGED
60 minute summer	S18	65	186.891	0.342	33.8	30.9909	0.0000	SURCHARGED
60 minute summer	S19	38	187.033	0.773	33.8	14.7637	0.0000	SURCHARGED
60 minute summer	S20	38	187.029	0.783	7.3	0.8851	0.0000	SURCHARGED
60 minute summer	OUTFALL	1	186.184	0.000	5.0	0.0000	0.0000	OK
60 minute summer	S21	63	187.716	0.216	29.7	32.7171	0.0000	SURCHARGED
60 minute summer	S22	48	187.756	0.587	93.4	77.4390	0.0000	SURCHARGED
60 minute summer	S23	35	187.350	0.500	5.6	0.3595	0.2103	FLOOD
60 minute summer	S24	37	187.310	0.628	9.5	0.3144	0.0000	FLOOD RISK
60 minute summer	S25	38	187.112	0.651	13.2	0.1034	0.0000	SURCHARGED
60 minute summer	S26	38	187.057	0.772	17.8	0.3002	0.0000	SURCHARGED
60 minute summer	S27	38	187.161	0.311	5.6	0.2235	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	0.0859	
60 minute summer	S15	S5.002	S16	11.1	1.542	1.000	0.1019	
60 minute summer	S16	S5.003	S17	19.9	1.795	0.609	0.0805	
60 minute summer	S17	S5.004	S18	11.5	0.678	1.307	0.3623	
60 minute summer	S18	S5.005	S19	-14.0	-0.794	-1.593	0.7109	
60 minute summer	S19	S5.006	S20	7.3	0.417	0.837	0.1003	
60 minute summer	S20	Hydro-Brake®	OUTFALL	5.0				82.4
60 minute summer	S21	S6.000	S22	10.4	0.659	0.586	0.5871	
60 minute summer	S22	Orifice	S16	3.9				
60 minute summer	S23	S7.000	S24	4.1	0.560	0.681	0.1318	
60 minute summer	S24	S7.001	S25	8.4	1.069	1.385	0.1336	
60 minute summer	S25	S7.002	S26	12.2	0.693	0.690	0.3125	
60 minute summer	S26	S7.003	S19	17.0	0.987	0.958	0.0440	
60 minute summer	S27	S8.000	S25	5.5	0.842	0.903	0.1338	

Results for 100 year +40% CC 60 minute winter. 300 minute analysis at 1 minute timestep. Mass balance: 99.46%

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	33	187.609	0.074	9.1	0.0319	0.0000	OK
60 minute winter	S16	33	187.076	0.086	16.9	0.0510	0.0000	OK
60 minute winter	S17	69	186.961	0.361	26.6	32.7861	0.0000	SURCHARGED
60 minute winter	S18	64	186.950	0.401	32.0	36.3053	0.0000	SURCHARGED
60 minute winter	S19	39	187.094	0.834	28.1	14.8612	0.0000	SURCHARGED
60 minute winter	S20	40	187.089	0.843	7.3	0.9533	0.0000	SURCHARGED
60 minute winter	OUTFALL	1	186.184	0.000	5.0	0.0000	0.0000	OK
60 minute winter	S21	62	187.799	0.298	33.5	45.2231	0.0000	SURCHARGED
60 minute winter	S22	43	188.240	1.071	77.1	79.3858	0.2712	FLOOD
60 minute winter	S23	36	187.350	0.500	4.5	0.3595	0.3405	FLOOD
60 minute winter	S24	38	187.326	0.644	8.0	0.3228	0.0000	FLOOD RISK
60 minute winter	S25	39	187.166	0.705	11.5	0.1121	0.0000	SURCHARGED
60 minute winter	S26	39	187.116	0.831	15.3	0.3234	0.0000	SURCHARGED
60 minute winter	S27	39	187.222	0.372	4.5	0.2672	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 winter	S13	S5.000	S14	3.9	1.268	0.351	0.0480	
60 minute winter	S14	S5.001	S15	3.9	0.841	0.351	0.0717	
60 minute winter	S15	S5.002	S16	9.1	1.523	0.819	0.0794	
60 minute winter	S16	S5.003	S17	16.9	1.738	0.519	0.0849	
60 minute winter	S17	S5.004	S18	11.0	0.668	1.252	0.3623	
60 minute winter	S18	S5.005	S19	-14.5	-0.822	-1.649	0.7109	
60 minute winter	S19	S5.006	S20	7.3	0.417	0.837	0.1003	
60 minute winter	S20	Hydro-Brake®	OUTFALL	5.0				80.6
60 minute winter	S21	S6.000	S22	-21.6	-1.224	-1.219	0.5871	
60 minute winter	S22	Orifice	S16	5.3				
60 minute winter	S23	S7.000	S24	3.7	0.550	0.616	0.1318	
60 minute winter	S24	S7.001	S25	7.1	0.913	1.183	0.1336	
60 minute winter	S25	S7.002	S26	10.8	0.614	0.612	0.3125	
60 minute winter	S26	S7.003	S19	14.4	0.992	0.808	0.0440	
60 minute winter	S27	S8.000	S25	4.5	0.816	0.748	0.1338	

Results for 100 year +40% CC 120 minute summer. 360 minute analysis at 2 minute timestep. Mass balance: 99.47%

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	64	187.597	0.062	7.2	0.0268	0.0000	OK
120 minute summer	S16	64	187.067	0.077	14.2	0.0455	0.0000	OK
120 minute summer	S17	128	186.979	0.379	21.9	34.4297	0.0000	SURCHARGED
120 minute summer	S18	126	186.966	0.417	26.4	37.8114	0.0000	SURCHARGED
120 minute summer	S19	70	186.965	0.705	22.9	14.6540	0.0000	SURCHARGED
120 minute summer	S20	70	186.960	0.714	6.3	0.8073	0.0000	SURCHARGED
120 minute summer	OUTFALL	2	186.184	0.000	5.0	0.0000	0.0000	OK
120 minute summer	S21	122	187.809	0.309	25.5	46.8248	0.0000	SURCHARGED
120 minute summer	S22	76	188.034	0.865	62.1	78.5550	0.0000	FLOOD RISK
120 minute summer	S23	68	187.201	0.351	3.6	0.2525	0.0000	FLOOD RISK
120 minute summer	S24	70	187.165	0.482	6.5	0.2417	0.0000	SURCHARGED
120 minute summer	S25	70	187.022	0.561	9.1	0.0892	0.0000	SURCHARGED
120 minute summer	S26	70	186.982	0.697	11.8	0.2712	0.0000	SURCHARGED
120 minute summer	S27	70	187.055	0.205	3.6	0.1474	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	3.1	1.194	0.279	0.0405	
120 minute summer	S14	S5.001	S15	3.1	0.814	0.279	0.0595	
120 minute summer	S15	S5.002	S16	7.2	1.461	0.648	0.0656	
120 minute summer	S16	S5.003	S17	14.2	1.673	0.435	0.0816	
120 minute summer	S17	S5.004	S18	9.8	0.610	1.121	0.3623	
120 minute summer	S18	S5.005	S19	-11.3	-0.640	-1.284	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				92.5
120 minute summer	S21	S6.000	S22	-17.2	-0.980	-0.975	0.5871	
120 minute summer	S22	Orifice	S16	4.8				
120 minute summer	S23	S7.000	S24	3.2	0.542	0.535	0.1318	
120 minute summer	S24	S7.001	S25	5.5	0.830	0.911	0.1336	
120 minute summer	S25	S7.002	S26	8.2	0.486	0.462	0.3125	
120 minute summer	S26	S7.003	S19	11.3	0.829	0.636	0.0440	
120 minute summer	S27	S8.000	S25	3.6	0.767	0.602	0.1338	

Results for 100 year +40% CC 120 minute winter. 360 minute analysis at 2 minute timestep. Mass balance: 99.38%

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	187.587	0.052	5.6	0.0228	0.0000	OK
120 minute winter	S16	122	187.387	0.397	12.1	0.2357	0.0000	FLOOD RISK
120 minute winter	S17	122	187.381	0.781	17.9	41.2550	0.0000	FLOOD RISK
120 minute winter	S18	122	187.367	0.818	21.5	41.0584	0.0000	SURCHARGED
120 minute winter	S19	124	187.340	1.079	18.9	15.2584	0.0000	FLOOD RISK
120 minute winter	S20	124	187.334	1.088	5.6	1.2302	0.0000	FLOOD RISK
120 minute winter	OUTFALL	2	186.184	0.000	5.0	0.0000	0.0000	OK
120 minute winter	S21	120	187.906	0.406	32.8	61.5058	0.0000	SURCHARGED
120 minute winter	S22	74	188.240	1.071	47.9	79.3858	0.9104	FLOOD
120 minute winter	S23	124	187.339	0.489	2.8	0.3518	0.0000	FLOOD RISK
120 minute winter	S24	124	187.340	0.657	5.2	0.3294	0.0000	FLOOD RISK
120 minute winter	S25	124	187.340	0.879	7.4	0.1397	0.0000	FLOOD RISK
120 minute winter	S26	124	187.340	1.054	9.7	0.4102	0.0000	FLOOD RISK
120 minute winter	S27	124	187.340	0.490	2.8	0.3521	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	2.4	1.114	0.216	0.0336	
120 minute winter	S14	S5.001	S15	2.4	0.768	0.216	0.0490	
120 minute winter	S15	S5.002	S16	5.6	1.382	0.504	0.0591	
120 minute winter	S16	S5.003	S17	12.1	1.606	0.371	0.1282	
120 minute winter	S17	S5.004	S18	9.1	0.598	1.035	0.3623	
120 minute winter	S18	S5.005	S19	-9.5	-0.541	-1.086	0.7109	
120 minute winter	S19	S5.006	S20	5.6	0.316	0.634	0.1003	
120 minute winter	S20	Hydro-Brake®	OUTFALL	5.0				87.2
120 minute winter	S21	S6.000	S22	-21.5	-1.223	-1.217	0.5871	
120 minute winter	S22	Orifice	S16	5.3				
120 minute winter	S23	S7.000	S24	2.6	0.533	0.428	0.1318	
120 minute winter	S24	S7.001	S25	4.8	0.814	0.788	0.1336	
120 minute winter	S25	S7.002	S26	7.0	0.521	0.395	0.3125	
120 minute winter	S26	S7.003	S19	9.5	0.836	0.533	0.0440	
120 minute winter	S27	S8.000	S25	2.8	0.730	0.461	0.1338	

Results for 100 year +40% CC 180 minute summer. 420 minute analysis at 4 minute timestep. Mass balance: 99.43%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
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	96	187.586	0.051	5.3	0.0220	0.0000	OK
180 minute summer	S16	96	187.057	0.067	11.4	0.0397	0.0000	OK
180 minute summer	S17	188	187.028	0.428	17.1	38.8952	0.0000	SURCHARGED
180 minute summer	S18	184	187.017	0.468	20.2	40.8389	0.0000	SURCHARGED
180 minute summer	S19	180	186.999	0.739	17.8	14.7089	0.0000	SURCHARGED
180 minute summer	S20	180	186.994	0.748	5.4	0.8461	0.0000	SURCHARGED
180 minute summer	OUTFALL	4	186.184	0.000	5.0	0.0000	0.0000	OK
180 minute summer	S21	180	187.839	0.339	24.9	51.3264	0.0000	SURCHARGED
180 minute summer	S22	108	188.026	0.857	46.2	78.5262	0.0000	FLOOD RISK
180 minute summer	S23	100	187.068	0.218	2.7	0.1566	0.0000	FLOOD RISK
180 minute summer	S24	100	187.042	0.359	5.4	0.1801	0.0000	SURCHARGED
180 minute summer	S25	180	186.999	0.538	7.2	0.0856	0.0000	SURCHARGED
180 minute summer	S26	180	186.999	0.714	9.3	0.2779	0.0000	SURCHARGED
180 minute summer	S27	180	187.000	0.149	2.7	0.1075	0.0000	SURCHARGED
Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
180 minute summer	S13	S5.000	S14	2.3	1.102	0.207	0.0326	
180 minute summer	S14	S5.001	S15	2.3	0.766	0.207	0.0471	
180 minute summer	S15	S5.002	S16	5.3	1.364	0.477	0.0517	
180 minute summer	S16	S5.003	S17	11.4	1.590	0.349	0.0821	
180 minute summer	S17	S5.004	S18	8.6	0.565	0.977	0.3623	
180 minute summer	S18	S5.005	S19	-8.5	0.550	-0.968	0.7109	
180 minute summer	S19	S5.006	S20	5.4	0.309	0.619	0.1003	
180 minute summer	S20	Hydro-Brake®	OUTFALL	5.0				102.2
180 minute summer	S21	S6.000	S22	-17.0	-0.967	-0.962	0.5871	
180 minute summer	S22	Orifice	S16	4.8				
180 minute summer	S23	S7.000	S24	2.7	0.529	0.441	0.1318	
180 minute summer	S24	S7.001	S25	4.5	0.784	0.753	0.1336	
180 minute summer	S25	S7.002	S26	6.6	0.460	0.374	0.3125	
180 minute summer	S26	S7.003	S19	9.1	0.751	0.511	0.0440	
180 minute summer	S27	S8.000	S25	2.7	0.696	0.442	0.1338	

Results for 100 year +40% CC 180 minute winter. 420 minute analysis at 4 minute timestep. Mass balance: 99.42%

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	187.579	0.044	4.1	0.0189	0.0000	OK
180 minute winter	S16	168	187.408	0.418	10.5	0.2483	0.0000	FLOOD RISK
180 minute winter	S17	152	187.400	0.800	14.3	41.2722	2.9613	FLOOD
180 minute winter	S18	164	187.389	0.839	14.9	41.0722	0.0000	SURCHARGED
180 minute winter	S19	164	187.356	1.096	16.2	15.2846	0.0000	FLOOD RISK
180 minute winter	S20	160	187.350	1.104	5.4	1.2484	0.0000	FLOOD RISK
180 minute winter	OUTFALL	4	186.184	0.000	5.0	0.0000	0.0000	OK
180 minute winter	S21	180	187.956	0.456	28.1	69.1521	0.0000	SURCHARGED
180 minute winter	S22	108	188.151	0.982	34.6	79.0279	0.0000	FLOOD RISK
180 minute winter	S23	152	187.350	0.500	2.0	0.3595	2.0218	FLOOD
180 minute winter	S24	160	187.354	0.672	4.0	0.3364	0.0000	FLOOD RISK
180 minute winter	S25	160	187.354	0.893	5.5	0.1421	0.0000	FLOOD RISK
180 minute winter	S26	160	187.356	1.071	7.3	0.4165	0.0000	FLOOD RISK
180 minute winter	S27	152	187.350	0.500	2.0	0.3595	2.1774	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	0.726	0.162	0.0390	
180 minute winter	S15	S5.002	S16	4.1	1.280	0.369	0.0591	
180 minute winter	S16	S5.003	S17	10.4	1.530	0.321	0.1282	
180 minute winter	S17	S5.004	S18	8.0	0.553	0.915	0.3623	
180 minute winter	S18	S5.005	S19	6.6	0.545	0.758	0.7109	
180 minute winter	S19	S5.006	S20	5.4	0.305	0.612	0.1003	
180 minute winter	S20	Hydro-Brake®	OUTFALL	5.0				100.3
180 minute winter	S21	S6.000	S22	-19.2	-1.092	-1.087	0.5871	
180 minute winter	S22	Orifice	S16	5.1				
180 minute winter	S23	S7.000	S24	2.0	0.499	0.329	0.1318	
180 minute winter	S24	S7.001	S25	3.7	0.753	0.614	0.1336	
180 minute winter	S25	S7.002	S26	5.3	0.478	0.300	0.3125	
180 minute winter	S26	S7.003	S19	7.2	0.781	0.403	0.0440	
180 minute winter	S27	S8.000	S25	2.0	0.664	0.331	0.1338	

Results for 100 year +40% CC 240 minute summer. 480 minute analysis at 4 minute timestep. Mass balance: 99.41%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
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	187.580	0.045	4.4	0.0196	0.0000	OK
240 minute summer	S16	248	187.270	0.280	10.0	0.1663	0.0000	SURCHARGED
240 minute summer	S17	248	187.265	0.665	14.7	41.1491	0.0000	FLOOD RISK
240 minute summer	S18	248	187.252	0.703	16.2	40.9862	0.0000	SURCHARGED
240 minute summer	S19	248	187.227	0.967	15.1	15.0767	0.0000	FLOOD RISK
240 minute summer	S20	248	187.222	0.976	5.3	1.1036	0.0000	FLOOD RISK
240 minute summer	OUTFALL	4	186.184	0.000	5.0	0.0000	0.0000	OK
240 minute summer	S21	224	187.843	0.343	22.1	52.0301	0.0000	SURCHARGED
240 minute summer	S22	140	187.956	0.787	36.7	78.2427	0.0000	FLOOD RISK
240 minute summer	S23	248	187.227	0.377	2.2	0.2713	0.0000	FLOOD RISK
240 minute summer	S24	248	187.227	0.545	4.2	0.2731	0.0000	FLOOD RISK
240 minute summer	S25	248	187.227	0.766	5.9	0.1218	0.0000	FLOOD RISK
240 minute summer	S26	248	187.227	0.942	7.8	0.3664	0.0000	FLOOD RISK
240 minute summer	S27	248	187.227	0.377	2.2	0.2711	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	1.9	1.045	0.171	0.0283	
240 minute summer	S14	S5.001	S15	1.9	0.728	0.170	0.0407	
240 minute summer	S15	S5.002	S16	4.4	1.301	0.394	0.0560	
240 minute summer	S16	S5.003	S17	10.0	1.541	0.307	0.1282	
240 minute summer	S17	S5.004	S18	7.6	0.532	0.863	0.3623	
240 minute summer	S18	S5.005	S19	6.9	0.555	0.790	0.7109	
240 minute summer	S19	S5.006	S20	5.3	0.302	0.606	0.1003	
240 minute summer	S20	Hydro-Brake®	OUTFALL	5.0				110.9
240 minute summer	S21	S6.000	S22	-15.1	-0.856	-0.852	0.5871	
240 minute summer	S22	Orifice	S16	4.6				
240 minute summer	S23	S7.000	S24	2.1	0.506	0.344	0.1318	
240 minute summer	S24	S7.001	S25	3.8	0.726	0.630	0.1336	
240 minute summer	S25	S7.002	S26	5.7	0.459	0.321	0.3125	
240 minute summer	S26	S7.003	S19	7.6	0.711	0.429	0.0440	
240 minute summer	S27	S8.000	S25	2.2	0.661	0.363	0.1338	

Results for 100 year +40% CC 240 minute winter. 480 minute analysis at 4 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
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	124	187.574	0.039	3.3	0.0167	0.0000	OK
240 minute winter	S16	184	187.409	0.419	9.2	0.2486	0.0000	FLOOD RISK
240 minute winter	S17	184	187.400	0.800	12.4	41.2722	4.4822	FLOOD
240 minute winter	S18	184	187.389	0.840	11.7	41.0725	0.0000	SURCHARGED
240 minute winter	S19	184	187.356	1.096	13.5	15.2851	0.0000	FLOOD RISK
240 minute winter	S20	184	187.350	1.104	5.3	1.2488	0.0000	FLOOD RISK
240 minute winter	OUTFALL	4	186.184	0.000	5.0	0.0000	0.0000	OK
240 minute winter	S21	236	187.972	0.472	23.4	71.5098	0.0000	SURCHARGED
240 minute winter	S22	140	188.012	0.843	28.0	78.4679	0.0000	FLOOD RISK
240 minute winter	S23	184	187.350	0.500	1.6	0.3595	3.2762	FLOOD
240 minute winter	S24	188	187.354	0.672	3.2	0.3364	0.0000	FLOOD RISK
240 minute winter	S25	184	187.355	0.894	4.6	0.1421	0.0000	FLOOD RISK
240 minute winter	S26	184	187.356	1.071	6.1	0.4166	0.0000	FLOOD RISK
240 minute winter	S27	184	187.350	0.500	1.6	0.3595	3.5593	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	0.670	0.126	0.0329	
240 minute winter	S15	S5.002	S16	3.3	1.210	0.297	0.0602	
240 minute winter	S16	S5.003	S17	9.2	1.480	0.282	0.1282	
240 minute winter	S17	S5.004	S18	7.2	0.527	0.823	0.3623	
240 minute winter	S18	S5.005	S19	6.4	0.567	0.733	0.7109	
240 minute winter	S19	S5.006	S20	5.3	0.300	0.602	0.1003	
240 minute winter	S20	Hydro-Brake®	OUTFALL	5.0				113.5
240 minute winter	S21	S6.000	S22	-15.8	-0.900	-0.896	0.5871	
240 minute winter	S22	Orifice	S16	4.7				
240 minute winter	S23	S7.000	S24	1.6	0.475	0.265	0.1318	
240 minute winter	S24	S7.001	S25	3.0	0.698	0.503	0.1336	
240 minute winter	S25	S7.002	S26	4.5	0.459	0.253	0.3125	
240 minute winter	S26	S7.003	S19	6.0	0.724	0.336	0.0440	
240 minute winter	S27	S8.000	S25	1.6	0.632	0.265	0.1338	

Results for 100 year +40% CC 360 minute summer. 600 minute analysis at 8 minute timestep. Mass balance: 99.45%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
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	336	187.401	0.411	8.4	0.2441	0.0000	FLOOD RISK
360 minute summer	S17	336	187.396	0.796	11.8	41.2685	0.0000	FLOOD RISK
360 minute summer	S18	336	187.382	0.833	10.5	41.0681	0.0000	SURCHARGED
360 minute summer	S19	336	187.351	1.091	11.4	15.2768	0.0000	FLOOD RISK
360 minute summer	S20	336	187.345	1.099	5.2	1.2429	0.0000	FLOOD RISK
360 minute summer	OUTFALL	8	186.184	0.000	5.0	0.0000	0.0000	OK
360 minute summer	S21	288	187.839	0.339	16.8	51.3153	0.0000	SURCHARGED
360 minute summer	S22	280	187.837	0.668	26.3	77.7653	0.0000	SURCHARGED
360 minute summer	S23	336	187.350	0.500	1.7	0.3595	0.6759	FLOOD
360 minute summer	S24	336	187.351	0.669	3.4	0.3350	0.0000	FLOOD RISK
360 minute summer	S25	336	187.351	0.890	4.8	0.1415	0.0000	FLOOD RISK
360 minute summer	S26	336	187.351	1.066	6.2	0.4146	0.0000	FLOOD RISK
360 minute summer	S27	336	187.350	0.500	1.7	0.3595	0.7089	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	0.0555	
360 minute summer	S16	S5.003	S17	8.3	1.473	0.256	0.1282	
360 minute summer	S17	S5.004	S18	6.4	0.503	0.729	0.3623	
360 minute summer	S18	S5.005	S19	6.0	0.551	0.688	0.7109	
360 minute summer	S19	S5.006	S20	5.2	0.295	0.592	0.1003	
360 minute summer	S20	Hydro-Brake®	OUTFALL	5.0				136.6
360 minute summer	S21	S6.000	S22	-10.6	-0.602	-0.599	0.5871	
360 minute summer	S22	Orifice	S16	4.2				
360 minute summer	S23	S7.000	S24	1.7	0.456	0.280	0.1318	
360 minute summer	S24	S7.001	S25	3.1	0.672	0.511	0.1336	
360 minute summer	S25	S7.002	S26	4.5	0.422	0.256	0.3125	
360 minute summer	S26	S7.003	S19	6.1	0.588	0.341	0.0440	
360 minute summer	S27	S8.000	S25	1.7	0.620	0.280	0.1338	

Results for 100 year +40% CC 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	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	256	187.409	0.419	7.6	0.2489	0.0000	FLOOD RISK
360 minute winter	S17	256	187.400	0.800	10.0	41.2722	6.0075	FLOOD
360 minute winter	S18	256	187.391	0.842	8.6	41.0737	0.0000	SURCHARGED
360 minute winter	S19	256	187.360	1.100	10.4	15.2911	0.0000	FLOOD RISK
360 minute winter	S20	256	187.354	1.107	5.2	1.2525	0.0000	FLOOD RISK
360 minute winter	OUTFALL	8	186.184	0.000	5.0	0.0000	0.0000	OK
360 minute winter	S21	336	187.966	0.466	17.4	70.5325	0.0000	SURCHARGED
360 minute winter	S22	328	187.964	0.795	19.4	78.2760	0.0000	FLOOD RISK
360 minute winter	S23	256	187.350	0.500	1.2	0.3595	4.8080	FLOOD
360 minute winter	S24	256	187.356	0.674	2.4	0.3375	0.0000	FLOOD RISK
360 minute winter	S25	256	187.357	0.896	3.5	0.1424	0.0000	FLOOD RISK
360 minute winter	S26	256	187.360	1.075	4.6	0.4180	0.0000	FLOOD RISK
360 minute winter	S27	256	187.350	0.500	1.3	0.3595	5.2060	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	0.619	0.090	0.0260	
360 minute winter	S15	S5.002	S16	2.4	1.110	0.216	0.0591	
360 minute winter	S16	S5.003	S17	7.6	1.415	0.234	0.1282	
360 minute winter	S17	S5.004	S18	6.1	0.498	0.697	0.3623	
360 minute winter	S18	S5.005	S19	6.0	0.555	0.687	0.7109	
360 minute winter	S19	S5.006	S20	5.2	0.294	0.591	0.1003	
360 minute winter	S20	Hydro-Brake®	OUTFALL	5.0				139.6
360 minute winter	S21	S6.000	S22	-11.6	-0.660	-0.657	0.5871	
360 minute winter	S22	Orifice	S16	4.4				
360 minute winter	S23	S7.000	S24	1.2	0.434	0.199	0.1318	
360 minute winter	S24	S7.001	S25	2.3	0.642	0.379	0.1336	
360 minute winter	S25	S7.002	S26	3.4	0.422	0.191	0.3125	
360 minute winter	S26	S7.003	S19	4.5	0.572	0.254	0.0440	
360 minute winter	S27	S8.000	S25	1.2	0.565	0.199	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	416	187.397	0.407	7.4	0.2416	0.0000	FLOOD RISK
480 minute summer	S17	416	187.392	0.792	10.1	41.2649	0.0000	FLOOD RISK
480 minute summer	S18	416	187.379	0.830	8.3	41.0660	0.0000	SURCHARGED
480 minute summer	S19	432	187.350	1.090	10.5	15.2754	0.0000	FLOOD RISK
480 minute summer	S20	416	187.344	1.098	5.2	1.2420	0.0000	FLOOD RISK
480 minute summer	OUTFALL	8	186.184	0.000	5.0	0.0000	0.0000	OK
480 minute summer	S21	344	187.832	0.332	13.4	50.3523	0.0000	SURCHARGED
480 minute summer	S22	344	187.831	0.662	20.9	77.7389	0.0000	SURCHARGED
480 minute summer	S23	416	187.350	0.500	1.3	0.3595	0.6562	FLOOD
480 minute summer	S24	424	187.350	0.668	2.6	0.3347	0.0000	FLOOD RISK
480 minute summer	S25	432	187.350	0.889	3.8	0.1414	0.0000	FLOOD RISK
480 minute summer	S26	432	187.350	1.065	5.0	0.4143	0.0000	FLOOD RISK
480 minute summer	S27	416	187.350	0.500	1.3	0.3595	0.5401	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	0.627	0.099	0.0276	
480 minute summer	S15	S5.002	S16	2.6	1.135	0.234	0.0553	
480 minute summer	S16	S5.003	S17	7.4	1.429	0.227	0.1282	
480 minute summer	S17	S5.004	S18	6.0	0.488	0.689	0.3623	
480 minute summer	S18	S5.005	S19	6.2	0.556	0.703	0.7109	
480 minute summer	S19	S5.006	S20	5.2	0.293	0.588	0.1003	
480 minute summer	S20	Hydro-Brake®	OUTFALL	5.0				161.9
480 minute summer	S21	S6.000	S22	-8.3	-0.471	-0.469	0.5871	
480 minute summer	S22	Orifice	S16	4.2				
480 minute summer	S23	S7.000	S24	1.3	0.446	0.215	0.1318	
480 minute summer	S24	S7.001	S25	2.5	0.619	0.411	0.1336	
480 minute summer	S25	S7.002	S26	3.7	0.420	0.207	0.3125	
480 minute summer	S26	S7.003	S19	4.9	0.629	0.275	0.0440	
480 minute summer	S27	S8.000	S25	1.3	0.581	0.215	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	336	187.408	0.418	6.8	0.2482	0.0000	FLOOD RISK
480 minute winter	S17	336	187.400	0.800	8.7	41.2722	4.9110	FLOOD
480 minute winter	S18	336	187.388	0.839	7.5	41.0722	0.0000	SURCHARGED
480 minute winter	S19	336	187.356	1.096	9.5	15.2845	0.0000	FLOOD RISK
480 minute winter	S20	336	187.350	1.104	5.6	1.2483	0.0000	FLOOD RISK
480 minute winter	OUTFALL	8	186.184	0.000	5.0	0.0000	0.0000	OK
480 minute winter	S21	384	187.950	0.450	13.6	68.1441	0.0000	SURCHARGED
480 minute winter	S22	376	187.949	0.779	16.1	78.2123	0.0000	FLOOD RISK
480 minute winter	S23	336	187.350	0.500	1.2	0.3595	5.7925	FLOOD
480 minute winter	S24	336	187.354	0.672	2.0	0.3364	0.0000	FLOOD RISK
480 minute winter	S25	336	187.354	0.893	2.9	0.1421	0.0000	FLOOD RISK
480 minute winter	S26	336	187.356	1.071	3.8	0.4164	0.0000	FLOOD RISK
480 minute winter	S27	336	187.350	0.500	1.3	0.3595	6.2920	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	0.588	0.072	0.0220	
480 minute winter	S15	S5.002	S16	1.9	1.042	0.171	0.0591	
480 minute winter	S16	S5.003	S17	6.8	1.370	0.209	0.1282	
480 minute winter	S17	S5.004	S18	5.6	0.484	0.641	0.3623	
480 minute winter	S18	S5.005	S19	5.9	0.560	0.671	0.7109	
480 minute winter	S19	S5.006	S20	5.6	0.317	0.635	0.1003	
480 minute winter	S20	Hydro-Brake®	OUTFALL	5.0				167.0
480 minute winter	S21	S6.000	S22	-8.9	-0.505	-0.502	0.5871	
480 minute winter	S22	Orifice	S16	4.4				
480 minute winter	S23	S7.000	S24	1.0	0.409	0.166	0.1318	
480 minute winter	S24	S7.001	S25	1.9	0.592	0.317	0.1336	
480 minute winter	S25	S7.002	S26	2.8	0.422	0.160	0.3125	
480 minute winter	S26	S7.003	S19	3.8	0.523	0.212	0.0440	
480 minute winter	S27	S8.000	S25	1.0	0.532	0.166	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	570	187.364	0.374	6.6	0.2220	0.0000	SURCHARGED
600 minute summer	S17	570	187.360	0.760	8.8	41.2354	0.0000	FLOOD RISK
600 minute summer	S18	570	187.349	0.799	7.8	41.0471	0.0000	SURCHARGED
600 minute summer	S19	570	187.326	1.066	9.5	15.2360	0.0000	FLOOD RISK
600 minute summer	S20	570	187.320	1.074	5.2	1.2145	0.0000	FLOOD RISK
600 minute summer	OUTFALL	15	186.184	0.000	5.0	0.0000	0.0000	OK
600 minute summer	S21	420	187.819	0.319	9.3	48.3814	0.0000	SURCHARGED
600 minute summer	S22	420	187.818	0.649	15.8	77.6860	0.0000	SURCHARGED
600 minute summer	S23	570	187.326	0.476	1.0	0.3423	0.0000	FLOOD RISK
600 minute summer	S24	570	187.326	0.644	2.0	0.3226	0.0000	FLOOD RISK
600 minute summer	S25	570	187.326	0.865	2.9	0.1375	0.0000	FLOOD RISK
600 minute summer	S26	570	187.326	1.041	3.8	0.4048	0.0000	FLOOD RISK
600 minute summer	S27	570	187.326	0.476	1.0	0.3421	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 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	0.0545	
600 minute summer	S16	S5.003	S17	6.6	1.388	0.203	0.1282	
600 minute summer	S17	S5.004	S18	5.8	0.473	0.660	0.3623	
600 minute summer	S18	S5.005	S19	5.8	0.545	0.664	0.7109	
600 minute summer	S19	S5.006	S20	5.2	0.297	0.596	0.1003	
600 minute summer	S20	Hydro-Brake®	OUTFALL	5.0				185.1
600 minute summer	S21	S6.000	S22	-5.8	-0.330	-0.329	0.5871	
600 minute summer	S22	Orifice	S16	4.1				
600 minute summer	S23	S7.000	S24	1.0	0.408	0.166	0.1318	
600 minute summer	S24	S7.001	S25	1.9	0.564	0.316	0.1336	
600 minute summer	S25	S7.002	S26	2.8	0.342	0.159	0.3125	
600 minute summer	S26	S7.003	S19	3.7	0.453	0.211	0.0440	
600 minute summer	S27	S8.000	S25	1.0	0.531	0.166	0.1338	

Results for 100 year +40% CC 600 minute winter. 840 minute analysis at 15 minute timestep. Mass balance: 99.55%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
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	420	187.407	0.417	6.1	0.2479	0.0000	FLOOD RISK
600 minute winter	S17	420	187.400	0.800	7.7	41.2722	3.5745	FLOOD
600 minute winter	S18	420	187.388	0.839	6.7	41.0716	0.0000	SURCHARGED
600 minute winter	S19	420	187.354	1.094	8.2	15.2822	0.0000	FLOOD RISK
600 minute winter	S20	420	187.348	1.102	5.4	1.2467	0.0000	FLOOD RISK
600 minute winter	OUTFALL	15	186.184	0.000	5.0	0.0000	0.0000	OK
600 minute winter	S21	465	187.931	0.431	11.0	65.2400	0.0000	SURCHARGED
600 minute winter	S22	465	187.929	0.760	13.4	78.1345	0.0000	SURCHARGED
600 minute winter	S23	420	187.350	0.500	1.0	0.3595	5.6823	FLOOD
600 minute winter	S24	420	187.352	0.670	1.6	0.3359	0.0000	FLOOD RISK
600 minute winter	S25	420	187.353	0.892	2.3	0.1419	0.0000	FLOOD RISK
600 minute winter	S26	420	187.354	1.069	3.1	0.4159	0.0000	FLOOD RISK
600 minute winter	S27	420	187.350	0.500	1.1	0.3595	6.2403	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	0.0580	
600 minute winter	S16	S5.003	S17	6.1	1.344	0.188	0.1282	
600 minute winter	S17	S5.004	S18	5.2	0.476	0.592	0.3623	
600 minute winter	S18	S5.005	S19	5.5	0.540	0.628	0.7109	
600 minute winter	S19	S5.006	S20	5.4	0.306	0.614	0.1003	
600 minute winter	S20	Hydro-Brake®	OUTFALL	5.0				191.3
600 minute winter	S21	S6.000	S22	-7.0	-0.397	-0.395	0.5871	
600 minute winter	S22	Orifice	S16	4.4				
600 minute winter	S23	S7.000	S24	0.8	0.393	0.133	0.1318	
600 minute winter	S24	S7.001	S25	1.5	0.567	0.254	0.1336	
600 minute winter	S25	S7.002	S26	2.3	0.342	0.128	0.3125	
600 minute winter	S26	S7.003	S19	3.0	0.550	0.170	0.0440	
600 minute winter	S27	S8.000	S25	0.8	0.511	0.133	0.1338	

Results for 100 year +40% CC 720 minute summer. 960 minute analysis at 15 minute timestep. Mass balance: 99.56%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
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	690	187.322	0.332	6.2	0.1974	0.0000	SURCHARGED
720 minute summer	S17	690	187.318	0.718	8.2	41.1980	0.0000	FLOOD RISK
720 minute summer	S18	690	187.308	0.759	7.3	41.0215	0.0000	SURCHARGED
720 minute summer	S19	690	187.286	1.026	9.2	15.1713	0.0000	FLOOD RISK
720 minute summer	S20	690	187.280	1.034	5.3	1.1694	0.0000	FLOOD RISK
720 minute summer	OUTFALL	15	186.184	0.000	5.0	0.0000	0.0000	OK
720 minute summer	S21	495	187.804	0.303	8.7	45.9777	0.0000	SURCHARGED
720 minute summer	S22	480	187.802	0.633	14.5	77.6233	0.0000	SURCHARGED
720 minute summer	S23	690	187.286	0.436	0.9	0.3135	0.0000	FLOOD RISK
720 minute summer	S24	690	187.286	0.604	1.8	0.3026	0.0000	FLOOD RISK
720 minute summer	S25	690	187.286	0.825	2.6	0.1311	0.0000	FLOOD RISK
720 minute summer	S26	690	187.286	1.001	3.4	0.3892	0.0000	FLOOD RISK
720 minute summer	S27	690	187.286	0.436	0.9	0.3133	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 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	0.0545	
720 minute summer	S16	S5.003	S17	6.2	1.365	0.190	0.1282	
720 minute summer	S17	S5.004	S18	5.4	0.477	0.620	0.3623	
720 minute summer	S18	S5.005	S19	5.9	0.556	0.676	0.7109	
720 minute summer	S19	S5.006	S20	5.3	0.301	0.605	0.1003	
720 minute summer	S20	Hydro-Brake®	OUTFALL	5.0				210.0
720 minute summer	S21	S6.000	S22	-5.4	-0.307	-0.305	0.5871	
720 minute summer	S22	Orifice	S16	4.1				
720 minute summer	S23	S7.000	S24	0.9	0.408	0.149	0.1318	
720 minute summer	S24	S7.001	S25	1.7	0.564	0.284	0.1336	
720 minute summer	S25	S7.002	S26	2.5	0.342	0.143	0.3125	
720 minute summer	S26	S7.003	S19	3.4	0.453	0.190	0.0440	
720 minute summer	S27	S8.000	S25	0.9	0.530	0.149	0.1338	

Results for 100 year +40% CC 720 minute winter. 960 minute analysis at 15 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
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	495	187.407	0.417	5.8	0.2476	0.0000	FLOOD RISK
720 minute winter	S17	495	187.400	0.800	7.1	41.2722	2.6337	FLOOD
720 minute winter	S18	495	187.387	0.838	6.4	41.0713	0.0000	SURCHARGED
720 minute winter	S19	495	187.354	1.094	8.3	15.2820	0.0000	FLOOD RISK
720 minute winter	S20	495	187.348	1.102	5.1	1.2467	0.0000	FLOOD RISK
720 minute winter	OUTFALL	15	186.184	0.000	5.0	0.0000	0.0000	OK
720 minute winter	S21	540	187.906	0.406	8.5	61.4944	0.0000	SURCHARGED
720 minute winter	S22	540	187.905	0.736	11.1	78.0368	0.0000	SURCHARGED
720 minute winter	S23	495	187.350	0.500	1.1	0.3595	5.6900	FLOOD
720 minute winter	S24	495	187.353	0.671	1.4	0.3362	0.0000	FLOOD RISK
720 minute winter	S25	495	187.354	0.893	2.0	0.1419	0.0000	FLOOD RISK
720 minute winter	S26	495	187.354	1.069	2.7	0.4159	0.0000	FLOOD RISK
720 minute winter	S27	495	187.350	0.500	1.2	0.3595	6.0598	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	0.0573	
720 minute winter	S16	S5.003	S17	5.8	1.320	0.177	0.1282	
720 minute winter	S17	S5.004	S18	5.0	0.471	0.574	0.3623	
720 minute winter	S18	S5.005	S19	5.5	0.538	0.631	0.7109	
720 minute winter	S19	S5.006	S20	5.1	0.290	0.582	0.1003	
720 minute winter	S20	Hydro-Brake®	OUTFALL	5.0				218.1
720 minute winter	S21	S6.000	S22	-5.2	-0.294	-0.293	0.5871	
720 minute winter	S22	Orifice	S16	4.3				
720 minute winter	S23	S7.000	S24	-0.8	0.377	-0.128	0.1318	
720 minute winter	S24	S7.001	S25	1.3	0.564	0.222	0.1336	
720 minute winter	S25	S7.002	S26	2.0	0.342	0.112	0.3125	
720 minute winter	S26	S7.003	S19	2.6	0.589	0.149	0.0440	
720 minute winter	S27	S8.000	S25	-0.9	0.490	-0.148	0.1338	

Results for 100 year +40% CC 960 minute summer. 1200 minute analysis at 15 minute timestep. Mass balance: 99.65%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
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	960	187.230	0.240	5.5	0.1426	0.0000	SURCHARGED
960 minute summer	S17	960	187.226	0.626	7.1	41.1141	0.0000	FLOOD RISK
960 minute summer	S18	960	187.216	0.667	6.5	40.9637	0.0000	SURCHARGED
960 minute summer	S19	960	187.195	0.935	8.1	15.0243	0.0000	SURCHARGED
960 minute summer	S20	960	187.189	0.943	5.1	1.0670	0.0000	FLOOD RISK
960 minute summer	OUTFALL	15	186.184	0.000	5.0	0.0000	0.0000	OK
960 minute summer	S21	630	187.771	0.271	6.1	40.9923	0.0000	SURCHARGED
960 minute summer	S22	630	187.769	0.600	12.6	77.4894	0.0000	SURCHARGED
960 minute summer	S23	960	187.195	0.345	0.7	0.2480	0.0000	FLOOD RISK
960 minute summer	S24	960	187.195	0.513	1.4	0.2569	0.0000	SURCHARGED
960 minute summer	S25	960	187.195	0.734	2.1	0.1166	0.0000	SURCHARGED
960 minute summer	S26	960	187.195	0.910	2.7	0.3538	0.0000	SURCHARGED
960 minute summer	S27	960	187.195	0.345	0.7	0.2478	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)
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	0.0545	
960 minute summer	S16	S5.003	S17	5.5	1.326	0.170	0.1282	
960 minute summer	S17	S5.004	S18	5.1	0.464	0.577	0.3623	
960 minute summer	S18	S5.005	S19	5.5	0.547	0.624	0.7109	
960 minute summer	S19	S5.006	S20	5.1	0.291	0.578	0.1003	
960 minute summer	S20	Hydro-Brake®	OUTFALL	5.0				259.7
960 minute summer	S21	S6.000	S22	-3.5	0.226	-0.197	0.5871	
960 minute summer	S22	Orifice	S16	4.0				
960 minute summer	S23	S7.000	S24	0.7	0.393	0.116	0.1318	
960 minute summer	S24	S7.001	S25	1.4	0.532	0.230	0.1336	
960 minute summer	S25	S7.002	S26	2.0	0.342	0.114	0.3125	
960 minute summer	S26	S7.003	S19	2.7	0.511	0.151	0.0440	
960 minute summer	S27	S8.000	S25	0.7	0.511	0.116	0.1338	

Results for 100 year +40% CC 960 minute winter. 1200 minute analysis at 15 minute timestep. Mass balance: 99.63%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
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	690	187.405	0.415	5.3	0.2468	0.0000	FLOOD RISK
960 minute winter	S17	675	187.400	0.800	6.4	41.2722	0.2176	FLOOD
960 minute winter	S18	675	187.386	0.837	6.0	41.0704	0.0000	SURCHARGED
960 minute winter	S19	675	187.352	1.092	7.6	15.2788	0.0000	FLOOD RISK
960 minute winter	S20	675	187.346	1.100	5.1	1.2443	0.0000	FLOOD RISK
960 minute winter	OUTFALL	15	186.184	0.000	5.0	0.0000	0.0000	OK
960 minute winter	S21	705	187.845	0.345	6.0	52.2736	0.0000	SURCHARGED
960 minute winter	S22	690	187.844	0.675	9.7	77.7918	0.0000	SURCHARGED
960 minute winter	S23	675	187.350	0.500	0.7	0.3595	2.7056	FLOOD
960 minute winter	S24	675	187.351	0.669	1.2	0.3352	0.0000	FLOOD RISK
960 minute winter	S25	675	187.352	0.891	1.7	0.1416	0.0000	FLOOD RISK
960 minute winter	S26	675	187.352	1.067	2.3	0.4151	0.0000	FLOOD RISK
960 minute winter	S27	675	187.350	0.500	0.7	0.3595	2.6618	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	0.0567	
960 minute winter	S16	S5.003	S17	5.3	1.297	0.163	0.1282	
960 minute winter	S17	S5.004	S18	4.9	0.466	0.555	0.3623	
960 minute winter	S18	S5.005	S19	5.3	0.542	0.609	0.7109	
960 minute winter	S19	S5.006	S20	5.1	0.290	0.578	0.1003	
960 minute winter	S20	Hydro-Brake®	OUTFALL	5.0				269.9
960 minute winter	S21	S6.000	S22	3.5	0.199	0.199	0.5871	
960 minute winter	S22	Orifice	S16	4.2				
960 minute winter	S23	S7.000	S24	0.6	0.358	0.099	0.1318	
960 minute winter	S24	S7.001	S25	1.1	0.532	0.190	0.1336	
960 minute winter	S25	S7.002	S26	1.7	0.342	0.096	0.3125	
960 minute winter	S26	S7.003	S19	2.3	0.550	0.127	0.0440	
960 minute winter	S27	S8.000	S25	0.6	0.465	0.099	0.1338	

Results for 100 year +40% CC 1440 minute summer. 1680 minute analysis at 30 minute timestep. Mass balance: 99.88%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
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	750	187.032	0.042	5.0	0.0248	0.0000	OK
1440 minute summer	S17	1110	186.927	0.327	6.1	29.7565	0.0000	SURCHARGED
1440 minute summer	S18	1110	186.915	0.366	5.7	33.1872	0.0000	SURCHARGED
1440 minute summer	S19	1110	186.890	0.630	7.0	14.5331	0.0000	SURCHARGED
1440 minute summer	S20	1110	186.884	0.638	5.1	0.7218	0.0000	SURCHARGED
1440 minute summer	OUTFALL	30	186.184	0.000	5.0	0.0000	0.0000	OK
1440 minute summer	S21	900	187.696	0.196	3.7	29.7491	0.0000	SURCHARGED
1440 minute summer	S22	900	187.696	0.527	8.5	77.1942	0.0000	SURCHARGED
1440 minute summer	S23	1110	186.891	0.041	0.5	0.0293	0.0000	OK
1440 minute summer	S24	1110	186.891	0.209	1.0	0.1046	0.0000	SURCHARGED
1440 minute summer	S25	1110	186.891	0.429	1.5	0.0683	0.0000	SURCHARGED
1440 minute summer	S26	1110	186.890	0.605	2.0	0.2355	0.0000	SURCHARGED
1440 minute summer	S27	1110	186.891	0.041	0.5	0.0291	0.0000	OK
Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
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	0.0164	
1440 minute summer	S16	S5.003	S17	5.0	1.289	0.152	0.0762	
1440 minute summer	S17	S5.004	S18	4.6	0.469	0.528	0.3623	
1440 minute summer	S18	S5.005	S19	4.9	0.547	0.553	0.7109	
1440 minute summer	S19	S5.006	S20	5.1	0.290	0.577	0.1003	
1440 minute summer	S20	Hydro-Brake®	OUTFALL	5.0				369.1
1440 minute summer	S21	S6.000	S22	2.0	0.162	0.114	0.5871	
1440 minute summer	S22	Orifice	S16	3.7				
1440 minute summer	S23	S7.000	S24	0.5	0.358	0.083	0.0911	
1440 minute summer	S24	S7.001	S25	1.0	0.531	0.165	0.1336	
1440 minute summer	S25	S7.002	S26	1.5	0.342	0.082	0.3125	
1440 minute summer	S26	S7.003	S19	1.9	0.348	0.108	0.0440	
1440 minute summer	S27	S8.000	S25	0.5	0.464	0.083	0.0923	

Results for 100 year +40% CC 1440 minute winter. 1680 minute analysis at 30 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
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	1320	187.228	0.238	4.7	0.1414	0.0000	SURCHARGED
1440 minute winter	S17	1320	187.224	0.624	5.4	41.1123	0.0000	FLOOD RISK
1440 minute winter	S18	1320	187.214	0.665	5.5	40.9627	0.0000	SURCHARGED
1440 minute winter	S19	1320	187.193	0.933	6.6	15.0223	0.0000	SURCHARGED
1440 minute winter	S20	1320	187.188	0.942	5.0	1.0656	0.0000	FLOOD RISK
1440 minute winter	OUTFALL	30	186.184	0.000	5.0	0.0000	0.0000	OK
1440 minute winter	S21	960	187.736	0.235	2.5	35.6736	0.0000	SURCHARGED
1440 minute winter	S22	960	187.735	0.566	7.1	77.3513	0.0000	SURCHARGED
1440 minute winter	S23	1320	187.194	0.344	0.4	0.2471	0.0000	FLOOD RISK
1440 minute winter	S24	1320	187.194	0.512	0.8	0.2563	0.0000	SURCHARGED
1440 minute winter	S25	1320	187.193	0.732	1.2	0.1165	0.0000	SURCHARGED
1440 minute winter	S26	1320	187.193	0.908	1.6	0.3533	0.0000	SURCHARGED
1440 minute winter	S27	1320	187.194	0.343	0.4	0.2469	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	0.0545	
1440 minute winter	S16	S5.003	S17	4.7	1.256	0.144	0.1282	
1440 minute winter	S17	S5.004	S18	4.6	0.458	0.525	0.3623	
1440 minute winter	S18	S5.005	S19	4.9	0.540	0.563	0.7109	
1440 minute winter	S19	S5.006	S20	5.0	0.290	0.573	0.1003	
1440 minute winter	S20	Hydro-Brake®	OUTFALL	5.0				367.8
1440 minute winter	S21	S6.000	S22	2.2	0.143	0.123	0.5871	
1440 minute winter	S22	Orifice	S16	3.8				
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	0.133	0.1336	
1440 minute winter	S25	S7.002	S26	1.2	0.342	0.067	0.3125	
1440 minute winter	S26	S7.003	S19	1.6	0.402	0.088	0.0440	
1440 minute winter	S27	S8.000	S25	0.4	0.435	0.066	0.1338	