

Results for 100 year 120 minute summer. 360 minute analysis at 2 minute timestep. Mass balance: 99.27%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
120 minute summer	S14	64	114.281	0.081	34.2	0.1574	0.0000	OK
120 minute summer	BC15	126	113.165	0.387	34.2	0.0000	0.0000	OK
120 minute summer	BC16	124	113.166	0.618	21.3	0.0000	0.0000	SURCHARGED
120 minute summer	S31	64	113.971	0.033	4.9	0.0452	0.0000	OK
120 minute summer	BC32	124	113.165	0.315	11.3	0.0000	0.0000	OK
120 minute summer	BC33	124	113.165	0.585	18.2	0.0778	0.0000	SURCHARGED
120 minute summer	S17	124	113.165	0.635	27.4	2.5446	0.0000	SURCHARGED
120 minute summer	S18	334	112.584	0.080	11.0	0.0904	0.0000	OK
120 minute summer	OUTFALL	334	112.505	0.077	11.0	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
120 minute summer	S14	1.012	BC15	34.2	2.782	0.246	0.0779	
120 minute summer	BC15	1.013	BC16	18.9	0.144	0.002	69.3294	
120 minute summer	BC16	1.014	S17	10.3	-0.432	0.132	0.2531	
120 minute summer	S31	7.000	BC32	4.9	1.403	0.042	0.0079	
120 minute summer	BC32	7.001	BC33	-6.4	0.072	-0.001	36.4307	
120 minute summer	BC33	7.002	S17	-15.6	-0.268	-0.182	0.5881	
120 minute summer	S17	Hydro-Brake®	S18	11.0				
120 minute summer	S18	1.016	OUTFALL	11.0	0.889	0.259	0.1421	215.6

Results for 100 year 120 minute winter. 360 minute analysis at 2 minute timestep. Mass balance: 99.17%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
120 minute winter	S01	64	127.554	0.047	6.8	0.0737	0.0000	OK
120 minute winter	S02	64	126.062	0.064	14.8	0.1455	0.0000	OK
120 minute winter	S03	118	124.693	0.548	28.2	0.3883	0.0000	OK
120 minute winter	S04	118	124.693	0.662	18.7	0.0000	0.0000	SURCHARGED
120 minute winter	S05	118	124.693	0.668	26.2	2.5171	0.0000	SURCHARGED
120 minute winter	S19	128	124.614	0.439	5.5	0.8972	0.0000	SURCHARGED
120 minute winter	S06	128	124.614	0.700	33.7	1.5258	0.0000	SURCHARGED
120 minute winter	HW07	126	124.614	0.902	33.1	0.0000	0.0000	OK
120 minute winter	S20	118	124.701	0.778	12.1	3.9142	0.0000	OK
120 minute winter	S24	118	124.701	0.819	14.7	2.1607	0.0000	OK
120 minute winter	S21	118	124.701	0.866	18.9	5.0696	0.0000	OK
120 minute winter	S22	118	124.701	0.902	8.5	4.0821	0.0000	SURCHARGED
120 minute winter	HW23	132	124.614	0.901	5.6	0.0000	0.0000	OK
120 minute winter	HW08	130	124.613	1.067	24.7	0.4856	0.0000	SURCHARGED
120 minute winter	S09	130	124.605	1.124	5.7	1.6084	0.0000	SURCHARGED
120 minute winter	S25	124	123.452	0.552	9.6	1.8201	0.0000	OK
120 minute winter	S26	120	123.452	0.730	8.4	1.8567	0.0000	SURCHARGED
120 minute winter	S10	44	122.735	0.038	5.7	0.0431	0.0000	OK
120 minute winter	S11	40	121.069	0.069	5.7	0.0601	0.0000	OK
120 minute winter	S12	62	120.924	0.051	13.0	0.0887	0.0000	OK
120 minute winter	S13	64	117.506	0.062	20.8	0.0943	0.0000	OK
120 minute winter	S27	64	117.466	0.041	9.3	0.0650	0.0000	OK
120 minute winter	BC28	116	115.214	0.639	24.8	0.1547	0.0000	OK
120 minute winter	BC29	114	115.215	0.975	24.9	0.0000	0.0000	SURCHARGED
120 minute winter	S30	114	115.216	0.986	7.3	2.0870	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
120 minute winter	S01	1.000	S02	6.8	1.153	0.210	0.2726	
120 minute winter	S02	1.001	S03	14.8	2.107	0.360	0.0931	
120 minute winter	S03	1.002	S04	18.7	0.146	0.004	37.3440	
120 minute winter	S04	1.003	S05	12.4	-0.465	0.194	0.1171	
120 minute winter	S05	Hydro-Brake®	S06	25.3				
120 minute winter	S19	2.000	S06	5.4	0.723	0.371	0.2539	
120 minute winter	S06	1.005	HW07	33.1	0.886	0.520	0.6451	
120 minute winter	HW07	Flow through pond	HW08	19.0	0.097	0.000	123.9542	
120 minute winter	S20	3.000	S21	7.1	0.267	0.001	17.3018	
120 minute winter	S24	4.000	S21	10.1	0.275	0.003	19.2009	
120 minute winter	S21	3.001	S22	8.5	0.354	0.002	7.8188	
120 minute winter	S22	Hydro-Brake®	HW23	4.3				
120 minute winter	HW23	Flow through pond	HW08	19.0	0.097	0.000	123.9542	
120 minute winter	HW08	1.006	S09	5.7	0.459	0.396	0.1705	
120 minute winter	S09	Hydro-Brake®	S10	5.4				
120 minute winter	S25	5.000	S26	8.4	0.303	0.003	21.7186	
120 minute winter	S26	Hydro-Brake®	S10	0.4				
120 minute winter	S10	1.008	S11	5.7	1.008	0.141	0.1925	
120 minute winter	S11	1.009	S12	5.7	1.009	0.393	0.1230	
120 minute winter	S12	1.010	S13	13.0	2.133	0.247	0.2425	
120 minute winter	S13	1.011	S14	20.7	2.681	0.362	0.2453	
120 minute winter	S27	6.000	BC28	9.3	2.406	0.159	0.0651	
120 minute winter	BC28	6.001	BC29	24.9	0.135	0.003	40.5904	
120 minute winter	BC29	6.002	S30	4.7	-0.215	0.129	0.0793	
120 minute winter	S30	Hydro-Brake®	S14	4.5				

Results for 100 year 120 minute winter. 360 minute analysis at 2 minute timestep. Mass balance: 99.17%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
120 minute winter	S14	62	114.273	0.073	28.6	0.1424	0.0000	OK
120 minute winter	BC15	122	113.229	0.451	28.5	0.0000	0.0000	OK
120 minute winter	BC16	124	113.229	0.681	20.4	0.0000	0.0000	SURCHARGED
120 minute winter	S31	64	113.967	0.029	3.8	0.0398	0.0000	OK
120 minute winter	BC32	122	113.229	0.379	11.1	0.0000	0.0000	OK
120 minute winter	BC33	122	113.229	0.649	14.1	0.0863	0.0000	SURCHARGED
120 minute winter	S17	124	113.229	0.699	24.0	2.7990	0.0000	SURCHARGED
120 minute winter	S18	66	112.584	0.080	11.0	0.0904	0.0000	OK
120 minute winter	OUTFALL	66	112.505	0.077	11.0	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
120 minute winter	S14	1.012	BC15	28.5	2.655	0.205	0.0681	
120 minute winter	BC15	1.013	BC16	20.4	0.136	0.002	78.1611	
120 minute winter	BC16	1.014	S17	10.3	-0.462	0.132	0.2531	
120 minute winter	S31	7.000	BC32	3.8	1.306	0.033	0.0066	
120 minute winter	BC32	7.001	BC33	-7.5	0.073	-0.001	41.6177	
120 minute winter	BC33	7.002	S17	-12.5	-0.282	-0.146	0.5881	
120 minute winter	S17	Hydro-Brake®	S18	11.0				
120 minute winter	S18	1.016	OUTFALL	11.0	0.889	0.259	0.1421	214.4

Results for 100 year 180 minute summer. 420 minute analysis at 4 minute timestep. Mass balance: 99.27%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
180 minute summer	S01	96	127.553	0.046	6.6	0.0726	0.0000	OK
180 minute summer	S02	96	126.061	0.063	14.4	0.1432	0.0000	OK
180 minute summer	S03	180	124.635	0.490	27.4	0.3477	0.0000	OK
180 minute summer	S04	180	124.635	0.604	17.6	0.0000	0.0000	SURCHARGED
180 minute summer	S05	180	124.635	0.610	24.4	2.3009	0.0000	SURCHARGED
180 minute summer	S19	188	124.571	0.396	5.3	0.8091	0.0000	SURCHARGED
180 minute summer	S06	188	124.571	0.657	31.2	1.4322	0.0000	SURCHARGED
180 minute summer	HW07	188	124.570	0.858	30.6	0.0000	0.0000	OK
180 minute summer	S20	184	124.636	0.713	11.8	3.5844	0.0000	OK
180 minute summer	S24	180	124.636	0.754	14.2	1.9874	0.0000	OK
180 minute summer	S21	180	124.636	0.800	18.3	4.6844	0.0000	OK
180 minute summer	S22	180	124.636	0.836	7.0	3.7842	0.0000	SURCHARGED
180 minute summer	HW23	188	124.570	0.857	4.1	0.0000	0.0000	OK
180 minute summer	HW08	188	124.571	1.024	23.6	0.4661	0.0000	SURCHARGED
180 minute summer	S09	188	124.563	1.081	5.6	1.5476	0.0000	SURCHARGED
180 minute summer	S25	184	123.427	0.527	9.3	1.7393	0.0000	OK
180 minute summer	S26	188	123.426	0.704	5.7	1.7919	0.0000	SURCHARGED
180 minute summer	S10	72	122.735	0.038	5.7	0.0431	0.0000	OK
180 minute summer	S11	68	121.070	0.070	5.7	0.0605	0.0000	OK
180 minute summer	S12	92	120.924	0.050	12.8	0.0881	0.0000	OK
180 minute summer	S13	96	117.506	0.062	20.3	0.0931	0.0000	OK
180 minute summer	S27	96	117.465	0.040	9.0	0.0639	0.0000	OK
180 minute summer	BC28	140	115.076	0.501	20.9	0.1213	0.0000	OK
180 minute summer	BC29	136	115.077	0.837	15.8	0.0000	0.0000	SURCHARGED
180 minute summer	S30	136	115.078	0.848	7.1	1.7952	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	S01	1.000	S02	6.6	1.143	0.204	0.2669	
180 minute summer	S02	1.001	S03	14.4	2.092	0.350	0.0912	
180 minute summer	S03	1.002	S04	17.6	0.160	0.003	33.7994	
180 minute summer	S04	1.003	S05	11.3	-0.437	0.177	0.1171	
180 minute summer	S05	Hydro-Brake®	S06	23.7				
180 minute summer	S19	2.000	S06	5.2	0.705	0.362	0.2539	
180 minute summer	S06	1.005	HW07	30.6	0.818	0.480	0.6451	
180 minute summer	HW07	Flow through pond	HW08	18.0	0.090	0.000	115.1084	
180 minute summer	S20	3.000	S21	7.1	0.243	0.001	15.5862	
180 minute summer	S24	4.000	S21	9.8	0.260	0.003	17.3546	
180 minute summer	S21	3.001	S22	7.0	0.404	0.001	7.1130	
180 minute summer	S22	Hydro-Brake®	HW23	4.1				
180 minute summer	HW23	Flow through pond	HW08	18.0	0.090	0.000	115.1084	
180 minute summer	HW08	1.006	S09	5.6	0.422	0.390	0.1705	
180 minute summer	S09	Hydro-Brake®	S10	5.4				
180 minute summer	S25	5.000	S26	5.7	0.295	0.002	20.7027	
180 minute summer	S26	Hydro-Brake®	S10	0.4				
180 minute summer	S10	1.008	S11	5.7	1.007	0.141	0.1936	
180 minute summer	S11	1.009	S12	5.7	1.005	0.393	0.1230	
180 minute summer	S12	1.010	S13	12.8	2.135	0.243	0.2389	
180 minute summer	S13	1.011	S14	20.3	2.659	0.354	0.2416	
180 minute summer	S27	6.000	BC28	9.0	2.384	0.154	0.0636	
180 minute summer	BC28	6.001	BC29	15.8	0.147	0.002	33.6047	
180 minute summer	BC29	6.002	S30	4.6	-0.195	0.126	0.0793	
180 minute summer	S30	Hydro-Brake®	S14	4.5				

Results for 100 year 180 minute summer. 420 minute analysis at 4 minute timestep. Mass balance: 99.27%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
180 minute summer	S14	96	114.273	0.073	28.0	0.1409	0.0000	OK
180 minute summer	BC15	184	113.210	0.432	28.0	0.0000	0.0000	OK
180 minute summer	BC16	188	113.210	0.661	17.4	0.0000	0.0000	SURCHARGED
180 minute summer	S31	96	113.967	0.029	3.7	0.0392	0.0000	OK
180 minute summer	BC32	184	113.209	0.359	8.9	0.0000	0.0000	OK
180 minute summer	BC33	184	113.209	0.629	11.7	0.0837	0.0000	SURCHARGED
180 minute summer	S17	188	113.209	0.679	21.5	2.7203	0.0000	SURCHARGED
180 minute summer	S18	96	112.584	0.080	11.0	0.0904	0.0000	OK
180 minute summer	OUTFALL	96	112.505	0.077	11.0	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
180 minute summer	S14	1.012	BC15	28.0	2.642	0.202	0.0672	
180 minute summer	BC15	1.013	BC16	17.4	0.110	0.001	75.4495	
180 minute summer	BC16	1.014	S17	10.3	0.263	0.132	0.2531	
180 minute summer	S31	7.000	BC32	3.7	1.296	0.032	0.0064	
180 minute summer	BC32	7.001	BC33	-5.2	0.044	-0.001	40.0282	
180 minute summer	BC33	7.002	S17	-9.8	-0.237	-0.114	0.5881	
180 minute summer	S17	Hydro-Brake®	S18	11.0				
180 minute summer	S18	1.016	OUTFALL	11.0	0.889	0.259	0.1421	246.4

Results for 100 year 180 minute winter. 420 minute analysis at 4 minute timestep. Mass balance: 99.19%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
180 minute winter	S01	96	127.547	0.040	5.1	0.0636	0.0000	OK
180 minute winter	S02	96	126.053	0.054	11.1	0.1239	0.0000	OK
180 minute winter	S03	176	124.727	0.582	21.1	0.4125	0.0000	OK
180 minute winter	S04	176	124.727	0.696	14.4	0.0000	0.0000	SURCHARGED
180 minute winter	S05	176	124.727	0.702	20.8	2.6457	0.0000	SURCHARGED
180 minute winter	S19	188	124.657	0.481	4.1	0.9837	0.0000	SURCHARGED
180 minute winter	S06	188	124.657	0.743	26.5	1.6179	0.0000	SURCHARGED
180 minute winter	HW07	184	124.657	0.944	26.1	0.0000	0.0000	OK
180 minute winter	S20	176	124.731	0.808	9.1	4.0620	0.0000	OK
180 minute winter	S24	176	124.731	0.849	11.0	2.2384	0.0000	OK
180 minute winter	S21	176	124.731	0.896	14.6	5.2417	0.0000	OK
180 minute winter	S22	176	124.731	0.932	6.1	4.2151	0.0000	SURCHARGED
180 minute winter	HW23	188	124.656	0.944	4.1	0.0000	0.0000	OK
180 minute winter	HW08	188	124.656	1.110	20.2	0.5050	0.0000	SURCHARGED
180 minute winter	S09	188	124.647	1.166	5.6	1.6689	0.0000	SURCHARGED
180 minute winter	S25	180	123.494	0.594	7.2	1.9603	0.0000	OK
180 minute winter	S26	184	123.494	0.772	6.1	1.9644	0.0000	SURCHARGED
180 minute winter	S10	64	122.735	0.038	5.7	0.0431	0.0000	OK
180 minute winter	S11	56	121.070	0.070	5.7	0.0604	0.0000	OK
180 minute winter	S12	92	120.920	0.047	11.0	0.0814	0.0000	OK
180 minute winter	S13	92	117.500	0.056	16.8	0.0841	0.0000	OK
180 minute winter	S27	96	117.461	0.036	7.0	0.0562	0.0000	OK
180 minute winter	BC28	140	115.182	0.607	13.0	0.1468	0.0000	OK
180 minute winter	BC29	144	115.185	0.945	20.7	0.0000	0.0000	SURCHARGED
180 minute winter	S30	144	115.186	0.956	5.8	2.0229	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
180 minute winter	S01	1.000	S02	5.1	1.070	0.158	0.2207	
180 minute winter	S02	1.001	S03	11.1	1.953	0.270	0.0753	
180 minute winter	S03	1.002	S04	14.4	0.104	0.003	39.4478	
180 minute winter	S04	1.003	S05	9.1	-0.337	0.142	0.1171	
180 minute winter	S05	Hydro-Brake®	S06	20.1				
180 minute winter	S19	2.000	S06	3.9	0.656	0.269	0.2539	
180 minute winter	S06	1.005	HW07	26.1	0.822	0.410	0.6451	
180 minute winter	HW07	Flow through pond	HW08	15.9	0.081	0.000	133.6470	
180 minute winter	S20	3.000	S21	5.2	0.231	0.001	18.0653	
180 minute winter	S24	4.000	S21	7.8	0.247	0.002	20.0221	
180 minute winter	S21	3.001	S22	6.1	0.230	0.001	8.1310	
180 minute winter	S22	Hydro-Brake®	HW23	4.1				
180 minute winter	HW23	Flow through pond	HW08	15.9	0.081	0.000	133.6470	
180 minute winter	HW08	1.006	S09	5.6	0.438	0.389	0.1705	
180 minute winter	S09	Hydro-Brake®	S10	5.4				
180 minute winter	S25	5.000	S26	6.1	0.285	0.002	23.5240	
180 minute winter	S26	Hydro-Brake®	S10	0.4				
180 minute winter	S10	1.008	S11	5.7	1.001	0.141	0.1935	
180 minute winter	S11	1.009	S12	5.7	1.014	0.393	0.1177	
180 minute winter	S12	1.010	S13	11.0	2.079	0.210	0.2112	
180 minute winter	S13	1.011	S14	16.8	2.501	0.293	0.2130	
180 minute winter	S27	6.000	BC28	7.0	2.220	0.120	0.0532	
180 minute winter	BC28	6.001	BC29	20.7	0.095	0.002	39.0767	
180 minute winter	BC29	6.002	S30	4.4	0.174	0.119	0.0793	
180 minute winter	S30	Hydro-Brake®	S14	4.5				

Results for 100 year 180 minute winter. 420 minute analysis at 4 minute timestep. Mass balance: 99.19%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
180 minute winter	S14	92	114.266	0.066	23.7	0.1287	0.0000	OK
180 minute winter	BC15	180	113.287	0.509	23.7	0.0000	0.0000	OK
180 minute winter	BC16	184	113.286	0.738	18.2	0.0000	0.0000	SURCHARGED
180 minute winter	S31	96	113.963	0.025	2.8	0.0342	0.0000	OK
180 minute winter	BC32	184	113.286	0.436	7.8	0.0000	0.0000	OK
180 minute winter	BC33	184	113.285	0.705	10.2	0.0938	0.0000	SURCHARGED
180 minute winter	S17	184	113.285	0.755	20.4	3.0253	0.0000	SURCHARGED
180 minute winter	S18	92	112.584	0.080	11.0	0.0904	0.0000	OK
180 minute winter	OUTFALL	92	112.505	0.077	11.0	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
180 minute winter	S14	1.012	BC15	23.7	2.531	0.171	0.0594	
180 minute winter	BC15	1.013	BC16	18.2	0.138	0.002	86.0099	
180 minute winter	BC16	1.014	S17	10.2	-0.264	0.131	0.2531	
180 minute winter	S31	7.000	BC32	2.8	1.199	0.024	0.0053	
180 minute winter	BC32	7.001	BC33	-5.0	0.056	-0.001	46.2251	
180 minute winter	BC33	7.002	S17	-9.1	-0.251	-0.106	0.5881	
180 minute winter	S17	Hydro-Brake®	S18	11.0				
180 minute winter	S18	1.016	OUTFALL	11.0	0.889	0.259	0.1421	243.7

Results for 100 year 240 minute summer. 480 minute analysis at 4 minute timestep. Mass balance: 99.31%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
240 minute summer	S01	124	127.549	0.042	5.6	0.0665	0.0000	OK
240 minute summer	S02	124	126.055	0.057	12.2	0.1300	0.0000	OK
240 minute summer	S03	240	124.649	0.504	23.1	0.3571	0.0000	OK
240 minute summer	S04	240	124.649	0.618	13.8	0.0000	0.0000	SURCHARGED
240 minute summer	S05	240	124.649	0.624	21.1	2.3514	0.0000	SURCHARGED
240 minute summer	S19	244	124.588	0.413	4.5	0.8441	0.0000	SURCHARGED
240 minute summer	S06	244	124.588	0.674	27.1	1.4693	0.0000	SURCHARGED
240 minute summer	HW07	248	124.589	0.876	26.6	0.0000	0.0000	OK
240 minute summer	S20	240	124.650	0.727	10.0	3.6577	0.0000	OK
240 minute summer	S24	240	124.650	0.768	12.1	2.0258	0.0000	OK
240 minute summer	S21	240	124.650	0.815	15.8	4.7705	0.0000	OK
240 minute summer	S22	240	124.650	0.851	6.3	3.8508	0.0000	SURCHARGED
240 minute summer	HW23	248	124.588	0.875	4.0	0.0000	0.0000	OK
240 minute summer	HW08	244	124.588	1.042	20.7	0.4739	0.0000	SURCHARGED
240 minute summer	S09	244	124.580	1.098	5.6	1.5719	0.0000	SURCHARGED
240 minute summer	S25	244	123.448	0.548	7.9	1.8095	0.0000	OK
240 minute summer	S26	244	123.448	0.726	5.5	1.8481	0.0000	SURCHARGED
240 minute summer	S10	96	122.735	0.038	5.7	0.0431	0.0000	OK
240 minute summer	S11	92	121.070	0.070	5.7	0.0606	0.0000	OK
240 minute summer	S12	124	120.921	0.048	11.7	0.0839	0.0000	OK
240 minute summer	S13	124	117.502	0.058	18.1	0.0873	0.0000	OK
240 minute summer	S27	124	117.462	0.037	7.7	0.0589	0.0000	OK
240 minute summer	BC28	172	115.048	0.473	18.3	0.1145	0.0000	OK
240 minute summer	BC29	168	115.048	0.808	17.2	0.0000	0.0000	SURCHARGED
240 minute summer	S30	168	115.049	0.819	6.0	1.7330	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
240 minute summer	S01	1.000	S02	5.6	1.095	0.172	0.2353	
240 minute summer	S02	1.001	S03	12.1	1.999	0.294	0.0802	
240 minute summer	S03	1.002	S04	13.8	0.155	0.003	34.6255	
240 minute summer	S04	1.003	S05	9.5	-0.395	0.150	0.1171	
240 minute summer	S05	Hydro-Brake®	S06	20.4				
240 minute summer	S19	2.000	S06	4.2	0.662	0.287	0.2539	
240 minute summer	S06	1.005	HW07	26.6	0.790	0.417	0.6451	
240 minute summer	HW07	Flow through pond	HW08	16.0	0.087	0.000	118.5846	
240 minute summer	S20	3.000	S21	5.8	0.231	0.001	15.9692	
240 minute summer	S24	4.000	S21	8.5	0.242	0.002	17.7666	
240 minute summer	S21	3.001	S22	6.3	0.399	0.001	7.2714	
240 minute summer	S22	Hydro-Brake®	HW23	4.0				
240 minute summer	HW23	Flow through pond	HW08	16.0	0.087	0.000	118.5846	
240 minute summer	HW08	1.006	S09	5.6	0.418	0.387	0.1705	
240 minute summer	S09	Hydro-Brake®	S10	5.4				
240 minute summer	S25	5.000	S26	5.5	0.280	0.002	21.6340	
240 minute summer	S26	Hydro-Brake®	S10	0.4				
240 minute summer	S10	1.008	S11	5.7	1.003	0.141	0.1939	
240 minute summer	S11	1.009	S12	5.7	1.007	0.393	0.1193	
240 minute summer	S12	1.010	S13	11.7	2.099	0.222	0.2212	
240 minute summer	S13	1.011	S14	18.0	2.558	0.314	0.2233	
240 minute summer	S27	6.000	BC28	7.7	2.279	0.131	0.0568	
240 minute summer	BC28	6.001	BC29	17.2	0.156	0.002	32.2111	
240 minute summer	BC29	6.002	S30	4.7	0.175	0.129	0.0793	
240 minute summer	S30	Hydro-Brake®	S14	4.5				

Results for 100 year 240 minute summer. 480 minute analysis at 4 minute timestep. Mass balance: 99.31%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
240 minute summer	S14	124	114.269	0.069	25.3	0.1331	0.0000	OK
240 minute summer	BC15	244	113.243	0.465	25.2	0.0000	0.0000	OK
240 minute summer	BC16	244	113.243	0.695	17.7	0.0000	0.0000	SURCHARGED
240 minute summer	S31	124	113.964	0.026	3.1	0.0359	0.0000	OK
240 minute summer	BC32	244	113.243	0.393	6.0	0.0000	0.0000	OK
240 minute summer	BC33	244	113.243	0.662	9.7	0.0881	0.0000	SURCHARGED
240 minute summer	S17	244	113.242	0.712	19.8	2.8542	0.0000	SURCHARGED
240 minute summer	S18	124	112.584	0.080	11.0	0.0904	0.0000	OK
240 minute summer	OUTFALL	124	112.505	0.077	11.0	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
240 minute summer	S14	1.012	BC15	25.2	2.572	0.182	0.0622	
240 minute summer	BC15	1.013	BC16	17.7	0.109	0.001	80.0652	
240 minute summer	BC16	1.014	S17	10.3	0.260	0.131	0.2531	
240 minute summer	S31	7.000	BC32	3.1	1.232	0.026	0.0057	
240 minute summer	BC32	7.001	BC33	-4.1	0.036	0.000	42.7333	
240 minute summer	BC33	7.002	S17	-8.1	-0.222	-0.095	0.5881	
240 minute summer	S17	Hydro-Brake®	S18	11.0				
240 minute summer	S18	1.016	OUTFALL	11.0	0.889	0.259	0.1421	278.5

Results for 100 year 240 minute winter. 480 minute analysis at 4 minute timestep. Mass balance: 99.21%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
240 minute winter	S01	124	127.544	0.037	4.2	0.0576	0.0000	OK
240 minute winter	S02	124	126.047	0.049	9.1	0.1113	0.0000	OK
240 minute winter	S03	232	124.746	0.601	17.3	0.4263	0.0000	OK
240 minute winter	S04	232	124.746	0.715	12.0	0.0000	0.0000	SURCHARGED
240 minute winter	S05	232	124.746	0.721	17.5	2.7192	0.0000	SURCHARGED
240 minute winter	S19	244	124.680	0.505	3.4	1.0324	0.0000	SURCHARGED
240 minute winter	S06	244	124.681	0.766	22.2	1.6702	0.0000	SURCHARGED
240 minute winter	HW07	240	124.681	0.968	21.9	0.0000	0.0000	OK
240 minute winter	S20	232	124.749	0.826	7.4	4.1538	0.0000	OK
240 minute winter	S24	232	124.749	0.867	9.0	2.2850	0.0000	OK
240 minute winter	S21	232	124.749	0.914	12.2	5.3468	0.0000	OK
240 minute winter	S22	232	124.749	0.950	5.5	4.2963	0.0000	SURCHARGED
240 minute winter	HW23	244	124.680	0.967	3.9	0.0000	0.0000	OK
240 minute winter	HW08	244	124.680	1.134	17.6	0.5158	0.0000	SURCHARGED
240 minute winter	S09	244	124.671	1.190	5.6	1.7029	0.0000	SURCHARGED
240 minute winter	S25	240	123.525	0.625	5.9	2.0623	0.0000	OK
240 minute winter	S26	240	123.524	0.801	4.2	2.0398	0.0000	SURCHARGED
240 minute winter	S10	80	122.735	0.038	5.7	0.0431	0.0000	OK
240 minute winter	S11	76	121.070	0.070	5.7	0.0606	0.0000	OK
240 minute winter	S12	124	120.917	0.044	9.9	0.0771	0.0000	OK
240 minute winter	S13	124	117.496	0.052	14.7	0.0783	0.0000	OK
240 minute winter	S27	124	117.457	0.032	5.7	0.0506	0.0000	OK
240 minute winter	BC28	184	115.139	0.564	16.1	0.1366	0.0000	OK
240 minute winter	BC29	184	115.144	0.904	18.1	0.0000	0.0000	SURCHARGED
240 minute winter	S30	184	115.144	0.914	5.5	1.9358	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
240 minute winter	S01	1.000	S02	4.2	1.016	0.130	0.1910	
240 minute winter	S02	1.001	S03	9.1	1.849	0.221	0.0651	
240 minute winter	S03	1.002	S04	12.0	0.104	0.002	40.6511	
240 minute winter	S04	1.003	S05	7.4	-0.239	0.117	0.1171	
240 minute winter	S05	Hydro-Brake®	S06	17.0				
240 minute winter	S19	2.000	S06	3.2	0.617	0.221	0.2539	
240 minute winter	S06	1.005	HW07	21.9	0.786	0.344	0.6451	
240 minute winter	HW07	Flow through pond	HW08	14.0	0.077	0.000	139.1307	
240 minute winter	S20	3.000	S21	4.8	0.217	0.001	18.5331	
240 minute winter	S24	4.000	S21	6.2	0.228	0.002	20.5160	
240 minute winter	S21	3.001	S22	5.5	0.259	0.001	8.3199	
240 minute winter	S22	Hydro-Brake®	HW23	3.9				
240 minute winter	HW23	Flow through pond	HW08	14.0	0.077	0.000	139.1307	
240 minute winter	HW08	1.006	S09	5.6	0.421	0.386	0.1705	
240 minute winter	S09	Hydro-Brake®	S10	5.4				
240 minute winter	S25	5.000	S26	4.2	0.204	0.001	24.8086	
240 minute winter	S26	Hydro-Brake®	S10	0.4				
240 minute winter	S10	1.008	S11	5.7	0.998	0.141	0.1939	
240 minute winter	S11	1.009	S12	5.7	1.017	0.393	0.1150	
240 minute winter	S12	1.010	S13	9.9	2.054	0.188	0.1934	
240 minute winter	S13	1.011	S14	14.7	2.388	0.257	0.1952	
240 minute winter	S27	6.000	BC28	5.7	2.093	0.097	0.0459	
240 minute winter	BC28	6.001	BC29	18.1	0.097	0.002	37.0078	
240 minute winter	BC29	6.002	S30	4.4	0.173	0.120	0.0793	
240 minute winter	S30	Hydro-Brake®	S14	4.5				

Results for 100 year 240 minute winter. 480 minute analysis at 4 minute timestep. Mass balance: 99.21%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
240 minute winter	S14	124	114.262	0.062	21.2	0.1211	0.0000	OK
240 minute winter	BC15	244	113.324	0.546	21.2	0.0000	0.0000	OK
240 minute winter	BC16	240	113.326	0.777	17.5	0.0000	0.0000	SURCHARGED
240 minute winter	S31	124	113.961	0.023	2.3	0.0310	0.0000	OK
240 minute winter	BC32	244	113.324	0.474	6.3	0.0000	0.0000	OK
240 minute winter	BC33	240	113.324	0.744	7.6	0.0990	0.0000	SURCHARGED
240 minute winter	S17	240	113.325	0.795	17.6	3.1853	0.0000	SURCHARGED
240 minute winter	S18	120	112.584	0.080	11.0	0.0904	0.0000	OK
240 minute winter	OUTFALL	120	112.505	0.077	11.0	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
240 minute winter	S14	1.012	BC15	21.2	2.456	0.153	0.0548	
240 minute winter	BC15	1.013	BC16	17.5	0.097	0.001	91.3185	
240 minute winter	BC16	1.014	S17	10.1	0.267	0.129	0.2531	
240 minute winter	S31	7.000	BC32	2.3	1.132	0.020	0.0046	
240 minute winter	BC32	7.001	BC33	-4.0	0.048	0.000	49.3348	
240 minute winter	BC33	7.002	S17	-6.4	-0.241	-0.074	0.5881	
240 minute winter	S17	Hydro-Brake®	S18	11.0				
240 minute winter	S18	1.016	OUTFALL	11.0	0.889	0.259	0.1421	273.9

Results for 100 year 360 minute summer. 600 minute analysis at 8 minute timestep. Mass balance: 99.39%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
360 minute summer	S01	184	127.544	0.037	4.3	0.0582	0.0000	OK
360 minute summer	S02	184	126.048	0.050	9.4	0.1129	0.0000	OK
360 minute summer	S03	344	124.650	0.505	17.8	0.3583	0.0000	OK
360 minute summer	S04	344	124.650	0.619	11.1	0.0000	0.0000	SURCHARGED
360 minute summer	S05	344	124.650	0.625	16.7	2.3576	0.0000	SURCHARGED
360 minute summer	S19	360	124.595	0.420	3.5	0.8583	0.0000	SURCHARGED
360 minute summer	S06	360	124.595	0.681	21.1	1.4841	0.0000	SURCHARGED
360 minute summer	HW07	360	124.596	0.883	20.8	0.0000	0.0000	OK
360 minute summer	S20	352	124.653	0.730	7.7	3.6708	0.0000	OK
360 minute summer	S24	352	124.653	0.771	9.3	2.0323	0.0000	OK
360 minute summer	S21	352	124.653	0.818	12.3	4.7853	0.0000	OK
360 minute summer	S22	352	124.653	0.854	5.3	3.8623	0.0000	SURCHARGED
360 minute summer	HW23	360	124.595	0.882	3.7	0.0000	0.0000	OK
360 minute summer	HW08	360	124.594	1.048	17.0	0.4770	0.0000	SURCHARGED
360 minute summer	S09	360	124.586	1.105	5.6	1.5816	0.0000	SURCHARGED
360 minute summer	S25	360	123.468	0.568	6.1	1.8736	0.0000	OK
360 minute summer	S26	360	123.468	0.746	4.1	1.8973	0.0000	SURCHARGED
360 minute summer	S10	144	122.735	0.038	5.7	0.0431	0.0000	OK
360 minute summer	S11	136	121.070	0.070	5.7	0.0606	0.0000	OK
360 minute summer	S12	184	120.918	0.045	10.1	0.0780	0.0000	OK
360 minute summer	S13	184	117.496	0.052	15.0	0.0791	0.0000	OK
360 minute summer	S27	184	117.458	0.033	5.9	0.0515	0.0000	OK
360 minute summer	BC28	232	114.981	0.406	13.0	0.0983	0.0000	OK
360 minute summer	BC29	240	114.980	0.740	14.7	0.0000	0.0000	SURCHARGED
360 minute summer	S30	240	114.980	0.750	5.6	1.5886	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
360 minute summer	S01	1.000	S02	4.3	1.018	0.132	0.1944	
360 minute summer	S02	1.001	S03	9.3	1.862	0.226	0.0663	
360 minute summer	S03	1.002	S04	11.1	0.068	0.002	34.7274	
360 minute summer	S04	1.003	S05	7.1	0.242	0.111	0.1171	
360 minute summer	S05	Hydro-Brake®	S06	16.2				
360 minute summer	S19	2.000	S06	3.0	0.604	0.209	0.2539	
360 minute summer	S06	1.005	HW07	20.8	0.766	0.326	0.6451	
360 minute summer	HW07	Flow through pond	HW08	13.5	0.078	0.000	119.9600	
360 minute summer	S20	3.000	S21	4.8	0.195	0.001	16.0364	
360 minute summer	S24	4.000	S21	5.9	0.198	0.002	17.8370	
360 minute summer	S21	3.001	S22	5.3	0.169	0.001	7.2987	
360 minute summer	S22	Hydro-Brake®	HW23	3.7				
360 minute summer	HW23	Flow through pond	HW08	13.5	0.078	0.000	119.9600	
360 minute summer	HW08	1.006	S09	5.6	0.393	0.384	0.1705	
360 minute summer	S09	Hydro-Brake®	S10	5.4				
360 minute summer	S25	5.000	S26	4.1	0.137	0.001	22.4479	
360 minute summer	S26	Hydro-Brake®	S10	0.4				
360 minute summer	S10	1.008	S11	5.7	0.997	0.141	0.1939	
360 minute summer	S11	1.009	S12	5.7	1.009	0.392	0.1151	
360 minute summer	S12	1.010	S13	10.1	2.054	0.193	0.1964	
360 minute summer	S13	1.011	S14	15.0	2.406	0.262	0.1977	
360 minute summer	S27	6.000	BC28	5.9	2.112	0.101	0.0469	
360 minute summer	BC28	6.001	BC29	14.7	0.059	0.001	28.8130	
360 minute summer	BC29	6.002	S30	4.5	0.174	0.122	0.0793	
360 minute summer	S30	Hydro-Brake®	S14	4.5				

Results for 100 year 360 minute summer. 600 minute analysis at 8 minute timestep. Mass balance: 99.39%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
360 minute summer	S14	184	114.263	0.063	21.6	0.1222	0.0000	OK
360 minute summer	BC15	368	113.290	0.512	21.5	0.0000	0.0000	OK
360 minute summer	BC16	368	113.289	0.741	13.2	0.0000	0.0000	SURCHARGED
360 minute summer	S31	184	113.961	0.023	2.4	0.0316	0.0000	OK
360 minute summer	BC32	368	113.289	0.439	5.4	0.0000	0.0000	OK
360 minute summer	BC33	368	113.289	0.709	7.6	0.0943	0.0000	SURCHARGED
360 minute summer	S17	368	113.289	0.759	17.7	3.0404	0.0000	SURCHARGED
360 minute summer	S18	600	112.584	0.080	11.0	0.0904	0.0000	OK
360 minute summer	OUTFALL	600	112.505	0.077	11.0	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
360 minute summer	S14	1.012	BC15	21.5	2.466	0.155	0.0554	
360 minute summer	BC15	1.013	BC16	13.2	0.102	0.001	86.4658	
360 minute summer	BC16	1.014	S17	10.1	0.269	0.129	0.2531	
360 minute summer	S31	7.000	BC32	2.4	1.145	0.020	0.0047	
360 minute summer	BC32	7.001	BC33	-3.0	0.031	0.000	46.4862	
360 minute summer	BC33	7.002	S17	-6.4	-0.205	-0.074	0.5881	
360 minute summer	S17	Hydro-Brake®	S18	11.0				
360 minute summer	S18	1.016	OUTFALL	11.0	0.889	0.259	0.1421	341.5

Results for 100 year 360 minute winter. 600 minute analysis at 8 minute timestep. Mass balance: 99.27%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
360 minute winter	S01	184	127.538	0.031	3.1	0.0495	0.0000	OK
360 minute winter	S02	184	126.040	0.042	6.8	0.0955	0.0000	OK
360 minute winter	S03	344	124.754	0.609	13.0	0.4317	0.0000	OK
360 minute winter	S04	344	124.754	0.723	9.0	0.0000	0.0000	SURCHARGED
360 minute winter	S05	344	124.754	0.729	13.5	2.7480	0.0000	SURCHARGED
360 minute winter	S19	352	124.694	0.519	2.5	1.0608	0.0000	SURCHARGED
360 minute winter	S06	352	124.694	0.780	17.1	1.7002	0.0000	SURCHARGED
360 minute winter	HW07	352	124.695	0.982	16.9	0.0000	0.0000	OK
360 minute winter	S20	344	124.757	0.834	5.6	4.1962	0.0000	OK
360 minute winter	S24	344	124.757	0.875	6.7	2.3076	0.0000	OK
360 minute winter	S21	344	124.757	0.922	9.3	5.3965	0.0000	OK
360 minute winter	S22	344	124.757	0.958	4.6	4.3347	0.0000	SURCHARGED
360 minute winter	HW23	352	124.694	0.981	3.5	0.0000	0.0000	OK
360 minute winter	HW08	352	124.694	1.147	14.2	0.5221	0.0000	SURCHARGED
360 minute winter	S09	352	124.685	1.204	5.5	1.7224	0.0000	SURCHARGED
360 minute winter	S25	352	123.556	0.656	4.4	2.1651	0.0000	OK
360 minute winter	S26	352	123.556	0.833	3.5	2.1212	0.0000	SURCHARGED
360 minute winter	S10	120	122.735	0.038	5.7	0.0431	0.0000	OK
360 minute winter	S11	120	121.070	0.070	5.7	0.0607	0.0000	OK
360 minute winter	S12	176	120.914	0.041	8.7	0.0721	0.0000	OK
360 minute winter	S13	184	117.491	0.047	12.2	0.0712	0.0000	OK
360 minute winter	S27	184	117.453	0.028	4.3	0.0440	0.0000	OK
360 minute winter	BC28	264	115.039	0.464	10.2	0.1124	0.0000	OK
360 minute winter	BC29	256	115.041	0.800	12.9	0.0000	0.0000	SURCHARGED
360 minute winter	S30	256	115.041	0.811	5.3	1.7160	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
360 minute winter	S01	1.000	S02	3.1	0.930	0.096	0.1542	
360 minute winter	S02	1.001	S03	6.8	1.707	0.165	0.0527	
360 minute winter	S03	1.002	S04	9.0	0.095	0.002	41.1224	
360 minute winter	S04	1.003	S05	6.8	0.245	0.106	0.1171	
360 minute winter	S05	Hydro-Brake®	S06	13.1				
360 minute winter	S19	2.000	S06	2.3	0.560	0.158	0.2539	
360 minute winter	S06	1.005	HW07	16.9	0.726	0.265	0.6451	
360 minute winter	HW07	Flow through pond	HW08	11.5	0.063	0.000	142.4180	
360 minute winter	S20	3.000	S21	3.7	0.196	0.001	18.7514	
360 minute winter	S24	4.000	S21	4.9	0.208	0.001	20.7522	
360 minute winter	S21	3.001	S22	4.6	0.243	0.001	8.4092	
360 minute winter	S22	Hydro-Brake®	HW23	3.5				
360 minute winter	HW23	Flow through pond	HW08	11.5	0.063	0.000	142.4180	
360 minute winter	HW08	1.006	S09	5.5	0.403	0.382	0.1705	
360 minute winter	S09	Hydro-Brake®	S10	5.4				
360 minute winter	S25	5.000	S26	3.5	0.170	0.001	26.1068	
360 minute winter	S26	Hydro-Brake®	S10	0.4				
360 minute winter	S10	1.008	S11	5.7	0.994	0.141	0.1942	
360 minute winter	S11	1.009	S12	5.7	1.018	0.392	0.1121	
360 minute winter	S12	1.010	S13	8.7	2.023	0.165	0.1723	
360 minute winter	S13	1.011	S14	12.2	2.237	0.214	0.1738	
360 minute winter	S27	6.000	BC28	4.3	1.927	0.073	0.0376	
360 minute winter	BC28	6.001	BC29	12.9	0.081	0.001	31.8864	
360 minute winter	BC29	6.002	S30	4.5	0.172	0.123	0.0793	
360 minute winter	S30	Hydro-Brake®	S14	4.5				

Results for 100 year 360 minute winter. 600 minute analysis at 8 minute timestep. Mass balance: 99.27%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
360 minute winter	S14	184	114.258	0.058	18.3	0.1120	0.0000	OK
360 minute winter	BC15	416	113.390	0.612	18.3	0.0000	0.0000	OK
360 minute winter	BC16	392	113.390	0.842	14.9	0.0000	0.0000	SURCHARGED
360 minute winter	S31	184	113.958	0.020	1.8	0.0275	0.0000	OK
360 minute winter	BC32	416	113.389	0.539	3.9	0.0000	0.0000	OK
360 minute winter	BC33	400	113.389	0.809	5.3	0.1076	0.0000	SURCHARGED
360 minute winter	S17	392	113.389	0.859	15.7	3.4438	0.0000	SURCHARGED
360 minute winter	S18	176	112.584	0.080	11.0	0.0904	0.0000	OK
360 minute winter	OUTFALL	176	112.504	0.077	11.0	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
360 minute winter	S14	1.012	BC15	18.3	2.359	0.132	0.0492	
360 minute winter	BC15	1.013	BC16	14.9	0.083	0.001	100.3029	
360 minute winter	BC16	1.014	S17	9.7	0.254	0.124	0.2531	
360 minute winter	S31	7.000	BC32	1.8	1.058	0.015	0.0038	
360 minute winter	BC32	7.001	BC33	-2.4	0.031	0.000	54.6115	
360 minute winter	BC33	7.002	S17	-4.4	-0.218	-0.051	0.5881	
360 minute winter	S17	Hydro-Brake®	S18	11.0				
360 minute winter	S18	1.016	OUTFALL	11.0	0.889	0.259	0.1421	333.5

Results for 100 year 480 minute summer. 720 minute analysis at 8 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
480 minute summer	S01	248	127.540	0.033	3.4	0.0519	0.0000	OK
480 minute summer	S02	248	126.042	0.044	7.4	0.0999	0.0000	OK
480 minute summer	S03	400	124.640	0.495	14.1	0.3511	0.0000	OK
480 minute summer	S04	400	124.640	0.609	9.3	0.0000	0.0000	SURCHARGED
480 minute summer	S05	400	124.640	0.615	14.1	2.3195	0.0000	SURCHARGED
480 minute summer	S19	440	124.586	0.411	2.7	0.8405	0.0000	SURCHARGED
480 minute summer	S06	424	124.586	0.672	17.9	1.4634	0.0000	SURCHARGED
480 minute summer	HW07	448	124.587	0.874	17.6	0.0000	0.0000	OK
480 minute summer	S20	408	124.643	0.720	6.1	3.6192	0.0000	OK
480 minute summer	S24	400	124.642	0.760	7.3	2.0051	0.0000	OK
480 minute summer	S21	408	124.642	0.807	10.1	4.7251	0.0000	OK
480 minute summer	S22	408	124.642	0.843	4.8	3.8157	0.0000	SURCHARGED
480 minute summer	HW23	448	124.586	0.873	3.5	0.0000	0.0000	OK
480 minute summer	HW08	432	124.585	1.038	14.9	0.4725	0.0000	SURCHARGED
480 minute summer	S09	432	124.576	1.095	5.5	1.5675	0.0000	SURCHARGED
480 minute summer	S25	464	123.476	0.576	4.8	1.9013	0.0000	OK
480 minute summer	S26	456	123.476	0.754	2.7	1.9191	0.0000	SURCHARGED
480 minute summer	S10	208	122.735	0.038	5.7	0.0430	0.0000	OK
480 minute summer	S11	192	121.070	0.070	5.7	0.0606	0.0000	OK
480 minute summer	S12	240	120.916	0.042	9.2	0.0741	0.0000	OK
480 minute summer	S13	240	117.493	0.049	13.1	0.0736	0.0000	OK
480 minute summer	S27	248	117.454	0.029	4.6	0.0455	0.0000	OK
480 minute summer	BC28	304	114.906	0.331	9.8	0.0801	0.0000	OK
480 minute summer	BC29	296	114.907	0.667	11.1	0.0000	0.0000	SURCHARGED
480 minute summer	S30	296	114.907	0.677	5.1	1.4332	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
480 minute summer	S01	1.000	S02	3.4	0.957	0.105	0.1644	
480 minute summer	S02	1.001	S03	7.4	1.749	0.180	0.0561	
480 minute summer	S03	1.002	S04	9.3	0.071	0.002	34.1031	
480 minute summer	S04	1.003	S05	6.8	0.245	0.107	0.1171	
480 minute summer	S05	Hydro-Brake®	S06	13.6				
480 minute summer	S19	2.000	S06	2.7	0.575	0.186	0.2539	
480 minute summer	S06	1.005	HW07	17.6	0.723	0.276	0.6451	
480 minute summer	HW07	Flow through pond	HW08	11.9	0.068	0.000	117.9572	
480 minute summer	S20	3.000	S21	4.1	0.189	0.001	15.7677	
480 minute summer	S24	4.000	S21	5.4	0.200	0.001	17.5470	
480 minute summer	S21	3.001	S22	4.8	0.172	0.001	7.1879	
480 minute summer	S22	Hydro-Brake®	HW23	3.5				
480 minute summer	HW23	Flow through pond	HW08	11.9	0.068	0.000	117.9572	
480 minute summer	HW08	1.006	S09	5.5	0.395	0.382	0.1705	
480 minute summer	S09	Hydro-Brake®	S10	5.4				
480 minute summer	S25	5.000	S26	2.7	0.136	0.001	22.8031	
480 minute summer	S26	Hydro-Brake®	S10	0.4				
480 minute summer	S10	1.008	S11	5.7	0.995	0.141	0.1940	
480 minute summer	S11	1.009	S12	5.7	1.007	0.392	0.1132	
480 minute summer	S12	1.010	S13	9.2	2.030	0.175	0.1801	
480 minute summer	S13	1.011	S14	13.1	2.290	0.228	0.1809	
480 minute summer	S27	6.000	BC28	4.6	1.966	0.079	0.0394	
480 minute summer	BC28	6.001	BC29	11.1	0.060	0.001	25.1165	
480 minute summer	BC29	6.002	S30	4.3	0.172	0.118	0.0793	
480 minute summer	S30	Hydro-Brake®	S14	4.5				

Results for 100 year 480 minute summer. 720 minute analysis at 8 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
480 minute summer	S14	240	114.259	0.059	19.2	0.1150	0.0000	OK
480 minute summer	BC15	464	113.306	0.528	19.2	0.0000	0.0000	OK
480 minute summer	BC16	464	113.307	0.758	13.4	0.0000	0.0000	SURCHARGED
480 minute summer	S31	248	113.959	0.021	1.9	0.0282	0.0000	OK
480 minute summer	BC32	464	113.306	0.456	4.4	0.0000	0.0000	OK
480 minute summer	BC33	464	113.306	0.726	5.9	0.0966	0.0000	SURCHARGED
480 minute summer	S17	464	113.306	0.776	16.2	3.1095	0.0000	SURCHARGED
480 minute summer	S18	688	112.584	0.080	11.0	0.0904	0.0000	OK
480 minute summer	OUTFALL	688	112.505	0.077	11.0	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
480 minute summer	S14	1.012	BC15	19.2	2.391	0.138	0.0510	
480 minute summer	BC15	1.013	BC16	13.4	0.075	0.001	88.8157	
480 minute summer	BC16	1.014	S17	9.6	0.262	0.122	0.2531	
480 minute summer	S31	7.000	BC32	1.9	1.073	0.016	0.0040	
480 minute summer	BC32	7.001	BC33	-2.5	0.031	0.000	47.8746	
480 minute summer	BC33	7.002	S17	-4.9	-0.160	-0.057	0.5881	
480 minute summer	S17	Hydro-Brake®	S18	11.0				
480 minute summer	S18	1.016	OUTFALL	11.0	0.889	0.259	0.1421	406.2

Results for 100 year 480 minute winter. 720 minute analysis at 8 minute timestep. Mass balance: 99.34%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
480 minute winter	S01	248	127.535	0.028	2.5	0.0446	0.0000	OK
480 minute winter	S02	248	126.036	0.038	5.5	0.0857	0.0000	OK
480 minute winter	S03	448	124.750	0.605	10.5	0.4292	0.0000	OK
480 minute winter	S04	448	124.750	0.719	7.7	0.0000	0.0000	SURCHARGED
480 minute winter	S05	448	124.750	0.725	11.2	2.7346	0.0000	SURCHARGED
480 minute winter	S19	464	124.694	0.519	2.0	1.0594	0.0000	SURCHARGED
480 minute winter	S06	456	124.693	0.779	14.1	1.6980	0.0000	SURCHARGED
480 minute winter	HW07	464	124.694	0.981	13.9	0.0000	0.0000	OK
480 minute winter	S20	448	124.754	0.831	4.5	4.1816	0.0000	OK
480 minute winter	S24	448	124.754	0.872	5.4	2.3000	0.0000	OK
480 minute winter	S21	448	124.754	0.919	7.6	5.3796	0.0000	OK
480 minute winter	S22	448	124.754	0.955	4.1	4.3217	0.0000	SURCHARGED
480 minute winter	HW23	456	124.694	0.981	3.7	0.0000	0.0000	OK
480 minute winter	HW08	464	124.693	1.147	12.3	0.5218	0.0000	SURCHARGED
480 minute winter	S09	464	124.684	1.203	5.5	1.7214	0.0000	SURCHARGED
480 minute winter	S25	464	123.567	0.667	3.6	2.2003	0.0000	OK
480 minute winter	S26	464	123.567	0.845	2.9	2.1503	0.0000	SURCHARGED
480 minute winter	S10	168	122.735	0.038	5.7	0.0431	0.0000	OK
480 minute winter	S11	160	121.070	0.070	5.7	0.0607	0.0000	OK
480 minute winter	S12	232	120.913	0.040	8.1	0.0696	0.0000	OK
480 minute winter	S13	240	117.489	0.045	11.0	0.0673	0.0000	OK
480 minute winter	S27	248	117.450	0.025	3.5	0.0398	0.0000	OK
480 minute winter	BC28	320	114.911	0.336	6.2	0.0812	0.0000	OK
480 minute winter	BC29	328	114.910	0.670	7.7	0.0000	0.0000	SURCHARGED
480 minute winter	S30	328	114.911	0.680	4.8	1.4405	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
480 minute winter	S01	1.000	S02	2.5	0.874	0.077	0.1326	
480 minute winter	S02	1.001	S03	5.5	1.608	0.134	0.0453	
480 minute winter	S03	1.002	S04	7.7	0.108	0.001	40.9031	
480 minute winter	S04	1.003	S05	6.0	0.241	0.094	0.1171	
480 minute winter	S05	Hydro-Brake®	S06	10.8				
480 minute winter	S19	2.000	S06	1.9	0.534	0.131	0.2539	
480 minute winter	S06	1.005	HW07	13.9	0.707	0.218	0.6451	
480 minute winter	HW07	Flow through pond	HW08	10.0	0.056	0.000	142.2442	
480 minute winter	S20	3.000	S21	3.1	0.197	0.001	18.6769	
480 minute winter	S24	4.000	S21	4.2	0.197	0.001	20.6726	
480 minute winter	S21	3.001	S22	4.1	0.267	0.001	8.3789	
480 minute winter	S22	Hydro-Brake®	HW23	3.2				
480 minute winter	HW23	Flow through pond	HW08	10.0	0.056	0.000	142.2442	
480 minute winter	HW08	1.006	S09	5.5	0.396	0.380	0.1705	
480 minute winter	S09	Hydro-Brake®	S10	5.4				
480 minute winter	S25	5.000	S26	2.9	0.187	0.001	26.5571	
480 minute winter	S26	Hydro-Brake®	S10	0.4				
480 minute winter	S10	1.008	S11	5.7	0.992	0.141	0.1942	
480 minute winter	S11	1.009	S12	5.7	1.018	0.392	0.1109	
480 minute winter	S12	1.010	S13	8.1	2.011	0.154	0.1616	
480 minute winter	S13	1.011	S14	11.0	2.151	0.192	0.1623	
480 minute winter	S27	6.000	BC28	3.5	1.814	0.060	0.0325	
480 minute winter	BC28	6.001	BC29	7.7	0.045	0.001	25.2948	
480 minute winter	BC29	6.002	S30	4.1	0.172	0.113	0.0793	
480 minute winter	S30	Hydro-Brake®	S14	4.5				

Results for 100 year 480 minute winter. 720 minute analysis at 8 minute timestep. Mass balance: 99.34%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
480 minute winter	S14	240	114.255	0.055	16.8	0.1070	0.0000	OK
480 minute winter	BC15	488	113.448	0.670	16.8	0.0000	0.0000	OK
480 minute winter	BC16	480	113.448	0.900	13.2	0.0000	0.0000	SURCHARGED
480 minute winter	S31	240	113.956	0.018	1.4	0.0243	0.0000	OK
480 minute winter	BC32	488	113.448	0.598	3.4	0.0000	0.0000	OK
480 minute winter	BC33	488	113.448	0.867	4.3	0.1154	0.0000	SURCHARGED
480 minute winter	S17	480	113.447	0.917	14.8	3.6752	0.0000	SURCHARGED
480 minute winter	S18	224	112.584	0.080	11.0	0.0904	0.0000	OK
480 minute winter	OUTFALL	224	112.504	0.077	11.0	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
480 minute winter	S14	1.012	BC15	16.8	2.305	0.121	0.0462	
480 minute winter	BC15	1.013	BC16	13.2	0.081	0.001	108.3532	
480 minute winter	BC16	1.014	S17	9.1	0.264	0.116	0.2531	
480 minute winter	S31	7.000	BC32	1.4	0.979	0.012	0.0032	
480 minute winter	BC32	7.001	BC33	-2.0	0.029	0.000	59.3435	
480 minute winter	BC33	7.002	S17	-3.6	-0.206	-0.042	0.5881	
480 minute winter	S17	Hydro-Brake®	S18	11.0				
480 minute winter	S18	1.016	OUTFALL	11.0	0.889	0.259	0.1421	393.6

Results for 100 year 600 minute summer. 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 summer	S01	315	127.537	0.030	2.8	0.0471	0.0000	OK
600 minute summer	S02	315	126.038	0.040	6.1	0.0904	0.0000	OK
600 minute summer	S03	480	124.629	0.484	11.6	0.3433	0.0000	OK
600 minute summer	S04	480	124.629	0.598	8.1	0.0000	0.0000	SURCHARGED
600 minute summer	S05	480	124.629	0.604	12.0	2.2778	0.0000	SURCHARGED
600 minute summer	S19	510	124.575	0.400	2.3	0.8163	0.0000	SURCHARGED
600 minute summer	S06	510	124.575	0.661	15.3	1.4393	0.0000	SURCHARGED
600 minute summer	HW07	480	124.575	0.862	15.1	0.0000	0.0000	OK
600 minute summer	S20	465	124.632	0.709	5.0	3.5648	0.0000	OK
600 minute summer	S24	465	124.632	0.750	6.0	1.9773	0.0000	OK
600 minute summer	S21	465	124.632	0.797	8.4	4.6628	0.0000	OK
600 minute summer	S22	465	124.632	0.833	4.2	3.7675	0.0000	SURCHARGED
600 minute summer	HW23	510	124.574	0.861	3.1	0.0000	0.0000	OK
600 minute summer	HW08	495	124.574	1.028	13.2	0.4677	0.0000	SURCHARGED
600 minute summer	S09	495	124.566	1.085	5.5	1.5524	0.0000	SURCHARGED
600 minute summer	S25	510	123.476	0.575	3.9	1.8991	0.0000	OK
600 minute summer	S26	525	123.475	0.753	2.8	1.9175	0.0000	SURCHARGED
600 minute summer	S10	270	122.735	0.038	5.6	0.0430	0.0000	OK
600 minute summer	S11	255	121.070	0.070	5.6	0.0606	0.0000	OK
600 minute summer	S12	300	120.914	0.041	8.6	0.0718	0.0000	OK
600 minute summer	S13	300	117.490	0.046	11.8	0.0698	0.0000	OK
600 minute summer	S27	315	117.451	0.026	3.8	0.0415	0.0000	OK
600 minute summer	BC28	360	114.831	0.256	8.0	0.0620	0.0000	OK
600 minute summer	BC29	360	114.835	0.594	6.4	0.0000	0.0000	SURCHARGED
600 minute summer	S30	360	114.835	0.605	4.7	1.2803	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
600 minute summer	S01	1.000	S02	2.8	0.906	0.087	0.1431	
600 minute summer	S02	1.001	S03	6.1	1.657	0.148	0.0488	
600 minute summer	S03	1.002	S04	8.1	0.060	0.002	33.4198	
600 minute summer	S04	1.003	S05	6.7	0.246	0.105	0.1171	
600 minute summer	S05	Hydro-Brake®	S06	11.6				
600 minute summer	S19	2.000	S06	2.3	0.552	0.158	0.2539	
600 minute summer	S06	1.005	HW07	15.1	0.701	0.236	0.6451	
600 minute summer	HW07	Flow through pond	HW08	10.7	0.055	0.000	115.7983	
600 minute summer	S20	3.000	S21	3.5	0.185	0.001	15.4877	
600 minute summer	S24	4.000	S21	4.4	0.198	0.001	17.2492	
600 minute summer	S21	3.001	S22	4.2	0.134	0.001	7.0733	
600 minute summer	S22	Hydro-Brake®	HW23	3.1				
600 minute summer	HW23	Flow through pond	HW08	10.7	0.055	0.000	115.7983	
600 minute summer	HW08	1.006	S09	5.5	0.388	0.381	0.1705	
600 minute summer	S09	Hydro-Brake®	S10	5.4				
600 minute summer	S25	5.000	S26	2.8	0.094	0.001	22.7748	
600 minute summer	S26	Hydro-Brake®	S10	0.4				
600 minute summer	S10	1.008	S11	5.6	0.994	0.141	0.1938	
600 minute summer	S11	1.009	S12	5.7	1.007	0.392	0.1121	
600 minute summer	S12	1.010	S13	8.6	2.023	0.164	0.1695	
600 minute summer	S13	1.011	S14	11.8	2.211	0.206	0.1693	
600 minute summer	S27	6.000	BC28	3.8	1.859	0.065	0.0345	
600 minute summer	BC28	6.001	BC29	6.4	0.036	0.001	21.4494	
600 minute summer	BC29	6.002	S30	4.1	0.170	0.112	0.0793	
600 minute summer	S30	Hydro-Brake®	S14	4.5				

Results for 100 year 600 minute summer. 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 summer	S14	300	114.257	0.057	17.7	0.1100	0.0000	OK
600 minute summer	BC15	510	113.298	0.519	17.7	0.0000	0.0000	OK
600 minute summer	BC16	510	113.297	0.749	13.9	0.0000	0.0000	SURCHARGED
600 minute summer	S31	315	113.957	0.019	1.6	0.0259	0.0000	OK
600 minute summer	BC32	510	113.297	0.447	3.5	0.0000	0.0000	OK
600 minute summer	BC33	510	113.297	0.717	4.8	0.0953	0.0000	SURCHARGED
600 minute summer	S17	510	113.296	0.766	15.2	3.0706	0.0000	SURCHARGED
600 minute summer	S18	765	112.584	0.080	11.0	0.0904	0.0000	OK
600 minute summer	OUTFALL	765	112.505	0.077	11.0	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
600 minute summer	S14	1.012	BC15	17.7	2.337	0.127	0.0479	
600 minute summer	BC15	1.013	BC16	13.9	0.064	0.001	87.5280	
600 minute summer	BC16	1.014	S17	9.6	0.250	0.122	0.2531	
600 minute summer	S31	7.000	BC32	1.6	1.020	0.014	0.0035	
600 minute summer	BC32	7.001	BC33	2.3	0.013	0.000	47.1190	
600 minute summer	BC33	7.002	S17	-4.0	-0.125	-0.047	0.5881	
600 minute summer	S17	Hydro-Brake®	S18	11.0				
600 minute summer	S18	1.016	OUTFALL	11.0	0.889	0.259	0.1421	465.5

Results for 100 year 600 minute winter. 840 minute analysis at 15 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
600 minute winter	S01	315	127.533	0.026	2.1	0.0410	0.0000	OK
600 minute winter	S02	315	126.032	0.034	4.6	0.0782	0.0000	OK
600 minute winter	S03	510	124.730	0.585	8.8	0.4151	0.0000	OK
600 minute winter	S04	510	124.730	0.699	6.4	0.0000	0.0000	SURCHARGED
600 minute winter	S05	510	124.730	0.705	9.6	2.6595	0.0000	SURCHARGED
600 minute winter	S19	555	124.675	0.500	1.7	1.0219	0.0000	SURCHARGED
600 minute winter	S06	570	124.675	0.761	12.1	1.6591	0.0000	SURCHARGED
600 minute winter	HW07	570	124.676	0.963	12.0	0.0000	0.0000	OK
600 minute winter	S20	480	124.734	0.811	3.8	4.0801	0.0000	OK
600 minute winter	S24	480	124.734	0.852	4.6	2.2469	0.0000	OK
600 minute winter	S21	480	124.734	0.899	6.6	5.2616	0.0000	OK
600 minute winter	S22	480	124.734	0.935	3.7	4.2304	0.0000	SURCHARGED
600 minute winter	HW23	570	124.675	0.962	3.0	0.0000	0.0000	OK
600 minute winter	HW08	555	124.674	1.128	11.0	0.5134	0.0000	SURCHARGED
600 minute winter	S09	555	124.666	1.185	5.5	1.6953	0.0000	SURCHARGED
600 minute winter	S25	570	123.568	0.668	3.0	2.2051	0.0000	OK
600 minute winter	S26	570	123.568	0.846	2.1	2.1538	0.0000	SURCHARGED
600 minute winter	S10	240	122.735	0.038	5.6	0.0430	0.0000	OK
600 minute winter	S11	210	121.070	0.070	5.6	0.0607	0.0000	OK
600 minute winter	S12	285	120.912	0.039	7.7	0.0678	0.0000	OK
600 minute winter	S13	300	117.487	0.043	10.1	0.0643	0.0000	OK
600 minute winter	S27	315	117.448	0.023	2.9	0.0363	0.0000	OK
600 minute winter	BC28	390	114.805	0.230	5.4	0.0557	0.0000	OK
600 minute winter	BC29	390	114.804	0.564	7.8	0.0000	0.0000	SURCHARGED
600 minute winter	S30	390	114.803	0.573	4.9	1.2135	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
600 minute winter	S01	1.000	S02	2.1	0.833	0.065	0.1168	
600 minute winter	S02	1.001	S03	4.6	1.529	0.112	0.0398	
600 minute winter	S03	1.002	S04	6.4	0.055	0.001	39.6724	
600 minute winter	S04	1.003	S05	5.6	0.240	0.088	0.1171	
600 minute winter	S05	Hydro-Brake®	S06	9.4				
600 minute winter	S19	2.000	S06	1.6	0.504	0.110	0.2539	
600 minute winter	S06	1.005	HW07	12.0	0.685	0.188	0.6451	
600 minute winter	HW07	Flow through pond	HW08	9.1	0.053	0.000	137.9233	
600 minute winter	S20	3.000	S21	2.7	0.191	0.001	18.1559	
600 minute winter	S24	4.000	S21	3.4	0.190	0.001	20.1137	
600 minute winter	S21	3.001	S22	3.7	0.139	0.001	8.1667	
600 minute winter	S22	Hydro-Brake®	HW23	3.0				
600 minute winter	HW23	Flow through pond	HW08	9.1	0.053	0.000	137.9233	
600 minute winter	HW08	1.006	S09	5.5	0.390	0.379	0.1705	
600 minute winter	S09	Hydro-Brake®	S10	5.4				
600 minute winter	S25	5.000	S26	2.1	0.107	0.001	26.6142	
600 minute winter	S26	Hydro-Brake®	S10	0.4				
600 minute winter	S10	1.008	S11	5.6	0.991	0.141	0.1941	
600 minute winter	S11	1.009	S12	5.7	1.016	0.392	0.1101	
600 minute winter	S12	1.010	S13	7.7	2.007	0.146	0.1533	
600 minute winter	S13	1.011	S14	10.1	2.083	0.175	0.1534	
600 minute winter	S27	6.000	BC28	2.9	1.719	0.050	0.0284	
600 minute winter	BC28	6.001	BC29	7.8	0.043	0.001	20.0145	
600 minute winter	BC29	6.002	S30	4.2	0.161	0.113	0.0793	
600 minute winter	S30	Hydro-Brake®	S14	4.5				

Results for 100 year 600 minute winter. 840 minute analysis at 15 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
600 minute winter	S14	300	114.253	0.053	15.6	0.1031	0.0000	OK
600 minute winter	BC15	555	113.433	0.655	15.6	0.0000	0.0000	OK
600 minute winter	BC16	555	113.434	0.886	13.6	0.0000	0.0000	SURCHARGED
600 minute winter	S31	315	113.955	0.017	1.2	0.0226	0.0000	OK
600 minute winter	BC32	555	113.433	0.583	2.9	0.0000	0.0000	OK
600 minute winter	BC33	555	113.433	0.853	3.4	0.1135	0.0000	SURCHARGED
600 minute winter	S17	555	113.433	0.903	14.1	3.6194	0.0000	SURCHARGED
600 minute winter	S18	285	112.584	0.080	11.0	0.0904	0.0000	OK
600 minute winter	OUTFALL	285	112.505	0.077	11.0	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
600 minute winter	S14	1.012	BC15	15.6	2.261	0.113	0.0438	
600 minute winter	BC15	1.013	BC16	13.6	0.077	0.001	106.3352	
600 minute winter	BC16	1.014	S17	9.1	0.264	0.117	0.2531	
600 minute winter	S31	7.000	BC32	1.2	0.935	0.010	0.0029	
600 minute winter	BC32	7.001	BC33	1.9	0.023	0.000	58.1624	
600 minute winter	BC33	7.002	S17	-2.8	-0.180	-0.033	0.5881	
600 minute winter	S17	Hydro-Brake®	S18	11.0				
600 minute winter	S18	1.016	OUTFALL	11.0	0.889	0.259	0.1421	456.8

Results for 100 year 720 minute summer. 960 minute analysis at 15 minute timestep. Mass balance: 99.64%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
720 minute summer	S01	375	127.535	0.028	2.5	0.0446	0.0000	OK
720 minute summer	S02	375	126.035	0.037	5.4	0.0849	0.0000	OK
720 minute summer	S03	540	124.617	0.472	10.3	0.3346	0.0000	OK
720 minute summer	S04	540	124.617	0.586	7.1	0.0000	0.0000	SURCHARGED
720 minute summer	S05	540	124.617	0.592	10.8	2.2316	0.0000	SURCHARGED
720 minute summer	S19	570	124.562	0.387	2.0	0.7903	0.0000	SURCHARGED
720 minute summer	S06	555	124.563	0.648	13.7	1.4130	0.0000	SURCHARGED
720 minute summer	HW07	570	124.563	0.850	13.5	0.0000	0.0000	OK
720 minute summer	S20	540	124.620	0.696	4.4	3.5034	0.0000	OK
720 minute summer	S24	540	124.619	0.737	5.4	1.9445	0.0000	OK
720 minute summer	S21	540	124.619	0.784	7.5	4.5905	0.0000	OK
720 minute summer	S22	540	124.619	0.820	4.0	3.7117	0.0000	SURCHARGED
720 minute summer	HW23	570	124.562	0.850	3.0	0.0000	0.0000	OK
720 minute summer	HW08	570	124.562	1.016	12.1	0.4621	0.0000	SURCHARGED
720 minute summer	S09	570	124.554	1.073	5.5	1.5350	0.0000	SURCHARGED
720 minute summer	S25	615	123.468	0.568	3.5	1.8739	0.0000	OK
720 minute summer	S26	585	123.468	0.746	2.5	1.8987	0.0000	SURCHARGED
720 minute summer	S10	315	122.735	0.038	5.7	0.0430	0.0000	OK
720 minute summer	S11	300	121.070	0.070	5.7	0.0606	0.0000	OK
720 minute summer	S12	360	120.913	0.040	8.2	0.0701	0.0000	OK
720 minute summer	S13	360	117.489	0.045	11.0	0.0673	0.0000	OK
720 minute summer	S27	375	117.450	0.025	3.4	0.0392	0.0000	OK
720 minute summer	BC28	420	114.774	0.199	6.0	0.0480	0.0000	OK
720 minute summer	BC29	435	114.774	0.534	7.5	0.0000	0.0000	SURCHARGED
720 minute summer	S30	435	114.774	0.544	5.0	1.1524	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
720 minute summer	S01	1.000	S02	2.5	0.881	0.077	0.1315	
720 minute summer	S02	1.001	S03	5.4	1.600	0.131	0.0447	
720 minute summer	S03	1.002	S04	7.1	0.058	0.001	32.6633	
720 minute summer	S04	1.003	S05	5.4	0.236	0.085	0.1171	
720 minute summer	S05	Hydro-Brake®	S06	10.5				
720 minute summer	S19	2.000	S06	2.0	0.543	0.138	0.2539	
720 minute summer	S06	1.005	HW07	13.5	0.704	0.211	0.6451	
720 minute summer	HW07	Flow through pond	HW08	9.9	0.051	0.000	113.3027	
720 minute summer	S20	3.000	S21	3.1	0.190	0.001	15.1666	
720 minute summer	S24	4.000	S21	3.6	0.190	0.001	16.8996	
720 minute summer	S21	3.001	S22	4.0	0.133	0.001	6.9402	
720 minute summer	S22	Hydro-Brake®	HW23	3.0				
720 minute summer	HW23	Flow through pond	HW08	9.9	0.051	0.000	113.3027	
720 minute summer	HW08	1.006	S09	5.5	0.384	0.380	0.1705	
720 minute summer	S09	Hydro-Brake®	S10	5.4				
720 minute summer	S25	5.000	S26	2.5	0.086	0.001	22.4599	
720 minute summer	S26	Hydro-Brake®	S10	0.4				
720 minute summer	S10	1.008	S11	5.7	0.992	0.141	0.1939	
720 minute summer	S11	1.009	S12	5.7	1.007	0.392	0.1111	
720 minute summer	S12	1.010	S13	8.2	2.016	0.156	0.1625	
720 minute summer	S13	1.011	S14	11.0	2.158	0.192	0.1619	
720 minute summer	S27	6.000	BC28	3.4	1.799	0.058	0.0318	
720 minute summer	BC28	6.001	BC29	7.5	0.035	0.001	18.3941	
720 minute summer	BC29	6.002	S30	4.2	0.169	0.115	0.0793	
720 minute summer	S30	Hydro-Brake®	S14	4.5				

Results for 100 year 720 minute summer. 960 minute analysis at 15 minute timestep. Mass balance: 99.64%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
720 minute summer	S14	360	114.255	0.055	16.7	0.1067	0.0000	OK
720 minute summer	BC15	555	113.285	0.506	16.7	0.0000	0.0000	OK
720 minute summer	BC16	555	113.284	0.736	12.8	0.0000	0.0000	SURCHARGED
720 minute summer	S31	375	113.956	0.018	1.4	0.0243	0.0000	OK
720 minute summer	BC32	555	113.284	0.434	3.1	0.0000	0.0000	OK
720 minute summer	BC33	555	113.284	0.704	4.2	0.0936	0.0000	SURCHARGED
720 minute summer	S17	555	113.284	0.754	14.7	3.0202	0.0000	SURCHARGED
720 minute summer	S18	840	112.584	0.080	11.0	0.0904	0.0000	OK
720 minute summer	OUTFALL	840	112.505	0.077	11.0	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
720 minute summer	S14	1.012	BC15	16.7	2.301	0.120	0.0459	
720 minute summer	BC15	1.013	BC16	12.8	0.065	0.001	85.7651	
720 minute summer	BC16	1.014	S17	9.6	0.250	0.122	0.2531	
720 minute summer	S31	7.000	BC32	1.4	0.979	0.012	0.0032	
720 minute summer	BC32	7.001	BC33	-1.7	0.013	0.000	46.0814	
720 minute summer	BC33	7.002	S17	-3.5	-0.133	-0.040	0.5881	
720 minute summer	S17	Hydro-Brake®	S18	11.0				
720 minute summer	S18	1.016	OUTFALL	11.0	0.889	0.259	0.1421	525.5

Results for 100 year 720 minute winter. 960 minute analysis at 15 minute timestep. Mass balance: 99.50%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
720 minute winter	S01	375	127.532	0.025	1.9	0.0390	0.0000	OK
720 minute winter	S02	375	126.030	0.032	4.1	0.0738	0.0000	OK
720 minute winter	S03	570	124.720	0.575	7.8	0.4075	0.0000	OK
720 minute winter	S04	570	124.720	0.689	5.8	0.0000	0.0000	SURCHARGED
720 minute winter	S05	570	124.720	0.695	8.6	2.6194	0.0000	SURCHARGED
720 minute winter	S19	600	124.664	0.489	1.5	0.9982	0.0000	SURCHARGED
720 minute winter	S06	615	124.663	0.749	10.8	1.6328	0.0000	SURCHARGED
720 minute winter	HW07	600	124.665	0.953	10.6	0.0000	0.0000	OK
720 minute winter	S20	570	124.723	0.800	3.3	4.0235	0.0000	OK
720 minute winter	S24	570	124.723	0.841	4.0	2.2175	0.0000	OK
720 minute winter	S21	570	124.723	0.888	5.8	5.1960	0.0000	OK
720 minute winter	S22	570	124.723	0.924	3.4	4.1798	0.0000	SURCHARGED
720 minute winter	HW23	600	124.664	0.951	3.6	0.0000	0.0000	OK
720 minute winter	HW08	600	124.663	1.117	10.1	0.5080	0.0000	SURCHARGED
720 minute winter	S09	600	124.654	1.173	5.5	1.6785	0.0000	SURCHARGED
720 minute winter	S25	675	123.572	0.672	2.6	2.2174	0.0000	OK
720 minute winter	S26	675	123.572	0.850	2.1	2.1634	0.0000	SURCHARGED
720 minute winter	S10	285	122.735	0.038	5.7	0.0431	0.0000	OK
720 minute winter	S11	270	121.070	0.070	5.7	0.0607	0.0000	OK
720 minute winter	S12	345	120.911	0.038	7.5	0.0668	0.0000	OK
720 minute winter	S13	360	117.486	0.041	9.6	0.0626	0.0000	OK
720 minute winter	S27	375	117.447	0.022	2.6	0.0344	0.0000	OK
720 minute winter	BC28	450	114.713	0.138	4.8	0.0333	0.0000	OK
720 minute winter	BC29	450	114.711	0.471	7.3	0.0000	0.0000	SURCHARGED
720 minute winter	S30	450	114.710	0.480	4.8	1.0167	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
720 minute winter	S01	1.000	S02	1.9	0.814	0.059	0.1080	
720 minute winter	S02	1.001	S03	4.1	1.480	0.100	0.0367	
720 minute winter	S03	1.002	S04	5.8	0.052	0.001	39.0157	
720 minute winter	S04	1.003	S05	4.9	0.234	0.077	0.1171	
720 minute winter	S05	Hydro-Brake®	S06	8.3				
720 minute winter	S19	2.000	S06	1.5	0.504	0.104	0.2539	
720 minute winter	S06	1.005	HW07	10.6	0.664	0.167	0.6451	
720 minute winter	HW07	Flow through pond	HW08	8.4	0.051	0.000	135.1912	
720 minute winter	S20	3.000	S21	2.4	0.185	0.000	17.8651	
720 minute winter	S24	4.000	S21	3.1	0.198	0.001	19.8030	
720 minute winter	S21	3.001	S22	3.4	0.141	0.001	8.0486	
720 minute winter	S22	Hydro-Brake®	HW23	2.7				
720 minute winter	HW23	Flow through pond	HW08	8.4	0.051	0.000	135.1912	
720 minute winter	HW08	1.006	S09	5.5	0.389	0.378	0.1705	
720 minute winter	S09	Hydro-Brake®	S10	5.4				
720 minute winter	S25	5.000	S26	2.1	0.107	0.001	26.7654	
720 minute winter	S26	Hydro-Brake®	S10	0.4				
720 minute winter	S10	1.008	S11	5.7	0.990	0.141	0.1941	
720 minute winter	S11	1.009	S12	5.7	1.014	0.392	0.1096	
720 minute winter	S12	1.010	S13	7.5	2.008	0.142	0.1491	
720 minute winter	S13	1.011	S14	9.6	2.049	0.167	0.1482	
720 minute winter	S27	6.000	BC28	2.6	1.663	0.044	0.0264	
720 minute winter	BC28	6.001	BC29	7.3	0.046	0.001	15.3346	
720 minute winter	BC29	6.002	S30	3.9	0.162	0.106	0.0793	
720 minute winter	S30	Hydro-Brake®	S14	4.5				

Results for 100 year 720 minute winter. 960 minute analysis at 15 minute timestep. Mass balance: 99.50%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
720 minute winter	S14	360	114.252	0.052	14.9	0.1006	0.0000	OK
720 minute winter	BC15	585	113.404	0.626	14.9	0.0000	0.0000	OK
720 minute winter	BC16	600	113.404	0.856	12.3	0.0000	0.0000	SURCHARGED
720 minute winter	S31	360	113.953	0.015	1.0	0.0208	0.0000	OK
720 minute winter	BC32	585	113.404	0.554	2.3	0.0000	0.0000	OK
720 minute winter	BC33	585	113.404	0.824	3.1	0.1095	0.0000	SURCHARGED
720 minute winter	S17	600	113.404	0.874	13.7	3.5006	0.0000	SURCHARGED
720 minute winter	S18	345	112.584	0.080	11.0	0.0904	0.0000	OK
720 minute winter	OUTFALL	345	112.505	0.077	11.0	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
720 minute winter	S14	1.012	BC15	14.9	2.233	0.107	0.0424	
720 minute winter	BC15	1.013	BC16	12.3	0.069	0.001	102.2862	
720 minute winter	BC16	1.014	S17	9.1	0.244	0.117	0.2531	
720 minute winter	S31	7.000	BC32	1.0	0.886	0.009	0.0025	
720 minute winter	BC32	7.001	BC33	1.5	0.011	0.000	55.7845	
720 minute winter	BC33	7.002	S17	-2.6	-0.157	-0.030	0.5881	
720 minute winter	S17	Hydro-Brake®	S18	11.0				
720 minute winter	S18	1.016	OUTFALL	11.0	0.889	0.259	0.1421	526.2

Results for 100 year 960 minute summer. 1200 minute analysis at 15 minute timestep. Mass balance: 99.73%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
960 minute summer	S01	495	127.532	0.025	2.0	0.0400	0.0000	OK
960 minute summer	S02	495	126.032	0.034	4.4	0.0765	0.0000	OK
960 minute summer	S03	675	124.597	0.451	8.4	0.3201	0.0000	OK
960 minute summer	S04	675	124.597	0.565	5.7	0.0000	0.0000	SURCHARGED
960 minute summer	S05	675	124.597	0.571	9.0	2.1545	0.0000	SURCHARGED
960 minute summer	S19	705	124.542	0.367	1.6	0.7500	0.0000	SURCHARGED
960 minute summer	S06	690	124.543	0.628	11.3	1.3695	0.0000	SURCHARGED
960 minute summer	HW07	690	124.544	0.831	11.1	0.0000	0.0000	OK
960 minute summer	S20	675	124.598	0.675	3.6	3.3972	0.0000	OK
960 minute summer	S24	675	124.599	0.716	4.4	1.8894	0.0000	OK
960 minute summer	S21	675	124.598	0.763	6.3	4.4676	0.0000	OK
960 minute summer	S22	675	124.598	0.799	3.6	3.6166	0.0000	SURCHARGED
960 minute summer	HW23	690	124.543	0.830	2.8	0.0000	0.0000	OK
960 minute summer	HW08	705	124.541	0.995	10.6	0.4528	0.0000	SURCHARGED
960 minute summer	S09	690	124.533	1.052	5.5	1.5060	0.0000	SURCHARGED
960 minute summer	S25	705	123.457	0.556	2.9	1.8364	0.0000	OK
960 minute summer	S26	705	123.457	0.735	2.3	1.8699	0.0000	SURCHARGED
960 minute summer	S10	435	122.735	0.038	5.7	0.0430	0.0000	OK
960 minute summer	S11	405	121.070	0.070	5.7	0.0607	0.0000	OK
960 minute summer	S12	480	120.912	0.039	7.7	0.0679	0.0000	OK
960 minute summer	S13	480	117.487	0.042	10.0	0.0641	0.0000	OK
960 minute summer	S27	495	117.448	0.023	2.8	0.0357	0.0000	OK
960 minute summer	BC28	540	114.674	0.099	4.9	0.0240	0.0000	OK
960 minute summer	BC29	540	114.677	0.437	7.8	0.0000	0.0000	SURCHARGED
960 minute summer	S30	540	114.677	0.447	4.9	0.9466	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
960 minute summer	S01	1.000	S02	2.0	0.820	0.062	0.1130	
960 minute summer	S02	1.001	S03	4.4	1.510	0.107	0.0386	
960 minute summer	S03	1.002	S04	5.7	0.054	0.001	31.4002	
960 minute summer	S04	1.003	S05	5.2	0.236	0.082	0.1171	
960 minute summer	S05	Hydro-Brake®	S06	8.8				
960 minute summer	S19	2.000	S06	1.6	0.504	0.110	0.2539	
960 minute summer	S06	1.005	HW07	11.1	0.674	0.174	0.6451	
960 minute summer	HW07	Flow through pond	HW08	8.8	0.051	0.000	109.1739	
960 minute summer	S20	3.000	S21	2.2	0.185	0.000	14.6166	
960 minute summer	S24	4.000	S21	3.4	0.198	0.001	16.3090	
960 minute summer	S21	3.001	S22	3.6	0.133	0.001	6.7132	
960 minute summer	S22	Hydro-Brake®	HW23	2.8				
960 minute summer	HW23	Flow through pond	HW08	8.8	0.051	0.000	109.1739	
960 minute summer	HW08	1.006	S09	5.5	0.385	0.379	0.1705	
960 minute summer	S09	Hydro-Brake®	S10	5.4				
960 minute summer	S25	5.000	S26	2.3	0.095	0.001	21.9847	
960 minute summer	S26	Hydro-Brake®	S10	0.4				
960 minute summer	S10	1.008	S11	5.7	0.991	0.141	0.1940	
960 minute summer	S11	1.009	S12	5.7	1.019	0.392	0.1102	
960 minute summer	S12	1.010	S13	7.7	2.012	0.147	0.1535	
960 minute summer	S13	1.011	S14	10.0	2.087	0.175	0.1524	
960 minute summer	S27	6.000	BC28	2.8	1.700	0.048	0.0278	
960 minute summer	BC28	6.001	BC29	7.8	0.034	0.001	13.5219	
960 minute summer	BC29	6.002	S30	3.8	0.170	0.103	0.0793	
960 minute summer	S30	Hydro-Brake®	S14	4.5				

Results for 100 year 960 minute summer. 1200 minute analysis at 15 minute timestep. Mass balance: 99.73%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
960 minute summer	S14	480	114.253	0.053	15.4	0.1024	0.0000	OK
960 minute summer	BC15	660	113.258	0.480	15.4	0.0000	0.0000	OK
960 minute summer	BC16	660	113.259	0.711	12.2	0.0000	0.0000	SURCHARGED
960 minute summer	S31	495	113.954	0.016	1.1	0.0217	0.0000	OK
960 minute summer	BC32	660	113.258	0.408	2.7	0.0000	0.0000	OK
960 minute summer	BC33	660	113.258	0.678	3.4	0.0902	0.0000	SURCHARGED
960 minute summer	S17	660	113.258	0.728	14.0	2.9189	0.0000	SURCHARGED
960 minute summer	S18	960	112.584	0.080	11.0	0.0904	0.0000	OK
960 minute summer	OUTFALL	960	112.505	0.077	11.0	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
960 minute summer	S14	1.012	BC15	15.4	2.253	0.111	0.0434	
960 minute summer	BC15	1.013	BC16	12.2	0.063	0.001	82.2105	
960 minute summer	BC16	1.014	S17	9.5	0.230	0.121	0.2531	
960 minute summer	S31	7.000	BC32	1.1	0.911	0.009	0.0027	
960 minute summer	BC32	7.001	BC33	1.9	0.013	0.000	43.9946	
960 minute summer	BC33	7.002	S17	-2.8	-0.103	-0.033	0.5881	
960 minute summer	S17	Hydro-Brake®	S18	11.0				
960 minute summer	S18	1.016	OUTFALL	11.0	0.889	0.259	0.1421	621.1

Results for 100 year 960 minute winter. 1200 minute analysis at 15 minute timestep. Mass balance: 99.67%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
960 minute winter	S01	480	127.529	0.022	1.5	0.0348	0.0000	OK
960 minute winter	S02	495	126.027	0.029	3.3	0.0662	0.0000	OK
960 minute winter	S03	720	124.689	0.544	6.3	0.3854	0.0000	OK
960 minute winter	S04	720	124.689	0.658	4.9	0.0000	0.0000	SURCHARGED
960 minute winter	S05	720	124.689	0.664	7.3	2.5017	0.0000	SURCHARGED
960 minute winter	S19	735	124.632	0.457	1.2	0.9344	0.0000	SURCHARGED
960 minute winter	S06	750	124.633	0.719	8.9	1.5659	0.0000	SURCHARGED
960 minute winter	HW07	750	124.633	0.920	8.8	0.0000	0.0000	OK
960 minute winter	S20	720	124.691	0.768	2.7	3.8645	0.0000	OK
960 minute winter	S24	720	124.691	0.809	3.3	2.1340	0.0000	OK
960 minute winter	S21	720	124.691	0.856	4.9	5.0109	0.0000	OK
960 minute winter	S22	720	124.691	0.892	3.1	4.0366	0.0000	SURCHARGED
960 minute winter	HW23	750	124.632	0.920	2.8	0.0000	0.0000	OK
960 minute winter	HW08	750	124.632	1.086	8.9	0.4940	0.0000	SURCHARGED
960 minute winter	S09	750	124.623	1.142	5.5	1.6348	0.0000	SURCHARGED
960 minute winter	S25	765	123.552	0.652	2.1	2.1512	0.0000	OK
960 minute winter	S26	765	123.552	0.830	1.9	2.1124	0.0000	SURCHARGED
960 minute winter	S10	390	122.735	0.038	5.7	0.0431	0.0000	OK
960 minute winter	S11	390	121.070	0.070	5.7	0.0607	0.0000	OK
960 minute winter	S12	450	120.910	0.037	7.1	0.0653	0.0000	OK
960 minute winter	S13	480	117.484	0.040	8.8	0.0600	0.0000	OK
960 minute winter	S27	495	117.445	0.020	2.1	0.0311	0.0000	OK
960 minute winter	BC28	495	114.581	0.006	3.7	0.0015	0.0000	OK
960 minute winter	BC29	555	114.576	0.336	3.7	0.0000	0.0000	SURCHARGED
960 minute winter	S30	555	114.576	0.346	4.5	0.7325	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
960 minute winter	S01	1.000	S02	1.5	0.764	0.046	0.0921	
960 minute winter	S02	1.001	S03	3.3	1.390	0.080	0.0315	
960 minute winter	S03	1.002	S04	4.9	0.054	0.001	37.0886	
960 minute winter	S04	1.003	S05	4.4	0.229	0.069	0.1171	
960 minute winter	S05	Hydro-Brake®	S06	7.3				
960 minute winter	S19	2.000	S06	1.2	0.468	0.083	0.2539	
960 minute winter	S06	1.005	HW07	8.8	0.646	0.138	0.6451	
960 minute winter	HW07	Flow through pond	HW08	7.6	0.051	0.000	128.1450	
960 minute winter	S20	3.000	S21	1.8	0.185	0.000	17.0424	
960 minute winter	S24	4.000	S21	2.6	0.198	0.001	18.9187	
960 minute winter	S21	3.001	S22	3.1	0.133	0.001	7.7119	
960 minute winter	S22	Hydro-Brake®	HW23	2.8				
960 minute winter	HW23	Flow through pond	HW08	7.6	0.051	0.000	128.1450	
960 minute winter	HW08	1.006	S09	5.5	0.386	0.377	0.1705	
960 minute winter	S09	Hydro-Brake®	S10	5.4				
960 minute winter	S25	5.000	S26	1.9	0.096	0.001	25.9485	
960 minute winter	S26	Hydro-Brake®	S10	0.4				
960 minute winter	S10	1.008	S11	5.7	0.989	0.141	0.1944	
960 minute winter	S11	1.009	S12	5.7	1.011	0.392	0.1091	
960 minute winter	S12	1.010	S13	7.1	2.004	0.136	0.1422	
960 minute winter	S13	1.011	S14	8.8	2.005	0.153	0.1402	
960 minute winter	S27	6.000	BC28	2.1	1.561	0.036	0.0227	
960 minute winter	BC28	6.001	BC29	3.7	0.050	0.000	8.6122	
960 minute winter	BC29	6.002	S30	3.2	0.167	0.089	0.0793	
960 minute winter	S30	Hydro-Brake®	S14	4.5				

Results for 100 year 960 minute winter. 1200 minute analysis at 15 minute timestep. Mass balance: 99.67%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
960 minute winter	S14	480	114.250	0.050	13.9	0.0969	0.0000	OK
960 minute winter	BC15	705	113.337	0.559	13.9	0.0000	0.0000	OK
960 minute winter	BC16	705	113.337	0.789	11.9	0.0000	0.0000	SURCHARGED
960 minute winter	S31	450	113.952	0.014	0.8	0.0186	0.0000	OK
960 minute winter	BC32	705	113.337	0.487	1.8	0.0000	0.0000	OK
960 minute winter	BC33	705	113.337	0.757	2.3	0.1006	0.0000	SURCHARGED
960 minute winter	S17	705	113.337	0.807	13.1	3.2324	0.0000	SURCHARGED
960 minute winter	S18	465	112.584	0.080	11.0	0.0904	0.0000	OK
960 minute winter	OUTFALL	465	112.505	0.077	11.0	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
960 minute winter	S14	1.012	BC15	13.9	2.190	0.100	0.0402	
960 minute winter	BC15	1.013	BC16	11.9	0.068	0.001	93.0444	
960 minute winter	BC16	1.014	S17	9.2	0.243	0.117	0.2531	
960 minute winter	S31	7.000	BC32	0.8	0.829	0.007	0.0022	
960 minute winter	BC32	7.001	BC33	1.5	0.013	0.000	50.3599	
960 minute winter	BC33	7.002	S17	2.2	-0.129	0.026	0.5881	
960 minute winter	S17	Hydro-Brake®	S18	11.0				
960 minute winter	S18	1.016	OUTFALL	11.0	0.889	0.259	0.1421	656.6

Results for 100 year +40% CC 15 minute summer. 255 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
15 minute summer	S01	10	127.603	0.096	24.2	0.1516	0.0000	OK
15 minute summer	S02	11	126.460	0.462	52.6	1.0522	0.0000	SURCHARGED
15 minute summer	S03	16	124.869	0.724	92.1	0.5133	0.0000	OK
15 minute summer	S04	17	124.866	0.835	96.1	0.0000	0.0000	SURCHARGED
15 minute summer	S05	17	124.868	0.843	64.4	3.1789	0.0000	SURCHARGED
15 minute summer	S19	11	124.394	0.219	19.6	0.4473	0.0000	SURCHARGED
15 minute summer	S06	48	124.309	0.395	60.8	0.8607	0.0000	SURCHARGED
15 minute summer	HW07	56	124.309	0.596	60.8	0.0000	0.0000	OK
15 minute summer	S20	20	124.480	0.557	43.3	2.8025	0.0000	OK
15 minute summer	S24	19	124.481	0.599	52.3	1.5790	0.0000	OK
15 minute summer	S21	18	124.482	0.647	88.8	3.7858	0.0000	OK
15 minute summer	S22	19	124.487	0.688	46.9	3.1141	0.0000	SURCHARGED
15 minute summer	HW23	51	124.310	0.597	4.8	0.0000	0.0000	OK
15 minute summer	HW08	52	124.309	0.763	56.1	0.3470	0.0000	SURCHARGED
15 minute summer	S09	51	124.300	0.819	7.2	1.1721	0.0000	SURCHARGED
15 minute summer	S25	21	123.232	0.332	37.5	1.0964	0.0000	OK
15 minute summer	S26	18	123.232	0.510	35.0	1.2985	0.0000	SURCHARGED
15 minute summer	S10	13	122.735	0.038	5.7	0.0432	0.0000	OK
15 minute summer	S11	21	121.070	0.070	5.7	0.0609	0.0000	OK
15 minute summer	S12	10	120.958	0.085	32.2	0.1475	0.0000	OK
15 minute summer	S13	12	117.666	0.222	59.7	0.3354	0.0000	SURCHARGED
15 minute summer	S27	10	117.508	0.083	33.2	0.1319	0.0000	OK
15 minute summer	BC28	18	115.017	0.442	82.0	0.1070	0.0000	OK
15 minute summer	BC29	17	115.015	0.775	75.4	0.0000	0.0000	SURCHARGED
15 minute summer	S30	17	115.022	0.792	26.2	1.6761	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	S01	1.000	S02	24.0	1.472	0.742	0.6804	
15 minute summer	S02	1.001	S03	46.6	2.645	1.131	0.2330	
15 minute summer	S03	1.002	S04	81.5	0.262	0.016	47.6190	
15 minute summer	S04	1.003	S05	31.7	-0.931	0.498	0.1171	
15 minute summer	S05	Hydro-Brake®	S06	27.9				
15 minute summer	S19	2.000	S06	18.9	1.083	1.308	0.2467	
15 minute summer	S06	1.005	HW07	60.8	1.184	0.954	0.6451	
15 minute summer	HW07	Flow through pond	HW08	45.9	0.161	0.001	69.1070	
15 minute summer	S20	3.000	S21	31.9	0.413	0.006	11.5268	
15 minute summer	S24	4.000	S21	47.6	0.441	0.013	12.9391	
15 minute summer	S21	3.001	S22	46.9	0.622	0.009	5.4498	
15 minute summer	S22	Hydro-Brake®	HW23	4.8				
15 minute summer	HW23	Flow through pond	HW08	45.9	0.161	0.001	69.1070	
15 minute summer	HW08	1.006	S09	7.2	0.615	0.496	0.1705	
15 minute summer	S09	Hydro-Brake®	S10	5.4				
15 minute summer	S25	5.000	S26	35.0	0.514	0.012	12.2281	
15 minute summer	S26	Hydro-Brake®	S10	0.3				
15 minute summer	S10	1.008	S11	5.7	1.278	0.142	0.1943	
15 minute summer	S11	1.009	S12	5.6	1.034	0.391	0.1662	
15 minute summer	S12	1.010	S13	32.0	2.352	0.609	0.5500	
15 minute summer	S13	1.011	S14	57.9	3.487	1.010	0.5287	
15 minute summer	S27	6.000	BC28	33.0	3.354	0.564	0.1660	
15 minute summer	BC28	6.001	BC29	75.4	0.303	0.008	30.0754	
15 minute summer	BC29	6.002	S30	-20.8	-0.595	-0.566	0.0793	
15 minute summer	S30	Hydro-Brake®	S14	4.5				

Results for 100 year +40% CC 15 minute summer. 255 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
15 minute summer	S14	10	114.330	0.130	74.5	0.2525	0.0000	OK
15 minute summer	BC15	20	112.978	0.200	93.3	0.0000	0.0000	OK
15 minute summer	BC16	21	112.977	0.429	88.8	0.0000	0.0000	SURCHARGED
15 minute summer	S31	10	113.995	0.057	13.6	0.0776	0.0000	OK
15 minute summer	BC32	20	112.977	0.127	34.6	0.0000	0.0000	OK
15 minute summer	BC33	18	112.979	0.399	64.5	0.0530	0.0000	SURCHARGED
15 minute summer	S17	22	112.976	0.446	72.5	1.7869	0.0000	SURCHARGED
15 minute summer	S18	21	112.584	0.080	11.0	0.0904	0.0000	OK
15 minute summer	OUTFALL	21	112.504	0.077	11.0	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	S14	1.012	BC15	74.4	3.342	0.535	0.1410	
15 minute summer	BC15	1.013	BC16	72.8	0.222	0.006	42.9292	
15 minute summer	BC16	1.014	S17	-31.5	-1.032	-0.401	0.2531	
15 minute summer	S31	7.000	BC32	13.6	1.840	0.116	0.0166	
15 minute summer	BC32	7.001	BC33	-27.6	0.110	-0.003	20.9108	
15 minute summer	BC33	7.002	S17	-44.3	-0.725	-0.517	0.5881	
15 minute summer	S17	Hydro-Brake®	S18	11.0				
15 minute summer	S18	1.016	OUTFALL	11.0	0.889	0.259	0.1421	160.7

Results for 100 year +40% CC 15 minute winter. 255 minute analysis at 1 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
15 minute winter	S01	11	127.608	0.101	25.4	0.1594	0.0000	OK
15 minute winter	S02	12	126.537	0.539	55.1	1.2268	0.0000	SURCHARGED
15 minute winter	S03	16	124.992	0.847	127.0	0.6008	0.0000	OK
15 minute winter	S04	17	124.991	0.960	85.2	0.0000	0.0000	SURCHARGED
15 minute winter	S05	17	124.995	0.970	67.7	3.6579	0.0000	SURCHARGED
15 minute winter	S19	11	124.412	0.237	20.6	0.4842	0.0000	SURCHARGED
15 minute winter	S06	57	124.360	0.446	62.3	0.9715	0.0000	SURCHARGED
15 minute winter	HW07	55	124.360	0.647	62.0	0.0000	0.0000	OK
15 minute winter	S20	20	124.544	0.621	45.5	3.1246	0.0000	OK
15 minute winter	S24	19	124.545	0.663	55.0	1.7485	0.0000	OK
15 minute winter	S21	18	124.546	0.711	98.5	4.1610	0.0000	OK
15 minute winter	S22	17	124.551	0.752	42.6	3.4036	0.0000	SURCHARGED
15 minute winter	HW23	58	124.362	0.649	4.8	0.0000	0.0000	OK
15 minute winter	HW08	56	124.360	0.814	68.6	0.3702	0.0000	SURCHARGED
15 minute winter	S09	55	124.352	0.871	7.0	1.2463	0.0000	SURCHARGED
15 minute winter	S25	19	123.273	0.373	36.0	1.2303	0.0000	OK
15 minute winter	S26	24	123.269	0.547	31.9	1.3929	0.0000	SURCHARGED
15 minute winter	S10	13	122.735	0.038	5.7	0.0432	0.0000	OK
15 minute winter	S11	21	121.070	0.070	5.7	0.0608	0.0000	OK
15 minute winter	S12	10	120.960	0.087	33.6	0.1513	0.0000	OK
15 minute winter	S13	12	117.819	0.375	62.4	0.5667	0.0000	SURCHARGED
15 minute winter	S27	10	117.511	0.086	34.9	0.1361	0.0000	OK
15 minute winter	BC28	19	115.101	0.526	85.3	0.1273	0.0000	OK
15 minute winter	BC29	20	115.093	0.852	93.6	0.0000	0.0000	SURCHARGED
15 minute winter	S30	20	115.098	0.868	27.5	1.8385	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute winter	S01	1.000	S02	24.9	1.513	0.770	0.6966	
15 minute winter	S02	1.001	S03	48.3	2.745	1.174	0.2332	
15 minute winter	S03	1.002	S04	85.2	0.270	0.016	54.9354	
15 minute winter	S04	1.003	S05	-36.3	-0.980	-0.569	0.1171	
15 minute winter	S05	Hydro-Brake®	S06	27.9				
15 minute winter	S19	2.000	S06	19.7	1.126	1.364	0.2539	
15 minute winter	S06	1.005	HW07	62.0	1.192	0.972	0.6451	
15 minute winter	HW07	Flow through pond	HW08	50.8	0.170	0.001	77.1437	
15 minute winter	S20	3.000	S21	37.5	0.425	0.007	13.2248	
15 minute winter	S24	4.000	S21	42.2	0.439	0.011	14.8153	
15 minute winter	S21	3.001	S22	-43.7	0.639	-0.008	6.1288	
15 minute winter	S22	Hydro-Brake®	HW23	4.8				
15 minute winter	HW23	Flow through pond	HW08	50.8	0.170	0.001	77.1437	
15 minute winter	HW08	1.006	S09	7.0	0.641	0.484	0.1705	
15 minute winter	S09	Hydro-Brake®	S10	5.4				
15 minute winter	S25	5.000	S26	31.9	0.536	0.011	13.7737	
15 minute winter	S26	Hydro-Brake®	S10	0.4				
15 minute winter	S10	1.008	S11	5.7	1.380	0.142	0.1939	
15 minute winter	S11	1.009	S12	5.7	1.033	0.392	0.1698	
15 minute winter	S12	1.010	S13	33.3	2.345	0.634	0.5602	
15 minute winter	S13	1.011	S14	55.8	3.498	0.974	0.5287	
15 minute winter	S27	6.000	BC28	34.7	3.391	0.593	0.1724	
15 minute winter	BC28	6.001	BC29	81.6	0.319	0.008	34.2311	
15 minute winter	BC29	6.002	S30	-22.3	-0.642	-0.608	0.0793	
15 minute winter	S30	Hydro-Brake®	S14	4.5				

Results for 100 year +40% CC 15 minute winter. 255 minute analysis at 1 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
15 minute winter	S14	9	114.327	0.127	72.3	0.2463	0.0000	OK
15 minute winter	BC15	22	113.014	0.235	71.3	0.0000	0.0000	OK
15 minute winter	BC16	20	113.015	0.467	87.8	0.0000	0.0000	SURCHARGED
15 minute winter	S31	10	113.997	0.059	14.3	0.0797	0.0000	OK
15 minute winter	BC32	18	113.013	0.163	33.1	0.0000	0.0000	OK
15 minute winter	BC33	21	113.010	0.430	69.4	0.0572	0.0000	SURCHARGED
15 minute winter	S17	20	113.013	0.483	76.2	1.9354	0.0000	SURCHARGED
15 minute winter	S18	56	112.584	0.080	11.0	0.0904	0.0000	OK
15 minute winter	OUTFALL	56	112.505	0.077	11.0	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute winter	S14	1.012	BC15	71.3	3.308	0.513	0.1367	
15 minute winter	BC15	1.013	BC16	66.8	0.229	0.006	47.9085	
15 minute winter	BC16	1.014	S17	-53.8	-1.148	-0.686	0.2531	
15 minute winter	S31	7.000	BC32	14.2	1.863	0.122	0.0173	
15 minute winter	BC32	7.001	BC33	-27.1	0.114	-0.003	23.8333	
15 minute winter	BC33	7.002	S17	-48.3	-0.710	-0.563	0.5881	
15 minute winter	S17	Hydro-Brake®	S18	11.0				
15 minute winter	S18	1.016	OUTFALL	11.0	0.889	0.259	0.1421	162.6

Results for 100 year +40% CC 30 minute summer. 270 minute analysis at 1 minute timestep. Mass balance: 99.22%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
30 minute summer	S01	18	127.602	0.095	23.5	0.1496	0.0000	OK
30 minute summer	S02	19	126.464	0.466	51.4	1.0595	0.0000	SURCHARGED
30 minute summer	S03	27	125.064	0.919	91.7	0.6516	0.0000	OK
30 minute summer	S04	26	125.064	1.033	77.7	0.0000	0.0000	SURCHARGED
30 minute summer	S05	26	125.065	1.040	62.7	3.9193	0.0000	SURCHARGED
30 minute summer	S19	69	124.479	0.304	19.1	0.6208	0.0000	SURCHARGED
30 minute summer	S06	69	124.478	0.564	60.5	1.2298	0.0000	SURCHARGED
30 minute summer	HW07	64	124.479	0.766	59.0	0.0000	0.0000	OK
30 minute summer	S20	33	124.661	0.738	42.1	3.7138	0.0000	OK
30 minute summer	S24	33	124.662	0.780	50.9	2.0576	0.0000	OK
30 minute summer	S21	33	124.660	0.825	90.9	4.8259	0.0000	OK
30 minute summer	S22	34	124.662	0.863	57.7	3.9049	0.0000	SURCHARGED
30 minute summer	HW23	69	124.480	0.767	4.8	0.0000	0.0000	OK
30 minute summer	HW08	69	124.478	0.932	49.2	0.4240	0.0000	SURCHARGED
30 minute summer	S09	68	124.471	0.990	6.8	1.4160	0.0000	SURCHARGED
30 minute summer	S25	35	123.342	0.442	33.3	1.4572	0.0000	OK
30 minute summer	S26	34	123.352	0.630	26.3	1.6036	0.0000	SURCHARGED
30 minute summer	S10	18	122.735	0.038	5.7	0.0432	0.0000	OK
30 minute summer	S11	26	121.068	0.068	5.7	0.0587	0.0000	OK
30 minute summer	S12	18	120.957	0.084	31.6	0.1464	0.0000	OK
30 minute summer	S13	18	117.585	0.141	58.5	0.2133	0.0000	OK
30 minute summer	S27	18	117.507	0.082	32.3	0.1299	0.0000	OK
30 minute summer	BC28	34	115.234	0.659	77.7	0.1595	0.0000	OK
30 minute summer	BC29	32	115.236	0.996	77.2	0.0000	0.0000	SURCHARGED
30 minute summer	S30	32	115.241	1.011	25.5	2.1395	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
30 minute summer	S01	1.000	S02	23.5	1.450	0.727	0.6762	
30 minute summer	S02	1.001	S03	46.6	2.649	1.133	0.2332	
30 minute summer	S03	1.002	S04	52.3	0.222	0.010	60.1678	
30 minute summer	S04	1.003	S05	27.8	-0.780	0.435	0.1171	
30 minute summer	S05	Hydro-Brake®	S06	27.9				
30 minute summer	S19	2.000	S06	18.7	1.069	1.290	0.2539	
30 minute summer	S06	1.005	HW07	59.0	1.168	0.924	0.6451	
30 minute summer	HW07	Flow through pond	HW08	30.5	0.140	0.000	97.3331	
30 minute summer	S20	3.000	S21	25.4	0.377	0.005	16.2387	
30 minute summer	S24	4.000	S21	34.9	0.401	0.009	18.0694	
30 minute summer	S21	3.001	S22	57.7	0.541	0.011	7.3795	
30 minute summer	S22	Hydro-Brake®	HW23	4.8				
30 minute summer	HW23	Flow through pond	HW08	30.5	0.140	0.000	97.3331	
30 minute summer	HW08	1.006	S09	6.8	0.570	0.470	0.1705	
30 minute summer	S09	Hydro-Brake®	S10	5.4				
30 minute summer	S25	5.000	S26	26.3	0.457	0.009	17.3661	
30 minute summer	S26	Hydro-Brake®	S10	0.4				
30 minute summer	S10	1.008	S11	5.7	1.203	0.141	0.1877	
30 minute summer	S11	1.009	S12	5.7	1.013	0.397	0.1669	
30 minute summer	S12	1.010	S13	31.6	2.371	0.601	0.5438	
30 minute summer	S13	1.011	S14	57.8	3.526	1.010	0.5286	
30 minute summer	S27	6.000	BC28	32.3	3.339	0.552	0.1630	
30 minute summer	BC28	6.001	BC29	65.3	0.303	0.007	41.4244	
30 minute summer	BC29	6.002	S30	-20.1	-0.505	-0.547	0.0793	
30 minute summer	S30	Hydro-Brake®	S14	4.5				

Results for 100 year +40% CC 30 minute summer. 270 minute analysis at 1 minute timestep. Mass balance: 99.22%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
30 minute summer	S14	18	114.330	0.129	74.0	0.2514	0.0000	OK
30 minute summer	BC15	37	113.106	0.328	74.0	0.0000	0.0000	OK
30 minute summer	BC16	34	113.106	0.557	69.9	0.0000	0.0000	SURCHARGED
30 minute summer	S31	18	113.994	0.056	13.2	0.0764	0.0000	OK
30 minute summer	BC32	37	113.103	0.253	32.8	0.0000	0.0000	OK
30 minute summer	BC33	34	113.105	0.525	49.6	0.0698	0.0000	SURCHARGED
30 minute summer	S17	34	113.105	0.575	70.5	2.3057	0.0000	SURCHARGED
30 minute summer	S18	223	112.584	0.080	11.0	0.0904	0.0000	OK
30 minute summer	OUTFALL	223	112.505	0.077	11.0	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
30 minute summer	S14	1.012	BC15	74.0	3.341	0.533	0.1404	
30 minute summer	BC15	1.013	BC16	55.2	0.196	0.005	60.6210	
30 minute summer	BC16	1.014	S17	-50.2	-0.821	-0.641	0.2531	
30 minute summer	S31	7.000	BC32	13.2	1.828	0.113	0.0163	
30 minute summer	BC32	7.001	BC33	-23.0	0.101	-0.003	31.3350	
30 minute summer	BC33	7.002	S17	-38.5	-0.547	-0.449	0.5881	
30 minute summer	S17	Hydro-Brake®	S18	11.0				
30 minute summer	S18	1.016	OUTFALL	11.0	0.889	0.259	0.1421	170.6

Results for 100 year +40% CC 30 minute winter. 270 minute analysis at 1 minute timestep. Mass balance: 99.13%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
30 minute winter	S01	18	127.596	0.089	21.3	0.1402	0.0000	OK
30 minute winter	S02	19	126.335	0.337	46.5	0.7679	0.0000	SURCHARGED
30 minute winter	S03	31	125.220	1.075	84.3	0.7620	0.0000	OK
30 minute winter	S04	30	125.223	1.192	72.6	0.0000	0.0000	SURCHARGED
30 minute winter	S05	29	125.224	1.199	56.7	4.5216	0.0000	SURCHARGED
30 minute winter	S19	73	124.542	0.366	17.3	0.7487	0.0000	SURCHARGED
30 minute winter	S06	75	124.541	0.627	57.2	1.3671	0.0000	SURCHARGED
30 minute winter	HW07	75	124.542	0.830	56.0	0.0000	0.0000	OK
30 minute winter	S20	33	124.759	0.836	38.1	4.2030	0.0000	OK
30 minute winter	S24	32	124.756	0.874	46.0	2.3046	0.0000	OK
30 minute winter	S21	34	124.756	0.921	96.7	5.3911	0.0000	OK
30 minute winter	S22	33	124.758	0.959	53.5	4.3378	0.0000	SURCHARGED
30 minute winter	HW23	76	124.543	0.830	4.8	0.0000	0.0000	OK
30 minute winter	HW08	75	124.541	0.995	53.4	0.4527	0.0000	SURCHARGED
30 minute winter	S09	75	124.533	1.052	6.6	1.5057	0.0000	SURCHARGED
30 minute winter	S25	32	123.404	0.504	30.1	1.6639	0.0000	OK
30 minute winter	S26	38	123.405	0.683	28.4	1.7382	0.0000	SURCHARGED
30 minute winter	S10	17	122.735	0.038	5.7	0.0432	0.0000	OK
30 minute winter	S11	27	121.067	0.067	5.7	0.0580	0.0000	OK
30 minute winter	S12	18	120.953	0.080	29.2	0.1395	0.0000	OK
30 minute winter	S13	18	117.565	0.121	53.6	0.1823	0.0000	OK
30 minute winter	S27	18	117.502	0.077	29.2	0.1220	0.0000	OK
30 minute winter	BC28	33	115.338	0.763	69.4	0.1846	0.0000	OK
30 minute winter	BC29	32	115.347	1.107	64.4	0.0000	0.0000	SURCHARGED
30 minute winter	S30	32	115.350	1.120	23.0	2.3710	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
30 minute winter	S01	1.000	S02	21.3	1.420	0.659	0.6560	
30 minute winter	S02	1.001	S03	43.5	2.570	1.056	0.2332	
30 minute winter	S03	1.002	S04	57.0	0.249	0.011	69.8591	
30 minute winter	S04	1.003	S05	27.5	-0.851	0.431	0.1171	
30 minute winter	S05	Hydro-Brake®	S06	27.9				
30 minute winter	S19	2.000	S06	17.1	0.986	1.180	0.2539	
30 minute winter	S06	1.005	HW07	56.0	1.139	0.878	0.6451	
30 minute winter	HW07	Flow through pond	HW08	35.4	0.146	0.001	109.1451	
30 minute winter	S20	3.000	S21	23.1	0.387	0.004	18.7335	
30 minute winter	S24	4.000	S21	39.4	0.423	0.010	20.7041	
30 minute winter	S21	3.001	S22	53.5	0.539	0.010	8.3978	
30 minute winter	S22	Hydro-Brake®	HW23	4.8				
30 minute winter	HW23	Flow through pond	HW08	35.4	0.146	0.001	109.1451	
30 minute winter	HW08	1.006	S09	6.6	0.584	0.454	0.1705	
30 minute winter	S09	Hydro-Brake®	S10	5.4				
30 minute winter	S25	5.000	S26	28.4	0.466	0.009	19.5838	
30 minute winter	S26	Hydro-Brake®	S10	0.4				
30 minute winter	S10	1.008	S11	5.7	1.227	0.141	0.1857	
30 minute winter	S11	1.009	S12	5.7	1.008	0.396	0.1622	
30 minute winter	S12	1.010	S13	29.2	2.360	0.556	0.4921	
30 minute winter	S13	1.011	S14	53.6	3.496	0.935	0.4857	
30 minute winter	S27	6.000	BC28	29.2	3.261	0.499	0.1509	
30 minute winter	BC28	6.001	BC29	55.1	0.308	0.006	47.1122	
30 minute winter	BC29	6.002	S30	-19.7	-0.541	-0.537	0.0793	
30 minute winter	S30	Hydro-Brake®	S14	4.5				

Results for 100 year +40% CC 30 minute winter. 270 minute analysis at 1 minute timestep. Mass balance: 99.13%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
30 minute winter	S14	18	114.323	0.123	68.5	0.2391	0.0000	OK
30 minute winter	BC15	42	113.155	0.377	68.5	0.0000	0.0000	OK
30 minute winter	BC16	36	113.158	0.610	67.3	0.0000	0.0000	SURCHARGED
30 minute winter	S31	18	113.991	0.053	12.0	0.0725	0.0000	OK
30 minute winter	BC32	33	113.154	0.304	33.1	0.0000	0.0000	OK
30 minute winter	BC33	36	113.153	0.573	42.9	0.0762	0.0000	SURCHARGED
30 minute winter	S17	36	113.157	0.627	63.8	2.5107	0.0000	SURCHARGED
30 minute winter	S18	269	112.584	0.080	11.0	0.0904	0.0000	OK
30 minute winter	OUTFALL	20	112.505	0.077	11.0	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
30 minute winter	S14	1.012	BC15	68.5	3.285	0.493	0.1322	
30 minute winter	BC15	1.013	BC16	52.7	0.206	0.004	67.6767	
30 minute winter	BC16	1.014	S17	-44.0	-0.881	-0.561	0.2531	
30 minute winter	S31	7.000	BC32	12.0	1.784	0.103	0.0152	
30 minute winter	BC32	7.001	BC33	-21.8	0.105	-0.003	35.4557	
30 minute winter	BC33	7.002	S17	-34.5	-0.526	-0.403	0.5881	
30 minute winter	S17	Hydro-Brake®	S18	11.0				
30 minute winter	S18	1.016	OUTFALL	11.0	0.889	0.259	0.1421	170.2

Results for 100 year +40% CC 60 minute summer. 300 minute analysis at 1 minute timestep. Mass balance: 99.07%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute summer	S01	33	127.590	0.083	19.0	0.1304	0.0000	OK
60 minute summer	S02	33	126.132	0.134	41.6	0.3046	0.0000	OK
60 minute summer	S03	45	125.165	1.020	79.0	0.7231	0.0000	OK
60 minute summer	S04	45	125.166	1.135	48.2	0.0000	0.0000	SURCHARGED
60 minute summer	S05	45	125.165	1.140	50.6	4.2982	0.0000	SURCHARGED
60 minute summer	S19	94	124.653	0.478	15.4	0.9769	0.0000	SURCHARGED
60 minute summer	S06	93	124.653	0.739	53.4	1.6105	0.0000	SURCHARGED
60 minute summer	HW07	92	124.653	0.941	52.2	0.0000	0.0000	OK
60 minute summer	S20	62	124.848	0.925	34.0	4.6507	0.0000	OK
60 minute summer	S24	62	124.847	0.965	41.1	2.5439	0.0000	OK
60 minute summer	S21	61	124.847	1.012	65.0	5.9206	0.0000	OK
60 minute summer	S22	63	124.847	1.048	39.1	4.7415	0.0000	SURCHARGED
60 minute summer	HW23	93	124.653	0.940	4.8	0.0000	0.0000	OK
60 minute summer	HW08	94	124.653	1.107	42.8	0.5036	0.0000	SURCHARGED
60 minute summer	S09	94	124.644	1.163	6.1	1.6645	0.0000	SURCHARGED
60 minute summer	S25	65	123.492	0.592	26.9	1.9545	0.0000	OK
60 minute summer	S26	62	123.491	0.769	18.4	1.9579	0.0000	SURCHARGED
60 minute summer	S10	28	122.735	0.038	5.7	0.0431	0.0000	OK
60 minute summer	S11	22	121.069	0.069	5.7	0.0595	0.0000	OK
60 minute summer	S12	33	120.949	0.076	26.6	0.1319	0.0000	OK
60 minute summer	S13	33	117.553	0.109	48.4	0.1645	0.0000	OK
60 minute summer	S27	33	117.497	0.072	26.1	0.1141	0.0000	OK
60 minute summer	BC28	61	115.445	0.870	52.4	0.2106	0.0000	OK
60 minute summer	BC29	63	115.445	1.205	52.3	0.0000	0.0000	SURCHARGED
60 minute summer	S30	63	115.447	1.217	20.6	2.5762	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
60 minute summer	S01	1.000	S02	19.0	1.414	0.588	0.6116	
60 minute summer	S02	1.001	S03	41.4	2.564	1.005	0.2264	
60 minute summer	S03	1.002	S04	33.5	0.220	0.006	66.5358	
60 minute summer	S04	1.003	S05	26.3	-0.698	0.412	0.1171	
60 minute summer	S05	Hydro-Brake®	S06	27.9				
60 minute summer	S19	2.000	S06	14.0	0.924	0.970	0.2539	
60 minute summer	S06	1.005	HW07	52.2	1.018	0.818	0.6451	
60 minute summer	HW07	Flow through pond	HW08	25.8	0.127	0.000	132.9460	
60 minute summer	S20	3.000	S21	19.4	0.335	0.004	21.0315	
60 minute summer	S24	4.000	S21	30.2	0.386	0.008	23.1810	
60 minute summer	S21	3.001	S22	39.1	0.506	0.007	9.3286	
60 minute summer	S22	Hydro-Brake®	HW23	4.8				
60 minute summer	HW23	Flow through pond	HW08	25.8	0.127	0.000	132.9460	
60 minute summer	HW08	1.006	S09	6.1	0.529	0.423	0.1705	
60 minute summer	S09	Hydro-Brake®	S10	5.4				
60 minute summer	S25	5.000	S26	18.4	0.407	0.006	23.3643	
60 minute summer	S26	Hydro-Brake®	S10	0.4				
60 minute summer	S10	1.008	S11	5.7	1.109	0.141	0.1905	
60 minute summer	S11	1.009	S12	5.7	1.014	0.393	0.1563	
60 minute summer	S12	1.010	S13	26.6	2.349	0.506	0.4497	
60 minute summer	S13	1.011	S14	48.4	3.423	0.845	0.4480	
60 minute summer	S27	6.000	BC28	26.1	3.173	0.446	0.1386	
60 minute summer	BC28	6.001	BC29	41.0	0.275	0.004	52.0325	
60 minute summer	BC29	6.002	S30	-16.0	-0.422	-0.437	0.0793	
60 minute summer	S30	Hydro-Brake®	S14	4.5				

Results for 100 year +40% CC 60 minute summer. 300 minute analysis at 1 minute timestep. Mass balance: 99.07%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute summer	S14	33	114.316	0.116	62.1	0.2246	0.0000	OK
60 minute summer	BC15	65	113.258	0.480	62.2	0.0000	0.0000	OK
60 minute summer	BC16	65	113.255	0.707	49.2	0.0000	0.0000	SURCHARGED
60 minute summer	S31	33	113.988	0.050	10.7	0.0681	0.0000	OK
60 minute summer	BC32	65	113.257	0.407	25.6	0.0000	0.0000	OK
60 minute summer	BC33	64	113.256	0.676	34.9	0.0899	0.0000	SURCHARGED
60 minute summer	S17	65	113.255	0.724	57.0	2.9031	0.0000	SURCHARGED
60 minute summer	S18	33	112.584	0.080	11.0	0.0904	0.0000	OK
60 minute summer	OUTFALL	33	112.505	0.077	11.0	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
60 minute summer	S14	1.012	BC15	62.2	3.216	0.448	0.1226	
60 minute summer	BC15	1.013	BC16	32.2	0.190	0.003	81.9493	
60 minute summer	BC16	1.014	S17	-18.6	-0.672	-0.237	0.2531	
60 minute summer	S31	7.000	BC32	10.7	1.731	0.092	0.0139	
60 minute summer	BC32	7.001	BC33	-15.6	0.092	-0.002	43.8455	
60 minute summer	BC33	7.002	S17	-29.6	-0.420	-0.345	0.5881	
60 minute summer	S17	Hydro-Brake®	S18	11.0				
60 minute summer	S18	1.016	OUTFALL	11.0	0.889	0.259	0.1421	181.8

Results for 100 year +40% CC 60 minute winter. 300 minute analysis at 1 minute timestep. Mass balance: 99.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute winter	S01	33	127.580	0.073	15.4	0.1150	0.0000	OK
60 minute winter	S02	33	126.107	0.109	33.6	0.2472	0.0000	OK
60 minute winter	S03	48	125.686	1.541	64.0	1.0928	0.0000	SURCHARGED
60 minute winter	S04	48	125.686	1.655	39.3	0.0000	0.0000	SURCHARGED
60 minute winter	S05	48	125.685	1.660	41.0	6.2590	0.0000	SURCHARGED
60 minute winter	S19	103	124.725	0.550	12.5	1.1229	0.0000	SURCHARGED
60 minute winter	S06	105	124.724	0.810	48.8	1.7659	0.0000	SURCHARGED
60 minute winter	HW07	97	124.724	1.011	47.4	0.0000	0.0000	OK
60 minute winter	S20	62	124.986	1.063	27.5	5.3453	0.0000	OK
60 minute winter	S24	61	124.986	1.104	33.3	2.9115	0.0000	OK
60 minute winter	S21	61	124.986	1.151	64.4	6.7372	0.0000	OK
60 minute winter	S22	60	124.986	1.187	40.1	5.3680	0.0000	SURCHARGED
60 minute winter	HW23	104	124.724	1.012	4.8	0.0000	0.0000	OK
60 minute winter	HW08	104	124.724	1.178	39.0	0.5360	0.0000	SURCHARGED
60 minute winter	S09	105	124.715	1.234	6.1	1.7660	0.0000	SURCHARGED
60 minute winter	S25	62	123.565	0.665	21.8	2.1953	0.0000	OK
60 minute winter	S26	64	123.566	0.844	17.1	2.1473	0.0000	SURCHARGED
60 minute winter	S10	25	122.735	0.038	5.7	0.0431	0.0000	OK
60 minute winter	S11	102	121.069	0.069	5.7	0.0594	0.0000	OK
60 minute winter	S12	33	120.942	0.069	22.6	0.1198	0.0000	OK
60 minute winter	S13	33	117.538	0.094	40.1	0.1419	0.0000	OK
60 minute winter	S27	33	117.489	0.064	21.1	0.1009	0.0000	OK
60 minute winter	BC28	61	115.638	1.063	50.4	0.2573	0.0000	OK
60 minute winter	BC29	61	115.639	1.399	47.0	0.0000	0.0000	SURCHARGED
60 minute winter	S30	61	115.640	1.410	16.6	2.9844	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
60 minute winter	S01	1.000	S02	15.4	1.383	0.477	0.5105	
60 minute winter	S02	1.001	S03	33.6	2.529	0.816	0.1759	
60 minute winter	S03	1.002	S04	32.1	0.215	0.006	74.1364	
60 minute winter	S04	1.003	S05	26.4	-0.720	0.413	0.1171	
60 minute winter	S05	Hydro-Brake®	S06	27.9				
60 minute winter	S19	2.000	S06	11.8	0.870	0.815	0.2539	
60 minute winter	S06	1.005	HW07	47.4	1.030	0.743	0.6451	
60 minute winter	HW07	Flow through pond	HW08	25.2	0.132	0.000	150.0670	
60 minute winter	S20	3.000	S21	17.8	0.344	0.003	24.3836	
60 minute winter	S24	4.000	S21	23.2	0.360	0.006	26.7668	
60 minute winter	S21	3.001	S22	40.1	0.478	0.007	10.6600	
60 minute winter	S22	Hydro-Brake®	HW23	4.8				
60 minute winter	HW23	Flow through pond	HW08	25.2	0.132	0.000	150.0670	
60 minute winter	HW08	1.006	S09	6.1	0.548	0.425	0.1705	
60 minute winter	S09	Hydro-Brake®	S10	5.4				
60 minute winter	S25	5.000	S26	17.1	0.399	0.006	26.3601	
60 minute winter	S26	Hydro-Brake®	S10	0.4				
60 minute winter	S10	1.008	S11	5.7	1.184	0.141	0.1895	
60 minute winter	S11	1.009	S12	5.7	1.021	0.393	0.1469	
60 minute winter	S12	1.010	S13	22.5	2.315	0.429	0.3874	
60 minute winter	S13	1.011	S14	40.1	3.268	0.701	0.3891	
60 minute winter	S27	6.000	BC28	21.1	3.006	0.360	0.1183	
60 minute winter	BC28	6.001	BC29	39.4	0.259	0.004	57.0713	
60 minute winter	BC29	6.002	S30	-13.0	-0.444	-0.354	0.0793	
60 minute winter	S30	Hydro-Brake®	S14	4.6				

Results for 100 year +40% CC 60 minute winter. 300 minute analysis at 1 minute timestep. Mass balance: 99.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute winter	S14	33	114.303	0.103	51.8	0.2008	0.0000	OK
60 minute winter	BC15	65	113.329	0.551	51.9	0.0000	0.0000	OK
60 minute winter	BC16	74	113.328	0.780	38.1	0.0000	0.0000	SURCHARGED
60 minute winter	S31	33	113.983	0.045	8.6	0.0606	0.0000	OK
60 minute winter	BC32	64	113.328	0.478	21.7	0.0000	0.0000	OK
60 minute winter	BC33	72	113.327	0.747	29.0	0.0993	0.0000	SURCHARGED
60 minute winter	S17	74	113.328	0.798	46.1	3.1957	0.0000	SURCHARGED
60 minute winter	S18	32	112.584	0.080	11.0	0.0904	0.0000	OK
60 minute winter	OUTFALL	32	112.505	0.077	11.0	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
60 minute winter	S14	1.012	BC15	51.9	3.083	0.374	0.1067	
60 minute winter	BC15	1.013	BC16	29.9	0.191	0.003	91.6778	
60 minute winter	BC16	1.014	S17	-22.1	-0.729	-0.281	0.2531	
60 minute winter	S31	7.000	BC32	8.6	1.633	0.074	0.0119	
60 minute winter	BC32	7.001	BC33	-13.1	0.103	-0.002	49.5557	
60 minute winter	BC33	7.002	S17	-24.5	-0.353	-0.285	0.5881	
60 minute winter	S17	Hydro-Brake®	S18	11.0				
60 minute winter	S18	1.016	OUTFALL	11.0	0.889	0.259	0.1421	177.2

Results for 100 year +40% CC 120 minute summer. 360 minute analysis at 2 minute timestep. Mass balance: 99.03%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
120 minute summer	S01	64	127.571	0.064	12.3	0.1012	0.0000	OK
120 minute summer	S02	64	126.090	0.092	26.9	0.2099	0.0000	OK
120 minute summer	S03	78	125.039	0.894	51.2	0.6336	0.0000	OK
120 minute summer	S04	78	125.038	1.007	27.4	0.0000	0.0000	SURCHARGED
120 minute summer	S05	78	125.037	1.012	32.8	3.8154	0.0000	SURCHARGED
120 minute summer	S19	140	124.762	0.587	10.0	1.1998	0.0000	SURCHARGED
120 minute summer	S06	140	124.762	0.848	44.4	1.8481	0.0000	SURCHARGED
120 minute summer	HW07	142	124.762	1.050	43.6	0.0000	0.0000	OK
120 minute summer	S20	120	124.920	0.996	22.0	5.0122	0.0000	OK
120 minute summer	S24	120	124.920	1.038	26.6	2.7361	0.0000	OK
120 minute summer	S21	120	124.920	1.085	32.5	6.3466	0.0000	OK
120 minute summer	S22	120	124.920	1.121	12.9	5.0692	0.0000	SURCHARGED
120 minute summer	HW23	146	124.762	1.049	4.7	0.0000	0.0000	OK
120 minute summer	HW08	140	124.762	1.216	33.0	0.5532	0.0000	SURCHARGED
120 minute summer	S09	140	124.753	1.272	5.7	1.8196	0.0000	SURCHARGED
120 minute summer	S25	124	123.594	0.694	17.4	2.2909	0.0000	OK
120 minute summer	S26	122	123.594	0.872	11.7	2.2188	0.0000	SURCHARGED
120 minute summer	S10	42	122.735	0.038	5.7	0.0431	0.0000	OK
120 minute summer	S11	38	121.070	0.070	5.7	0.0603	0.0000	OK
120 minute summer	S12	62	120.935	0.062	19.0	0.1087	0.0000	OK
120 minute summer	S13	64	117.526	0.082	33.0	0.1241	0.0000	OK
120 minute summer	S27	64	117.481	0.056	16.9	0.0891	0.0000	OK
120 minute summer	BC28	110	115.489	0.914	29.7	0.2212	0.0000	OK
120 minute summer	BC29	110	115.489	1.249	34.9	0.0000	0.0000	SURCHARGED
120 minute summer	S30	108	115.489	1.259	13.3	2.6650	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
120 minute summer	S01	1.000	S02	12.3	1.326	0.381	0.4273	
120 minute summer	S02	1.001	S03	26.9	2.428	0.653	0.1467	
120 minute summer	S03	1.002	S04	25.2	0.166	0.005	58.6930	
120 minute summer	S04	1.003	S05	21.3	-0.554	0.334	0.1171	
120 minute summer	S05	Hydro-Brake®	S06	27.9				
120 minute summer	S19	2.000	S06	9.2	0.749	0.640	0.2539	
120 minute summer	S06	1.005	HW07	43.6	0.846	0.684	0.6451	
120 minute summer	HW07	Flow through pond	HW08	22.0	0.111	0.000	159.5730	
120 minute summer	S20	3.000	S21	11.2	0.296	0.002	22.8172	
120 minute summer	S24	4.000	S21	16.9	0.345	0.004	25.1002	
120 minute summer	S21	3.001	S22	12.9	0.384	0.002	10.0444	
120 minute summer	S22	Hydro-Brake®	HW23	4.7				
120 minute summer	HW23	Flow through pond	HW08	22.0	0.111	0.000	159.5730	
120 minute summer	HW08	1.006	S09	5.7	0.470	0.394	0.1705	
120 minute summer	S09	Hydro-Brake®	S10	5.4				
120 minute summer	S25	5.000	S26	11.7	0.371	0.004	27.6043	
120 minute summer	S26	Hydro-Brake®	S10	0.4				
120 minute summer	S10	1.008	S11	5.7	1.014	0.141	0.1933	
120 minute summer	S11	1.009	S12	5.7	1.025	0.393	0.1367	
120 minute summer	S12	1.010	S13	18.9	2.263	0.360	0.3339	
120 minute summer	S13	1.011	S14	33.0	3.099	0.576	0.3375	
120 minute summer	S27	6.000	BC28	16.9	2.836	0.289	0.1004	
120 minute summer	BC28	6.001	BC29	29.2	0.159	0.003	53.3072	
120 minute summer	BC29	6.002	S30	-7.3	-0.252	-0.200	0.0793	
120 minute summer	S30	Hydro-Brake®	S14	4.5				

Results for 100 year +40% CC 120 minute summer. 360 minute analysis at 2 minute timestep. Mass balance: 99.03%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
120 minute summer	S14	64	114.293	0.093	43.2	0.1801	0.0000	OK
120 minute summer	BC15	138	113.386	0.608	43.2	0.0000	0.0000	OK
120 minute summer	BC16	134	113.386	0.838	26.2	0.0000	0.0000	SURCHARGED
120 minute summer	S31	64	113.978	0.040	6.9	0.0540	0.0000	OK
120 minute summer	BC32	138	113.385	0.535	15.5	0.0000	0.0000	OK
120 minute summer	BC33	134	113.385	0.805	22.3	0.1071	0.0000	SURCHARGED
120 minute summer	S17	134	113.385	0.855	36.9	3.4270	0.0000	SURCHARGED
120 minute summer	S18	60	112.584	0.080	11.0	0.0904	0.0000	OK
120 minute summer	OUTFALL	60	112.504	0.077	11.0	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
120 minute summer	S14	1.012	BC15	43.2	2.951	0.311	0.0929	
120 minute summer	BC15	1.013	BC16	20.1	0.158	0.002	99.7138	
120 minute summer	BC16	1.014	S17	9.9	-0.518	0.126	0.2531	
120 minute summer	S31	7.000	BC32	6.9	1.539	0.059	0.0101	
120 minute summer	BC32	7.001	BC33	-8.6	0.076	-0.001	54.2626	
120 minute summer	BC33	7.002	S17	-18.7	-0.287	-0.218	0.5881	
120 minute summer	S17	Hydro-Brake®	S18	11.0				
120 minute summer	S18	1.016	OUTFALL	11.0	0.889	0.259	0.1421	201.7

Results for 100 year +40% CC 120 minute winter. 360 minute analysis at 2 minute timestep. Mass balance: 98.99%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
120 minute winter	S01	64	127.563	0.056	9.5	0.0879	0.0000	OK
120 minute winter	S02	64	126.076	0.078	20.8	0.1778	0.0000	OK
120 minute winter	S03	84	125.112	0.967	39.6	0.6858	0.0000	OK
120 minute winter	S04	84	125.112	1.081	22.5	0.0000	0.0000	SURCHARGED
120 minute winter	S05	84	125.111	1.086	29.8	4.0940	0.0000	SURCHARGED
120 minute winter	S19	146	124.843	0.668	7.7	1.3651	0.0000	SURCHARGED
120 minute winter	S06	146	124.843	0.929	40.4	2.0244	0.0000	SURCHARGED
120 minute winter	HW07	136	124.843	1.130	39.8	0.0000	0.0000	OK
120 minute winter	S20	118	125.089	1.166	17.0	5.8639	0.0000	OK
120 minute winter	S24	118	125.089	1.207	20.5	3.1816	0.0000	OK
120 minute winter	S21	118	125.089	1.254	26.5	7.3365	0.0000	OK
120 minute winter	S22	118	125.089	1.290	13.0	5.8345	0.0000	SURCHARGED
120 minute winter	HW23	146	124.843	1.130	4.8	0.0000	0.0000	OK
120 minute winter	HW08	146	124.843	1.297	29.6	0.5900	0.0000	SURCHARGED
120 minute winter	S09	146	124.833	1.352	5.7	1.9345	0.0000	SURCHARGED
120 minute winter	S25	122	123.686	0.786	13.4	2.5930	0.0000	OK
120 minute winter	S26	126	123.684	0.962	11.5	2.4491	0.0000	SURCHARGED
120 minute winter	S10	38	122.735	0.038	5.7	0.0431	0.0000	OK
120 minute winter	S11	144	121.070	0.070	5.7	0.0608	0.0000	OK
120 minute winter	S12	62	120.929	0.056	15.7	0.0981	0.0000	OK
120 minute winter	S13	62	117.516	0.072	26.6	0.1083	0.0000	OK
120 minute winter	S27	64	117.474	0.049	13.0	0.0774	0.0000	OK
120 minute winter	BC28	116	115.844	1.269	32.6	0.3071	0.0000	SURCHARGED
120 minute winter	BC29	116	115.844	1.604	30.1	0.0000	0.0000	SURCHARGED
120 minute winter	S30	116	115.844	1.614	10.3	3.4165	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
120 minute winter	S01	1.000	S02	9.5	1.250	0.294	0.3508	
120 minute winter	S02	1.001	S03	20.8	2.292	0.505	0.1202	
120 minute winter	S03	1.002	S04	22.5	0.162	0.004	63.2482	
120 minute winter	S04	1.003	S05	20.9	-0.495	0.327	0.1171	
120 minute winter	S05	Hydro-Brake®	S06	27.9				
120 minute winter	S19	2.000	S06	7.1	0.730	0.490	0.2539	
120 minute winter	S06	1.005	HW07	39.8	0.881	0.624	0.6451	
120 minute winter	HW07	Flow through pond	HW08	21.3	0.109	0.000	181.9749	
120 minute winter	S20	3.000	S21	9.5	0.277	0.002	26.6295	
120 minute winter	S24	4.000	S21	13.4	0.297	0.004	29.1270	
120 minute winter	S21	3.001	S22	13.0	0.443	0.002	11.5236	
120 minute winter	S22	Hydro-Brake®	HW23	4.8				
120 minute winter	HW23	Flow through pond	HW08	21.3	0.109	0.000	181.9749	
120 minute winter	HW08	1.006	S09	5.7	0.478	0.396	0.1705	
120 minute winter	S09	Hydro-Brake®	S10	5.4				
120 minute winter	S25	5.000	S26	11.5	0.331	0.004	31.1483	
120 minute winter	S26	Hydro-Brake®	S10	0.5				
120 minute winter	S10	1.008	S11	5.7	1.014	0.141	0.1942	
120 minute winter	S11	1.009	S12	5.7	1.033	0.393	0.1274	
120 minute winter	S12	1.010	S13	15.7	2.189	0.298	0.2853	
120 minute winter	S13	1.011	S14	26.5	2.918	0.463	0.2887	
120 minute winter	S27	6.000	BC28	13.0	2.640	0.222	0.1604	
120 minute winter	BC28	6.001	BC29	26.6	0.195	0.003	60.5323	
120 minute winter	BC29	6.002	S30	-7.2	-0.223	-0.198	0.0793	
120 minute winter	S30	Hydro-Brake®	S14	4.9				

Results for 100 year +40% CC 120 minute winter. 360 minute analysis at 2 minute timestep. Mass balance: 98.99%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
120 minute winter	S14	62	114.282	0.082	35.2	0.1600	0.0000	OK
120 minute winter	BC15	360	113.521	0.743	35.2	0.0000	0.0000	OK
120 minute winter	BC16	358	113.520	0.972	21.2	0.0000	0.0000	SURCHARGED
120 minute winter	S31	64	113.973	0.035	5.3	0.0471	0.0000	OK
120 minute winter	BC32	360	113.520	0.670	12.8	0.0000	0.0000	OK
120 minute winter	BC33	360	113.520	0.940	16.9	0.1250	0.0000	SURCHARGED
120 minute winter	S17	358	113.520	0.990	28.4	3.9667	0.0000	SURCHARGED
120 minute winter	S18	58	112.584	0.080	11.0	0.0904	0.0000	OK
120 minute winter	OUTFALL	58	112.505	0.077	11.0	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
120 minute winter	S14	1.012	BC15	35.2	2.802	0.253	0.0796	
120 minute winter	BC15	1.013	BC16	20.4	0.163	0.002	118.3401	
120 minute winter	BC16	1.014	S17	9.6	-0.540	0.122	0.2531	
120 minute winter	S31	7.000	BC32	5.3	1.434	0.045	0.0083	
120 minute winter	BC32	7.001	BC33	-7.5	0.088	-0.001	65.1981	
120 minute winter	BC33	7.002	S17	-14.1	-0.300	-0.165	0.5881	
120 minute winter	S17	Hydro-Brake®	S18	11.0				
120 minute winter	S18	1.016	OUTFALL	11.0	0.889	0.259	0.1421	190.0

Results for 100 year +40% CC 180 minute summer. 420 minute analysis at 4 minute timestep. Mass balance: 99.07%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
180 minute summer	S01	96	127.562	0.055	9.2	0.0864	0.0000	OK
180 minute summer	S02	96	126.075	0.076	20.1	0.1741	0.0000	OK
180 minute summer	S03	112	124.947	0.802	38.3	0.5685	0.0000	OK
180 minute summer	S04	112	124.947	0.916	22.4	0.0000	0.0000	SURCHARGED
180 minute summer	S05	112	124.946	0.921	29.4	3.4719	0.0000	SURCHARGED
180 minute summer	S19	196	124.818	0.643	7.5	1.3138	0.0000	SURCHARGED
180 minute summer	S06	192	124.818	0.904	39.8	1.9696	0.0000	SURCHARGED
180 minute summer	HW07	196	124.818	1.105	39.2	0.0000	0.0000	OK
180 minute summer	S20	160	124.949	1.026	16.5	5.1609	0.0000	OK
180 minute summer	S24	160	124.949	1.067	19.9	2.8143	0.0000	OK
180 minute summer	S21	160	124.949	1.114	25.2	6.5200	0.0000	OK
180 minute summer	S22	160	124.949	1.150	8.8	5.2033	0.0000	SURCHARGED
180 minute summer	HW23	196	124.818	1.105	4.7	0.0000	0.0000	OK
180 minute summer	HW08	196	124.817	1.271	29.2	0.5785	0.0000	SURCHARGED
180 minute summer	S09	196	124.808	1.327	5.6	1.8985	0.0000	SURCHARGED
180 minute summer	S25	184	123.655	0.755	13.0	2.4922	0.0000	OK
180 minute summer	S26	188	123.655	0.933	7.1	2.3733	0.0000	SURCHARGED
180 minute summer	S10	60	122.735	0.038	5.7	0.0431	0.0000	OK
180 minute summer	S11	56	121.070	0.070	5.7	0.0606	0.0000	OK
180 minute summer	S12	92	120.929	0.056	15.5	0.0972	0.0000	OK
180 minute summer	S13	92	117.515	0.071	25.9	0.1066	0.0000	OK
180 minute summer	S27	96	117.473	0.048	12.6	0.0761	0.0000	OK
180 minute summer	BC28	144	115.476	0.901	28.2	0.2180	0.0000	OK
180 minute summer	BC29	144	115.476	1.235	20.9	0.0000	0.0000	SURCHARGED
180 minute summer	S30	144	115.475	1.245	10.0	2.6358	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	S01	1.000	S02	9.2	1.242	0.285	0.3421	
180 minute summer	S02	1.001	S03	20.1	2.274	0.488	0.1171	
180 minute summer	S03	1.002	S04	22.4	0.157	0.004	53.0397	
180 minute summer	S04	1.003	S05	18.6	-0.486	0.292	0.1171	
180 minute summer	S05	Hydro-Brake®	S06	27.8				
180 minute summer	S19	2.000	S06	6.9	0.691	0.477	0.2539	
180 minute summer	S06	1.005	HW07	39.2	0.773	0.615	0.6451	
180 minute summer	HW07	Flow through pond	HW08	21.0	0.092	0.000	174.8264	
180 minute summer	S20	3.000	S21	9.0	0.256	0.002	23.5246	
180 minute summer	S24	4.000	S21	13.2	0.280	0.003	25.8522	
180 minute summer	S21	3.001	S22	8.8	0.370	0.002	10.3238	
180 minute summer	S22	Hydro-Brake®	HW23	4.7				
180 minute summer	HW23	Flow through pond	HW08	21.0	0.092	0.000	174.8264	
180 minute summer	HW08	1.006	S09	5.6	0.444	0.386	0.1705	
180 minute summer	S09	Hydro-Brake®	S10	5.4				
180 minute summer	S25	5.000	S26	7.1	0.301	0.002	30.0114	
180 minute summer	S26	Hydro-Brake®	S10	0.4				
180 minute summer	S10	1.008	S11	5.7	1.006	0.141	0.1940	
180 minute summer	S11	1.009	S12	5.7	1.031	0.393	0.1269	
180 minute summer	S12	1.010	S13	15.4	2.192	0.294	0.2805	
180 minute summer	S13	1.011	S14	25.8	2.883	0.450	0.2842	
180 minute summer	S27	6.000	BC28	12.6	2.618	0.215	0.0811	
180 minute summer	BC28	6.001	BC29	20.9	0.148	0.002	52.9737	
180 minute summer	BC29	6.002	S30	-5.7	-0.213	-0.154	0.0793	
180 minute summer	S30	Hydro-Brake®	S14	4.5				

Results for 100 year +40% CC 180 minute summer. 420 minute analysis at 4 minute timestep. Mass balance: 99.07%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
180 minute summer	S14	92	114.282	0.082	34.7	0.1585	0.0000	OK
180 minute summer	BC15	388	113.509	0.731	34.6	0.0000	0.0000	OK
180 minute summer	BC16	396	113.509	0.961	21.7	0.0000	0.0000	SURCHARGED
180 minute summer	S31	96	113.972	0.034	5.2	0.0466	0.0000	OK
180 minute summer	BC32	388	113.508	0.658	10.3	0.0000	0.0000	OK
180 minute summer	BC33	396	113.508	0.928	16.3	0.1235	0.0000	SURCHARGED
180 minute summer	S17	396	113.509	0.979	27.6	3.9213	0.0000	SURCHARGED
180 minute summer	S18	88	112.584	0.080	11.0	0.0904	0.0000	OK
180 minute summer	OUTFALL	88	112.505	0.077	11.0	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
180 minute summer	S14	1.012	BC15	34.6	2.789	0.249	0.0786	
180 minute summer	BC15	1.013	BC16	19.6	0.103	0.002	116.7148	
180 minute summer	BC16	1.014	S17	9.4	-0.436	0.120	0.2531	
180 minute summer	S31	7.000	BC32	5.2	1.426	0.045	0.0082	
180 minute summer	BC32	7.001	BC33	-5.3	0.068	-0.001	64.2439	
180 minute summer	BC33	7.002	S17	-13.6	-0.260	-0.159	0.5881	
180 minute summer	S17	Hydro-Brake®	S18	11.0				
180 minute summer	S18	1.016	OUTFALL	11.0	0.889	0.259	0.1421	220.3

Results for 100 year +40% CC 180 minute winter. 420 minute analysis at 4 minute timestep. Mass balance: 98.97%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
180 minute winter	S01	96	127.555	0.048	7.1	0.0754	0.0000	OK
180 minute winter	S02	96	126.064	0.066	15.5	0.1493	0.0000	OK
180 minute winter	S03	176	124.985	0.840	29.5	0.5959	0.0000	OK
180 minute winter	S04	176	124.985	0.954	19.4	0.0000	0.0000	SURCHARGED
180 minute winter	S05	176	124.985	0.960	28.1	3.6207	0.0000	SURCHARGED
180 minute winter	S19	200	124.908	0.733	5.8	1.4976	0.0000	SURCHARGED
180 minute winter	S06	200	124.908	0.994	36.3	2.1659	0.0000	SURCHARGED
180 minute winter	HW07	200	124.909	1.196	35.8	0.0000	0.0000	OK
180 minute winter	S20	172	125.135	1.212	12.7	6.0971	0.0000	OK
180 minute winter	S24	172	125.135	1.253	15.4	3.3044	0.0000	OK
180 minute winter	S21	172	125.135	1.300	19.8	7.6083	0.0000	OK
180 minute winter	S22	172	125.135	1.336	7.6	6.0446	0.0000	SURCHARGED
180 minute winter	HW23	200	124.908	1.195	4.7	0.0000	0.0000	OK
180 minute winter	HW08	200	124.908	1.362	26.2	0.6195	0.0000	SURCHARGED
180 minute winter	S09	200	124.897	1.416	5.6	2.0267	0.0000	FLOOD RISK
180 minute winter	S25	180	123.763	0.862	10.0	2.8461	0.0000	OK
180 minute winter	S26	184	123.764	1.042	8.6	2.6530	0.0000	SURCHARGED
180 minute winter	S10	200	122.735	0.038	5.7	0.0433	0.0000	OK
180 minute winter	S11	196	121.071	0.071	5.7	0.0616	0.0000	OK
180 minute winter	S12	92	120.923	0.050	12.7	0.0878	0.0000	OK
180 minute winter	S13	92	117.507	0.063	20.8	0.0944	0.0000	OK
180 minute winter	S27	96	117.467	0.042	9.7	0.0664	0.0000	OK
180 minute winter	BC28	148	115.744	1.169	23.7	0.2830	0.0000	OK
180 minute winter	BC29	148	115.744	1.504	17.5	0.0000	0.0000	SURCHARGED
180 minute winter	S30	148	115.744	1.514	7.7	3.2056	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
180 minute winter	S01	1.000	S02	7.1	1.165	0.220	0.2818	
180 minute winter	S02	1.001	S03	15.5	2.132	0.377	0.0963	
180 minute winter	S03	1.002	S04	19.4	0.145	0.004	55.4191	
180 minute winter	S04	1.003	S05	16.1	-0.394	0.252	0.1171	
180 minute winter	S05	Hydro-Brake®	S06	27.3				
180 minute winter	S19	2.000	S06	5.3	0.645	0.367	0.2539	
180 minute winter	S06	1.005	HW07	35.8	0.792	0.561	0.6451	
180 minute winter	HW07	Flow through pond	HW08	20.5	0.095	0.000	201.2119	
180 minute winter	S20	3.000	S21	7.2	0.257	0.001	27.5502	
180 minute winter	S24	4.000	S21	9.9	0.266	0.003	30.0951	
180 minute winter	S21	3.001	S22	7.6	0.409	0.001	11.8665	
180 minute winter	S22	Hydro-Brake®	HW23	4.7				
180 minute winter	HW23	Flow through pond	HW08	20.5	0.095	0.000	201.2119	
180 minute winter	HW08	1.006	S09	5.6	0.450	0.388	0.1705	
180 minute winter	S09	Hydro-Brake®	S10	5.4				
180 minute winter	S25	5.000	S26	8.6	0.286	0.003	33.9566	
180 minute winter	S26	Hydro-Brake®	S10	0.5				
180 minute winter	S10	1.008	S11	5.7	1.002	0.142	0.1974	
180 minute winter	S11	1.009	S12	5.7	1.040	0.397	0.1197	
180 minute winter	S12	1.010	S13	12.7	2.110	0.242	0.2413	
180 minute winter	S13	1.011	S14	20.8	2.698	0.363	0.2447	
180 minute winter	S27	6.000	BC28	9.7	2.435	0.166	0.1372	
180 minute winter	BC28	6.001	BC29	16.0	0.177	0.002	59.7464	
180 minute winter	BC29	6.002	S30	-4.7	-0.149	-0.128	0.0793	
180 minute winter	S30	Hydro-Brake®	S14	4.8				

Results for 100 year +40% CC 180 minute winter. 420 minute analysis at 4 minute timestep. Mass balance: 98.97%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
180 minute winter	S14	92	114.273	0.073	28.3	0.1417	0.0000	OK
180 minute winter	BC15	420	113.605	0.827	28.3	0.0000	0.0000	OK
180 minute winter	BC16	420	113.605	1.057	18.1	0.0000	0.0000	SURCHARGED
180 minute winter	S31	96	113.968	0.030	4.0	0.0408	0.0000	OK
180 minute winter	BC32	420	113.605	0.755	8.9	0.0000	0.0000	OK
180 minute winter	BC33	420	113.604	1.024	12.7	0.1362	0.0000	SURCHARGED
180 minute winter	S17	420	113.604	1.074	22.1	4.3036	0.0000	SURCHARGED
180 minute winter	S18	84	112.584	0.080	11.0	0.0904	0.0000	OK
180 minute winter	OUTFALL	84	112.504	0.077	11.0	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
180 minute winter	S14	1.012	BC15	28.3	2.649	0.204	0.0677	
180 minute winter	BC15	1.013	BC16	18.1	0.130	0.002	130.0231	
180 minute winter	BC16	1.014	S17	9.8	-0.451	0.125	0.2531	
180 minute winter	S31	7.000	BC32	4.0	1.326	0.034	0.0068	
180 minute winter	BC32	7.001	BC33	-4.9	0.059	-0.001	72.0531	
180 minute winter	BC33	7.002	S17	-10.6	-0.273	-0.123	0.5881	
180 minute winter	S17	Hydro-Brake®	S18	11.0				
180 minute winter	S18	1.016	OUTFALL	11.0	0.889	0.259	0.1421	226.6

Results for 100 year +40% CC 240 minute summer. 480 minute analysis at 4 minute timestep. Mass balance: 99.09%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
240 minute summer	S01	124	127.557	0.050	7.8	0.0790	0.0000	OK
240 minute summer	S02	124	126.067	0.069	17.1	0.1575	0.0000	OK
240 minute summer	S03	240	124.919	0.774	32.5	0.5487	0.0000	OK
240 minute summer	S04	240	124.919	0.888	19.5	0.0000	0.0000	SURCHARGED
240 minute summer	S05	240	124.919	0.894	28.2	3.3697	0.0000	SURCHARGED
240 minute summer	S19	248	124.852	0.676	6.3	1.3820	0.0000	SURCHARGED
240 minute summer	S06	248	124.852	0.938	36.8	2.0434	0.0000	SURCHARGED
240 minute summer	HW07	252	124.851	1.139	36.3	0.0000	0.0000	OK
240 minute summer	S20	192	124.965	1.042	14.0	5.2403	0.0000	OK
240 minute summer	S24	192	124.965	1.083	16.9	2.8550	0.0000	OK
240 minute summer	S21	192	124.965	1.130	21.5	6.6113	0.0000	OK
240 minute summer	S22	192	124.965	1.166	7.9	5.2738	0.0000	SURCHARGED
240 minute summer	HW23	252	124.852	1.139	4.6	0.0000	0.0000	OK
240 minute summer	HW08	248	124.851	1.305	26.7	0.5939	0.0000	SURCHARGED
240 minute summer	S09	248	124.841	1.360	5.5	1.9466	0.0000	SURCHARGED
240 minute summer	S25	244	123.698	0.798	11.1	2.6345	0.0000	OK
240 minute summer	S26	244	123.699	0.977	6.1	2.4861	0.0000	SURCHARGED
240 minute summer	S10	76	122.735	0.038	5.7	0.0431	0.0000	OK
240 minute summer	S11	252	121.070	0.070	5.7	0.0610	0.0000	OK
240 minute summer	S12	124	120.925	0.052	13.6	0.0910	0.0000	OK
240 minute summer	S13	124	117.509	0.065	22.6	0.0988	0.0000	OK
240 minute summer	S27	124	117.469	0.044	10.7	0.0698	0.0000	OK
240 minute summer	BC28	176	115.451	0.876	23.3	0.2120	0.0000	OK
240 minute summer	BC29	180	115.451	1.211	20.6	0.0000	0.0000	SURCHARGED
240 minute summer	S30	180	115.451	1.221	8.5	2.5842	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
240 minute summer	S01	1.000	S02	7.8	1.190	0.240	0.3016	
240 minute summer	S02	1.001	S03	17.0	2.181	0.413	0.1031	
240 minute summer	S03	1.002	S04	19.5	0.157	0.004	51.3067	
240 minute summer	S04	1.003	S05	15.7	-0.460	0.246	0.1171	
240 minute summer	S05	Hydro-Brake®	S06	27.2				
240 minute summer	S19	2.000	S06	5.7	0.644	0.392	0.2539	
240 minute summer	S06	1.005	HW07	36.3	0.734	0.568	0.6451	
240 minute summer	HW07	Flow through pond	HW08	20.0	0.092	0.000	184.4509	
240 minute summer	S20	3.000	S21	7.6	0.241	0.001	23.8929	
240 minute summer	S24	4.000	S21	11.0	0.269	0.003	26.2396	
240 minute summer	S21	3.001	S22	7.9	0.396	0.001	10.4676	
240 minute summer	S22	Hydro-Brake®	HW23	4.6				
240 minute summer	HW23	Flow through pond	HW08	20.0	0.092	0.000	184.4509	
240 minute summer	HW08	1.006	S09	5.5	0.434	0.383	0.1705	
240 minute summer	S09	Hydro-Brake®	S10	5.4				
240 minute summer	S25	5.000	S26	6.1	0.300	0.002	31.6799	
240 minute summer	S26	Hydro-Brake®	S10	0.5				
240 minute summer	S10	1.008	S11	5.7	1.001	0.141	0.1947	
240 minute summer	S11	1.009	S12	5.7	1.034	0.393	0.1213	
240 minute summer	S12	1.010	S13	13.6	2.133	0.259	0.2550	
240 minute summer	S13	1.011	S14	22.6	2.760	0.394	0.2593	
240 minute summer	S27	6.000	BC28	10.7	2.501	0.182	0.0719	
240 minute summer	BC28	6.001	BC29	18.4	0.147	0.002	52.3119	
240 minute summer	BC29	6.002	S30	-4.7	-0.192	-0.127	0.0793	
240 minute summer	S30	Hydro-Brake®	S14	4.5				

Results for 100 year +40% CC 240 minute summer. 480 minute analysis at 4 minute timestep. Mass balance: 99.09%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
240 minute summer	S14	124	114.276	0.076	30.6	0.1480	0.0000	OK
240 minute summer	BC15	428	113.563	0.785	30.6	0.0000	0.0000	OK
240 minute summer	BC16	436	113.564	1.016	19.5	0.0000	0.0000	SURCHARGED
240 minute summer	S31	124	113.970	0.032	4.4	0.0428	0.0000	OK
240 minute summer	BC32	436	113.563	0.713	9.6	0.0000	0.0000	OK
240 minute summer	BC33	436	113.563	0.983	13.5	0.1308	0.0000	SURCHARGED
240 minute summer	S17	436	113.564	1.034	23.4	4.1418	0.0000	SURCHARGED
240 minute summer	S18	116	112.584	0.080	11.0	0.0904	0.0000	OK
240 minute summer	OUTFALL	116	112.504	0.077	11.0	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
240 minute summer	S14	1.012	BC15	30.6	2.704	0.220	0.0718	
240 minute summer	BC15	1.013	BC16	19.3	0.106	0.002	124.3252	
240 minute summer	BC16	1.014	S17	9.6	-0.269	0.122	0.2531	
240 minute summer	S31	7.000	BC32	4.4	1.361	0.038	0.0073	
240 minute summer	BC32	7.001	BC33	-5.5	0.045	-0.001	68.7080	
240 minute summer	BC33	7.002	S17	-11.2	-0.250	-0.131	0.5881	
240 minute summer	S17	Hydro-Brake®	S18	11.0				
240 minute summer	S18	1.016	OUTFALL	11.0	0.889	0.259	0.1421	255.3

Results for 100 year +40% CC 240 minute winter. 480 minute analysis at 4 minute timestep. Mass balance: 99.03%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
240 minute winter	S01	124	127.550	0.043	5.8	0.0679	0.0000	OK
240 minute winter	S02	124	126.057	0.059	12.7	0.1334	0.0000	OK
240 minute winter	S03	232	125.022	0.877	24.2	0.6217	0.0000	OK
240 minute winter	S04	232	125.022	0.991	16.9	0.0000	0.0000	SURCHARGED
240 minute winter	S05	232	125.022	0.997	25.4	3.7578	0.0000	SURCHARGED
240 minute winter	S19	256	124.952	0.777	4.7	1.5877	0.0000	SURCHARGED
240 minute winter	S06	256	124.952	1.038	32.1	2.2619	0.0000	SURCHARGED
240 minute winter	HW07	248	124.953	1.240	31.7	0.0000	0.0000	OK
240 minute winter	S20	200	125.148	1.225	10.4	6.1623	0.0000	OK
240 minute winter	S24	200	125.148	1.266	12.6	3.3385	0.0000	OK
240 minute winter	S21	200	125.148	1.313	16.4	7.6841	0.0000	OK
240 minute winter	S22	200	125.148	1.349	6.8	6.1032	0.0000	SURCHARGED
240 minute winter	HW23	256	124.952	1.239	4.7	0.0000	0.0000	OK
240 minute winter	HW08	256	124.952	1.406	23.6	0.6396	0.0000	SURCHARGED
240 minute winter	S09	256	124.941	1.460	5.6	2.0895	0.0000	FLOOD RISK
240 minute winter	S25	244	123.825	0.925	8.2	3.0510	0.0000	OK
240 minute winter	S26	240	123.826	1.104	5.9	2.8105	0.0000	SURCHARGED
240 minute winter	S10	252	122.736	0.039	5.8	0.0437	0.0000	OK
240 minute winter	S11	252	121.072	0.072	5.8	0.0621	0.0000	OK
240 minute winter	S12	128	120.920	0.047	11.2	0.0820	0.0000	OK
240 minute winter	S13	124	117.502	0.057	17.8	0.0868	0.0000	OK
240 minute winter	S27	124	117.463	0.038	8.0	0.0601	0.0000	OK
240 minute winter	BC28	188	115.676	1.101	20.3	0.2664	0.0000	OK
240 minute winter	BC29	188	115.676	1.436	20.2	0.0000	0.0000	SURCHARGED
240 minute winter	S30	188	115.676	1.446	6.6	3.0607	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
240 minute winter	S01	1.000	S02	5.8	1.104	0.179	0.2428	
240 minute winter	S02	1.001	S03	12.7	2.023	0.308	0.0830	
240 minute winter	S03	1.002	S04	16.9	0.105	0.003	57.6651	
240 minute winter	S04	1.003	S05	12.2	-0.305	0.192	0.1171	
240 minute winter	S05	Hydro-Brake®	S06	24.8				
240 minute winter	S19	2.000	S06	4.3	0.623	0.297	0.2539	
240 minute winter	S06	1.005	HW07	31.7	0.751	0.497	0.6451	
240 minute winter	HW07	Flow through pond	HW08	19.0	0.081	0.000	214.9900	
240 minute winter	S20	3.000	S21	6.2	0.218	0.001	27.7976	
240 minute winter	S24	4.000	S21	8.5	0.240	0.002	30.3500	
240 minute winter	S21	3.001	S22	6.8	0.238	0.001	11.9576	
240 minute winter	S22	Hydro-Brake®	HW23	4.7				
240 minute winter	HW23	Flow through pond	HW08	19.0	0.081	0.000	214.9900	
240 minute winter	HW08	1.006	S09	5.6	0.441	0.384	0.1705	
240 minute winter	S09	Hydro-Brake®	S10	5.4				
240 minute winter	S25	5.000	S26	5.9	0.285	0.002	35.9201	
240 minute winter	S26	Hydro-Brake®	S10	0.5				
240 minute winter	S10	1.008	S11	5.8	0.998	0.145	0.1995	
240 minute winter	S11	1.009	S12	5.8	1.044	0.403	0.1162	
240 minute winter	S12	1.010	S13	11.2	2.070	0.212	0.2171	
240 minute winter	S13	1.011	S14	17.8	2.570	0.311	0.2199	
240 minute winter	S27	6.000	BC28	8.0	2.305	0.137	0.0585	
240 minute winter	BC28	6.001	BC29	20.2	0.100	0.002	58.0211	
240 minute winter	BC29	6.002	S30	4.3	0.157	0.118	0.0793	
240 minute winter	S30	Hydro-Brake®	S14	4.7				

Results for 100 year +40% CC 240 minute winter. 480 minute analysis at 4 minute timestep. Mass balance: 99.03%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
240 minute winter	S14	120	114.268	0.068	24.7	0.1314	0.0000	OK
240 minute winter	BC15	472	113.663	0.885	24.7	0.0000	0.0000	OK
240 minute winter	BC16	464	113.663	1.115	15.1	0.0000	0.0000	SURCHARGED
240 minute winter	S31	124	113.965	0.027	3.3	0.0370	0.0000	OK
240 minute winter	BC32	468	113.663	0.813	6.9	0.0000	0.0000	OK
240 minute winter	BC33	464	113.663	1.083	10.0	0.1440	0.0000	SURCHARGED
240 minute winter	S17	464	113.663	1.133	19.7	4.5389	0.0000	SURCHARGED
240 minute winter	S18	104	112.584	0.080	11.0	0.0904	0.0000	OK
240 minute winter	OUTFALL	104	112.504	0.077	11.0	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
240 minute winter	S14	1.012	BC15	24.7	2.557	0.178	0.0612	
240 minute winter	BC15	1.013	BC16	15.1	0.139	0.001	138.0502	
240 minute winter	BC16	1.014	S17	10.0	-0.268	0.127	0.2531	
240 minute winter	S31	7.000	BC32	3.3	1.254	0.028	0.0059	
240 minute winter	BC32	7.001	BC33	-3.8	0.046	0.000	76.7606	
240 minute winter	BC33	7.002	S17	-8.3	-0.258	-0.097	0.5881	
240 minute winter	S17	Hydro-Brake®	S18	11.0				
240 minute winter	S18	1.016	OUTFALL	11.0	0.889	0.259	0.1421	263.4

Results for 100 year +40% CC 360 minute summer. 600 minute analysis at 8 minute timestep. Mass balance: 99.16%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
360 minute summer	S01	184	127.551	0.044	6.0	0.0689	0.0000	OK
360 minute summer	S02	184	126.057	0.059	13.1	0.1353	0.0000	OK
360 minute summer	S03	360	124.944	0.799	24.9	0.5664	0.0000	OK
360 minute summer	S04	360	124.944	0.913	16.4	0.0000	0.0000	SURCHARGED
360 minute summer	S05	360	124.944	0.919	24.3	3.4639	0.0000	SURCHARGED
360 minute summer	S19	360	124.881	0.706	4.9	1.4424	0.0000	SURCHARGED
360 minute summer	S06	368	124.881	0.967	30.5	2.1075	0.0000	SURCHARGED
360 minute summer	HW07	368	124.882	1.169	30.1	0.0000	0.0000	OK
360 minute summer	S20	256	124.969	1.046	10.7	5.2612	0.0000	OK
360 minute summer	S24	256	124.969	1.087	13.0	2.8666	0.0000	OK
360 minute summer	S21	256	124.969	1.134	16.9	6.6362	0.0000	OK
360 minute summer	S22	256	124.969	1.170	6.8	5.2931	0.0000	SURCHARGED
360 minute summer	HW23	368	124.882	1.169	4.6	0.0000	0.0000	OK
360 minute summer	HW08	368	124.881	1.335	22.4	0.6072	0.0000	SURCHARGED
360 minute summer	S09	368	124.870	1.389	5.5	1.9883	0.0000	FLOOD RISK
360 minute summer	S25	360	123.751	0.851	8.5	2.8084	0.0000	OK
360 minute summer	S26	360	123.752	1.030	5.0	2.6210	0.0000	SURCHARGED
360 minute summer	S10	368	122.735	0.038	5.7	0.0432	0.0000	OK
360 minute summer	S11	368	121.071	0.071	5.7	0.0613	0.0000	OK
360 minute summer	S12	184	120.921	0.048	11.4	0.0830	0.0000	OK
360 minute summer	S13	184	117.502	0.058	18.3	0.0880	0.0000	OK
360 minute summer	S27	184	117.464	0.038	8.2	0.0608	0.0000	OK
360 minute summer	BC28	248	115.401	0.826	20.6	0.1998	0.0000	OK
360 minute summer	BC29	248	115.400	1.160	18.3	0.0000	0.0000	SURCHARGED
360 minute summer	S30	248	115.399	1.169	6.5	2.4752	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
360 minute summer	S01	1.000	S02	6.0	1.115	0.185	0.2478	
360 minute summer	S02	1.001	S03	13.0	2.036	0.316	0.0845	
360 minute summer	S03	1.002	S04	16.4	0.067	0.003	52.8490	
360 minute summer	S04	1.003	S05	11.3	0.236	0.177	0.1171	
360 minute summer	S05	Hydro-Brake®	S06	23.5				
360 minute summer	S19	2.000	S06	4.4	0.590	0.306	0.2539	
360 minute summer	S06	1.005	HW07	30.1	0.698	0.472	0.6451	
360 minute summer	HW07	Flow through pond	HW08	17.8	0.083	0.000	193.1644	
360 minute summer	S20	3.000	S21	5.8	0.205	0.001	23.9907	
360 minute summer	S24	4.000	S21	8.8	0.214	0.002	26.3469	
360 minute summer	S21	3.001	S22	6.8	0.121	0.001	10.5064	
360 minute summer	S22	Hydro-Brake®	HW23	4.5				
360 minute summer	HW23	Flow through pond	HW08	17.8	0.083	0.000	193.1644	
360 minute summer	HW08	1.006	S09	5.5	0.414	0.381	0.1705	
360 minute summer	S09	Hydro-Brake®	S10	5.4				
360 minute summer	S25	5.000	S26	5.0	0.137	0.002	33.5569	
360 minute summer	S26	Hydro-Brake®	S10	0.5				
360 minute summer	S10	1.008	S11	5.7	0.996	0.141	0.1962	
360 minute summer	S11	1.009	S12	5.7	1.037	0.394	0.1152	
360 minute summer	S12	1.010	S13	11.4	2.067	0.217	0.2211	
360 minute summer	S13	1.011	S14	18.3	2.574	0.319	0.2252	
360 minute summer	S27	6.000	BC28	8.2	2.320	0.140	0.0594	
360 minute summer	BC28	6.001	BC29	17.9	0.057	0.002	50.0504	
360 minute summer	BC29	6.002	S30	4.3	0.169	0.118	0.0793	
360 minute summer	S30	Hydro-Brake®	S14	4.5				

Results for 100 year +40% CC 360 minute summer. 600 minute analysis at 8 minute timestep. Mass balance: 99.16%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
360 minute summer	S14	184	114.269	0.069	25.5	0.1338	0.0000	OK
360 minute summer	BC15	512	113.631	0.853	25.5	0.0000	0.0000	OK
360 minute summer	BC16	512	113.632	1.083	15.2	0.0000	0.0000	SURCHARGED
360 minute summer	S31	184	113.966	0.028	3.4	0.0376	0.0000	OK
360 minute summer	BC32	512	113.631	0.781	6.8	0.0000	0.0000	OK
360 minute summer	BC33	512	113.631	1.051	10.4	0.1398	0.0000	SURCHARGED
360 minute summer	S17	512	113.631	1.101	20.2	4.4115	0.0000	SURCHARGED
360 minute summer	S18	168	112.584	0.080	11.0	0.0904	0.0000	OK
360 minute summer	OUTFALL	168	112.505	0.077	11.0	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
360 minute summer	S14	1.012	BC15	25.5	2.578	0.184	0.0627	
360 minute summer	BC15	1.013	BC16	15.2	0.098	0.001	133.6493	
360 minute summer	BC16	1.014	S17	9.8	0.245	0.125	0.2531	
360 minute summer	S31	7.000	BC32	3.4	1.264	0.029	0.0061	
360 minute summer	BC32	7.001	BC33	-3.5	0.030	0.000	74.1775	
360 minute summer	BC33	7.002	S17	-8.7	-0.212	-0.102	0.5881	
360 minute summer	S17	Hydro-Brake®	S18	11.0				
360 minute summer	S18	1.016	OUTFALL	11.0	0.889	0.259	0.1421	323.0

Results for 100 year +40% CC 360 minute winter. 600 minute analysis at 8 minute timestep. Mass balance: 99.08%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
360 minute winter	S01	184	127.544	0.037	4.4	0.0590	0.0000	OK
360 minute winter	S02	184	126.048	0.050	9.6	0.1145	0.0000	OK
360 minute winter	S03	344	125.065	0.920	18.2	0.6525	0.0000	OK
360 minute winter	S04	344	125.065	1.034	13.1	0.0000	0.0000	SURCHARGED
360 minute winter	S05	344	125.065	1.040	19.8	3.9218	0.0000	SURCHARGED
360 minute winter	S19	360	125.001	0.826	3.5	1.6878	0.0000	SURCHARGED
360 minute winter	S06	360	125.001	1.087	24.9	2.3686	0.0000	SURCHARGED
360 minute winter	HW07	360	125.001	1.289	24.6	0.0000	0.0000	OK
360 minute winter	S20	272	125.154	1.231	7.8	6.1910	0.0000	OK
360 minute winter	S24	272	125.154	1.272	9.4	3.3540	0.0000	OK
360 minute winter	S21	272	125.154	1.319	12.6	7.7180	0.0000	OK
360 minute winter	S22	272	125.154	1.355	5.9	6.1294	0.0000	SURCHARGED
360 minute winter	HW23	360	125.001	1.289	7.3	0.0000	0.0000	OK
360 minute winter	HW08	360	125.001	1.455	19.4	0.6618	0.0000	SURCHARGED
360 minute winter	S09	360	124.990	1.509	5.5	2.1589	0.0000	FLOOD RISK
360 minute winter	S25	352	123.910	1.010	6.2	3.3341	0.0000	OK
360 minute winter	S26	352	123.911	1.189	5.0	3.0266	0.0000	SURCHARGED
360 minute winter	S10	360	122.736	0.039	5.9	0.0440	0.0000	OK
360 minute winter	S11	368	121.072	0.072	5.9	0.0627	0.0000	OK
360 minute winter	S12	192	120.917	0.044	9.7	0.0763	0.0000	OK
360 minute winter	S13	184	117.496	0.052	14.6	0.0781	0.0000	OK
360 minute winter	S27	184	117.458	0.033	6.0	0.0520	0.0000	OK
360 minute winter	BC28	264	115.566	0.991	10.5	0.2397	0.0000	OK
360 minute winter	BC29	264	115.566	1.326	17.1	0.0000	0.0000	SURCHARGED
360 minute winter	S30	264	115.565	1.335	5.7	2.8270	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
360 minute winter	S01	1.000	S02	4.4	1.026	0.136	0.1982	
360 minute winter	S02	1.001	S03	9.6	1.876	0.233	0.0676	
360 minute winter	S03	1.002	S04	13.1	0.090	0.003	60.3502	
360 minute winter	S04	1.003	S05	9.3	0.234	0.146	0.1171	
360 minute winter	S05	Hydro-Brake®	S06	19.3				
360 minute winter	S19	2.000	S06	3.2	0.555	0.221	0.2539	
360 minute winter	S06	1.005	HW07	24.6	0.689	0.386	0.6451	
360 minute winter	HW07	Flow through pond	HW08	15.8	0.079	0.000	230.5641	
360 minute winter	S20	3.000	S21	4.8	0.200	0.001	27.9056	
360 minute winter	S24	4.000	S21	6.6	0.215	0.002	30.4645	
360 minute winter	S21	3.001	S22	5.9	0.205	0.001	11.9977	
360 minute winter	S22	Hydro-Brake®	HW23	4.6				
360 minute winter	HW23	Flow through pond	HW08	15.8	0.079	0.000	230.5641	
360 minute winter	HW08	1.006	S09	5.5	0.416	0.381	0.1705	
360 minute winter	S09	Hydro-Brake®	S10	5.4				
360 minute winter	S25	5.000	S26	5.0	0.176	0.002	38.0717	
360 minute winter	S26	Hydro-Brake®	S10	0.5				
360 minute winter	S10	1.008	S11	5.9	0.998	0.147	0.2019	
360 minute winter	S11	1.009	S12	5.9	1.049	0.410	0.1127	
360 minute winter	S12	1.010	S13	9.7	2.031	0.185	0.1917	
360 minute winter	S13	1.011	S14	14.6	2.417	0.255	0.1935	
360 minute winter	S27	6.000	BC28	6.0	2.124	0.102	0.0476	
360 minute winter	BC28	6.001	BC29	17.1	0.080	0.002	55.2377	
360 minute winter	BC29	6.002	S30	4.3	0.168	0.118	0.0793	
360 minute winter	S30	Hydro-Brake®	S14	4.5				

Results for 100 year +40% CC 360 minute winter. 600 minute analysis at 8 minute timestep. Mass balance: 99.08%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
360 minute winter	S14	184	114.262	0.062	20.8	0.1199	0.0000	OK
360 minute winter	BC15	368	113.752	0.974	20.8	0.0000	0.0000	OK
360 minute winter	BC16	368	113.752	1.204	15.0	0.0000	0.0000	SURCHARGED
360 minute winter	S31	184	113.962	0.024	2.5	0.0323	0.0000	OK
360 minute winter	BC32	368	113.752	0.902	5.8	0.0000	0.0000	OK
360 minute winter	BC33	368	113.752	1.172	7.4	0.1558	0.0000	SURCHARGED
360 minute winter	S17	368	113.752	1.222	17.3	4.8951	0.0000	SURCHARGED
360 minute winter	S18	152	112.584	0.080	11.0	0.0904	0.0000	OK
360 minute winter	OUTFALL	152	112.505	0.077	11.0	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
360 minute winter	S14	1.012	BC15	20.8	2.444	0.150	0.0540	
360 minute winter	BC15	1.013	BC16	15.0	0.088	0.001	149.7731	
360 minute winter	BC16	1.014	S17	10.3	0.260	0.131	0.2531	
360 minute winter	S31	7.000	BC32	2.5	1.159	0.021	0.0049	
360 minute winter	BC32	7.001	BC33	-3.4	0.046	0.000	83.9844	
360 minute winter	BC33	7.002	S17	-6.2	-0.215	-0.072	0.5881	
360 minute winter	S17	Hydro-Brake®	S18	11.0				
360 minute winter	S18	1.016	OUTFALL	11.0	0.889	0.259	0.1421	335.2

Results for 100 year +40% CC 480 minute summer. 720 minute analysis at 8 minute timestep. Mass balance: 99.23%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
480 minute summer	S01	248	127.546	0.039	4.7	0.0610	0.0000	OK
480 minute summer	S02	248	126.050	0.052	10.3	0.1190	0.0000	OK
480 minute summer	S03	480	124.946	0.801	19.7	0.5677	0.0000	OK
480 minute summer	S04	480	124.946	0.915	13.7	0.0000	0.0000	SURCHARGED
480 minute summer	S05	480	124.946	0.921	20.4	3.4708	0.0000	SURCHARGED
480 minute summer	S19	480	124.888	0.713	3.8	1.4564	0.0000	SURCHARGED
480 minute summer	S06	480	124.888	0.974	26.0	2.1219	0.0000	SURCHARGED
480 minute summer	HW07	488	124.888	1.176	25.7	0.0000	0.0000	OK
480 minute summer	S20	328	124.960	1.037	8.5	5.2163	0.0000	OK
480 minute summer	S24	328	124.960	1.078	10.2	2.8428	0.0000	OK
480 minute summer	S21	328	124.960	1.125	13.6	6.5838	0.0000	OK
480 minute summer	S22	328	124.960	1.161	6.1	5.2526	0.0000	SURCHARGED
480 minute summer	HW23	488	124.888	1.175	4.3	0.0000	0.0000	OK
480 minute summer	HW08	480	124.887	1.341	19.8	0.6102	0.0000	SURCHARGED
480 minute summer	S09	480	124.877	1.396	5.5	1.9975	0.0000	FLOOD RISK
480 minute summer	S25	480	123.778	0.878	6.7	2.8978	0.0000	OK
480 minute summer	S26	480	123.778	1.056	4.5	2.6871	0.0000	SURCHARGED
480 minute summer	S10	480	122.735	0.038	5.7	0.0432	0.0000	OK
480 minute summer	S11	488	121.071	0.071	5.7	0.0614	0.0000	OK
480 minute summer	S12	240	120.918	0.045	10.1	0.0780	0.0000	OK
480 minute summer	S13	240	117.497	0.053	15.5	0.0806	0.0000	OK
480 minute summer	S27	248	117.459	0.034	6.5	0.0541	0.0000	OK
480 minute summer	BC28	312	115.342	0.766	17.0	0.1855	0.0000	OK
480 minute summer	BC29	320	115.342	1.102	17.6	0.0000	0.0000	SURCHARGED
480 minute summer	S30	320	115.343	1.113	5.7	2.3554	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
480 minute summer	S01	1.000	S02	4.7	1.043	0.145	0.2086	
480 minute summer	S02	1.001	S03	10.3	1.914	0.250	0.0713	
480 minute summer	S03	1.002	S04	13.7	0.068	0.003	52.9625	
480 minute summer	S04	1.003	S05	9.3	0.231	0.146	0.1171	
480 minute summer	S05	Hydro-Brake®	S06	19.7				
480 minute summer	S19	2.000	S06	3.5	0.551	0.239	0.2539	
480 minute summer	S06	1.005	HW07	25.7	0.679	0.402	0.6451	
480 minute summer	HW07	Flow through pond	HW08	15.6	0.079	0.000	195.0989	
480 minute summer	S20	3.000	S21	4.8	0.188	0.001	23.7823	
480 minute summer	S24	4.000	S21	7.1	0.204	0.002	26.1241	
480 minute summer	S21	3.001	S22	6.1	0.162	0.001	10.4248	
480 minute summer	S22	Hydro-Brake®	HW23	4.3				
480 minute summer	HW23	Flow through pond	HW08	15.6	0.079	0.000	195.0989	
480 minute summer	HW08	1.006	S09	5.5	0.407	0.379	0.1705	
480 minute summer	S09	Hydro-Brake®	S10	5.4				
480 minute summer	S25	5.000	S26	4.5	0.137	0.001	34.4474	
480 minute summer	S26	Hydro-Brake®	S10	0.5				
480 minute summer	S10	1.008	S11	5.7	0.994	0.142	0.1966	
480 minute summer	S11	1.009	S12	5.7	1.038	0.395	0.1129	
480 minute summer	S12	1.010	S13	10.1	2.033	0.193	0.1992	
480 minute summer	S13	1.011	S14	15.5	2.431	0.271	0.2025	
480 minute summer	S27	6.000	BC28	6.5	2.173	0.111	0.0504	
480 minute summer	BC28	6.001	BC29	17.6	0.060	0.002	47.0781	
480 minute summer	BC29	6.002	S30	4.3	0.169	0.118	0.0793	
480 minute summer	S30	Hydro-Brake®	S14	4.5				

Results for 100 year +40% CC 480 minute summer. 720 minute analysis at 8 minute timestep. Mass balance: 99.23%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
480 minute summer	S14	240	114.264	0.064	22.3	0.1243	0.0000	OK
480 minute summer	BC15	592	113.672	0.894	22.3	0.0000	0.0000	OK
480 minute summer	BC16	584	113.672	1.124	14.1	0.0000	0.0000	SURCHARGED
480 minute summer	S31	248	113.963	0.025	2.7	0.0336	0.0000	OK
480 minute summer	BC32	592	113.672	0.822	5.7	0.0000	0.0000	OK
480 minute summer	BC33	584	113.672	1.092	8.2	0.1452	0.0000	SURCHARGED
480 minute summer	S17	584	113.672	1.142	18.2	4.5751	0.0000	SURCHARGED
480 minute summer	S18	224	112.584	0.080	11.0	0.0904	0.0000	OK
480 minute summer	OUTFALL	224	112.504	0.077	11.0	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
480 minute summer	S14	1.012	BC15	22.3	2.487	0.160	0.0567	
480 minute summer	BC15	1.013	BC16	14.1	0.103	0.001	139.3019	
480 minute summer	BC16	1.014	S17	9.9	0.277	0.126	0.2531	
480 minute summer	S31	7.000	BC32	2.7	1.185	0.023	0.0051	
480 minute summer	BC32	7.001	BC33	-3.0	0.031	0.000	77.4954	
480 minute summer	BC33	7.002	S17	-6.8	-0.207	-0.080	0.5881	
480 minute summer	S17	Hydro-Brake®	S18	11.0				
480 minute summer	S18	1.016	OUTFALL	11.0	0.889	0.259	0.1421	390.3

Results for 100 year +40% CC 480 minute winter. 720 minute analysis at 8 minute timestep. Mass balance: 99.15%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
480 minute winter	S01	248	127.540	0.033	3.5	0.0526	0.0000	OK
480 minute winter	S02	248	126.043	0.045	7.7	0.1020	0.0000	OK
480 minute winter	S03	456	125.081	0.936	14.7	0.6634	0.0000	OK
480 minute winter	S04	456	125.081	1.050	10.8	0.0000	0.0000	SURCHARGED
480 minute winter	S05	456	125.081	1.056	16.4	3.9798	0.0000	SURCHARGED
480 minute winter	S19	472	125.017	0.842	2.9	1.7208	0.0000	SURCHARGED
480 minute winter	S06	472	125.017	1.103	20.7	2.4043	0.0000	SURCHARGED
480 minute winter	HW07	472	125.017	1.305	20.5	0.0000	0.0000	OK
480 minute winter	S20	352	125.132	1.209	6.3	6.0832	0.0000	OK
480 minute winter	S24	352	125.132	1.250	7.6	3.2971	0.0000	OK
480 minute winter	S21	352	125.132	1.297	10.5	7.5922	0.0000	OK
480 minute winter	S22	352	125.132	1.333	5.4	6.0321	0.0000	SURCHARGED
480 minute winter	HW23	472	125.017	1.305	4.5	0.0000	0.0000	OK
480 minute winter	HW08	472	125.017	1.471	16.8	0.6691	0.0000	SURCHARGED
480 minute winter	S09	472	125.006	1.525	5.5	2.1817	0.0000	FLOOD RISK
480 minute winter	S25	464	123.981	1.081	5.0	3.5659	0.0000	OK
480 minute winter	S26	464	123.981	1.259	3.6	3.2039	0.0000	SURCHARGED
480 minute winter	S10	472	122.736	0.039	6.0	0.0442	0.0000	OK
480 minute winter	S11	488	121.073	0.073	6.0	0.0629	0.0000	OK
480 minute winter	S12	256	120.915	0.042	8.9	0.0729	0.0000	OK
480 minute winter	S13	248	117.492	0.048	12.9	0.0730	0.0000	OK
480 minute winter	S27	248	117.454	0.029	4.8	0.0465	0.0000	OK
480 minute winter	BC28	344	115.445	0.870	10.0	0.2106	0.0000	OK
480 minute winter	BC29	344	115.445	1.205	13.5	0.0000	0.0000	SURCHARGED
480 minute winter	S30	344	115.445	1.215	5.4	2.5712	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
480 minute winter	S01	1.000	S02	3.5	0.961	0.108	0.1687	
480 minute winter	S02	1.001	S03	7.7	1.768	0.187	0.0577	
480 minute winter	S03	1.002	S04	10.8	0.095	0.002	61.2994	
480 minute winter	S04	1.003	S05	7.8	0.238	0.122	0.1171	
480 minute winter	S05	Hydro-Brake®	S06	16.0				
480 minute winter	S19	2.000	S06	2.7	0.534	0.184	0.2539	
480 minute winter	S06	1.005	HW07	20.5	0.675	0.321	0.6451	
480 minute winter	HW07	Flow through pond	HW08	13.9	0.061	0.000	235.9101	
480 minute winter	S20	3.000	S21	4.1	0.203	0.001	27.4972	
480 minute winter	S24	4.000	S21	5.5	0.202	0.001	30.0395	
480 minute winter	S21	3.001	S22	5.4	0.247	0.001	11.8471	
480 minute winter	S22	Hydro-Brake®	HW23	4.5				
480 minute winter	HW23	Flow through pond	HW08	13.9	0.061	0.000	235.9101	
480 minute winter	HW08	1.006	S09	5.5	0.408	0.379	0.1705	
480 minute winter	S09	Hydro-Brake®	S10	5.4				
480 minute winter	S25	5.000	S26	3.6	0.189	0.001	39.0996	
480 minute winter	S26	Hydro-Brake®	S10	0.5				
480 minute winter	S10	1.008	S11	6.0	1.000	0.148	0.2027	
480 minute winter	S11	1.009	S12	6.0	1.050	0.413	0.1117	
480 minute winter	S12	1.010	S13	8.9	2.019	0.169	0.1770	
480 minute winter	S13	1.011	S14	12.9	2.309	0.224	0.1780	
480 minute winter	S27	6.000	BC28	4.8	1.991	0.082	0.0406	
480 minute winter	BC28	6.001	BC29	13.5	0.087	0.001	52.0967	
480 minute winter	BC29	6.002	S30	4.3	0.168	0.118	0.0793	
480 minute winter	S30	Hydro-Brake®	S14	4.5				

Results for 100 year +40% CC 480 minute winter. 720 minute analysis at 8 minute timestep. Mass balance: 99.15%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
480 minute winter	S14	240	114.258	0.058	18.8	0.1135	0.0000	OK
480 minute winter	BC15	480	113.814	1.036	18.8	0.0000	0.0000	OK
480 minute winter	BC16	480	113.814	1.266	13.1	0.0000	0.0000	SURCHARGED
480 minute winter	S31	248	113.959	0.021	2.0	0.0289	0.0000	OK
480 minute winter	BC32	480	113.814	0.964	4.3	0.0000	0.0000	OK
480 minute winter	BC33	480	113.814	1.234	6.0	0.1641	0.0000	SURCHARGED
480 minute winter	S17	480	113.814	1.284	16.0	5.1431	0.0000	SURCHARGED
480 minute winter	S18	200	112.584	0.080	11.0	0.0904	0.0000	OK
480 minute winter	OUTFALL	200	112.505	0.077	11.0	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
480 minute winter	S14	1.012	BC15	18.8	2.375	0.135	0.0501	
480 minute winter	BC15	1.013	BC16	13.1	0.086	0.001	154.3728	
480 minute winter	BC16	1.014	S17	10.3	0.241	0.132	0.2531	
480 minute winter	S31	7.000	BC32	2.0	1.089	0.017	0.0041	
480 minute winter	BC32	7.001	BC33	-2.3	0.029	0.000	87.6552	
480 minute winter	BC33	7.002	S17	-5.0	-0.214	-0.058	0.5881	
480 minute winter	S17	Hydro-Brake®	S18	11.0				
480 minute winter	S18	1.016	OUTFALL	11.0	0.889	0.259	0.1421	406.0

Results for 100 year +40% CC 600 minute summer. 840 minute analysis at 15 minute timestep. Mass balance: 99.28%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
600 minute summer	S01	315	127.542	0.035	3.9	0.0556	0.0000	OK
600 minute summer	S02	315	126.045	0.047	8.5	0.1074	0.0000	OK
600 minute summer	S03	555	124.937	0.792	16.2	0.5616	0.0000	OK
600 minute summer	S04	555	124.937	0.906	11.6	0.0000	0.0000	SURCHARGED
600 minute summer	S05	555	124.937	0.912	17.4	3.4385	0.0000	SURCHARGED
600 minute summer	S19	555	124.880	0.705	3.2	1.4396	0.0000	SURCHARGED
600 minute summer	S06	555	124.880	0.966	22.1	2.1040	0.0000	SURCHARGED
600 minute summer	HW07	555	124.880	1.167	21.8	0.0000	0.0000	OK
600 minute summer	S20	525	124.943	1.020	6.9	5.1292	0.0000	OK
600 minute summer	S24	525	124.943	1.061	8.4	2.7970	0.0000	OK
600 minute summer	S21	525	124.943	1.108	11.5	6.4823	0.0000	OK
600 minute summer	S22	525	124.943	1.144	5.6	5.1741	0.0000	SURCHARGED
600 minute summer	HW23	555	124.880	1.167	4.2	0.0000	0.0000	OK
600 minute summer	HW08	555	124.879	1.333	17.3	0.6064	0.0000	SURCHARGED
600 minute summer	S09	555	124.869	1.388	5.5	1.9858	0.0000	FLOOD RISK
600 minute summer	S25	600	123.785	0.885	5.5	2.9194	0.0000	OK
600 minute summer	S26	600	123.785	1.063	3.4	2.7050	0.0000	SURCHARGED
600 minute summer	S10	555	122.735	0.038	5.7	0.0432	0.0000	OK
600 minute summer	S11	615	121.071	0.071	5.7	0.0613	0.0000	OK
600 minute summer	S12	300	120.916	0.043	9.3	0.0747	0.0000	OK
600 minute summer	S13	300	117.494	0.050	13.7	0.0755	0.0000	OK
600 minute summer	S27	315	117.456	0.031	5.3	0.0488	0.0000	OK
600 minute summer	BC28	390	115.281	0.706	12.4	0.1707	0.0000	OK
600 minute summer	BC29	390	115.279	1.039	11.5	0.0000	0.0000	SURCHARGED
600 minute summer	S30	390	115.278	1.048	5.4	2.2195	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
600 minute summer	S01	1.000	S02	3.9	0.993	0.121	0.1818	
600 minute summer	S02	1.001	S03	8.5	1.817	0.206	0.0620	
600 minute summer	S03	1.002	S04	11.6	0.056	0.002	52.4335	
600 minute summer	S04	1.003	S05	7.8	0.235	0.122	0.1171	
600 minute summer	S05	Hydro-Brake®	S06	16.8				
600 minute summer	S19	2.000	S06	2.9	0.534	0.202	0.2539	
600 minute summer	S06	1.005	HW07	21.8	0.667	0.341	0.6451	
600 minute summer	HW07	Flow through pond	HW08	13.8	0.058	0.000	192.6534	
600 minute summer	S20	3.000	S21	4.3	0.185	0.001	23.3733	
600 minute summer	S24	4.000	S21	5.6	0.200	0.001	25.6891	
600 minute summer	S21	3.001	S22	5.6	0.134	0.001	10.2632	
600 minute summer	S22	Hydro-Brake®	HW23	4.2				
600 minute summer	HW23	Flow through pond	HW08	13.8	0.058	0.000	192.6534	
600 minute summer	HW08	1.006	S09	5.5	0.379	0.379	0.1705	
600 minute summer	S09	Hydro-Brake®	S10	5.4				
600 minute summer	S25	5.000	S26	3.4	0.085	0.001	34.6643	
600 minute summer	S26	Hydro-Brake®	S10	0.5				
600 minute summer	S10	1.008	S11	5.7	0.993	0.141	0.1961	
600 minute summer	S11	1.009	S12	5.7	1.037	0.394	0.1116	
600 minute summer	S12	1.010	S13	9.3	2.023	0.177	0.1846	
600 minute summer	S13	1.011	S14	13.7	2.330	0.239	0.1867	
600 minute summer	S27	6.000	BC28	5.3	2.049	0.091	0.0436	
600 minute summer	BC28	6.001	BC29	11.5	0.035	0.001	43.9844	
600 minute summer	BC29	6.002	S30	4.3	0.164	0.118	0.0793	
600 minute summer	S30	Hydro-Brake®	S14	4.5				

Results for 100 year +40% CC 600 minute summer. 840 minute analysis at 15 minute timestep. Mass balance: 99.28%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
600 minute summer	S14	300	114.261	0.060	20.0	0.1175	0.0000	OK
600 minute summer	BC15	660	113.700	0.922	20.0	0.0000	0.0000	OK
600 minute summer	BC16	660	113.700	1.152	13.4	0.0000	0.0000	SURCHARGED
600 minute summer	S31	315	113.960	0.022	2.2	0.0303	0.0000	OK
600 minute summer	BC32	660	113.699	0.849	4.7	0.0000	0.0000	OK
600 minute summer	BC33	660	113.699	1.119	6.7	0.1489	0.0000	SURCHARGED
600 minute summer	S17	660	113.700	1.169	16.8	4.6860	0.0000	SURCHARGED
600 minute summer	S18	285	112.584	0.080	11.0	0.0904	0.0000	OK
600 minute summer	OUTFALL	285	112.504	0.077	11.0	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
600 minute summer	S14	1.012	BC15	20.0	2.418	0.144	0.0525	
600 minute summer	BC15	1.013	BC16	13.4	0.073	0.001	143.1281	
600 minute summer	BC16	1.014	S17	10.0	0.256	0.128	0.2531	
600 minute summer	S31	7.000	BC32	2.2	1.118	0.019	0.0044	
600 minute summer	BC32	7.001	BC33	-2.5	0.010	0.000	79.7388	
600 minute summer	BC33	7.002	S17	-5.6	-0.190	-0.065	0.5881	
600 minute summer	S17	Hydro-Brake®	S18	11.0				
600 minute summer	S18	1.016	OUTFALL	11.0	0.889	0.259	0.1420	450.8

Results for 100 year +40% CC 600 minute winter. 840 minute analysis at 15 minute timestep. Mass balance: 99.21%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
600 minute winter	S01	315	127.538	0.031	3.0	0.0488	0.0000	OK
600 minute winter	S02	315	126.039	0.041	6.5	0.0933	0.0000	OK
600 minute winter	S03	570	125.077	0.932	12.4	0.6608	0.0000	OK
600 minute winter	S04	570	125.077	1.046	9.2	0.0000	0.0000	SURCHARGED
600 minute winter	S05	570	125.077	1.052	14.0	3.9659	0.0000	SURCHARGED
600 minute winter	S19	585	125.016	0.841	2.4	1.7184	0.0000	SURCHARGED
600 minute winter	S06	585	125.016	1.102	17.6	2.4014	0.0000	SURCHARGED
600 minute winter	HW07	585	125.016	1.303	17.4	0.0000	0.0000	OK
600 minute winter	S20	435	125.104	1.181	5.3	5.9389	0.0000	OK
600 minute winter	S24	435	125.104	1.222	6.4	3.2217	0.0000	OK
600 minute winter	S21	435	125.104	1.269	9.1	7.4245	0.0000	OK
600 minute winter	S22	435	125.104	1.305	5.0	5.9025	0.0000	SURCHARGED
600 minute winter	HW23	585	125.016	1.303	4.5	0.0000	0.0000	OK
600 minute winter	HW08	585	125.015	1.469	14.9	0.6685	0.0000	SURCHARGED
600 minute winter	S09	585	125.004	1.523	5.5	2.1798	0.0000	FLOOD RISK
600 minute winter	S25	585	124.049	1.149	4.2	3.7901	0.0000	OK
600 minute winter	S26	585	124.049	1.327	3.4	3.3760	0.0000	SURCHARGED
600 minute winter	S10	585	122.736	0.039	6.0	0.0442	0.0000	OK
600 minute winter	S11	600	121.073	0.073	6.0	0.0629	0.0000	OK
600 minute winter	S12	315	120.913	0.040	8.3	0.0705	0.0000	OK
600 minute winter	S13	315	117.490	0.046	11.7	0.0696	0.0000	OK
600 minute winter	S27	315	117.452	0.027	4.1	0.0430	0.0000	OK
600 minute winter	BC28	420	115.359	0.784	11.5	0.1898	0.0000	OK
600 minute winter	BC29	420	115.359	1.119	11.3	0.0000	0.0000	SURCHARGED
600 minute winter	S30	420	115.359	1.129	5.0	2.3906	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
600 minute winter	S01	1.000	S02	3.0	0.927	0.093	0.1500	
600 minute winter	S02	1.001	S03	6.5	1.686	0.158	0.0511	
600 minute winter	S03	1.002	S04	9.2	0.055	0.002	61.0723	
600 minute winter	S04	1.003	S05	6.6	0.228	0.103	0.1171	
600 minute winter	S05	Hydro-Brake®	S06	13.7				
600 minute winter	S19	2.000	S06	2.2	0.515	0.152	0.2539	
600 minute winter	S06	1.005	HW07	17.4	0.640	0.272	0.6451	
600 minute winter	HW07	Flow through pond	HW08	12.4	0.058	0.000	235.4630	
600 minute winter	S20	3.000	S21	3.5	0.185	0.001	26.9321	
600 minute winter	S24	4.000	S21	4.4	0.190	0.001	29.4490	
600 minute winter	S21	3.001	S22	5.0	0.146	0.001	11.6370	
600 minute winter	S22	Hydro-Brake®	HW23	4.4				
600 minute winter	HW23	Flow through pond	HW08	12.4	0.058	0.000	235.4630	
600 minute winter	HW08	1.006	S09	5.5	0.374	0.378	0.1705	
600 minute winter	S09	Hydro-Brake®	S10	5.4				
600 minute winter	S25	5.000	S26	3.4	0.108	0.001	39.8313	
600 minute winter	S26	Hydro-Brake®	S10	0.5				
600 minute winter	S10	1.008	S11	6.0	1.000	0.148	0.2029	
600 minute winter	S11	1.009	S12	6.0	1.050	0.413	0.1117	
600 minute winter	S12	1.010	S13	8.3	2.019	0.158	0.1672	
600 minute winter	S13	1.011	S14	11.7	2.227	0.204	0.1677	
600 minute winter	S27	6.000	BC28	4.1	1.900	0.070	0.0364	
600 minute winter	BC28	6.001	BC29	11.3	0.045	0.001	47.9892	
600 minute winter	BC29	6.002	S30	4.3	0.166	0.118	0.0793	
600 minute winter	S30	Hydro-Brake®	S14	4.5				

Results for 100 year +40% CC 600 minute winter. 840 minute analysis at 15 minute timestep. Mass balance: 99.21%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
600 minute winter	S14	315	114.256	0.056	17.4	0.1089	0.0000	OK
600 minute winter	BC15	600	113.856	1.078	17.4	0.0000	0.0000	OK
600 minute winter	BC16	600	113.856	1.308	12.8	0.0000	0.0000	SURCHARGED
600 minute winter	S31	315	113.958	0.020	1.7	0.0267	0.0000	OK
600 minute winter	BC32	600	113.855	1.005	3.6	0.0000	0.0000	OK
600 minute winter	BC33	600	113.855	1.275	5.0	0.1696	0.0000	SURCHARGED
600 minute winter	S17	600	113.855	1.325	15.1	5.3101	0.0000	SURCHARGED
600 minute winter	S18	255	112.584	0.080	11.0	0.0904	0.0000	OK
600 minute winter	OUTFALL	255	112.505	0.077	11.0	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
600 minute winter	S14	1.012	BC15	17.4	2.326	0.125	0.0716	
600 minute winter	BC15	1.013	BC16	12.8	0.077	0.001	157.2403	
600 minute winter	BC16	1.014	S17	10.4	0.231	0.133	0.2531	
600 minute winter	S31	7.000	BC32	1.7	1.040	0.015	0.0038	
600 minute winter	BC32	7.001	BC33	-1.9	0.024	0.000	89.3382	
600 minute winter	BC33	7.002	S17	-4.1	-0.126	-0.048	0.5881	
600 minute winter	S17	Hydro-Brake®	S18	11.0				
600 minute winter	S18	1.016	OUTFALL	11.0	0.889	0.259	0.1421	472.7

Results for 100 year +40% CC 720 minute summer. 960 minute analysis at 15 minute timestep. Mass balance: 99.33%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
720 minute summer	S01	375	127.540	0.033	3.5	0.0526	0.0000	OK
720 minute summer	S02	375	126.043	0.044	7.6	0.1013	0.0000	OK
720 minute summer	S03	615	124.929	0.784	14.4	0.5555	0.0000	OK
720 minute summer	S04	615	124.929	0.898	10.4	0.0000	0.0000	SURCHARGED
720 minute summer	S05	615	124.929	0.904	15.5	3.4063	0.0000	SURCHARGED
720 minute summer	S19	615	124.871	0.696	2.8	1.4224	0.0000	SURCHARGED
720 minute summer	S06	615	124.871	0.957	19.7	2.0856	0.0000	SURCHARGED
720 minute summer	HW07	615	124.872	1.159	19.4	0.0000	0.0000	OK
720 minute summer	S20	600	124.935	1.012	6.2	5.0880	0.0000	OK
720 minute summer	S24	600	124.935	1.053	7.5	2.7756	0.0000	OK
720 minute summer	S21	600	124.935	1.100	10.3	6.4345	0.0000	OK
720 minute summer	S22	600	124.935	1.136	5.2	5.1372	0.0000	SURCHARGED
720 minute summer	HW23	615	124.871	1.159	4.1	0.0000	0.0000	OK
720 minute summer	HW08	615	124.870	1.324	15.9	0.6026	0.0000	SURCHARGED
720 minute summer	S09	615	124.860	1.379	5.5	1.9738	0.0000	FLOOD RISK
720 minute summer	S25	690	123.792	0.892	4.9	2.9442	0.0000	OK
720 minute summer	S26	690	123.792	1.070	2.5	2.7240	0.0000	SURCHARGED
720 minute summer	S10	630	122.735	0.038	5.7	0.0431	0.0000	OK
720 minute summer	S11	735	121.071	0.071	5.7	0.0611	0.0000	OK
720 minute summer	S12	360	120.915	0.042	8.8	0.0725	0.0000	OK
720 minute summer	S13	360	117.492	0.048	12.8	0.0728	0.0000	OK
720 minute summer	S27	375	117.454	0.029	4.8	0.0465	0.0000	OK
720 minute summer	BC28	465	115.225	0.650	8.4	0.1573	0.0000	OK
720 minute summer	BC29	465	115.224	0.984	13.0	0.0000	0.0000	SURCHARGED
720 minute summer	S30	450	115.224	0.994	5.0	2.1035	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
720 minute summer	S01	1.000	S02	3.5	0.966	0.108	0.1678	
720 minute summer	S02	1.001	S03	7.6	1.762	0.185	0.0572	
720 minute summer	S03	1.002	S04	10.4	0.057	0.002	51.9062	
720 minute summer	S04	1.003	S05	6.9	0.228	0.108	0.1171	
720 minute summer	S05	Hydro-Brake®	S06	15.1				
720 minute summer	S19	2.000	S06	2.6	0.534	0.177	0.2539	
720 minute summer	S06	1.005	HW07	19.4	0.647	0.305	0.6451	
720 minute summer	HW07	Flow through pond	HW08	12.8	0.056	0.000	190.1491	
720 minute summer	S20	3.000	S21	3.6	0.185	0.001	23.1777	
720 minute summer	S24	4.000	S21	5.5	0.198	0.001	25.4833	
720 minute summer	S21	3.001	S22	5.2	0.133	0.001	10.1864	
720 minute summer	S22	Hydro-Brake®	HW23	4.1				
720 minute summer	HW23	Flow through pond	HW08	12.8	0.056	0.000	190.1491	
720 minute summer	HW08	1.006	S09	5.5	0.386	0.379	0.1705	
720 minute summer	S09	Hydro-Brake®	S10	5.4				
720 minute summer	S25	5.000	S26	2.5	0.086	0.001	34.9046	
720 minute summer	S26	Hydro-Brake®	S10	0.5				
720 minute summer	S10	1.008	S11	5.7	0.992	0.141	0.1955	
720 minute summer	S11	1.009	S12	5.7	1.036	0.393	0.1109	
720 minute summer	S12	1.010	S13	8.8	2.014	0.167	0.1762	
720 minute summer	S13	1.011	S14	12.8	2.273	0.223	0.1785	
720 minute summer	S27	6.000	BC28	4.8	1.991	0.082	0.0406	
720 minute summer	BC28	6.001	BC29	13.0	0.035	0.001	41.1851	
720 minute summer	BC29	6.002	S30	4.1	0.168	0.111	0.0793	
720 minute summer	S30	Hydro-Brake®	S14	4.5				

Results for 100 year +40% CC 720 minute summer. 960 minute analysis at 15 minute timestep. Mass balance: 99.33%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
720 minute summer	S14	360	114.259	0.059	18.9	0.1140	0.0000	OK
720 minute summer	BC15	735	113.728	0.950	18.9	0.0000	0.0000	OK
720 minute summer	BC16	735	113.728	1.180	12.7	0.0000	0.0000	SURCHARGED
720 minute summer	S31	375	113.959	0.021	1.9	0.0282	0.0000	OK
720 minute summer	BC32	735	113.727	0.877	3.8	0.0000	0.0000	OK
720 minute summer	BC33	735	113.727	1.147	5.9	0.1526	0.0000	SURCHARGED
720 minute summer	S17	735	113.728	1.197	16.1	4.7982	0.0000	SURCHARGED
720 minute summer	S18	330	112.584	0.080	11.0	0.0904	0.0000	OK
720 minute summer	OUTFALL	330	112.504	0.077	11.0	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
720 minute summer	S14	1.012	BC15	18.9	2.381	0.136	0.0504	
720 minute summer	BC15	1.013	BC16	12.7	0.070	0.001	146.9894	
720 minute summer	BC16	1.014	S17	9.9	0.235	0.126	0.2531	
720 minute summer	S31	7.000	BC32	1.9	1.073	0.016	0.0040	
720 minute summer	BC32	7.001	BC33	-1.9	0.014	0.000	82.0054	
720 minute summer	BC33	7.002	S17	-4.9	-0.153	-0.057	0.5881	
720 minute summer	S17	Hydro-Brake®	S18	11.0				
720 minute summer	S18	1.016	OUTFALL	11.0	0.889	0.259	0.1420	514.1

Results for 100 year +40% CC 720 minute winter. 960 minute analysis at 15 minute timestep. Mass balance: 99.26%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
720 minute winter	S01	375	127.536	0.029	2.6	0.0455	0.0000	OK
720 minute winter	S02	375	126.036	0.038	5.7	0.0873	0.0000	OK
720 minute winter	S03	675	125.065	0.920	10.9	0.6522	0.0000	OK
720 minute winter	S04	675	125.065	1.034	8.2	0.0000	0.0000	SURCHARGED
720 minute winter	S05	675	125.065	1.040	12.4	3.9205	0.0000	SURCHARGED
720 minute winter	S19	690	125.006	0.831	2.1	1.6978	0.0000	SURCHARGED
720 minute winter	S06	690	125.006	1.092	15.5	2.3794	0.0000	SURCHARGED
720 minute winter	HW07	690	125.006	1.294	15.4	0.0000	0.0000	OK
720 minute winter	S20	525	125.072	1.149	4.7	5.7789	0.0000	OK
720 minute winter	S24	525	125.072	1.190	5.6	3.1377	0.0000	OK
720 minute winter	S21	525	125.072	1.237	8.1	7.2382	0.0000	OK
720 minute winter	S22	525	125.072	1.273	4.7	5.7585	0.0000	SURCHARGED
720 minute winter	HW23	690	125.005	1.292	4.2	0.0000	0.0000	OK
720 minute winter	HW08	690	125.005	1.459	13.6	0.6639	0.0000	SURCHARGED
720 minute winter	S09	690	124.994	1.513	5.5	2.1655	0.0000	FLOOD RISK
720 minute winter	S25	690	124.100	1.200	3.7	3.9609	0.0000	SURCHARGED
720 minute winter	S26	690	124.100	1.378	2.6	3.5077	0.0000	SURCHARGED
720 minute winter	S10	690	122.736	0.039	6.0	0.0442	0.0000	OK
720 minute winter	S11	720	121.073	0.073	6.0	0.0628	0.0000	OK
720 minute winter	S12	390	120.913	0.040	8.0	0.0690	0.0000	OK
720 minute winter	S13	375	117.488	0.044	10.9	0.0670	0.0000	OK
720 minute winter	S27	375	117.451	0.026	3.6	0.0404	0.0000	OK
720 minute winter	BC28	495	115.247	0.672	8.0	0.1626	0.0000	OK
720 minute winter	BC29	495	115.247	1.007	10.1	0.0000	0.0000	SURCHARGED
720 minute winter	S30	495	115.247	1.017	5.1	2.1536	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
720 minute winter	S01	1.000	S02	2.6	0.885	0.080	0.1361	
720 minute winter	S02	1.001	S03	5.7	1.625	0.138	0.0465	
720 minute winter	S03	1.002	S04	8.2	0.053	0.002	60.3286	
720 minute winter	S04	1.003	S05	5.8	0.235	0.091	0.1171	
720 minute winter	S05	Hydro-Brake®	S06	12.1				
720 minute winter	S19	2.000	S06	1.9	0.493	0.134	0.2539	
720 minute winter	S06	1.005	HW07	15.4	0.638	0.241	0.6451	
720 minute winter	HW07	Flow through pond	HW08	11.4	0.057	0.000	232.1007	
720 minute winter	S20	3.000	S21	3.1	0.197	0.001	26.2773	
720 minute winter	S24	4.000	S21	4.1	0.196	0.001	28.7606	
720 minute winter	S21	3.001	S22	4.7	0.144	0.001	11.3898	
720 minute winter	S22	Hydro-Brake®	HW23	4.2				
720 minute winter	HW23	Flow through pond	HW08	11.4	0.057	0.000	232.1007	
720 minute winter	HW08	1.006	S09	5.5	0.397	0.378	0.1705	
720 minute winter	S09	Hydro-Brake®	S10	5.4				
720 minute winter	S25	5.000	S26	2.6	0.114	0.001	40.1108	
720 minute winter	S26	Hydro-Brake®	S10	0.5				
720 minute winter	S10	1.008	S11	6.0	1.000	0.148	0.2025	
720 minute winter	S11	1.009	S12	6.0	1.049	0.413	0.1115	
720 minute winter	S12	1.010	S13	8.0	2.017	0.152	0.1600	
720 minute winter	S13	1.011	S14	10.9	2.159	0.190	0.1608	
720 minute winter	S27	6.000	BC28	3.6	1.829	0.062	0.0332	
720 minute winter	BC28	6.001	BC29	10.1	0.048	0.001	42.3326	
720 minute winter	BC29	6.002	S30	4.3	0.165	0.118	0.0793	
720 minute winter	S30	Hydro-Brake®	S14	4.5				

Results for 100 year +40% CC 720 minute winter. 960 minute analysis at 15 minute timestep. Mass balance: 99.26%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
720 minute winter	S14	375	114.255	0.055	16.5	0.1061	0.0000	OK
720 minute winter	BC15	735	113.893	1.115	16.5	0.0000	0.0000	OK
720 minute winter	BC16	735	113.893	1.345	13.0	0.0000	0.0000	SURCHARGED
720 minute winter	S31	375	113.957	0.018	1.5	0.0251	0.0000	OK
720 minute winter	BC32	720	113.892	1.042	3.4	0.0000	0.0000	OK
720 minute winter	BC33	735	113.892	1.312	4.5	0.1745	0.0000	SURCHARGED
720 minute winter	S17	735	113.892	1.362	14.4	5.4572	0.0000	SURCHARGED
720 minute winter	S18	300	112.584	0.080	11.0	0.0904	0.0000	OK
720 minute winter	OUTFALL	300	112.504	0.077	11.0	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
720 minute winter	S14	1.012	BC15	16.5	2.295	0.119	0.0981	
720 minute winter	BC15	1.013	BC16	13.0	0.077	0.001	159.7775	
720 minute winter	BC16	1.014	S17	10.5	0.265	0.134	0.2531	
720 minute winter	S31	7.000	BC32	1.5	1.000	0.013	0.0112	
720 minute winter	BC32	7.001	BC33	-1.9	0.026	0.000	90.8254	
720 minute winter	BC33	7.002	S17	-3.7	-0.184	-0.043	0.5881	
720 minute winter	S17	Hydro-Brake®	S18	11.0				
720 minute winter	S18	1.016	OUTFALL	11.0	0.889	0.259	0.1421	538.7

Results for 100 year +40% CC 960 minute summer. 1200 minute analysis at 15 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
960 minute summer	S01	495	127.537	0.030	2.8	0.0471	0.0000	OK
960 minute summer	S02	495	126.038	0.040	6.2	0.0911	0.0000	OK
960 minute summer	S03	720	124.910	0.765	11.8	0.5422	0.0000	OK
960 minute summer	S04	720	124.910	0.879	8.5	0.0000	0.0000	SURCHARGED
960 minute summer	S05	720	124.910	0.885	12.9	3.3353	0.0000	SURCHARGED
960 minute summer	S19	750	124.852	0.677	2.3	1.3829	0.0000	SURCHARGED
960 minute summer	S06	750	124.852	0.938	16.3	2.0435	0.0000	SURCHARGED
960 minute summer	HW07	735	124.852	1.139	16.1	0.0000	0.0000	OK
960 minute summer	S20	720	124.914	0.991	5.1	4.9869	0.0000	OK
960 minute summer	S24	720	124.914	1.032	6.2	2.7225	0.0000	OK
960 minute summer	S21	720	124.914	1.079	8.7	6.3168	0.0000	OK
960 minute summer	S22	720	124.914	1.115	4.6	5.0462	0.0000	SURCHARGED
960 minute summer	HW23	735	124.851	1.139	3.7	0.0000	0.0000	OK
960 minute summer	HW08	750	124.851	1.305	13.6	0.5938	0.0000	SURCHARGED
960 minute summer	S09	750	124.841	1.360	5.5	1.9464	0.0000	SURCHARGED
960 minute summer	S25	795	123.780	0.880	4.0	2.9053	0.0000	OK
960 minute summer	S26	795	123.780	1.058	2.6	2.6937	0.0000	SURCHARGED
960 minute summer	S10	390	122.735	0.038	5.7	0.0431	0.0000	OK
960 minute summer	S11	810	121.070	0.070	5.7	0.0609	0.0000	OK
960 minute summer	S12	465	120.913	0.040	8.1	0.0696	0.0000	OK
960 minute summer	S13	480	117.489	0.045	11.4	0.0685	0.0000	OK
960 minute summer	S27	495	117.452	0.027	3.9	0.0420	0.0000	OK
960 minute summer	BC28	600	115.087	0.512	7.4	0.1240	0.0000	OK
960 minute summer	BC29	600	115.089	0.849	9.4	0.0000	0.0000	SURCHARGED
960 minute summer	S30	600	115.089	0.859	4.9	1.8183	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
960 minute summer	S01	1.000	S02	2.8	0.900	0.087	0.1441	
960 minute summer	S02	1.001	S03	6.2	1.664	0.151	0.0494	
960 minute summer	S03	1.002	S04	8.5	0.055	0.002	50.7415	
960 minute summer	S04	1.003	S05	5.6	0.231	0.088	0.1171	
960 minute summer	S05	Hydro-Brake®	S06	12.5				
960 minute summer	S19	2.000	S06	2.1	0.504	0.145	0.2539	
960 minute summer	S06	1.005	HW07	16.1	0.650	0.252	0.6451	
960 minute summer	HW07	Flow through pond	HW08	11.1	0.052	0.000	184.4026	
960 minute summer	S20	3.000	S21	3.2	0.185	0.001	22.6949	
960 minute summer	S24	4.000	S21	4.5	0.198	0.001	24.9684	
960 minute summer	S21	3.001	S22	4.6	0.132	0.001	9.9952	
960 minute summer	S22	Hydro-Brake®	HW23	3.7				
960 minute summer	HW23	Flow through pond	HW08	11.1	0.052	0.000	184.4026	
960 minute summer	HW08	1.006	S09	5.5	0.386	0.378	0.1705	
960 minute summer	S09	Hydro-Brake®	S10	5.4				
960 minute summer	S25	5.000	S26	2.6	0.094	0.001	34.5251	
960 minute summer	S26	Hydro-Brake®	S10	0.5				
960 minute summer	S10	1.008	S11	5.7	0.991	0.141	0.1946	
960 minute summer	S11	1.009	S12	5.7	1.032	0.392	0.1102	
960 minute summer	S12	1.010	S13	8.1	2.005	0.154	0.1637	
960 minute summer	S13	1.011	S14	11.4	2.178	0.199	0.1659	
960 minute summer	S27	6.000	BC28	3.9	1.873	0.067	0.0351	
960 minute summer	BC28	6.001	BC29	9.4	0.033	0.001	34.3162	
960 minute summer	BC29	6.002	S30	4.0	0.159	0.108	0.0793	
960 minute summer	S30	Hydro-Brake®	S14	4.5				

Results for 100 year +40% CC 960 minute summer. 1200 minute analysis at 15 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
960 minute summer	S14	480	114.256	0.056	17.3	0.1086	0.0000	OK
960 minute summer	BC15	840	113.706	0.928	17.2	0.0000	0.0000	OK
960 minute summer	BC16	840	113.706	1.158	13.4	0.0000	0.0000	SURCHARGED
960 minute summer	S31	495	113.957	0.019	1.6	0.0259	0.0000	OK
960 minute summer	BC32	840	113.705	0.855	3.3	0.0000	0.0000	OK
960 minute summer	BC33	840	113.705	1.125	4.8	0.1497	0.0000	SURCHARGED
960 minute summer	S17	840	113.705	1.175	15.1	4.7095	0.0000	SURCHARGED
960 minute summer	S18	450	112.584	0.080	11.0	0.0904	0.0000	OK
960 minute summer	OUTFALL	450	112.505	0.077	11.0	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
960 minute summer	S14	1.012	BC15	17.2	2.323	0.124	0.0471	
960 minute summer	BC15	1.013	BC16	13.4	0.064	0.001	143.9376	
960 minute summer	BC16	1.014	S17	9.5	0.256	0.122	0.2531	
960 minute summer	S31	7.000	BC32	1.6	1.020	0.014	0.0035	
960 minute summer	BC32	7.001	BC33	-1.8	0.013	0.000	80.2234	
960 minute summer	BC33	7.002	S17	-4.0	-0.140	-0.046	0.5881	
960 minute summer	S17	Hydro-Brake®	S18	11.0				
960 minute summer	S18	1.016	OUTFALL	11.0	0.889	0.259	0.1421	628.4

Results for 100 year +40% CC 960 minute winter. 1200 minute analysis at 15 minute timestep. Mass balance: 99.37%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
960 minute winter	S01	480	127.533	0.026	2.1	0.0410	0.0000	OK
960 minute winter	S02	495	126.032	0.034	4.6	0.0782	0.0000	OK
960 minute winter	S03	750	125.034	0.889	8.8	0.6300	0.0000	OK
960 minute winter	S04	750	125.034	1.003	6.6	0.0000	0.0000	SURCHARGED
960 minute winter	S05	750	125.034	1.009	10.1	3.8021	0.0000	SURCHARGED
960 minute winter	S19	795	124.975	0.800	1.7	1.6337	0.0000	SURCHARGED
960 minute winter	S06	795	124.975	1.061	12.7	2.3110	0.0000	SURCHARGED
960 minute winter	HW07	795	124.975	1.262	12.5	0.0000	0.0000	OK
960 minute winter	S20	750	125.040	1.117	3.8	5.6200	0.0000	OK
960 minute winter	S24	750	125.040	1.158	4.6	3.0544	0.0000	OK
960 minute winter	S21	750	125.040	1.205	6.7	7.0534	0.0000	OK
960 minute winter	S22	750	125.040	1.241	4.2	5.6156	0.0000	SURCHARGED
960 minute winter	HW23	795	124.975	1.262	3.9	0.0000	0.0000	OK
960 minute winter	HW08	795	124.974	1.428	11.6	0.6496	0.0000	SURCHARGED
960 minute winter	S09	795	124.963	1.482	5.5	2.1208	0.0000	FLOOD RISK
960 minute winter	S25	795	124.001	1.101	3.0	3.6318	0.0000	OK
960 minute winter	S26	795	124.001	1.279	2.0	3.2542	0.0000	SURCHARGED
960 minute winter	S10	795	122.736	0.039	5.9	0.0439	0.0000	OK
960 minute winter	S11	780	121.072	0.072	5.9	0.0624	0.0000	OK
960 minute winter	S12	420	120.911	0.038	7.4	0.0666	0.0000	OK
960 minute winter	S13	510	117.486	0.042	9.8	0.0634	0.0000	OK
960 minute winter	S27	495	117.448	0.023	2.9	0.0363	0.0000	OK
960 minute winter	BC28	645	115.019	0.444	5.7	0.1073	0.0000	OK
960 minute winter	BC29	630	115.020	0.779	7.5	0.0000	0.0000	SURCHARGED
960 minute winter	S30	630	115.020	0.790	4.8	1.6715	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
960 minute winter	S01	1.000	S02	2.1	0.840	0.065	0.1168	
960 minute winter	S02	1.001	S03	4.6	1.529	0.112	0.0398	
960 minute winter	S03	1.002	S04	6.6	0.053	0.001	58.3887	
960 minute winter	S04	1.003	S05	4.8	0.227	0.075	0.1171	
960 minute winter	S05	Hydro-Brake®	S06	9.9				
960 minute winter	S19	2.000	S06	1.6	0.480	0.109	0.2539	
960 minute winter	S06	1.005	HW07	12.5	0.648	0.197	0.6451	
960 minute winter	HW07	Flow through pond	HW08	9.8	0.064	0.000	221.9469	
960 minute winter	S20	3.000	S21	2.5	0.185	0.000	25.6001	
960 minute winter	S24	4.000	S21	3.5	0.198	0.001	28.0481	
960 minute winter	S21	3.001	S22	4.2	0.138	0.001	11.1312	
960 minute winter	S22	Hydro-Brake®	HW23	3.9				
960 minute winter	HW23	Flow through pond	HW08	9.8	0.064	0.000	221.9469	
960 minute winter	HW08	1.006	S09	5.5	0.391	0.377	0.1705	
960 minute winter	S09	Hydro-Brake®	S10	5.4				
960 minute winter	S25	5.000	S26	2.0	0.096	0.001	39.3412	
960 minute winter	S26	Hydro-Brake®	S10	0.5				
960 minute winter	S10	1.008	S11	5.9	0.996	0.146	0.2008	
960 minute winter	S11	1.009	S12	5.9	1.046	0.408	0.1105	
960 minute winter	S12	1.010	S13	7.4	2.011	0.141	0.1500	
960 minute winter	S13	1.011	S14	9.8	2.090	0.171	0.1503	
960 minute winter	S27	6.000	BC28	2.9	1.719	0.050	0.0284	
960 minute winter	BC28	6.001	BC29	7.5	0.042	0.001	30.8245	
960 minute winter	BC29	6.002	S30	4.0	0.154	0.110	0.0793	
960 minute winter	S30	Hydro-Brake®	S14	4.5				

Results for 100 year +40% CC 960 minute winter. 1200 minute analysis at 15 minute timestep. Mass balance: 99.37%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
960 minute winter	S14	495	114.252	0.052	15.2	0.1016	0.0000	OK
960 minute winter	BC15	870	113.914	1.136	15.2	0.0000	0.0000	OK
960 minute winter	BC16	870	113.914	1.366	12.4	0.0000	0.0000	SURCHARGED
960 minute winter	S31	480	113.955	0.017	1.2	0.0226	0.0000	OK
960 minute winter	BC32	870	113.914	1.064	2.4	0.0000	0.0000	OK
960 minute winter	BC33	870	113.914	1.334	3.5	0.1774	0.0000	SURCHARGED
960 minute winter	S17	870	113.914	1.384	13.7	5.5443	0.0000	SURCHARGED
960 minute winter	S18	405	112.584	0.080	11.0	0.0904	0.0000	OK
960 minute winter	OUTFALL	405	112.504	0.077	11.0	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
960 minute winter	S14	1.012	BC15	15.2	2.244	0.109	0.1113	
960 minute winter	BC15	1.013	BC16	12.4	0.065	0.001	161.2691	
960 minute winter	BC16	1.014	S17	10.5	0.236	0.134	0.2531	
960 minute winter	S31	7.000	BC32	1.2	0.935	0.010	0.0168	
960 minute winter	BC32	7.001	BC33	-1.2	0.016	0.000	91.7063	
960 minute winter	BC33	7.002	S17	-3.0	-0.130	-0.035	0.5881	
960 minute winter	S17	Hydro-Brake®	S18	11.0				
960 minute winter	S18	1.016	OUTFALL	11.0	0.889	0.259	0.1421	663.9