Results for 30 year 480 minute summer. 720 minute analysis at 8 minute timestep. Mass balance: 99.94%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
480 minute summer	1	8	218.710	0.000	0.0	0.0000	0.0000	OK
480 minute summer	2	248	218.528	0.028	1.5	0.0310	0.0000	OK
480 minute summer	3	256	218.412	0.269	3.0	0.5735	0.0000	SURCHARGED
480 minute summer	4	280	218.088	0.539	6.6	3.1849	0.0000	SURCHARGED
480 minute summer	5	280	218.086	0.697	6.5	3.5470	0.0000	SURCHARGED
480 minute summer	6	312	217.879	0.661	7.5	4.7257	0.0000	FLOOD RISK
480 minute summer	7	320	217.877	0.787	7.6	3.4951	0.0000	SURCHARGED
480 minute summer	13	248	218.695	0.031	1.4	0.0212	0.0000	OK
480 minute summer	14	296	218.685	0.172	2.0	0.2962	0.0000	SURCHARGED
480 minute summer	20	296	218.684	0.209	0.3	0.0625	0.0000	SURCHARGED
480 minute summer	21	296	218.684	0.293	0.6	0.4585	0.0000	SURCHARGED
480 minute summer	15	296	218.684	0.382	2.3	1.6805	0.0000	SURCHARGED
480 minute summer	16	296	218.683	0.647	2.8	2.8391	0.0000	SURCHARGED
480 minute summer	17	296	218.681	0.860	2.4	4.1458	0.0000	SURCHARGED
480 minute summer	18	320	217.877	0.388	4.5	1.9572	0.0000	SURCHARGED
480 minute summer	19	320	217.876	0.571	4.9	2.1111	0.0000	SURCHARGED
480 minute summer	8	320	217.875	1.028	11.2	14.2329	0.0000	FLOOD RISK
480 minute summer	9	328	217.428	0.673	9.1	1.4198	0.0000	SURCHARGED
480 minute summer	22	8	218.616	0.000	0.0	0.0000	0.0000	OK
480 minute summer	23	256	218.188	0.220	1.3	0.3107	0.0000	SURCHARGED
480 minute summer	24	248	217.347	0.034	2.9	0.0336	0.0000	OK
480 minute summer	25	304	217.185	0.939	5.3	3.5870	0.0000	SURCHARGED
480 minute summer	28	320	215.636	0.035	1.7	0.0396	0.0000	OK
480 minute summer	26	320	217.164	1.086	4.8	10.6489	0.0000	SURCHARGED
480 minute summer	27	320	217.164	0.670	1.3	2.8004	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	1	1.000	2	0.0	0.000	0.000	0.0362	
480 minute summer	2	1.001	3	1.5	0.157	0.078	0.3005	
480 minute summer	3	Orifice	4	2.8				
480 minute summer	4	1.003	5	5.3	0.243	0.155	1.4353	
480 minute summer	5	Orifice	6	4.9				
480 minute summer	6	1.005	7	6.1	0.605	0.177	1.1469	
480 minute summer	7	1.006	8	6.7	0.260	0.132	1.0030	
480 minute summer	13	2.000	14	1.4	0.459	0.097	0.2195	
480 minute summer	14	2.001	15	2.0	0.484	0.138	0.5573	
480 minute summer	20	3.000	21	-0.2	0.153	-0.014	0.2211	
480 minute summer	21	3.001	15	0.4	0.175	0.028	0.2363	
480 minute summer	15	2.002	16	2.1	0.410	0.145	0.7028	
480 minute summer	16	2.003	17	1.5	0.152	0.107	0.5717	
480 minute summer	17	Orifice	18	1.8				
480 minute summer	18	2.005	19	3.9	0.620	0.091	1.0970	
480 minute summer	19	2.006	8	3.7	0.246	0.072	1.8341	
480 minute summer	8	Orifice	9	8.3				
480 minute summer	9	1.008	10	8.7	0.393	0.206	0.5293	
480 minute summer	22	4.000	23	0.0	0.000	0.000	0.2803	
480 minute summer	23	Orifice	24	1.1				
480 minute summer	24	4.002	25	2.9	0.724	0.115	0.5009	
480 minute summer	25	Orifice	26	3.7				
480 minute summer	28	4.005	OUTFALL2	1.7	0.460	0.049	0.0241	51.0
480 minute summer	26	Hydro-Brake®	28	1.7				
480 minute summer	27	5.001	26	-1.1	-0.069	-0.082	1.0194	

Results for 30 year 480 minute summer. 720 minute analysis at 8 minute timestep. Mass balance: 99.94%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
480 minute summer	10	328	217.425	0.759	9.1	3.1483	0.0000	FLOOD RISK
480 minute summer	11	456	216.702	0.091	8.5	0.0257	0.0000	OK
480 minute summer	OUTFALL1	456	216.662	0.082	8.5	0.0000	0.0000	OK
480 minute summer	12	320	217.164	0.601	0.3	0.1701	0.0000	SURCHARGED
480 minute summer	OUTFALL2	320	215.604	0.033	1.7	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
480 minute summer	10	Hydro-Brake®	11	8.5				
480 minute summer	11	1.010	OUTFALL1	8.5	0.809	0.583	0.0480	173.8
480 minute summer	12	5.000	27	-0.3	-0.044	-0.026	0.2066	

Results for 30 year 480 minute winter. 720 minute analysis at 8 minute timestep. Mass balance: 99.93%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
480 minute winter	1	8	218.710	0.000	0.0	0.0000	0.0000	OK
480 minute winter	2	240	218.524	0.024	1.1	0.0260	0.0000	OK
480 minute winter	3	264	218.321	0.178	2.2	0.2853	0.0000	SURCHARGED
480 minute winter	4	296	218.056	0.507	5.1	2.8080	0.0000	SURCHARGED
480 minute winter	5	296	218.054	0.665	5.2	3.3400	0.0000	SURCHARGED
480 minute winter	6	336	217.888	0.670	6.3	5.8539	0.0000	FLOOD RISK
480 minute winter	7	344	217.886	0.796	6.6	3.5394	0.0000	SURCHARGED
480 minute winter	13	320	218.715	0.051	1.1	0.0347	0.0000	OK
480 minute winter	14	320	218.715	0.202	1.5	0.3895	0.0000	SURCHARGED
480 minute winter	20	320	218.715	0.240	0.2	0.0717	0.0000	SURCHARGED
480 minute winter	21	320	218.715	0.324	0.4	0.5205	0.0000	SURCHARGED
480 minute winter	15	320	218.715	0.413	1.9	1.8743	0.0000	SURCHARGED
480 minute winter	16	320	218.713	0.677	2.2	3.0161	0.0000	SURCHARGED
480 minute winter	17	320	218.711	0.891	2.2	4.3174	0.0000	SURCHARGED
480 minute winter	18	336	217.886	0.397	3.8	2.0258	0.0000	SURCHARGED
480 minute winter	19	336	217.885	0.580	4.2	2.1548	0.0000	SURCHARGED
480 minute winter	8	344	217.884	1.037	10.8	15.0732	0.0000	FLOOD RISK
480 minute winter	9	328	217.442	0.687	8.8	1.4575	0.0000	SURCHARGED
480 minute winter	22	8	218.616	0.000	0.0	0.0000	0.0000	OK
480 minute winter	23	256	218.131	0.163	1.0	0.2009	0.0000	SURCHARGED
480 minute winter	24	256	217.343	0.030	2.3	0.0293	0.0000	OK
480 minute winter	25	328	217.279	1.033	4.1	4.3175	0.0000	SURCHARGED
480 minute winter	28	344	215.637	0.036	1.8	0.0404	0.0000	OK
480 minute winter	26	344	217.257	1.179	3.8	11.8019	0.0000	SURCHARGED
480 minute winter	27	344	217.257	0.763	1.1	3.7900	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	1	1.000	2	0.0	0.000	0.000	0.0291	
480 minute winter	2	1.001	3	1.1	0.157	0.057	0.2937	
480 minute winter	3	Orifice	4	2.2				
480 minute winter	4	1.003	5	4.3	0.243	0.125	1.4353	
480 minute winter	5	Orifice	6	4.5				
480 minute winter	6	1.005	7	5.6	0.586	0.164	1.1469	
480 minute winter	7	1.006	8	6.4	0.267	0.125	1.0030	
480 minute winter	13	2.000	14	1.1	0.435	0.076	0.2593	
480 minute winter	14	2.001	15	1.5	0.453	0.103	0.5573	
480 minute winter	20	3.000	21	0.1	0.153	0.007	0.2211	
480 minute winter	21	3.001	15	0.4	0.174	0.027	0.2363	
480 minute winter	15	2.002	16	1.7	0.399	0.119	0.7028	
480 minute winter	16	2.003	17	1.4	0.140	0.099	0.5717	
480 minute winter	17	Orifice	18	1.8				
480 minute winter	18	2.005	19	3.4	0.615	0.081	1.0970	
480 minute winter	19	2.006	8	3.7	0.249	0.072	1.8341	
480 minute winter	8	Orifice	9	8.2				
480 minute winter	9	1.008	10	8.6	0.395	0.203	0.5293	
480 minute winter	22	4.000	23	0.0	0.000	0.000	0.2803	
480 minute winter	23	Orifice	24	1.0				
480 minute winter	24	4.002	25	2.3	0.724	0.089	0.4889	
480 minute winter	25	Orifice	26	3.0				
480 minute winter	28	4.005	OUTFALL2	1.8	0.465	0.050	0.0248	58.0
480 minute winter	26	Hydro-Brake®	28	1.8				
480 minute winter	27	5.001	26	-1.0	-0.054	-0.070	1.0194	

Results for 30 year 480 minute winter. 720 minute analysis at 8 minute timestep. Mass balance: 99.93%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
480 minute winter	10	328	217.438	0.772	8.9	3.3075	0.0000	FLOOD RISK
480 minute winter	11	232	216.702	0.091	8.5	0.0257	0.0000	OK
480 minute winter	OUTFALL1	232	216.662	0.082	8.5	0.0000	0.0000	OK
480 minute winter	12	344	217.257	0.694	0.2	0.1964	0.0000	SURCHARGED
480 minute winter	OUTFALL2	344	215.605	0.034	1.8	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
480 minute winter	10	Hydro-Brake®	11	8.5				
480 minute winter	11	1.010	OUTFALL1	8.5	0.809	0.583	0.0480	197.0
480 minute winter	12	5.000	27	-0.2	-0.026	-0.016	0.2066	

Results for 30 year 600 minute summer. 840 minute analysis at 15 minute timestep. Mass balance: 99.93%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
600 minute summer	1	15	218.710	0.000	0.0	0.0000	0.0000	OK
600 minute summer	2	315	218.526	0.026	1.3	0.0286	0.0000	OK
600 minute summer	3	315	218.369	0.226	2.6	0.4255	0.0000	SURCHARGED
600 minute summer	4	345	218.012	0.463	5.7	2.3324	0.0000	SURCHARGED
600 minute summer	5	345	218.010	0.621	5.8	3.0622	0.0000	SURCHARGED
600 minute summer	6	375	217.858	0.640	6.7	3.7212	0.0000	SURCHARGED
600 minute summer	7	375	217.856	0.766	6.7	3.3833	0.0000	SURCHARGED
600 minute summer	13	315	218.693	0.029	1.2	0.0197	0.0000	OK
600 minute summer	14	375	218.664	0.151	1.7	0.2307	0.0000	SURCHARGED
600 minute summer	20	375	218.664	0.189	0.2	0.0564	0.0000	SURCHARGED
600 minute summer	21	375	218.664	0.273	0.4	0.4168	0.0000	SURCHARGED
600 minute summer	15	375	218.664	0.362	2.1	1.5486	0.0000	SURCHARGED
600 minute summer	16	375	218.662	0.626	2.5	2.7195	0.0000	SURCHARGED
600 minute summer	17	375	218.660	0.840	2.3	4.0296	0.0000	SURCHARGED
600 minute summer	18	375	217.856	0.367	4.0	1.7875	0.0000	SURCHARGED
600 minute summer	19	375	217.855	0.550	4.7	2.0037	0.0000	SURCHARGED
600 minute summer	8	390	217.853	1.006	10.1	12.1795	0.0000	FLOOD RISK
600 minute summer	9	390	217.412	0.657	8.8	1.3753	0.0000	SURCHARGED
600 minute summer	22	15	218.616	0.000	0.0	0.0000	0.0000	OK
600 minute summer	23	315	218.149	0.181	1.1	0.2335	0.0000	SURCHARGED
600 minute summer	24	315	217.345	0.032	2.5	0.0311	0.0000	OK
600 minute summer	25	375	217.177	0.931	4.5	3.5285	0.0000	SURCHARGED
600 minute summer	28	390	215.636	0.035	1.7	0.0395	0.0000	OK
600 minute summer	26	390	217.156	1.078	4.2	10.5527	0.0000	SURCHARGED
600 minute summer	27	390	217.157	0.663	0.8	2.7186	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	1	1.000	2	0.0	0.000	0.000	0.0327	
600 minute summer	2	1.001	3	1.3	0.155	0.067	0.2972	
600 minute summer	3	Orifice	4	2.5				
600 minute summer	4	1.003	5	4.8	0.242	0.140	1.4353	
600 minute summer	5	Orifice	6	4.6				
600 minute summer	6	1.005	7	5.5	0.582	0.159	1.1469	
600 minute summer	7	1.006	8	6.1	0.211	0.119	1.0030	
600 minute summer	13	2.000	14	1.2	0.440	0.083	0.2156	
600 minute summer	14	2.001	15	1.7	0.459	0.118	0.5572	
600 minute summer	20	3.000	21	0.1	0.147	0.007	0.2211	
600 minute summer	21	3.001	15	0.4	0.183	0.027	0.2363	
600 minute summer	15	2.002	16	1.9	0.407	0.131	0.7028	
600 minute summer	16	2.003	17	1.5	0.124	0.104	0.5717	
600 minute summer	17	Orifice	18	1.8				
600 minute summer	18	2.005	19	3.8	0.600	0.090	1.0970	
600 minute summer	19	2.006	8	3.5	0.177	0.067	1.8341	
600 minute summer	8	Orifice	9	8.2				
600 minute summer	9	1.008	10	8.5	0.391	0.201	0.5293	
600 minute summer	22	4.000	23	0.0	0.000	0.000	0.2803	
600 minute summer	23	Orifice	24	1.0				
600 minute summer	24	4.002	25	2.5	0.690	0.100	0.4938	
600 minute summer	25	Orifice	26	3.2				
600 minute summer	28	4.005	OUTFALL2	1.7	0.460	0.048	0.0240	55.3
600 minute summer	26	Hydro-Brake®	28	1.7				
600 minute summer	27	5.001	26	-0.7	0.051	-0.054	1.0194	

Results for 30 year 600 minute summer. 840 minute analysis at 15 minute timestep. Mass balance: 99.93%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
600 minute summer	10	390	217.408	0.742	8.9	2.9544	0.0000	FLOOD RISK
600 minute summer	11	510	216.702	0.091	8.5	0.0257	0.0000	OK
600 minute summer	OUTFALL1	510	216.662	0.082	8.5	0.0000	0.0000	OK
600 minute summer	12	390	217.157	0.594	0.3	0.1680	0.0000	SURCHARGED
600 minute summer	OUTFALL2	390	215.604	0.033	1.7	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
600 minute summer	10	Hydro-Brake®	11	8.5				
600 minute summer	11	1.010	OUTFALL1	8.5	0.809	0.583	0.0480	185.9
600 minute summer	12	5.000	27	-0.3	-0.020	-0.025	0.2066	

Results for 30 year 600 minute winter. 840 minute analysis at 15 minute timestep. Mass balance: 99.88%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
600 minute winter	1	15	218.710	0.000	0.0	0.0000	0.0000	OK
600 minute winter	2	315	218.523	0.023	1.0	0.0246	0.0000	OK
600 minute winter	3	315	218.293	0.150	2.0	0.2169	0.0000	OK
600 minute winter	4	375	217.970	0.421	4.4	1.9202	0.0000	SURCHARGED
600 minute winter	5	375	217.969	0.580	4.7	2.8001	0.0000	SURCHARGED
600 minute winter	6	405	217.853	0.635	5.7	3.6849	0.0000	SURCHARGED
600 minute winter	7	405	217.851	0.761	6.1	3.3592	0.0000	SURCHARGED
600 minute winter	13	300	218.689	0.025	0.9	0.0171	0.0000	OK
600 minute winter	14	390	218.651	0.138	1.3	0.1953	0.0000	OK
600 minute winter	20	390	218.651	0.176	0.1	0.0526	0.0000	SURCHARGED
600 minute winter	21	390	218.651	0.260	0.3	0.3907	0.0000	SURCHARGED
600 minute winter	15	390	218.651	0.349	1.8	1.4700	0.0000	SURCHARGED
600 minute winter	16	390	218.649	0.613	2.0	2.6449	0.0000	SURCHARGED
600 minute winter	17	390	218.647	0.827	2.0	3.9577	0.0000	SURCHARGED
600 minute winter	18	405	217.851	0.362	3.5	1.7529	0.0000	SURCHARGED
600 minute winter	19	405	217.851	0.546	3.9	1.9819	0.0000	SURCHARGED
600 minute winter	8	405	217.849	1.002	9.3	11.7624	0.0000	FLOOD RISK
600 minute winter	9	405	217.415	0.660	8.6	1.3839	0.0000	SURCHARGED
600 minute winter	22	15	218.616	0.000	0.0	0.0000	0.0000	OK
600 minute winter	23	330	218.083	0.115	0.8	0.1251	0.0000	OK
600 minute winter	24	330	217.341	0.028	1.9	0.0267	0.0000	OK
600 minute winter	25	405	217.228	0.982	3.4	3.9116	0.0000	SURCHARGED
600 minute winter	28	420	215.636	0.035	1.8	0.0400	0.0000	OK
600 minute winter	26	420	217.208	1.130	3.3	11.1982	0.0000	SURCHARGED
600 minute winter	27	420	217.209	0.714	0.8	3.2716	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	1	1.000	2	0.0	0.000	0.000	0.0272	
600 minute winter	2	1.001	3	1.0	0.155	0.052	0.2917	
600 minute winter	3	Orifice	4	2.0				
600 minute winter	4	1.003	5	3.9	0.241	0.114	1.4353	
600 minute winter	5	Orifice	6	4.1				
600 minute winter	6	1.005	7	5.2	0.584	0.150	1.1469	
600 minute winter	7	1.006	8	5.6	0.231	0.110	1.0030	
600 minute winter	13	2.000	14	0.9	0.402	0.062	0.2072	
600 minute winter	14	2.001	15	1.3	0.422	0.090	0.5475	
600 minute winter	20	3.000	21	0.1	0.153	0.007	0.2211	
600 minute winter	21	3.001	15	0.3	0.170	0.021	0.2363	
600 minute winter	15	2.002	16	1.5	0.404	0.101	0.7028	
600 minute winter	16	2.003	17	1.4	0.128	0.097	0.5717	
600 minute winter	17	Orifice	18	1.8				
600 minute winter	18	2.005	19	3.2	0.602	0.076	1.0970	
600 minute winter	19	2.006	8	3.4	0.226	0.066	1.8341	
600 minute winter	8	Orifice	9	8.1				
600 minute winter	9	1.008	10	8.5	0.390	0.200	0.5293	
600 minute winter	22	4.000	23	0.0	0.000	0.000	0.2301	
600 minute winter	23	Orifice	24	0.8				
600 minute winter	24	4.002	25	1.9	0.670	0.075	0.4815	
600 minute winter	25	Orifice	26	2.6				
600 minute winter	28	4.005	OUTFALL2	1.8	0.463	0.049	0.0244	61.5
600 minute winter	26	Hydro-Brake®	28	1.8				
600 minute winter	27	5.001	26	-0.7	-0.039	-0.051	1.0194	

Results for 30 year 600 minute winter. 840 minute analysis at 15 minute timestep. Mass balance: 99.88%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
600 minute winter	10	405	217.411	0.745	8.8	2.9903	0.0000	FLOOD RISK
600 minute winter	11	300	216.702	0.091	8.5	0.0257	0.0000	OK
600 minute winter	OUTFALL1	300	216.662	0.082	8.5	0.0000	0.0000	OK
600 minute winter	12	420	217.209	0.645	0.2	0.1827	0.0000	SURCHARGED
600 minute winter	OUTFALL2	420	215.604	0.033	1.8	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
600 minute winter	10	Hydro-Brake®	11	8.5				
600 minute winter	11	1.010	OUTFALL1	8.5	0.809	0.583	0.0480	210.8
600 minute winter	12	5.000	27	-0.2	0.016	-0.015	0.2066	

Results for 30 year 720 minute summer. 960 minute analysis at 15 minute timestep. Mass balance: 99.78%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
720 minute summer	1	15	218.710	0.000	0.0	0.0000	0.0000	OK
720 minute summer	2	375	218.525	0.025	1.2	0.0273	0.0000	OK
720 minute summer	3	375	218.343	0.200	2.4	0.3480	0.0000	SURCHARGED
720 minute summer	4	420	217.960	0.411	5.3	1.8238	0.0000	SURCHARGED
720 minute summer	5	420	217.958	0.569	5.3	2.7322	0.0000	SURCHARGED
720 minute summer	6	450	217.834	0.616	6.4	3.5432	0.0000	SURCHARGED
720 minute summer	7	450	217.832	0.742	6.7	3.2597	0.0000	SURCHARGED
720 minute summer	13	375	218.692	0.028	1.1	0.0188	0.0000	OK
720 minute summer	14	435	218.627	0.114	1.6	0.1404	0.0000	OK
720 minute summer	20	435	218.627	0.152	0.1	0.0454	0.0000	SURCHARGED
720 minute summer	21	435	218.627	0.236	0.4	0.3420	0.0000	SURCHARGED
720 minute summer	15	435	218.627	0.325	2.1	1.3299	0.0000	SURCHARGED
720 minute summer	16	435	218.626	0.589	2.2	2.5059	0.0000	SURCHARGED
720 minute summer	17	435	218.623	0.803	2.1	3.8227	0.0000	SURCHARGED
720 minute summer	18	450	217.833	0.344	3.7	1.5977	0.0000	SURCHARGED
720 minute summer	19	450	217.832	0.527	4.4	1.8892	0.0000	SURCHARGED
720 minute summer	8	450	217.830	0.983	9.9	10.1267	0.0000	FLOOD RISK
720 minute summer	9	465	217.399	0.644	8.8	1.3426	0.0000	SURCHARGED
720 minute summer	22	15	218.616	0.000	0.0	0.0000	0.0000	OK
720 minute summer	23	375	218.122	0.154	1.0	0.1849	0.0000	SURCHARGED
720 minute summer	24	375	217.343	0.030	2.2	0.0291	0.0000	OK
720 minute summer	25	450	217.140	0.894	4.0	3.2627	0.0000	SURCHARGED
720 minute summer	28	465	215.636	0.035	1.7	0.0393	0.0000	OK
720 minute summer	26	465	217.122	1.044	3.9	10.1236	0.0000	SURCHARGED
720 minute summer	27	465	217.122	0.628	0.7	2.3492	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	1	1.000	2	0.0	0.000	0.000	0.0309	
720 minute summer	2	1.001	3	1.2	0.155	0.062	0.2955	
720 minute summer	3	Orifice	4	2.4				
720 minute summer	4	1.003	5	4.4	0.243	0.127	1.4353	
720 minute summer	5	Orifice	6	4.5				
720 minute summer	6	1.005	7	5.6	0.596	0.161	1.1469	
720 minute summer	7	1.006	8	6.0	0.211	0.117	1.0030	
720 minute summer	13	2.000	14	1.1	0.425	0.076	0.1777	
720 minute summer	14	2.001	15	1.6	0.454	0.111	0.5068	
720 minute summer	20	3.000	21	0.1	0.153	0.007	0.2211	
720 minute summer	21	3.001	15	0.3	0.170	0.021	0.2363	
720 minute summer	15	2.002	16	1.7	0.404	0.121	0.7028	
720 minute summer	16	2.003	17	1.4	0.124	0.098	0.5717	
720 minute summer	17	Orifice	18	1.8				
720 minute summer	18	2.005	19	3.6	0.595	0.085	1.0970	
720 minute summer	19	2.006	8	3.2	0.178	0.062	1.8341	
720 minute summer	8	Orifice	9	8.2				
720 minute summer	9	1.008	10	8.6	0.390	0.202	0.5293	
720 minute summer	22	4.000	23	0.0	0.000	0.000	0.2803	
720 minute summer	23	Orifice	24	0.9				
720 minute summer	24	4.002	25	2.2	0.709	0.088	0.4883	
720 minute summer	25	Orifice	26	3.0				
720 minute summer	28	4.005	OUTFALL2	1.7	0.458	0.048	0.0238	58.5
720 minute summer	26	Hydro-Brake®	28	1.7				
720 minute summer	27	5.001	26	-0.6	-0.046	-0.048	1.0194	

Results for 30 year 720 minute summer. 960 minute analysis at 15 minute timestep. Mass balance: 99.78%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
720 minute summer	10	465	217.396	0.730	8.9	2.8074	0.0000	FLOOD RISK
720 minute summer	11	570	216.702	0.091	8.5	0.0257	0.0000	OK
720 minute summer	OUTFALL1	570	216.662	0.082	8.5	0.0000	0.0000	OK
720 minute summer	12	465	217.122	0.559	0.3	0.1582	0.0000	SURCHARGED
720 minute summer	OUTFALL2	465	215.604	0.033	1.7	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
720 minute summer	10	Hydro-Brake®	11	8.5				
720 minute summer	11	1.010	OUTFALL1	8.5	0.809	0.582	0.0480	198.7
720 minute summer	12	5.000	27	-0.3	-0.016	-0.019	0.2066	

Results for 30 year 720 minute winter. 960 minute analysis at 15 minute timestep. Mass balance: 99.84%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
720 minute winter	1	15	218.710	0.000	0.0	0.0000	0.0000	OK
720 minute winter	2	375	218.522	0.022	0.9	0.0232	0.0000	OK
720 minute winter	3	375	218.270	0.126	1.8	0.1691	0.0000	OK
720 minute winter	4	465	217.874	0.325	4.0	1.1361	0.0000	SURCHARGED
720 minute winter	5	465	217.873	0.484	4.3	2.1909	0.0000	SURCHARGED
720 minute winter	6	480	217.791	0.573	5.5	3.2310	0.0000	SURCHARGED
720 minute winter	7	480	217.790	0.700	5.8	3.0369	0.0000	SURCHARGED
720 minute winter	13	360	218.688	0.024	0.8	0.0161	0.0000	OK
720 minute winter	14	450	218.593	0.079	1.1	0.0783	0.0000	OK
720 minute winter	20	450	218.592	0.117	0.1	0.0350	0.0000	OK
720 minute winter	21	450	218.592	0.201	0.3	0.2765	0.0000	SURCHARGED
720 minute winter	15	450	218.592	0.290	1.5	1.1280	0.0000	SURCHARGED
720 minute winter	16	450	218.591	0.555	1.8	2.3025	0.0000	SURCHARGED
720 minute winter	17	450	218.589	0.769	1.9	3.6257	0.0000	SURCHARGED
720 minute winter	18	480	217.791	0.301	3.2	1.2472	0.0000	SURCHARGED
720 minute winter	19	480	217.790	0.485	3.7	1.6793	0.0000	SURCHARGED
720 minute winter	8	480	217.788	0.941	9.0	8.1264	0.0000	SURCHARGED
720 minute winter	9	495	217.370	0.615	8.6	1.2625	0.0000	SURCHARGED
720 minute winter	22	15	218.616	0.000	0.0	0.0000	0.0000	OK
720 minute winter	23	405	218.060	0.092	0.7	0.0960	0.0000	OK
720 minute winter	24	390	217.339	0.026	1.7	0.0252	0.0000	OK
720 minute winter	25	495	217.175	0.929	3.1	3.5172	0.0000	SURCHARGED
720 minute winter	28	495	215.636	0.035	1.7	0.0396	0.0000	OK
720 minute winter	26	495	217.159	1.081	3.0	10.5862	0.0000	SURCHARGED
720 minute winter	27	495	217.159	0.665	0.6	2.7457	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	1	1.000	2	0.0	0.000	0.000	0.0252	
720 minute winter	2	1.001	3	0.9	0.155	0.047	0.2635	
720 minute winter	3	Orifice	4	1.8				
720 minute winter	4	1.003	5	3.6	0.239	0.104	1.4353	
720 minute winter	5	Orifice	6	4.1				
720 minute winter	6	1.005	7	5.0	0.567	0.146	1.1469	
720 minute winter	7	1.006	8	5.5	0.210	0.107	1.0030	
720 minute winter	13	2.000	14	0.8	0.395	0.055	0.1218	
720 minute winter	14	2.001	15	1.1	0.420	0.076	0.4286	
720 minute winter	20	3.000	21	0.1	0.153	0.007	0.2031	
720 minute winter	21	3.001	15	0.3	0.170	0.021	0.2363	
720 minute winter	15	2.002	16	1.4	0.386	0.094	0.7028	
720 minute winter	16	2.003	17	1.4	0.123	0.095	0.5717	
720 minute winter	17	Orifice	18	1.7				
720 minute winter	18	2.005	19	3.1	0.597	0.074	1.0970	
720 minute winter	19	2.006	8	3.1	0.164	0.060	1.8341	
720 minute winter	8	Orifice	9	8.2				
720 minute winter	9	1.008	10	8.5	0.390	0.201	0.5293	
720 minute winter	22	4.000	23	0.0	0.000	0.000	0.1812	
720 minute winter	23	Orifice	24	0.7				
720 minute winter	24	4.002	25	1.7	0.698	0.067	0.4775	
720 minute winter	25	Orifice	26	2.4				
720 minute winter	28	4.005	OUTFALL2	1.7	0.460	0.048	0.0241	64.8
720 minute winter	26	Hydro-Brake®	28	1.7				
720 minute winter	27	5.001	26	-0.5	0.041	-0.039	1.0194	

Results for 30 year 720 minute winter. 960 minute analysis at 15 minute timestep. Mass balance: 99.84%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
720 minute winter	10	495	217.367	0.700	8.7	2.4646	0.0000	FLOOD RISK
720 minute winter	11	375	216.702	0.091	8.5	0.0257	0.0000	OK
720 minute winter	OUTFALL1	375	216.662	0.082	8.5	0.0000	0.0000	OK
720 minute winter	12	495	217.159	0.596	0.2	0.1687	0.0000	SURCHARGED
720 minute winter	OUTFALL2	495	215.604	0.033	1.7	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
720 minute winter	10	Hydro-Brake®	11	8.5				
720 minute winter	11	1.010	OUTFALL1	8.5	0.809	0.583	0.0480	223.7
720 minute winter	12	5.000	27	-0.2	0.018	-0.016	0.2066	

Results for 30 year 960 minute summer. 1200 minute analysis at 15 minute timestep. Mass balance: 99.69%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
960 minute summer	1	15	218.710	0.000	0.0	0.0000	0.0000	OK
960 minute summer	2	495	218.523	0.023	1.0	0.0246	0.0000	OK
960 minute summer	3	495	218.293	0.150	2.0	0.2166	0.0000	OK
960 minute summer	4	540	217.814	0.265	4.4	0.7533	0.0000	SURCHARGED
960 minute summer	5	540	217.812	0.423	4.7	1.8037	0.0000	SURCHARGED
960 minute summer	6	570	217.712	0.494	5.8	2.6498	0.0000	SURCHARGED
960 minute summer	7	570	217.710	0.620	6.1	2.6202	0.0000	SURCHARGED
960 minute summer	13	495	218.689	0.025	0.9	0.0171	0.0000	OK
960 minute summer	14	555	218.575	0.062	1.3	0.0539	0.0000	OK
960 minute summer	20	555	218.575	0.100	0.1	0.0298	0.0000	OK
960 minute summer	21	555	218.575	0.184	0.3	0.2453	0.0000	SURCHARGED
960 minute summer	15	555	218.575	0.273	1.8	1.0280	0.0000	SURCHARGED
960 minute summer	16	555	218.573	0.537	1.8	2.2013	0.0000	SURCHARGED
960 minute summer	17	555	218.571	0.751	2.0	3.5274	0.0000	SURCHARGED
960 minute summer	18	570	217.711	0.222	3.4	0.7089	0.0000	OK
960 minute summer	19	570	217.710	0.405	4.0	1.2834	0.0000	SURCHARGED
960 minute summer	8	570	217.708	0.861	9.4	7.1820	0.0000	SURCHARGED
960 minute summer	9	585	217.241	0.486	8.7	0.9159	0.0000	SURCHARGED
960 minute summer	22	15	218.616	0.000	0.0	0.0000	0.0000	OK
960 minute summer	23	495	218.077	0.109	0.8	0.1179	0.0000	OK
960 minute summer	24	495	217.341	0.028	1.9	0.0265	0.0000	OK
960 minute summer	25	585	217.076	0.830	3.4	2.8255	0.0000	SURCHARGED
960 minute summer	28	600	215.635	0.034	1.7	0.0387	0.0000	OK
960 minute summer	26	600	217.060	0.982	3.3	9.3496	0.0000	SURCHARGED
960 minute summer	27	600	217.060	0.566	0.6	1.6860	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	1	1.000	2	0.0	0.000	0.000	0.0272	
960 minute summer	2	1.001	3	1.0	0.155	0.052	0.2917	
960 minute summer	3	Orifice	4	2.0				
960 minute summer	4	1.003	5	3.9	0.241	0.113	1.4353	
960 minute summer	5	Orifice	6	4.2				
960 minute summer	6	1.005	7	5.2	0.584	0.151	1.1469	
960 minute summer	7	1.006	8	5.6	0.205	0.109	1.0030	
960 minute summer	13	2.000	14	0.9	0.402	0.062	0.0926	
960 minute summer	14	2.001	15	1.3	0.420	0.090	0.3876	
960 minute summer	20	3.000	21	0.1	0.153	0.007	0.1886	
960 minute summer	21	3.001	15	0.3	0.170	0.021	0.2363	
960 minute summer	15	2.002	16	1.4	0.404	0.094	0.7028	
960 minute summer	16	2.003	17	1.3	0.118	0.091	0.5717	
960 minute summer	17	Orifice	18	1.7				
960 minute summer	18	2.005	19	3.3	0.596	0.078	1.0949	
960 minute summer	19	2.006	8	3.4	0.184	0.066	1.8341	
960 minute summer	8	Orifice	9	8.2				
960 minute summer	9	1.008	10	8.5	0.390	0.201	0.5293	
960 minute summer	22	4.000	23	0.0	0.000	0.000	0.2191	
960 minute summer	23	Orifice	24	0.8				
960 minute summer	24	4.002	25	1.9	0.670	0.074	0.4811	
960 minute summer	25	Orifice	26	2.6				
960 minute summer	28	4.005	OUTFALL2	1.7	0.454	0.046	0.0233	64.2
960 minute summer	26	Hydro-Brake®	28	1.7				
960 minute summer	27	5.001	26	-0.5	-0.031	-0.040	1.0194	

Results for 30 year 960 minute summer. 1200 minute analysis at 15 minute timestep. Mass balance: 99.69%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
960 minute summer	10	585	217.237	0.571	8.8	1.6862	0.0000	SURCHARGED
960 minute summer	11	495	216.702	0.091	8.5	0.0257	0.0000	OK
960 minute summer	OUTFALL1	495	216.662	0.082	8.5	0.0000	0.0000	OK
960 minute summer	12	600	217.060	0.497	0.2	0.1405	0.0000	SURCHARGED
960 minute summer	OUTFALL2	600	215.603	0.032	1.7	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
960 minute summer	10	Hydro-Brake®	11	8.5				
960 minute summer	11	1.010	OUTFALL1	8.5	0.809	0.583	0.0480	219.8
960 minute summer	12	5.000	27	-0.2	-0.017	-0.018	0.2066	

Results for 30 year 960 minute winter. 1200 minute analysis at 15 minute timestep. Mass balance: 99.80%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
960 minute winter	1	15	218.710	0.000	0.0	0.0000	0.0000	OK
960 minute winter	2	465	218.520	0.020	0.7	0.0202	0.0000	OK
960 minute winter	3	525	218.231	0.087	1.4	0.1032	0.0000	OK
960 minute winter	4	555	217.650	0.101	3.2	0.1608	0.0000	OK
960 minute winter	5	555	217.649	0.260	3.8	0.8910	0.0000	SURCHARGED
960 minute winter	6	570	217.551	0.333	5.0	1.5170	0.0000	SURCHARGED
960 minute winter	7	570	217.549	0.459	5.3	1.7713	0.0000	SURCHARGED
960 minute winter	13	480	218.686	0.022	0.7	0.0151	0.0000	OK
960 minute winter	14	480	218.540	0.027	1.0	0.0165	0.0000	OK
960 minute winter	20	570	218.526	0.051	0.1	0.0151	0.0000	OK
960 minute winter	21	570	218.526	0.134	0.3	0.1613	0.0000	OK
960 minute winter	15	570	218.526	0.224	1.4	0.7465	0.0000	SURCHARGED
960 minute winter	16	570	218.524	0.488	1.6	1.9161	0.0000	SURCHARGED
960 minute winter	17	570	218.522	0.702	1.8	3.2514	0.0000	SURCHARGED
960 minute winter	18	570	217.549	0.060	2.9	0.1184	0.0000	OK
960 minute winter	19	570	217.548	0.243	3.4	0.6088	0.0000	SURCHARGED
960 minute winter	8	570	217.546	0.699	8.5	5.2697	0.0000	SURCHARGED
960 minute winter	9	585	217.030	0.275	8.5	0.4049	0.0000	SURCHARGED
960 minute winter	22	15	218.616	0.000	0.0	0.0000	0.0000	OK
960 minute winter	23	540	218.041	0.073	0.6	0.0722	0.0000	OK
960 minute winter	24	525	217.337	0.024	1.4	0.0228	0.0000	OK
960 minute winter	25	630	217.088	0.842	2.5	2.9081	0.0000	SURCHARGED
960 minute winter	28	630	215.635	0.034	1.7	0.0388	0.0000	OK
960 minute winter	26	630	217.073	0.995	2.6	9.5094	0.0000	SURCHARGED
960 minute winter	27	630	217.073	0.579	0.5	1.8238	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	1	1.000	2	0.0	0.000	0.000	0.0212	
960 minute winter	2	1.001	3	0.7	0.155	0.036	0.1813	
960 minute winter	3	Orifice	4	1.4				
960 minute winter	4	1.003	5	3.2	0.245	0.093	1.0286	
960 minute winter	5	Orifice	6	3.8				
960 minute winter	6	1.005	7	4.6	0.569	0.134	1.1469	
960 minute winter	7	1.006	8	5.1	0.299	0.100	1.0030	
960 minute winter	13	2.000	14	0.7	0.374	0.048	0.0424	
960 minute winter	14	2.001	15	1.0	0.413	0.069	0.3121	
960 minute winter	20	3.000	21	0.1	0.153	0.007	0.1373	
960 minute winter	21	3.001	15	0.3	0.141	0.021	0.2299	
960 minute winter	15	2.002	16	1.2	0.404	0.082	0.7028	
960 minute winter	16	2.003	17	1.3	0.121	0.089	0.5717	
960 minute winter	17	Orifice	18	1.7				
960 minute winter	18	2.005	19	2.9	0.597	0.068	0.6645	
960 minute winter	19	2.006	8	3.1	0.182	0.061	1.8341	
960 minute winter	8	Orifice	9	8.1				
960 minute winter	9	1.008	10	8.4	0.390	0.198	0.5293	
960 minute winter	22	4.000	23	0.0	0.000	0.000	0.1343	
960 minute winter	23	Orifice	24	0.6				
960 minute winter	24	4.002	25	1.4	0.677	0.055	0.4711	
960 minute winter	25	Orifice	26	2.1				
960 minute winter	28	4.005	OUTFALL2	1.7	0.455	0.047	0.0234	71.0
960 minute winter	26	Hydro-Brake®	28	1.7				
960 minute winter	27	5.001	26	-0.4	-0.028	-0.031	1.0194	

Results for 30 year 960 minute winter. 1200 minute analysis at 15 minute timestep. Mass balance: 99.80%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
960 minute winter	10	585	217.025	0.359	8.6	0.9668	0.0000	SURCHARGED
960 minute winter	11	525	216.702	0.091	8.5	0.0257	0.0000	OK
960 minute winter	OUTFALL1	525	216.662	0.082	8.5	0.0000	0.0000	OK
960 minute winter	12	630	217.073	0.510	0.2	0.1442	0.0000	SURCHARGED
960 minute winter	OUTFALL2	630	215.603	0.032	1.7	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
960 minute winter	10	Hydro-Brake®	11	8.5				
960 minute winter	11	1.010	OUTFALL1	8.5	0.809	0.583	0.0480	245.6
960 minute winter	12	5.000	27	-0.2	-0.033	-0.012	0.2066	

Results for 30 year 1440 minute summer. 1680 minute analysis at 30 minute timestep. Mass balance: 99.77%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
1440 minute summer	1	30	218.710	0.000	0.0	0.0000	0.0000	OK
1440 minute summer	2	750	218.520	0.020	0.7	0.0202	0.0000	OK
1440 minute summer	3	750	218.231	0.087	1.4	0.1032	0.0000	OK
1440 minute summer	4	780	217.600	0.051	3.3	0.0775	0.0000	OK
1440 minute summer	5	780	217.598	0.209	3.9	0.6327	0.0000	OK
1440 minute summer	6	810	217.492	0.274	4.9	1.1616	0.0000	SURCHARGED
1440 minute summer	7	810	217.490	0.400	5.3	1.4652	0.0000	SURCHARGED
1440 minute summer	13	750	218.686	0.022	0.7	0.0151	0.0000	OK
1440 minute summer	14	750	218.540	0.027	1.0	0.0165	0.0000	OK
1440 minute summer	20	810	218.495	0.020	0.1	0.0060	0.0000	OK
1440 minute summer	21	810	218.495	0.104	0.3	0.1131	0.0000	OK
1440 minute summer	15	810	218.495	0.193	1.4	0.5713	0.0000	SURCHARGED
1440 minute summer	16	810	218.494	0.458	1.5	1.7398	0.0000	SURCHARGED
1440 minute summer	17	810	218.492	0.672	1.8	3.0802	0.0000	SURCHARGED
1440 minute summer	18	750	217.529	0.040	2.9	0.0732	0.0000	OK
1440 minute summer	19	810	217.489	0.184	3.4	0.3720	0.0000	OK
1440 minute summer	8	810	217.488	0.641	8.6	4.6130	0.0000	SURCHARGED
1440 minute summer	9	810	216.966	0.211	8.4	0.3031	0.0000	OK
1440 minute summer	22	30	218.616	0.000	0.0	0.0000	0.0000	OK
1440 minute summer	23	750	218.040	0.072	0.6	0.0719	0.0000	OK
1440 minute summer	24	750	217.337	0.024	1.4	0.0228	0.0000	OK
1440 minute summer	25	870	217.001	0.755	2.6	2.3584	0.0000	SURCHARGED
1440 minute summer	28	870	215.635	0.034	1.6	0.0380	0.0000	OK
1440 minute summer	26	870	216.988	0.910	2.8	8.4579	0.0000	SURCHARGED
1440 minute summer	27	870	216.988	0.494	0.5	0.9713	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
1440 minute summer	1	1.000	2	0.0	0.000	0.000	0.0212	
1440 minute summer	2	1.001	3	0.7	0.152	0.036	0.1813	
1440 minute summer	3	Orifice	4	1.4				
1440 minute summer	4	1.003	5	3.3	0.234	0.096	0.8161	
1440 minute summer	5	Orifice	6	3.7				
1440 minute summer	6	1.005	7	4.6	0.566	0.133	1.1469	
1440 minute summer	7	1.006	8	5.1	0.220	0.100	1.0030	
1440 minute summer	13	2.000	14	0.7	0.374	0.048	0.0424	
1440 minute summer	14	2.001	15	1.0	0.395	0.069	0.3074	
1440 minute summer	20	3.000	21	0.1	0.150	0.007	0.0909	
1440 minute summer	21	3.001	15	0.3	0.141	0.020	0.2058	
1440 minute summer	15	2.002	16	1.1	0.366	0.075	0.7028	
1440 minute summer	16	2.003	17	1.2	0.124	0.086	0.5717	
1440 minute summer	17	Orifice	18	1.6				
1440 minute summer	18	2.005	19	2.9	0.596	0.069	0.5397	
1440 minute summer	19	2.006	8	3.1	0.164	0.059	1.7195	
1440 minute summer	8	Orifice	9	8.1				
1440 minute summer	9	1.008	10	8.3	0.393	0.197	0.5219	
1440 minute summer	22	4.000	23	0.0	0.000	0.000	0.1336	
1440 minute summer	23	Orifice	24	0.6				
1440 minute summer	24	4.002	25	1.4	0.672	0.055	0.4710	
1440 minute summer	25	Orifice	26	2.2				
1440 minute summer	28	4.005	OUTFALL2	1.6	0.450	0.045	0.0228	77.0
1440 minute summer	26	Hydro-Brake®	28	1.6				
1440 minute summer	27	5.001	26	-0.4	-0.028	-0.032	1.0194	

Results for 30 year 1440 minute summer. 1680 minute analysis at 30 minute timestep. Mass balance: 99.77%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
1440 minute summer	10	810	216.961	0.295	8.5	0.7534	0.0000	SURCHARGED
1440 minute summer	11	810	216.702	0.091	8.5	0.0257	0.0000	OK
1440 minute summer	OUTFALL1	810	216.662	0.082	8.5	0.0000	0.0000	OK
1440 minute summer	12	870	216.988	0.425	0.1	0.1202	0.0000	SURCHARGED
1440 minute summer	OUTFALL2	870	215.603	0.032	1.6	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
1440 minute summer	10	Hydro-Brake®	11	8.5				
1440 minute summer	11	1.010	OUTFALL1	8.5	0.809	0.583	0.0480	258.4
1440 minute summer	12	5.000	27	-0.1	-0.019	-0.008	0.2066	

Results for 30 year 1440 minute winter. 1680 minute analysis at 30 minute timestep. Mass balance: 99.78%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
1440 minute winter	1	30	218.710	0.000	0.0	0.0000	0.0000	OK
1440 minute winter	2	750	218.518	0.018	0.6	0.0185	0.0000	OK
1440 minute winter	3	750	218.214	0.071	1.2	0.0796	0.0000	OK
1440 minute winter	4	750	217.591	0.042	2.6	0.0634	0.0000	OK
1440 minute winter	5	750	217.514	0.125	3.0	0.2673	0.0000	OK
1440 minute winter	6	780	217.325	0.107	3.9	0.2714	0.0000	OK
1440 minute winter	7	780	217.324	0.234	4.3	0.6831	0.0000	SURCHARGED
1440 minute winter	13	690	218.683	0.019	0.5	0.0129	0.0000	OK
1440 minute winter	14	690	218.535	0.022	0.7	0.0131	0.0000	OK
1440 minute winter	20	30	218.475	0.000	0.0	0.0000	0.0000	OK
1440 minute winter	21	480	218.400	0.009	0.1	0.0038	0.0000	OK
1440 minute winter	15	840	218.362	0.060	0.9	0.0740	0.0000	OK
1440 minute winter	16	840	218.361	0.325	1.2	1.0305	0.0000	SURCHARGED
1440 minute winter	17	840	218.359	0.539	1.5	2.3274	0.0000	SURCHARGED
1440 minute winter	18	780	217.526	0.037	2.4	0.0669	0.0000	OK
1440 minute winter	19	780	217.341	0.036	2.8	0.0339	0.0000	OK
1440 minute winter	8	780	217.322	0.475	7.4	2.8802	0.0000	SURCHARGED
1440 minute winter	9	780	216.847	0.092	7.7	0.1093	0.0000	OK
1440 minute winter	22	30	218.616	0.000	0.0	0.0000	0.0000	OK
1440 minute winter	23	780	218.024	0.056	0.5	0.0534	0.0000	OK
1440 minute winter	24	780	217.334	0.021	1.1	0.0201	0.0000	OK
1440 minute winter	25	930	216.925	0.679	2.0	1.9233	0.0000	SURCHARGED
1440 minute winter	28	630	215.634	0.033	1.6	0.0376	0.0000	OK
1440 minute winter	26	930	216.912	0.834	2.2	7.5127	0.0000	SURCHARGED
1440 minute winter	27	930	216.912	0.418	0.3	0.7946	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
1440 minute winter	1	1.000	2	0.0	0.000	0.000	0.0190	
1440 minute winter	2	1.001	3	0.6	0.152	0.031	0.1426	
1440 minute winter	3	Orifice	4	1.2				
1440 minute winter	4	1.003	5	2.6	0.235	0.075	0.5009	
1440 minute winter	5	Orifice	6	3.0				
1440 minute winter	6	1.005	7	3.8	0.569	0.111	0.8406	
1440 minute winter	7	1.006	8	4.2	0.248	0.083	1.0030	
1440 minute winter	13	2.000	14	0.5	0.341	0.035	0.0332	
1440 minute winter	14	2.001	15	0.7	0.389	0.048	0.1285	
1440 minute winter	20	3.000	21	0.0	0.000	0.000	0.0027	
1440 minute winter	21	3.001	15	0.1	0.135	0.007	0.0466	
1440 minute winter	15	2.002	16	0.9	0.367	0.062	0.4814	
1440 minute winter	16	2.003	17	1.1	0.213	0.077	0.5717	
1440 minute winter	17	Orifice	18	1.5				
1440 minute winter	18	2.005	19	2.4	0.588	0.057	0.1137	
1440 minute winter	19	2.006	8	2.8	0.143	0.055	1.0094	
1440 minute winter	8	Orifice	9	7.4				
1440 minute winter	9	1.008	10	7.7	0.391	0.181	0.3266	
1440 minute winter	22	4.000	23	0.0	0.000	0.000	0.0948	
1440 minute winter	23	Orifice	24	0.5				
1440 minute winter	24	4.002	25	1.1	0.672	0.043	0.4643	
1440 minute winter	25	Orifice	26	1.8				
1440 minute winter	28	4.005	OUTFALL2	1.6	0.446	0.044	0.0224	84.4
1440 minute winter	26	Hydro-Brake®	28	1.6				
1440 minute winter	27	5.001	26	0.3	0.029	0.020	1.0194	

Results for 30 year 1440 minute winter. 1680 minute analysis at 30 minute timestep. Mass balance: 99.78%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
1440 minute winter	10	780	216.845	0.179	7.9	0.4170	0.0000	SURCHARGED
1440 minute winter	11	780	216.697	0.086	7.9	0.0244	0.0000	OK
1440 minute winter	OUTFALL1	780	216.658	0.078	7.9	0.0000	0.0000	OK
1440 minute winter	12	930	216.912	0.349	0.1	0.0987	0.0000	SURCHARGED
1440 minute winter	OUTFALL2	630	215.603	0.031	1.6	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
1440 minute winter	10	Hydro-Brake®	11	7.9				
1440 minute winter	11	1.010	OUTFALL1	7.9	0.796	0.539	0.0452	288.8
1440 minute winter	12	5.000	27	-0.1	-0.015	-0.007	0.2066	

Results for 30 year 2160 minute summer. 2400 minute analysis at 60 minute timestep. Mass balance: 99.85%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
2160 minute summer	1	60	218.710	0.000	0.0	0.0000	0.0000	OK
2160 minute summer	2	1140	218.518	0.018	0.6	0.0185	0.0000	OK
2160 minute summer	3	1140	218.214	0.071	1.2	0.0796	0.0000	OK
2160 minute summer	4	1140	217.591	0.042	2.6	0.0634	0.0000	OK
2160 minute summer	5	1140	217.515	0.126	3.0	0.2678	0.0000	OK
2160 minute summer	6	1140	217.320	0.102	4.0	0.2553	0.0000	OK
2160 minute summer	7	1140	217.319	0.229	4.4	0.6637	0.0000	SURCHARGED
2160 minute summer	13	1140	218.683	0.019	0.5	0.0129	0.0000	OK
2160 minute summer	14	1140	218.535	0.022	0.7	0.0131	0.0000	OK
2160 minute summer	20	60	218.475	0.000	0.0	0.0000	0.0000	OK
2160 minute summer	21	960	218.400	0.009	0.1	0.0038	0.0000	OK
2160 minute summer	15	1200	218.333	0.031	0.9	0.0256	0.0000	OK
2160 minute summer	16	1200	218.332	0.296	1.2	0.8846	0.0000	SURCHARGED
2160 minute summer	17	1200	218.330	0.510	1.5	2.1625	0.0000	SURCHARGED
2160 minute summer	18	1140	217.526	0.037	2.4	0.0661	0.0000	OK
2160 minute summer	19	1140	217.340	0.035	2.8	0.0336	0.0000	OK
2160 minute summer	8	1140	217.317	0.470	7.5	2.8256	0.0000	SURCHARGED
2160 minute summer	9	1140	216.845	0.090	7.6	0.1067	0.0000	OK
2160 minute summer	22	60	218.616	0.000	0.0	0.0000	0.0000	OK
2160 minute summer	23	1140	218.024	0.056	0.5	0.0534	0.0000	OK
2160 minute summer	24	1140	217.335	0.022	1.2	0.0210	0.0000	OK
2160 minute summer	25	1260	216.839	0.593	2.1	1.4874	0.0000	SURCHARGED
2160 minute summer	28	1020	215.634	0.033	1.6	0.0375	0.0000	OK
2160 minute summer	26	1260	216.827	0.749	2.3	6.4564	0.0000	SURCHARGED
2160 minute summer	27	1260	216.827	0.333	0.2	0.6073	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
2160 minute summer	1	1.000	2	0.0	0.000	0.000	0.0190	
2160 minute summer	2	1.001	3	0.6	0.151	0.031	0.1426	
2160 minute summer	3	Orifice	4	1.2				
2160 minute summer	4	1.003	5	2.6	0.233	0.075	0.5015	
2160 minute summer	5	Orifice	6	3.0				
2160 minute summer	6	1.005	7	3.9	0.574	0.113	0.8261	
2160 minute summer	7	1.006	8	4.3	0.232	0.085	1.0030	
2160 minute summer	13	2.000	14	0.5	0.341	0.035	0.0332	
2160 minute summer	14	2.001	15	0.7	0.389	0.048	0.0644	
2160 minute summer	20	3.000	21	0.0	0.000	0.000	0.0027	
2160 minute summer	21	3.001	15	0.1	0.133	0.007	0.0202	
2160 minute summer	15	2.002	16	0.9	0.365	0.062	0.4031	
2160 minute summer	16	2.003	17	1.1	0.144	0.077	0.5717	
2160 minute summer	17	Orifice	18	1.4				
2160 minute summer	18	2.005	19	2.4	0.585	0.056	0.1123	
2160 minute summer	19	2.006	8	2.8	0.149	0.054	1.0083	
2160 minute summer	8	Orifice	9	7.3				
2160 minute summer	9	1.008	10	7.6	0.392	0.180	0.3226	
2160 minute summer	22	4.000	23	0.0	0.000	0.000	0.0948	
2160 minute summer	23	Orifice	24	0.5				
2160 minute summer	24	4.002	25	1.2	0.675	0.047	0.4666	
2160 minute summer	25	Orifice	26	1.8				
2160 minute summer	28	4.005	OUTFALL2	1.5	0.445	0.043	0.0223	90.0
2160 minute summer	26	Hydro-Brake®	28	1.6				
2160 minute summer	27	5.001	26	0.2	0.010	0.013	1.0194	

Results for 30 year 2160 minute summer. 2400 minute analysis at 60 minute timestep. Mass balance: 99.85%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
2160 minute summer	10	1140	216.844	0.177	7.8	0.4130	0.0000	SURCHARGED
2160 minute summer	11	1140	216.697	0.086	7.8	0.0243	0.0000	OK
2160 minute summer	OUTFALL1	1140	216.658	0.078	7.8	0.0000	0.0000	OK
2160 minute summer	12	1260	216.827	0.264	0.1	0.0746	0.0000	SURCHARGED
2160 minute summer	OUTFALL2	1020	215.602	0.031	1.5	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
2160 minute summer	10	Hydro-Brake®	11	7.8				
2160 minute summer	11	1.010	OUTFALL1	7.8	0.794	0.535	0.0449	294.1
2160 minute summer	12	5.000	27	-0.1	-0.006	-0.007	0.2066	

Results for 30 year 2160 minute winter. 2400 minute analysis at 60 minute timestep. Mass balance: 99.87%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
2160 minute winter	1	60	218.710	0.000	0.0	0.0000	0.0000	OK
2160 minute winter	2	1020	218.515	0.015	0.4	0.0149	0.0000	OK
2160 minute winter	3	1020	218.191	0.048	0.8	0.0490	0.0000	OK
2160 minute winter	4	1140	217.585	0.036	1.9	0.0544	0.0000	OK
2160 minute winter	5	1140	217.473	0.083	2.2	0.1421	0.0000	OK
2160 minute winter	6	1020	217.262	0.044	2.9	0.0820	0.0000	OK
2160 minute winter	7	1200	217.170	0.080	3.3	0.1345	0.0000	OK
2160 minute winter	13	1080	218.681	0.017	0.4	0.0116	0.0000	OK
2160 minute winter	14	1080	218.534	0.021	0.6	0.0119	0.0000	OK
2160 minute winter	20	60	218.475	0.000	0.0	0.0000	0.0000	OK
2160 minute winter	21	840	218.400	0.009	0.1	0.0038	0.0000	OK
2160 minute winter	15	1080	218.326	0.024	0.8	0.0175	0.0000	OK
2160 minute winter	16	1200	218.260	0.224	1.1	0.5185	0.0000	SURCHARGED
2160 minute winter	17	1200	218.259	0.439	1.3	1.7607	0.0000	SURCHARGED
2160 minute winter	18	1200	217.524	0.035	2.1	0.0618	0.0000	OK
2160 minute winter	19	1200	217.338	0.033	2.4	0.0307	0.0000	OK
2160 minute winter	8	1200	217.169	0.322	6.0	1.4141	0.0000	SURCHARGED
2160 minute winter	9	1200	216.813	0.057	6.1	0.0565	0.0000	OK
2160 minute winter	22	60	218.616	0.000	0.0	0.0000	0.0000	OK
2160 minute winter	23	1140	218.010	0.042	0.4	0.0389	0.0000	OK
2160 minute winter	24	1140	217.332	0.019	0.9	0.0182	0.0000	OK
2160 minute winter	25	1320	216.666	0.420	1.6	0.7815	0.0000	SURCHARGED
2160 minute winter	28	1020	215.634	0.033	1.6	0.0376	0.0000	OK
2160 minute winter	26	1320	216.654	0.576	1.9	4.3081	0.0000	SURCHARGED
2160 minute winter	27	1320	216.654	0.160	0.2	0.2377	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
2160 minute winter	1	1.000	2	0.0	0.000	0.000	0.0143	
2160 minute winter	2	1.001	3	0.4	0.151	0.021	0.0864	
2160 minute winter	3	Orifice	4	0.8				
2160 minute winter	4	1.003	5	1.9	0.233	0.055	0.3142	
2160 minute winter	5	Orifice	6	2.2				
2160 minute winter	6	1.005	7	2.9	0.550	0.084	0.2571	
2160 minute winter	7	1.006	8	3.3	0.233	0.064	0.6595	
2160 minute winter	13	2.000	14	0.4	0.311	0.028	0.0292	
2160 minute winter	14	2.001	15	0.6	0.367	0.042	0.0519	
2160 minute winter	20	3.000	21	0.0	0.000	0.000	0.0027	
2160 minute winter	21	3.001	15	0.1	0.134	0.007	0.0150	
2160 minute winter	15	2.002	16	0.8	0.366	0.055	0.3874	
2160 minute winter	16	2.003	17	1.0	0.114	0.072	0.5717	
2160 minute winter	17	Orifice	18	1.3				
2160 minute winter	18	2.005	19	2.1	0.568	0.050	0.1023	
2160 minute winter	19	2.006	8	2.4	0.142	0.046	0.9996	
2160 minute winter	8	Orifice	9	5.9				
2160 minute winter	9	1.008	10	6.1	0.388	0.145	0.2242	
2160 minute winter	22	4.000	23	0.0	0.000	0.000	0.0641	
2160 minute winter	23	Orifice	24	0.4				
2160 minute winter	24	4.002	25	0.9	0.628	0.035	0.4594	
2160 minute winter	25	Orifice	26	1.5				
2160 minute winter	28	4.005	OUTFALL2	1.6	0.446	0.044	0.0224	99.5
2160 minute winter	26	Hydro-Brake®	28	1.6				
2160 minute winter	27	5.001	26	0.2	0.020	0.013	1.0194	

Results for 30 year 2160 minute winter. 2400 minute analysis at 60 minute timestep. Mass balance: 99.87%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
2160 minute winter	10	1200	216.805	0.139	6.2	0.3137	0.0000	OK
2160 minute winter	11	1200	216.686	0.075	6.2	0.0212	0.0000	OK
2160 minute winter	OUTFALL1	1200	216.648	0.068	6.2	0.0000	0.0000	OK
2160 minute winter	12	1320	216.654	0.091	0.0	0.0257	0.0000	OK
2160 minute winter	OUTFALL2	1020	215.603	0.031	1.6	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
2160 minute winter	10	Hydro-Brake®	11	6.2				
2160 minute winter	11	1.010	OUTFALL1	6.2	0.753	0.428	0.0379	341.9
2160 minute winter	12	5.000	27	0.0	-0.005	-0.003	0.1689	

Results for 30 year 2880 minute summer. 3120 minute analysis at 60 minute timestep. Mass balance: 99.91%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
2880 minute summer	1	60	218.710	0.000	0.0	0.0000	0.0000	OK
2880 minute summer	2	1500	218.517	0.017	0.5	0.0168	0.0000	OK
2880 minute summer	3	1500	218.200	0.057	1.0	0.0611	0.0000	OK
2880 minute summer	4	1500	217.587	0.038	2.2	0.0585	0.0000	OK
2880 minute summer	5	1500	217.492	0.103	2.6	0.1957	0.0000	OK
2880 minute summer	6	1500	217.265	0.047	3.4	0.0906	0.0000	OK
2880 minute summer	7	1500	217.246	0.156	3.9	0.3862	0.0000	OK
2880 minute summer	13	1500	218.683	0.019	0.5	0.0129	0.0000	OK
2880 minute summer	14	1500	218.535	0.022	0.7	0.0131	0.0000	OK
2880 minute summer	20	60	218.475	0.000	0.0	0.0000	0.0000	OK
2880 minute summer	21	1260	218.400	0.009	0.1	0.0038	0.0000	OK
2880 minute summer	15	1560	218.327	0.025	0.9	0.0191	0.0000	OK
2880 minute summer	16	1560	218.326	0.290	1.2	0.8561	0.0000	SURCHARGED
2880 minute summer	17	1560	218.325	0.505	1.5	2.1322	0.0000	SURCHARGED
2880 minute summer	18	1500	217.525	0.036	2.3	0.0644	0.0000	OK
2880 minute summer	19	1500	217.340	0.035	2.7	0.0328	0.0000	OK
2880 minute summer	8	1500	217.244	0.397	6.8	2.0830	0.0000	SURCHARGED
2880 minute summer	9	1560	216.824	0.069	6.9	0.0722	0.0000	OK
2880 minute summer	22	60	218.616	0.000	0.0	0.0000	0.0000	OK
2880 minute summer	23	1500	218.010	0.042	0.4	0.0389	0.0000	OK
2880 minute summer	24	1500	217.333	0.020	1.0	0.0192	0.0000	OK
2880 minute summer	25	1620	216.713	0.467	1.8	0.9500	0.0000	SURCHARGED
2880 minute summer	28	1440	215.634	0.033	1.5	0.0374	0.0000	OK
2880 minute summer	26	1620	216.701	0.623	2.1	4.8942	0.0000	SURCHARGED
2880 minute summer	27	1620	216.701	0.207	0.3	0.3320	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
2880 minute summer	1	1.000	2	0.0	0.000	0.000	0.0168	
2880 minute summer	2	1.001	3	0.5	0.151	0.026	0.1096	
2880 minute summer	3	Orifice	4	1.0				
2880 minute summer	4	1.003	5	2.2	0.232	0.064	0.3997	
2880 minute summer	5	Orifice	6	2.6				
2880 minute summer	6	1.005	7	3.4	0.563	0.099	0.5097	
2880 minute summer	7	1.006	8	3.8	0.232	0.075	0.8708	
2880 minute summer	13	2.000	14	0.5	0.341	0.035	0.0332	
2880 minute summer	14	2.001	15	0.7	0.389	0.048	0.0570	
2880 minute summer	20	3.000	21	0.0	0.000	0.000	0.0027	
2880 minute summer	21	3.001	15	0.1	0.133	0.007	0.0161	
2880 minute summer	15	2.002	16	0.9	0.365	0.062	0.3907	
2880 minute summer	16	2.003	17	1.1	0.145	0.074	0.5717	
2880 minute summer	17	Orifice	18	1.4				
2880 minute summer	18	2.005	19	2.3	0.577	0.054	0.1088	
2880 minute summer	19	2.006	8	2.7	0.149	0.052	1.0058	
2880 minute summer	8	Orifice	9	6.7				
2880 minute summer	9	1.008	10	6.9	0.388	0.162	0.2638	
2880 minute summer	22	4.000	23	0.0	0.000	0.000	0.0641	
2880 minute summer	23	Orifice	24	0.4				
2880 minute summer	24	4.002	25	1.0	0.675	0.039	0.4619	
2880 minute summer	25	Orifice	26	1.6				
2880 minute summer	28	4.005	OUTFALL2	1.5	0.445	0.043	0.0222	101.8
2880 minute summer	26	Hydro-Brake®	28	1.5				
2880 minute summer	27	5.001	26	-0.2	-0.014	-0.016	1.0194	

Results for 30 year 2880 minute summer. 3120 minute analysis at 60 minute timestep. Mass balance: 99.91%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
2880 minute summer	10	1560	216.822	0.156	7.0	0.3584	0.0000	SURCHARGED
2880 minute summer	11	1560	216.691	0.080	7.0	0.0226	0.0000	OK
2880 minute summer	OUTFALL1	1560	216.653	0.073	7.0	0.0000	0.0000	OK
2880 minute summer	12	1620	216.701	0.138	0.1	0.0391	0.0000	OK
2880 minute summer	OUTFALL2	1440	215.602	0.031	1.5	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
2880 minute summer	10	Hydro-Brake®	11	7.0				
2880 minute summer	11	1.010	OUTFALL1	7.0	0.774	0.478	0.0412	324.5
2880 minute summer	12	5.000	27	-0.1	-0.016	-0.005	0.2029	

Results for 30 year 2880 minute winter. 3120 minute analysis at 60 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
2880 minute winter	1	60	218.710	0.000	0.0	0.0000	0.0000	OK
2880 minute winter	2	1440	218.515	0.015	0.4	0.0149	0.0000	OK
2880 minute winter	3	1440	218.191	0.048	0.8	0.0490	0.0000	OK
2880 minute winter	4	1440	217.583	0.034	1.7	0.0516	0.0000	OK
2880 minute winter	5	1440	217.464	0.075	2.0	0.1210	0.0000	OK
2880 minute winter	6	1440	217.261	0.043	2.6	0.0793	0.0000	OK
2880 minute winter	7	1560	217.127	0.037	3.0	0.0448	0.0000	OK
2880 minute winter	13	1260	218.679	0.015	0.3	0.0101	0.0000	OK
2880 minute winter	14	1260	218.530	0.017	0.4	0.0094	0.0000	OK
2880 minute winter	20	60	218.475	0.000	0.0	0.0000	0.0000	OK
2880 minute winter	21	1140	218.400	0.009	0.1	0.0038	0.0000	OK
2880 minute winter	15	1260	218.323	0.021	0.6	0.0142	0.0000	OK
2880 minute winter	16	1620	218.113	0.077	0.8	0.0778	0.0000	OK
2880 minute winter	17	1620	218.112	0.292	1.1	0.9720	0.0000	SURCHARGED
2880 minute winter	18	1560	217.521	0.031	1.7	0.0555	0.0000	OK
2880 minute winter	19	1560	217.335	0.030	2.0	0.0278	0.0000	OK
2880 minute winter	8	1560	217.102	0.255	5.3	0.8903	0.0000	OK
2880 minute winter	9	1560	216.809	0.054	5.4	0.0517	0.0000	OK
2880 minute winter	22	60	218.616	0.000	0.0	0.0000	0.0000	OK
2880 minute winter	23	1380	218.000	0.032	0.3	0.0292	0.0000	OK
2880 minute winter	24	1380	217.330	0.017	0.7	0.0161	0.0000	OK
2880 minute winter	25	1560	216.310	0.064	1.3	0.0564	0.0000	OK
2880 minute winter	28	1620	215.634	0.033	1.5	0.0374	0.0000	OK
2880 minute winter	26	1620	216.288	0.210	1.7	0.6378	0.0000	OK
2880 minute winter	27	1440	216.503	0.009	0.1	0.0043	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
2880 minute winter	1	1.000	2	0.0	0.000	0.000	0.0143	
2880 minute winter	2	1.001	3	0.4	0.151	0.021	0.0864	
2880 minute winter	3	Orifice	4	0.8				
2880 minute winter	4	1.003	5	1.7	0.236	0.049	0.2758	
2880 minute winter	5	Orifice	6	2.0				
2880 minute winter	6	1.005	7	2.6	0.555	0.075	0.1362	
2880 minute winter	7	1.006	8	3.0	0.228	0.059	0.5547	
2880 minute winter	13	2.000	14	0.3	0.298	0.021	0.0228	
2880 minute winter	14	2.001	15	0.4	0.329	0.028	0.0409	
2880 minute winter	20	3.000	21	0.0	0.000	0.000	0.0027	
2880 minute winter	21	3.001	15	0.1	0.135	0.007	0.0128	
2880 minute winter	15	2.002	16	0.6	0.367	0.042	0.2109	
2880 minute winter	16	2.003	17	0.8	0.144	0.057	0.4335	
2880 minute winter	17	Orifice	18	1.1				
2880 minute winter	18	2.005	19	1.7	0.533	0.041	0.0904	
2880 minute winter	19	2.006	8	2.0	0.154	0.040	0.9908	
2880 minute winter	8	Orifice	9	5.2				
2880 minute winter	9	1.008	10	5.4	0.389	0.127	0.1946	
2880 minute winter	22	4.000	23	0.0	0.000	0.000	0.0443	
2880 minute winter	23	Orifice	24	0.3				
2880 minute winter	24	4.002	25	0.7	0.628	0.028	0.0541	
2880 minute winter	25	Orifice	26	1.3				
2880 minute winter	28	4.005	OUTFALL2	1.5	0.445	0.043	0.0222	114.3
2880 minute winter	26	Hydro-Brake®	28	1.5				
2880 minute winter	27	5.001	26	0.1	0.016	0.007	0.4929	

Results for 30 year 2880 minute winter. 3120 minute analysis at 60 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
2880 minute winter	10	1560	216.788	0.122	5.5	0.2701	0.0000	OK
2880 minute winter	11	1560	216.680	0.069	5.5	0.0196	0.0000	OK
2880 minute winter	OUTFALL1	1560	216.644	0.063	5.5	0.0000	0.0000	OK
2880 minute winter	12	60	216.563	0.000	0.0	0.0000	0.0000	OK
2880 minute winter	OUTFALL2	1620	215.602	0.031	1.5	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
2880 minute winter	10	Hydro-Brake®	11	5.5				
2880 minute winter	11	1.010	OUTFALL1	5.5	0.729	0.376	0.0344	379.9
2880 minute winter	12	5.000	27	0.0	0.000	0.000	0.0026	

Results for 30 year 4320 minute summer. 4560 minute analysis at 60 minute timestep. Mass balance: 99.75%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
4320 minute summer	1	60	218.710	0.000	0.0	0.0000	0.0000	OK
4320 minute summer	2	2160	218.515	0.015	0.4	0.0149	0.0000	OK
4320 minute summer	3	2160	218.191	0.048	0.8	0.0490	0.0000	OK
4320 minute summer	4	2220	217.584	0.035	1.8	0.0530	0.0000	OK
4320 minute summer	5	2220	217.468	0.079	2.1	0.1311	0.0000	OK
4320 minute summer	6	2160	217.262	0.044	2.8	0.0829	0.0000	OK
4320 minute summer	7	2280	217.140	0.050	3.2	0.0680	0.0000	OK
4320 minute summer	13	2220	218.681	0.017	0.4	0.0116	0.0000	OK
4320 minute summer	14	2220	218.534	0.021	0.6	0.0119	0.0000	OK
4320 minute summer	20	60	218.475	0.000	0.0	0.0000	0.0000	OK
4320 minute summer	21	1920	218.400	0.009	0.1	0.0038	0.0000	OK
4320 minute summer	15	2220	218.326	0.024	0.8	0.0175	0.0000	OK
4320 minute summer	16	2280	218.179	0.143	1.0	0.2131	0.0000	OK
4320 minute summer	17	2280	218.178	0.358	1.2	1.3023	0.0000	SURCHARGED
4320 minute summer	18	2280	217.522	0.033	1.9	0.0578	0.0000	OK
4320 minute summer	19	2280	217.336	0.031	2.2	0.0288	0.0000	OK
4320 minute summer	8	2280	217.139	0.292	5.7	1.1750	0.0000	OK
4320 minute summer	9	2280	216.811	0.056	5.8	0.0545	0.0000	OK
4320 minute summer	22	60	218.616	0.000	0.0	0.0000	0.0000	OK
4320 minute summer	23	2100	218.000	0.032	0.3	0.0292	0.0000	OK
4320 minute summer	24	2160	217.331	0.018	0.8	0.0172	0.0000	OK
4320 minute summer	25	2280	216.400	0.154	1.4	0.1545	0.0000	OK
4320 minute summer	28	2160	215.634	0.033	1.6	0.0376	0.0000	OK
4320 minute summer	26	2280	216.385	0.307	1.8	1.3533	0.0000	SURCHARGED
4320 minute summer	27	2160	216.503	0.009	0.1	0.0043	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
4320 minute summer	1	1.000	2	0.0	0.000	0.000	0.0143	
4320 minute summer	2	1.001	3	0.4	0.151	0.021	0.0864	
4320 minute summer	3	Orifice	4	0.8				
4320 minute summer	4	1.003	5	1.8	0.236	0.052	0.2945	
4320 minute summer	5	Orifice	6	2.1				
4320 minute summer	6	1.005	7	2.8	0.565	0.081	0.1699	
4320 minute summer	7	1.006	8	3.2	0.232	0.062	0.5834	
4320 minute summer	13	2.000	14	0.4	0.311	0.028	0.0292	
4320 minute summer	14	2.001	15	0.6	0.367	0.042	0.0519	
4320 minute summer	20	3.000	21	0.0	0.000	0.000	0.0027	
4320 minute summer	21	3.001	15	0.1	0.135	0.007	0.0150	
4320 minute summer	15	2.002	16	0.8	0.366	0.055	0.3813	
4320 minute summer	16	2.003	17	0.9	0.145	0.065	0.5668	
4320 minute summer	17	Orifice	18	1.2				
4320 minute summer	18	2.005	19	1.9	0.546	0.044	0.0946	
4320 minute summer	19	2.006	8	2.2	0.154	0.042	0.9939	
4320 minute summer	8	Orifice	9	5.6				
4320 minute summer	9	1.008	10	5.8	0.388	0.137	0.2115	
4320 minute summer	22	4.000	23	0.0	0.000	0.000	0.0443	
4320 minute summer	23	Orifice	24	0.3				
4320 minute summer	24	4.002	25	0.8	0.653	0.031	0.2515	
4320 minute summer	25	Orifice	26	1.4				
4320 minute summer	28	4.005	OUTFALL2	1.6	0.446	0.044	0.0224	113.6
4320 minute summer	26	Hydro-Brake®	28	1.6				
4320 minute summer	27	5.001	26	0.1	0.020	0.007	0.5225	

Results for 30 year 4320 minute summer. 4560 minute analysis at 60 minute timestep. Mass balance: 99.75%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
4320 minute summer	10	2280	216.798	0.132	5.9	0.2947	0.0000	OK
4320 minute summer	11	2280	216.684	0.073	5.9	0.0205	0.0000	OK
4320 minute summer	OUTFALL1	2280	216.646	0.066	5.9	0.0000	0.0000	OK
4320 minute summer	12	60	216.563	0.000	0.0	0.0000	0.0000	OK
4320 minute summer	OUTFALL2	2160	215.602	0.031	1.6	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
4320 minute summer	10	Hydro-Brake®	11	5.9				
4320 minute summer	11	1.010	OUTFALL1	5.9	0.744	0.406	0.0364	368.9
4320 minute summer	12	5.000	27	0.0	0.000	0.000	0.0026	

Results for 30 year 4320 minute winter. 4560 minute analysis at 60 minute timestep. Mass balance: 99.04%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
4320 minute winter	1	60	218.710	0.000	0.0	0.0000	0.0000	OK
4320 minute winter	2	1980	218.513	0.013	0.3	0.0129	0.0000	OK
4320 minute winter	3	2040	218.182	0.039	0.6	0.0391	0.0000	OK
4320 minute winter	4	2040	217.579	0.030	1.3	0.0454	0.0000	OK
4320 minute winter	5	2100	217.449	0.060	1.5	0.0873	0.0000	OK
4320 minute winter	6	2100	217.256	0.038	2.0	0.0675	0.0000	OK
4320 minute winter	7	2100	217.122	0.032	2.3	0.0376	0.0000	OK
4320 minute winter	13	2160	218.679	0.015	0.3	0.0101	0.0000	OK
4320 minute winter	14	2160	218.530	0.017	0.4	0.0094	0.0000	OK
4320 minute winter	20	60	218.475	0.000	0.0	0.0000	0.0000	OK
4320 minute winter	21	1800	218.400	0.009	0.1	0.0038	0.0000	OK
4320 minute winter	15	2160	218.323	0.021	0.6	0.0142	0.0000	OK
4320 minute winter	16	2160	218.060	0.024	0.8	0.0153	0.0000	OK
4320 minute winter	17	2400	218.024	0.204	1.0	0.5235	0.0000	OK
4320 minute winter	18	2400	217.517	0.028	1.4	0.0486	0.0000	OK
4320 minute winter	19	2400	217.332	0.027	1.6	0.0236	0.0000	OK
4320 minute winter	8	2400	217.014	0.167	4.1	0.3838	0.0000	OK
4320 minute winter	9	2400	216.802	0.047	4.1	0.0430	0.0000	OK
4320 minute winter	22	60	218.616	0.000	0.0	0.0000	0.0000	OK
4320 minute winter	23	2160	217.998	0.030	0.3	0.0265	0.0000	OK
4320 minute winter	24	2400	217.328	0.015	0.6	0.0143	0.0000	OK
4320 minute winter	25	2160	216.292	0.046	1.0	0.0407	0.0000	OK
4320 minute winter	28	2400	215.630	0.029	1.2	0.0332	0.0000	OK
4320 minute winter	26	2160	216.158	0.080	1.2	0.1368	0.0000	OK
4320 minute winter	27	60	216.494	0.000	0.0	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)
4320 minute winter	1	1.000	2	0.0	0.000	0.000	0.0117	
4320 minute winter	2	1.001	3	0.3	0.148	0.016	0.0668	
4320 minute winter	3	Orifice	4	0.6				
4320 minute winter	4	1.003	5	1.3	0.232	0.038	0.2089	
4320 minute winter	5	Orifice	6	1.5				
4320 minute winter	6	1.005	7	2.0	0.511	0.058	0.1131	
4320 minute winter	7	1.006	8	2.3	0.232	0.045	0.4421	
4320 minute winter	13	2.000	14	0.3	0.298	0.021	0.0228	
4320 minute winter	14	2.001	15	0.4	0.329	0.028	0.0409	
4320 minute winter	20	3.000	21	0.0	0.000	0.000	0.0027	
4320 minute winter	21	3.001	15	0.1	0.135	0.007	0.0128	
4320 minute winter	15	2.002	16	0.6	0.367	0.042	0.0655	
4320 minute winter	16	2.003	17	0.8	0.145	0.055	0.3152	
4320 minute winter	17	Orifice	18	0.9				
4320 minute winter	18	2.005	19	1.4	0.499	0.032	0.0757	
4320 minute winter	19	2.006	8	1.6	0.150	0.030	0.7888	
4320 minute winter	8	Orifice	9	4.0				
4320 minute winter	9	1.008	10	4.1	0.389	0.097	0.1454	
4320 minute winter	22	4.000	23	0.0	0.000	0.000	0.0390	
4320 minute winter	23	Orifice	24	0.3				
4320 minute winter	24	4.002	25	0.6	0.585	0.022	0.0459	
4320 minute winter	25	Orifice	26	1.0				
4320 minute winter	28	4.005	OUTFALL2	1.2	0.418	0.034	0.0186	129.4
4320 minute winter	26	Hydro-Brake®	28	1.2				
4320 minute winter	27	5.001	26	0.0	0.000	0.000	0.0048	

Results for 30 year 4320 minute winter. 4560 minute analysis at 60 minute timestep. Mass balance: 99.04%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
4320 minute winter	10	2400	216.761	0.095	4.2	0.1955	0.0000	OK
4320 minute winter	11	2400	216.671	0.060	4.2	0.0168	0.0000	OK
4320 minute winter	OUTFALL1	2400	216.635	0.055	4.2	0.0000	0.0000	OK
4320 minute winter	12	60	216.563	0.000	0.0	0.0000	0.0000	OK
4320 minute winter	OUTFALL2	2400	215.599	0.028	1.2	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
4320 minute winter	10	Hydro-Brake®	11	4.2				
4320 minute winter	11	1.010	OUTFALL1	4.2	0.682	0.289	0.0282	425.9
4320 minute winter	12	5.000	27	0.0	0.000	0.000	0.0000	

Results for 100 year +30% CC 15 minute summer. 255 minute analysis at 1 minute timestep. Mass balance: 99.51%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	1	13	219.013	0.303	4.7	0.0858	0.0000	SURCHARGED
15 minute summer	2	13	219.021	0.521	16.2	2.0531	0.0000	SURCHARGED
15 minute summer	3	16	218.979	0.836	18.7	5.1688	0.0000	FLOOD RISK
15 minute summer	4	13	218.374	0.825	39.8	6.8664	0.0000	FLOOD RISK
15 minute summer	5	19	218.356	0.967	30.1	9.7446	0.0000	FLOOD RISK
15 minute summer	6	56	217.898	0.680	30.5	7.8051	0.0000	FLOOD RISK
15 minute summer	7	57	217.894	0.804	32.0	3.5827	0.0000	SURCHARGED
15 minute summer	13	12	218.940	0.275	13.1	0.1859	0.0000	SURCHARGED
15 minute summer	14	13	218.885	0.372	17.3	0.9328	0.0000	SURCHARGED
15 minute summer	20	18	218.888	0.413	3.8	0.1235	0.0000	SURCHARGED
15 minute summer	21	19	218.887	0.496	4.5	0.8717	0.0000	SURCHARGED
15 minute summer	15	19	218.885	0.583	20.4	2.9700	0.0000	SURCHARGED
15 minute summer	16	19	218.883	0.847	17.1	4.0088	0.0000	SURCHARGED
15 minute summer	17	18	218.881	1.061	15.3	5.2788	0.0000	SURCHARGED
15 minute summer	18	13	217.926	0.437	27.3	2.3341	0.0000	SURCHARGED
15 minute summer	19	13	217.905	0.600	34.6	2.2529	0.0000	SURCHARGED
15 minute summer	8	59	217.890	1.043	41.5	15.6477	0.0000	FLOOD RISK
15 minute summer	9	73	217.416	0.661	15.1	1.3862	0.0000	SURCHARGED
15 minute summer	22	17	218.641	0.025	0.8	0.0070	0.0000	OK
15 minute summer	23	16	218.639	0.670	12.1	2.8802	0.0000	FLOOD RISK
15 minute summer	24	13	217.731	0.418	18.0	0.8940	0.0000	SURCHARGED
15 minute summer	25	16	217.528	1.282	35.8	8.9333	0.0000	FLOOD RISK
15 minute summer	28	48	215.636	0.035	1.8	0.0399	0.0000	OK
15 minute summer	26	48	217.204	1.126	20.1	11.1499	0.0000	SURCHARGED
15 minute summer	27	48	217.205	0.711	7.3	3.2327	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	1	1.000	2	-4.7	-0.374	-0.328	0.5543	
15 minute summer	2	1.001	3	7.7	0.437	0.398	0.5317	
15 minute summer	3	Orifice	4	4.5				
15 minute summer	4	1.003	5	21.7	0.545	0.629	1.4353	
15 minute summer	5	Orifice	6	7.0				
15 minute summer	6	1.005	7	21.3	0.822	0.617	1.1469	
15 minute summer	7	1.006	8	19.2	0.560	0.376	1.0030	
15 minute summer	13	2.000	14	12.0	0.797	0.826	0.3981	
15 minute summer	14	2.001	15	14.6	0.844	1.013	0.5573	
15 minute summer	20	3.000	21	-2.8	0.241	-0.190	0.2211	
15 minute summer	21	3.001	15	3.3	0.355	0.230	0.2363	
15 minute summer	15	2.002	16	10.8	0.730	0.750	0.7028	
15 minute summer	16	2.003	17	6.6	0.421	0.455	0.5717	
15 minute summer	17	Orifice	18	2.0				
15 minute summer	18	2.005	19	25.0	1.000	0.591	1.0970	
15 minute summer	19	2.006	8	21.9	0.661	0.423	1.8341	
15 minute summer	8	Orifice	9	8.3				
15 minute summer	9	1.008	10	10.8	0.475	0.255	0.5293	
15 minute summer	22	4.000	23	-0.8	-0.071	-0.030	0.3104	
15 minute summer	23	Orifice	24	2.1				
15 minute summer	24	4.002	25	14.6	0.898	0.572	0.8546	
15 minute summer	25	Orifice	26	9.6				
15 minute summer	28	4.005	OUTFALL2	1.8	0.463	0.049	0.0244	23.4
15 minute summer	26	Hydro-Brake®	28	1.8				
15 minute summer	27	5.001	26	-5.7	-0.322	-0.418	1.0194	

Results for 100 year +30% CC 15 minute summer. 255 minute analysis at 1 minute timestep. Mass balance: 99.51%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	10	73	217.412	0.746	14.8	2.9983	0.0000	FLOOD RISK
15 minute summer	11	170	216.702	0.091	8.5	0.0257	0.0000	OK
15 minute summer	OUTFALL1	171	216.662	0.082	8.5	0.0000	0.0000	OK
15 minute summer	12	49	217.205	0.642	3.7	0.1816	0.0000	SURCHARGED
15 minute summer	OUTFALL2	49	215.604	0.033	1.8	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	10	Hydro-Brake®	11	8.5				
15 minute summer	11	1.010	OUTFALL1	8.5	0.809	0.583	0.0480	92.4
15 minute summer	12	5.000	27	-3.7	-0.295	-0.271	0.2066	

Results for 100 year +30% CC 15 minute winter. 255 minute analysis at 1 minute timestep. Mass balance: 99.89%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	1	13	219.055	0.345	6.7	0.0976	0.0000	SURCHARGED
15 minute winter	2	13	219.053	0.553	15.7	2.2157	0.0000	SURCHARGED
15 minute winter	3	17	219.009	0.866	20.3	6.3747	0.0000	FLOOD RISK
15 minute winter	4	14	218.404	0.855	41.7	7.5413	0.0000	FLOOD RISK
15 minute winter	5	19	218.391	1.002	33.3	11.4529	0.0000	FLOOD RISK
15 minute winter	6	64	217.912	0.694	31.7	11.4761	0.0000	FLOOD RISK
15 minute winter	7	66	217.908	0.818	28.5	3.6560	0.0000	SURCHARGED
15 minute winter	13	13	219.005	0.341	13.8	0.2303	0.0000	SURCHARGED
15 minute winter	14	19	218.974	0.461	18.1	1.2394	0.0000	SURCHARGED
15 minute winter	20	19	218.977	0.502	1.9	0.1502	0.0000	SURCHARGED
15 minute winter	21	18	218.975	0.584	7.4	1.0502	0.0000	SURCHARGED
15 minute winter	15	19	218.975	0.673	17.5	3.5438	0.0000	SURCHARGED
15 minute winter	16	19	218.974	0.938	17.9	4.5359	0.0000	SURCHARGED
15 minute winter	17	18	218.972	1.152	15.4	5.7929	0.0000	SURCHARGED
15 minute winter	18	13	217.976	0.487	28.7	2.7173	0.0000	SURCHARGED
15 minute winter	19	14	217.947	0.642	36.3	2.4614	0.0000	SURCHARGED
15 minute winter	8	17	217.905	1.058	45.3	17.1421	0.0000	FLOOD RISK
15 minute winter	9	19	217.438	0.683	15.5	1.4470	0.0000	SURCHARGED
15 minute winter	22	17	218.658	0.042	1.1	0.0118	0.0000	OK
15 minute winter	23	16	218.656	0.688	12.7	3.3629	0.0000	FLOOD RISK
15 minute winter	24	13	217.794	0.481	18.9	1.1284	0.0000	SURCHARGED
15 minute winter	25	17	217.567	1.321	36.2	10.6405	0.0000	FLOOD RISK
15 minute winter	28	54	215.637	0.036	1.8	0.0406	0.0000	OK
15 minute winter	26	54	217.284	1.206	20.7	12.1417	0.0000	SURCHARGED
15 minute winter	27	53	217.285	0.791	7.9	4.0828	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	1	1.000	2	-6.7	-0.427	-0.465	0.5543	
15 minute winter	2	1.001	3	8.7	0.495	0.449	0.5317	
15 minute winter	3	Orifice	4	4.7				
15 minute winter	4	1.003	5	24.2	0.608	0.702	1.4353	
15 minute winter	5	Orifice	6	6.9				
15 minute winter	6	1.005	7	18.1	0.817	0.524	1.1469	
15 minute winter	7	1.006	8	19.5	0.574	0.383	1.0030	
15 minute winter	13	2.000	14	12.6	0.781	0.868	0.3981	
15 minute winter	14	2.001	15	12.5	0.857	0.866	0.5573	
15 minute winter	20	3.000	21	-1.1	0.223	-0.077	0.2211	
15 minute winter	21	3.001	15	3.2	0.331	0.224	0.2363	
15 minute winter	15	2.002	16	11.3	0.744	0.782	0.7028	
15 minute winter	16	2.003	17	6.5	0.436	0.448	0.5717	
15 minute winter	17	Orifice	18	2.1				
15 minute winter	18	2.005	19	26.3	0.995	0.620	1.0970	
15 minute winter	19	2.006	8	21.2	0.619	0.409	1.8341	
15 minute winter	8	Orifice	9	8.3				
15 minute winter	9	1.008	10	12.1	0.484	0.284	0.5293	
15 minute winter	22	4.000	23	-1.1	-0.090	-0.042	0.3437	
15 minute winter	23	Orifice	24	2.1				
15 minute winter	24	4.002	25	14.3	0.895	0.561	0.8546	
15 minute winter	25	Orifice	26	9.6				
15 minute winter	28	4.005	OUTFALL2	1.8	0.467	0.051	0.0249	24.2
15 minute winter	26	Hydro-Brake®	28	1.8				
15 minute winter	27	5.001	26	-5.9	-0.348	-0.432	1.0194	

Results for 100 year +30% CC 15 minute winter. 255 minute analysis at 1 minute timestep. Mass balance: 99.89%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	10	19	217.434	0.768	16.1	3.2625	0.0000	FLOOD RISK
15 minute winter	11	194	216.702	0.091	8.5	0.0257	0.0000	OK
15 minute winter	OUTFALL1	195	216.662	0.082	8.5	0.0000	0.0000	OK
15 minute winter	12	53	217.285	0.722	3.0	0.2042	0.0000	SURCHARGED
15 minute winter	OUTFALL2	54	215.605	0.034	1.8	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute winter	10	Hydro-Brake®	11	8.5				
15 minute winter	11	1.010	OUTFALL1	8.5	0.809	0.583	0.0480	103.4
15 minute winter	12	5.000	27	-3.0	-0.202	-0.221	0.2066	

Results for 100 year +30% CC 30 minute summer. 270 minute analysis at 1 minute timestep. Mass balance: 99.47%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
30 minute summer	1	20	219.049	0.339	6.2	0.0959	0.0000	SURCHARGED
30 minute summer	2	21	219.054	0.554	15.2	2.2203	0.0000	SURCHARGED
30 minute summer	3	27	219.019	0.876	20.3	6.8009	0.0000	FLOOD RISK
30 minute summer	4	32	218.433	0.884	37.9	8.7159	0.0000	FLOOD RISK
30 minute summer	5	33	218.427	1.038	33.6	13.1893	0.0000	FLOOD RISK
30 minute summer	6	85	217.935	0.717	29.0	19.7664	0.0000	FLOOD RISK
30 minute summer	7	86	217.930	0.840	24.7	3.7755	0.0000	SURCHARGED
30 minute summer	13	33	219.107	0.443	12.4	0.2988	0.0000	SURCHARGED
30 minute summer	14	33	219.107	0.594	15.8	1.6962	0.0000	SURCHARGED
30 minute summer	20	32	219.106	0.631	2.4	0.1887	0.0000	SURCHARGED
30 minute summer	21	33	219.107	0.716	7.5	1.3185	0.0000	SURCHARGED
30 minute summer	15	33	219.106	0.804	15.0	4.3875	0.0000	SURCHARGED
30 minute summer	16	33	219.104	1.068	11.9	5.2951	0.0000	SURCHARGED
30 minute summer	17	33	219.101	1.281	11.0	6.5259	0.0000	SURCHARGED
30 minute summer	18	21	218.008	0.519	26.1	2.9704	0.0000	SURCHARGED
30 minute summer	19	21	217.977	0.672	25.0	2.6115	0.0000	SURCHARGED
30 minute summer	8	87	217.927	1.080	46.4	19.1674	0.0000	FLOOD RISK
30 minute summer	9	32	217.495	0.740	15.0	1.5993	0.0000	SURCHARGED
30 minute summer	22	24	218.665	0.049	1.1	0.0139	0.0000	OK
30 minute summer	23	25	218.664	0.696	11.4	3.5721	0.0000	FLOOD RISK
30 minute summer	24	20	217.789	0.476	17.3	1.1070	0.0000	SURCHARGED
30 minute summer	25	28	217.588	1.342	31.9	11.5679	0.0000	FLOOD RISK
30 minute summer	28	74	215.638	0.037	1.9	0.0415	0.0000	OK
30 minute summer	26	74	217.410	1.332	19.2	13.7535	0.0000	FLOOD RISK
30 minute summer	27	74	217.411	0.916	7.1	5.4243	0.0000	FLOOD RISK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
30 minute summer	1	1.000	2	-6.2	-0.405	-0.428	0.5543	
30 minute summer	2	1.001	3	8.6	0.488	0.444	0.5317	
30 minute summer	3	Orifice	4	4.5				
30 minute summer	4	1.003	5	24.1	0.607	0.701	1.4353	
30 minute summer	5	Orifice	6	7.0				
30 minute summer	6	1.005	7	13.1	0.741	0.379	1.1469	
30 minute summer	7	1.006	8	18.9	0.511	0.370	1.0030	
30 minute summer	13	2.000	14	10.8	0.786	0.743	0.3981	
30 minute summer	14	2.001	15	12.1	0.765	0.836	0.5573	
30 minute summer	20	3.000	21	-1.4	0.217	-0.095	0.2211	
30 minute summer	21	3.001	15	-3.8	0.300	-0.262	0.2363	
30 minute summer	15	2.002	16	7.8	0.623	0.542	0.7028	
30 minute summer	16	2.003	17	4.5	0.323	0.313	0.5717	
30 minute summer	17	Orifice	18	2.2				
30 minute summer	18	2.005	19	17.8	0.849	0.420	1.0970	
30 minute summer	19	2.006	8	22.9	0.575	0.441	1.8341	
30 minute summer	8	Orifice	9	8.3				
30 minute summer	9	1.008	10	12.7	0.456	0.300	0.5293	
30 minute summer	22	4.000	23	-1.1	-0.099	-0.045	0.3600	
30 minute summer	23	Orifice	24	2.1				
30 minute summer	24	4.002	25	12.8	0.794	0.503	0.8546	
30 minute summer	25	Orifice	26	9.2				
30 minute summer	28	4.005	OUTFALL2	1.9	0.472	0.053	0.0258	27.3
30 minute summer	26	Hydro-Brake®	28	1.9				
30 minute summer	27	5.001	26	-5.2	-0.301	-0.383	1.0194	

Results for 100 year +30% CC 30 minute summer. 270 minute analysis at 1 minute timestep. Mass balance: 99.47%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
30 minute summer	10	32	217.491	0.825	16.2	3.9308	0.0000	FLOOD RISK
30 minute summer	11	247	216.702	0.091	8.5	0.0257	0.0000	OK
30 minute summer	OUTFALL1	247	216.662	0.082	8.5	0.0000	0.0000	OK
30 minute summer	12	74	217.411	0.848	2.3	0.2399	0.0000	FLOOD RISK
30 minute summer	OUTFALL2	74	215.606	0.035	1.9	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
30 minute summer	10	Hydro-Brake®	11	8.5				
30 minute summer	11	1.010	OUTFALL1	8.5	0.809	0.583	0.0480	122.6
30 minute summer	12	5.000	27	-2.3	-0.261	-0.169	0.2066	

Results for 100 year +30% CC 30 minute winter. 270 minute analysis at 1 minute timestep. Mass balance: 98.71%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
30 minute winter	1	22	219.085	0.375	5.5	0.1062	0.0000	SURCHARGED
30 minute winter	2	22	219.078	0.578	12.5	2.3425	0.0000	SURCHARGED
30 minute winter	3	29	219.059	0.916	19.8	8.4097	0.0000	FLOOD RISK
30 minute winter	4	32	218.465	0.916	34.5	10.5396	0.0000	FLOOD RISK
30 minute winter	5	33	218.458	1.069	32.2	14.6992	0.0000	FLOOD RISK
30 minute winter	6	95	217.948	0.730	26.6	25.8625	0.0000	FLOOD RISK
30 minute winter	7	96	217.944	0.854	24.0	3.8452	0.0000	SURCHARGED
30 minute winter	13	30	219.203	0.539	11.2	0.3638	0.0000	SURCHARGED
30 minute winter	14	30	219.201	0.688	14.8	2.0225	0.0000	SURCHARGED
30 minute winter	20	31	219.197	0.722	2.8	0.2159	0.0000	SURCHARGED
30 minute winter	21	31	219.197	0.806	5.0	1.5017	0.0000	SURCHARGED
30 minute winter	15	31	219.197	0.895	14.1	4.9683	0.0000	SURCHARGED
30 minute winter	16	32	219.187	1.151	11.7	5.7764	0.0000	SURCHARGED
30 minute winter	17	34	219.179	1.359	9.7	8.0511	0.0000	FLOOD RISK
30 minute winter	18	21	218.038	0.549	23.8	3.2208	0.0000	SURCHARGED
30 minute winter	19	22	218.005	0.700	25.2	2.7523	0.0000	SURCHARGED
30 minute winter	8	97	217.940	1.093	46.3	20.4495	0.0000	FLOOD RISK
30 minute winter	9	31	217.533	0.778	14.3	1.7016	0.0000	SURCHARGED
30 minute winter	22	26	218.687	0.071	1.0	0.0200	0.0000	OK
30 minute winter	23	27	218.686	0.718	10.3	4.1796	0.0000	FLOOD RISK
30 minute winter	24	21	217.811	0.498	15.8	1.1935	0.0000	SURCHARGED
30 minute winter	25	30	217.641	1.395	30.2	13.8615	0.0000	FLOOD RISK
30 minute winter	28	85	215.638	0.037	1.9	0.0418	0.0000	OK
30 minute winter	26	85	217.453	1.375	18.3	15.2057	0.0000	FLOOD RISK
30 minute winter	27	84	217.453	0.959	6.6	5.8811	0.0000	FLOOD RISK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
30 minute winter	1	1.000	2	-5.5	-0.365	-0.384	0.5543	
30 minute winter	2	1.001	3	8.5	0.484	0.441	0.5317	
30 minute winter	3	Orifice	4	4.5				
30 minute winter	4	1.003	5	23.1	0.581	0.671	1.4353	
30 minute winter	5	Orifice	6	7.2				
30 minute winter	6	1.005	7	13.0	0.744	0.377	1.1469	
30 minute winter	7	1.006	8	19.1	0.538	0.374	1.0030	
30 minute winter	13	2.000	14	10.3	0.763	0.715	0.3981	
30 minute winter	14	2.001	15	11.4	0.768	0.792	0.5573	
30 minute winter	20	3.000	21	-2.0	0.206	-0.141	0.2211	
30 minute winter	21	3.001	15	2.4	0.281	0.163	0.2363	
30 minute winter	15	2.002	16	7.6	0.658	0.527	0.7028	
30 minute winter	16	2.003	17	4.8	0.341	0.334	0.5717	
30 minute winter	17	Orifice	18	2.2				
30 minute winter	18	2.005	19	17.7	0.870	0.418	1.0970	
30 minute winter	19	2.006	8	23.3	0.585	0.449	1.8341	
30 minute winter	8	Orifice	9	8.3				
30 minute winter	9	1.008	10	11.6	0.461	0.274	0.5293	
30 minute winter	22	4.000	23	-1.0	-0.094	-0.040	0.4098	
30 minute winter	23	Orifice	24	2.1				
30 minute winter	24	4.002	25	12.3	0.752	0.484	0.8546	
30 minute winter	25	Orifice	26	9.2				
30 minute winter	28	4.005	OUTFALL2	1.9	0.473	0.054	0.0261	28.4
30 minute winter	26	Hydro-Brake®	28	1.9				
30 minute winter	27	5.001	26	-5.0	-0.289	-0.366	1.0194	

Results for 100 year +30% CC 30 minute winter. 270 minute analysis at 1 minute timestep. Mass balance: 98.71%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
30 minute winter	10	31	217.529	0.863	14.9	4.3804	0.0000	FLOOD RISK
30 minute winter	11	14	216.702	0.091	8.5	0.0257	0.0000	OK
30 minute winter	OUTFALL1	14	216.662	0.082	8.5	0.0000	0.0000	OK
30 minute winter	12	85	217.454	0.891	2.4	0.2520	0.0000	FLOOD RISK
30 minute winter	OUTFALL2	85	215.606	0.035	1.9	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
30 minute winter	10	Hydro-Brake®	11	8.5				
30 minute winter	11	1.010	OUTFALL1	8.5	0.809	0.583	0.0480	122.8
30 minute winter	12	5.000	27	-2.4	-0.249	-0.180	0.2066	

Results for 100 year +30% CC 60 minute summer. 300 minute analysis at 1 minute timestep. Mass balance: 98.44%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute summer	1	38	219.054	0.344	4.8	0.0974	0.0000	SURCHARGED
60 minute summer	2	40	219.050	0.550	11.1	2.1999	0.0000	SURCHARGED
60 minute summer	3	44	219.043	0.900	17.3	7.7382	0.0000	FLOOD RISK
60 minute summer	4	61	218.474	0.925	30.5	11.1746	0.0000	FLOOD RISK
60 minute summer	5	61	218.468	1.079	30.2	15.1638	0.0000	FLOOD RISK
60 minute summer	6	120	217.967	0.749	26.8	34.4430	0.0000	FLOOD RISK
60 minute summer	7	121	217.963	0.873	20.3	3.9438	0.0000	SURCHARGED
60 minute summer	13	60	219.227	0.563	9.8	0.3801	0.0000	SURCHARGED
60 minute summer	14	60	219.226	0.713	12.5	2.1085	0.0000	SURCHARGED
60 minute summer	20	61	219.225	0.750	2.6	0.2241	0.0000	SURCHARGED
60 minute summer	21	61	219.225	0.834	4.2	1.5577	0.0000	SURCHARGED
60 minute summer	15	61	219.225	0.923	9.9	5.1458	0.0000	SURCHARGED
60 minute summer	16	61	219.220	1.184	7.6	5.9719	0.0000	SURCHARGED
60 minute summer	17	63	219.216	1.396	8.4	9.6497	0.0000	FLOOD RISK
60 minute summer	18	36	218.034	0.545	21.0	3.1823	0.0000	SURCHARGED
60 minute summer	19	37	218.004	0.698	23.8	2.7431	0.0000	SURCHARGED
60 minute summer	8	122	217.959	1.112	43.3	22.2428	0.0000	FLOOD RISK
60 minute summer	9	48	217.550	0.794	13.3	1.7456	0.0000	SURCHARGED
60 minute summer	22	44	218.678	0.062	0.8	0.0175	0.0000	OK
60 minute summer	23	43	218.677	0.709	9.0	3.9371	0.0000	FLOOD RISK
60 minute summer	24	36	217.762	0.449	14.0	1.0056	0.0000	SURCHARGED
60 minute summer	25	52	217.642	1.396	27.1	13.9025	0.0000	FLOOD RISK
60 minute summer	28	108	215.638	0.037	2.0	0.0421	0.0000	OK
60 minute summer	26	108	217.501	1.423	16.2	17.7765	0.0000	FLOOD RISK
60 minute summer	27	107	217.501	1.007	5.6	6.3914	0.0000	FLOOD RISK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
60 minute summer	1	1.000	2	-4.8	-0.298	-0.335	0.5543	
60 minute summer	2	1.001	3	7.5	0.427	0.389	0.5317	
60 minute summer	3	Orifice	4	4.3				
60 minute summer	4	1.003	5	21.9	0.550	0.635	1.4353	
60 minute summer	5	Orifice	6	7.1				
60 minute summer	6	1.005	7	-10.8	0.694	-0.314	1.1469	
60 minute summer	7	1.006	8	17.5	0.478	0.343	1.0030	
60 minute summer	13	2.000	14	8.4	0.709	0.580	0.3981	
60 minute summer	14	2.001	15	8.2	0.640	0.566	0.5573	
60 minute summer	20	3.000	21	-2.1	0.170	-0.145	0.2211	
60 minute summer	21	3.001	15	-2.3	0.247	-0.163	0.2363	
60 minute summer	15	2.002	16	4.6	0.539	0.321	0.7028	
60 minute summer	16	2.003	17	4.0	0.243	0.279	0.5717	
60 minute summer	17	Orifice	18	2.3				
60 minute summer	18	2.005	19	16.7	0.717	0.395	1.0970	
60 minute summer	19	2.006	8	22.0	0.552	0.424	1.8341	
60 minute summer	8	Orifice	9	8.4				
60 minute summer	9	1.008	10	11.5	0.435	0.271	0.5293	
60 minute summer	22	4.000	23	-0.8	-0.074	-0.033	0.3888	
60 minute summer	23	Orifice	24	2.1				
60 minute summer	24	4.002	25	11.3	0.751	0.444	0.8546	
60 minute summer	25	Orifice	26	8.3				
60 minute summer	28	4.005	OUTFALL2	2.0	0.475	0.055	0.0264	32.4
60 minute summer	26	Hydro-Brake®	28	2.0				
60 minute summer	27	5.001	26	-4.7	-0.269	-0.349	1.0194	

Results for 100 year +30% CC 60 minute summer. 300 minute analysis at 1 minute timestep. Mass balance: 98.44%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute summer	10	48	217.545	0.879	14.5	4.5728	0.0000	FLOOD RISK
60 minute summer	11	27	216.702	0.091	8.5	0.0257	0.0000	OK
60 minute summer	OUTFALL1	27	216.662	0.082	8.5	0.0000	0.0000	OK
60 minute summer	12	108	217.501	0.938	1.2	0.2655	0.0000	FLOOD RISK
60 minute summer	OUTFALL2	108	215.606	0.035	2.0	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
60 minute summer	10	Hydro-Brake®	11	8.5				
60 minute summer	11	1.010	OUTFALL1	8.5	0.809	0.583	0.0480	136.8
60 minute summer	12	5.000	27	-1.2	-0.160	-0.087	0.2066	

Results for 100 year +30% CC 60 minute winter. 300 minute analysis at 1 minute timestep. Mass balance: 98.37%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute winter	1	44	219.087	0.377	3.2	0.1067	0.0000	SURCHARGED
60 minute winter	2	46	219.087	0.587	8.5	2.3907	0.0000	SURCHARGED
60 minute winter	3	48	219.081	0.938	15.0	9.2916	0.0000	FLOOD RISK
60 minute winter	4	60	218.509	0.960	25.5	14.0444	0.0000	FLOOD RISK
60 minute winter	5	60	218.502	1.113	26.0	16.8352	0.0000	FLOOD RISK
60 minute winter	6	133	217.985	0.767	30.0	42.6073	0.0000	FLOOD RISK
60 minute winter	7	134	217.981	0.890	17.9	4.0378	0.0000	SURCHARGED
60 minute winter	13	45	219.317	0.653	7.9	0.4404	0.0000	SURCHARGED
60 minute winter	14	45	219.311	0.797	10.2	2.3989	0.0000	SURCHARGED
60 minute winter	20	47	219.297	0.822	1.9	0.2458	0.0000	SURCHARGED
60 minute winter	21	47	219.297	0.906	3.5	1.7047	0.0000	SURCHARGED
60 minute winter	15	47	219.297	0.995	8.6	5.6061	0.0000	SURCHARGED
60 minute winter	16	60	219.288	1.252	7.3	6.3630	0.0000	SURCHARGED
60 minute winter	17	62	219.282	1.462	9.4	12.5316	0.0000	FLOOD RISK
60 minute winter	18	38	218.037	0.548	17.4	3.2097	0.0000	SURCHARGED
60 minute winter	19	38	218.013	0.708	20.8	2.7876	0.0000	SURCHARGED
60 minute winter	8	135	217.977	1.130	37.7	23.9396	0.0000	FLOOD RISK
60 minute winter	9	48	217.599	0.844	12.1	1.8795	0.0000	SURCHARGED
60 minute winter	22	47	218.698	0.082	0.7	0.0232	0.0000	OK
60 minute winter	23	46	218.698	0.730	7.3	4.5121	0.0000	FLOOD RISK
60 minute winter	24	39	217.762	0.449	11.8	1.0049	0.0000	SURCHARGED
60 minute winter	25	51	217.704	1.458	23.4	16.6016	0.3723	FLOOD
60 minute winter	28	115	215.639	0.037	2.0	0.0424	0.0000	OK
60 minute winter	26	114	217.538	1.459	14.3	20.2669	0.0000	FLOOD RISK
60 minute winter	27	114	217.538	1.044	5.9	6.7782	0.0000	FLOOD RISK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
60 minute winter	1	1.000	2	-3.2	-0.225	-0.220	0.5543	
60 minute winter	2	1.001	3	6.6	0.375	0.342	0.5317	
60 minute winter	3	Orifice	4	4.3				
60 minute winter	4	1.003	5	19.3	0.485	0.560	1.4353	
60 minute winter	5	Orifice	6	7.3				
60 minute winter	6	1.005	7	-12.0	0.713	-0.348	1.1469	
60 minute winter	7	1.006	8	16.8	0.486	0.329	1.0030	
60 minute winter	13	2.000	14	7.0	0.674	0.482	0.3981	
60 minute winter	14	2.001	15	7.5	0.648	0.517	0.5573	
60 minute winter	20	3.000	21	-1.5	0.173	-0.103	0.2211	
60 minute winter	21	3.001	15	-2.0	0.239	-0.138	0.2363	
60 minute winter	15	2.002	16	5.2	0.580	0.358	0.7028	
60 minute winter	16	2.003	17	6.2	0.353	0.431	0.5717	
60 minute winter	17	Orifice	18	2.3				
60 minute winter	18	2.005	19	14.9	0.740	0.352	1.0970	
60 minute winter	19	2.006	8	19.6	0.494	0.379	1.8341	
60 minute winter	8	Orifice	9	8.5				
60 minute winter	9	1.008	10	10.7	0.442	0.253	0.5293	
60 minute winter	22	4.000	23	-0.7	-0.060	-0.027	0.4374	
60 minute winter	23	Orifice	24	2.2				
60 minute winter	24	4.002	25	10.3	0.761	0.403	0.8546	
60 minute winter	25	Orifice	26	8.1				
60 minute winter	28	4.005	OUTFALL2	2.0	0.477	0.055	0.0266	33.1
60 minute winter	26	Hydro-Brake®	28	2.0				
60 minute winter	27	5.001	26	-4.8	-0.275	-0.357	1.0194	

Results for 100 year +30% CC 60 minute winter. 300 minute analysis at 1 minute timestep. Mass balance: 98.37%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute winter	10	48	217.595	0.929	13.1	5.1528	0.0000	FLOOD RISK
60 minute winter	11	24	216.702	0.091	8.5	0.0257	0.0000	OK
60 minute winter	OUTFALL1	24	216.662	0.082	8.5	0.0000	0.0000	OK
60 minute winter	12	116	217.538	0.975	1.9	0.2758	0.0000	FLOOD RISK
60 minute winter	OUTFALL2	115	215.606	0.035	2.0	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
60 minute winter	10	Hydro-Brake®	11	8.5				
60 minute winter	11	1.010	OUTFALL1	8.5	0.809	0.583	0.0480	138.4
60 minute winter	12	5.000	27	-1.9	-0.136	-0.138	0.2066	

Results for 100 year +30% CC 120 minute summer. 360 minute analysis at 2 minute timestep. Mass balance: 98.54%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
120 minute summer	1	78	219.012	0.301	2.3	0.0853	0.0000	SURCHARGED
120 minute summer	2	78	219.010	0.510	6.7	1.9959	0.0000	SURCHARGED
120 minute summer	3	80	219.005	0.862	11.0	6.2258	0.0000	FLOOD RISK
120 minute summer	4	96	218.467	0.918	20.8	10.6952	0.0000	FLOOD RISK
120 minute summer	5	98	218.461	1.072	21.6	14.8415	0.0000	FLOOD RISK
120 minute summer	6	162	217.985	0.767	24.0	42.6195	0.0000	FLOOD RISK
120 minute summer	7	162	217.981	0.891	16.5	4.0384	0.0000	SURCHARGED
120 minute summer	13	108	219.236	0.572	6.2	0.3859	0.0000	SURCHARGED
120 minute summer	14	108	219.235	0.722	8.0	2.1405	0.0000	SURCHARGED
120 minute summer	20	108	219.234	0.759	1.1	0.2270	0.0000	SURCHARGED
120 minute summer	21	108	219.234	0.843	2.2	1.5773	0.0000	SURCHARGED
120 minute summer	15	108	219.234	0.932	6.6	5.2061	0.0000	SURCHARGED
120 minute summer	16	108	219.231	1.195	5.5	6.0356	0.0000	SURCHARGED
120 minute summer	17	110	219.228	1.408	6.3	10.1790	0.0000	FLOOD RISK
120 minute summer	18	68	217.985	0.496	14.0	2.7851	0.0000	SURCHARGED
120 minute summer	19	120	217.978	0.673	16.9	2.6162	0.0000	SURCHARGED
120 minute summer	8	164	217.977	1.130	31.9	23.9577	0.0000	FLOOD RISK
120 minute summer	9	82	217.561	0.806	11.1	1.7783	0.0000	SURCHARGED
120 minute summer	22	76	218.652	0.036	0.3	0.0101	0.0000	OK
120 minute summer	23	78	218.652	0.684	5.7	3.2421	0.0000	FLOOD RISK
120 minute summer	24	84	217.661	0.348	9.6	0.6642	0.0000	SURCHARGED
120 minute summer	25	96	217.643	1.397	18.9	13.9345	0.0000	FLOOD RISK
120 minute summer	28	148	215.639	0.037	2.0	0.0424	0.0000	OK
120 minute summer	26	148	217.543	1.465	12.1	20.6439	0.0000	FLOOD RISK
120 minute summer	27	146	217.543	1.049	5.2	6.8363	0.0000	FLOOD RISK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
120 minute summer	1	1.000	2	-2.3	-0.187	-0.157	0.5543	
120 minute summer	2	1.001	3	4.9	0.279	0.254	0.5317	
120 minute summer	3	Orifice	4	4.2				
120 minute summer	4	1.003	5	16.4	0.413	0.476	1.4353	
120 minute summer	5	Orifice	6	7.1				
120 minute summer	6	1.005	7	10.6	0.642	0.308	1.1469	
120 minute summer	7	1.006	8	15.6	0.423	0.306	1.0030	
120 minute summer	13	2.000	14	5.4	0.614	0.375	0.3981	
120 minute summer	14	2.001	15	5.4	0.555	0.371	0.5573	
120 minute summer	20	3.000	21	-0.8	0.158	-0.058	0.2211	
120 minute summer	21	3.001	15	-1.2	0.194	-0.081	0.2363	
120 minute summer	15	2.002	16	3.3	0.467	0.231	0.7028	
120 minute summer	16	2.003	17	4.2	0.239	0.291	0.5717	
120 minute summer	17	Orifice	18	2.2				
120 minute summer	18	2.005	19	12.2	0.651	0.287	1.0970	
120 minute summer	19	2.006	8	15.8	0.397	0.305	1.8341	
120 minute summer	8	Orifice	9	8.5				
120 minute summer	9	1.008	10	10.1	0.409	0.239	0.5293	
120 minute summer	22	4.000	23	-0.3	-0.026	-0.012	0.3315	
120 minute summer	23	Orifice	24	2.1				
120 minute summer	24	4.002	25	8.5	0.764	0.332	0.8546	
120 minute summer	25	Orifice	26	7.1				
120 minute summer	28	4.005	OUTFALL2	2.0	0.477	0.056	0.0266	39.0
120 minute summer	26	Hydro-Brake®	28	2.0				
120 minute summer	27	5.001	26	-4.3	-0.245	-0.318	1.0194	

Results for 100 year +30% CC 120 minute summer. 360 minute analysis at 2 minute timestep. Mass balance: 98.54%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
120 minute summer	10	82	217.557	0.891	12.0	4.7104	0.0000	FLOOD RISK
120 minute summer	11	52	216.702	0.091	8.5	0.0257	0.0000	OK
120 minute summer	OUTFALL1	52	216.662	0.082	8.5	0.0000	0.0000	OK
120 minute summer	12	148	217.543	0.980	0.9	0.2773	0.0000	FLOOD RISK
120 minute summer	OUTFALL2	148	215.606	0.035	2.0	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
120 minute summer	10	Hydro-Brake®	11	8.5				
120 minute summer	11	1.010	OUTFALL1	8.5	0.809	0.583	0.0480	163.3
120 minute summer	12	5.000	27	-0.9	-0.081	-0.067	0.2066	

Results for 100 year +30% CC 120 minute winter. 360 minute analysis at 2 minute timestep. Mass balance: 98.48%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
120 minute winter	1	84	219.032	0.322	1.3	0.0910	0.0000	SURCHARGED
120 minute winter	2	84	219.031	0.531	5.1	2.1044	0.0000	SURCHARGED
120 minute winter	3	86	219.027	0.884	9.1	7.0884	0.0000	FLOOD RISK
120 minute winter	4	100	218.503	0.954	17.0	13.5064	0.0000	FLOOD RISK
120 minute winter	5	102	218.497	1.108	17.7	16.5677	0.0000	FLOOD RISK
120 minute winter	6	174	218.007	0.789	22.6	52.7315	0.0000	FLOOD RISK
120 minute winter	7	174	218.003	0.913	14.4	4.1534	0.0000	SURCHARGED
120 minute winter	13	114	219.312	0.648	4.8	0.4373	0.0000	SURCHARGED
120 minute winter	14	114	219.311	0.798	6.2	2.4018	0.0000	SURCHARGED
120 minute winter	20	116	219.310	0.835	0.8	0.2497	0.0000	SURCHARGED
120 minute winter	21	116	219.310	0.919	1.7	1.7317	0.0000	SURCHARGED
120 minute winter	15	116	219.310	1.008	5.4	5.6941	0.0000	SURCHARGED
120 minute winter	16	116	219.307	1.271	6.3	6.4762	0.0000	SURCHARGED
120 minute winter	17	118	219.303	1.483	8.0	13.4730	0.0000	FLOOD RISK
120 minute winter	18	176	218.000	0.511	11.4	2.9058	0.0000	SURCHARGED
120 minute winter	19	176	218.000	0.695	14.2	2.7248	0.0000	SURCHARGED
120 minute winter	8	176	217.999	1.152	27.3	26.0487	0.0000	FLOOD RISK
120 minute winter	9	84	217.602	0.847	10.4	1.8885	0.0000	SURCHARGED
120 minute winter	22	82	218.659	0.043	0.3	0.0121	0.0000	OK
120 minute winter	23	84	218.659	0.691	4.4	3.4359	0.0000	FLOOD RISK
120 minute winter	24	90	217.731	0.418	7.9	0.8923	0.0000	SURCHARGED
120 minute winter	25	90	217.704	1.458	15.4	16.6016	0.4799	FLOOD
120 minute winter	28	154	215.639	0.038	2.0	0.0427	0.0000	OK
120 minute winter	26	152	217.589	1.511	10.4	23.8534	0.0000	FLOOD RISK
120 minute winter	27	152	217.589	1.095	4.6	7.3245	0.0000	FLOOD RISK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
120 minute winter	1	1.000	2	-1.3	-0.122	-0.093	0.5543	
120 minute winter	2	1.001	3	4.1	0.236	0.215	0.5317	
120 minute winter	3	Orifice	4	4.2				
120 minute winter	4	1.003	5	13.7	0.372	0.398	1.4353	
120 minute winter	5	Orifice	6	7.2				
120 minute winter	6	1.005	7	10.0	0.661	0.291	1.1469	
120 minute winter	7	1.006	8	13.7	0.421	0.268	1.0030	
120 minute winter	13	2.000	14	4.2	0.587	0.293	0.3981	
120 minute winter	14	2.001	15	4.5	0.565	0.314	0.5573	
120 minute winter	20	3.000	21	-0.5	0.158	-0.033	0.2211	
120 minute winter	21	3.001	15	0.9	0.186	0.060	0.2363	
120 minute winter	15	2.002	16	4.3	0.503	0.295	0.7028	
120 minute winter	16	2.003	17	5.4	0.309	0.377	0.5717	
120 minute winter	17	Orifice	18	2.3				
120 minute winter	18	2.005	19	10.6	0.662	0.250	1.0970	
120 minute winter	19	2.006	8	13.9	0.348	0.268	1.8341	
120 minute winter	8	Orifice	9	8.4				
120 minute winter	9	1.008	10	9.6	0.413	0.226	0.5293	
120 minute winter	22	4.000	23	-0.3	-0.022	-0.010	0.3464	
120 minute winter	23	Orifice	24	2.1				
120 minute winter	24	4.002	25	7.3	0.781	0.288	0.8546	
120 minute winter	25	Orifice	26	6.6				
120 minute winter	28	4.005	OUTFALL2	2.0	0.478	0.056	0.0269	39.8
120 minute winter	26	Hydro-Brake®	28	2.0				
120 minute winter	27	5.001	26	-3.9	-0.220	-0.285	1.0194	

Results for 100 year +30% CC 120 minute winter. 360 minute analysis at 2 minute timestep. Mass balance: 98.48%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
120 minute winter	10	84	217.598	0.932	11.0	5.1912	0.0000	FLOOD RISK
120 minute winter	11	46	216.702	0.091	8.5	0.0257	0.0000	OK
120 minute winter	OUTFALL1	46	216.662	0.082	8.5	0.0000	0.0000	OK
120 minute winter	12	152	217.589	1.026	0.9	0.2903	0.0000	FLOOD RISK
120 minute winter	OUTFALL2	154	215.607	0.036	2.0	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
120 minute winter	10	Hydro-Brake®	11	8.5				
120 minute winter	11	1.010	OUTFALL1	8.5	0.809	0.583	0.0480	165.4
120 minute winter	12	5.000	27	-0.9	-0.075	-0.063	0.2066	

Results for 100 year +30% CC 180 minute summer. 420 minute analysis at 4 minute timestep. Mass balance: 98.69%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
180 minute summer	1	112	218.977	0.267	1.6	0.0755	0.0000	SURCHARGED
180 minute summer	2	112	218.977	0.477	4.9	1.8236	0.0000	SURCHARGED
180 minute summer	3	112	218.972	0.828	7.7	4.8736	0.0000	FLOOD RISK
180 minute summer	4	128	218.461	0.912	16.4	10.2501	0.0000	FLOOD RISK
180 minute summer	5	132	218.455	1.065	17.2	14.5208	0.0000	FLOOD RISK
180 minute summer	6	208	217.991	0.773	20.2	45.2570	0.0000	FLOOD RISK
180 minute summer	7	208	217.986	0.896	14.0	4.0683	0.0000	SURCHARGED
180 minute summer	13	140	219.231	0.567	4.6	0.3829	0.0000	SURCHARGED
180 minute summer	14	140	219.231	0.718	6.0	2.1241	0.0000	SURCHARGED
180 minute summer	20	140	219.230	0.755	0.5	0.2256	0.0000	SURCHARGED
180 minute summer	21	140	219.230	0.839	1.5	1.5681	0.0000	SURCHARGED
180 minute summer	15	140	219.230	0.928	5.0	5.1786	0.0000	SURCHARGED
180 minute summer	16	140	219.227	1.191	4.4	6.0097	0.0000	SURCHARGED
180 minute summer	17	144	219.223	1.403	5.5	9.9867	0.0000	FLOOD RISK
180 minute summer	18	180	217.985	0.496	11.0	2.7854	0.0000	SURCHARGED
180 minute summer	19	184	217.984	0.679	13.4	2.6474	0.0000	SURCHARGED
180 minute summer	8	184	217.983	1.136	25.2	24.5354	0.0000	FLOOD RISK
180 minute summer	9	116	217.560	0.805	10.3	1.7763	0.0000	SURCHARGED
180 minute summer	22	112	218.630	0.014	0.1	0.0038	0.0000	OK
180 minute summer	23	112	218.629	0.661	4.2	2.6215	0.0000	FLOOD RISK
180 minute summer	24	128	217.657	0.344	7.6	0.6500	0.0000	SURCHARGED
180 minute summer	25	136	217.641	1.395	14.8	13.8718	0.0000	FLOOD RISK
180 minute summer	28	196	215.639	0.038	2.0	0.0425	0.0000	OK
180 minute summer	26	196	217.557	1.479	10.1	21.5967	0.0000	FLOOD RISK
180 minute summer	27	192	217.557	1.062	4.4	6.9799	0.0000	FLOOD RISK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
180 minute summer	1	1.000	2	-1.6	-0.116	-0.112	0.5543	
180 minute summer	2	1.001	3	3.5	0.214	0.181	0.5317	
180 minute summer	3	Orifice	4	4.2				
180 minute summer	4	1.003	5	13.3	0.335	0.386	1.4353	
180 minute summer	5	Orifice	6	7.0				
180 minute summer	6	1.005	7	10.0	0.608	0.289	1.1469	
180 minute summer	7	1.006	8	12.4	0.394	0.242	1.0030	
180 minute summer	13	2.000	14	4.1	0.555	0.283	0.3981	
180 minute summer	14	2.001	15	4.1	0.504	0.287	0.5573	
180 minute summer	20	3.000	21	-0.3	0.159	-0.018	0.2211	
180 minute summer	21	3.001	15	0.7	0.178	0.049	0.2363	
180 minute summer	15	2.002	16	3.0	0.413	0.208	0.7028	
180 minute summer	16	2.003	17	3.8	0.217	0.264	0.5717	
180 minute summer	17	Orifice	18	2.2				
180 minute summer	18	2.005	19	9.9	0.638	0.233	1.0970	
180 minute summer	19	2.006	8	12.7	0.318	0.244	1.8341	
180 minute summer	8	Orifice	9	8.4				
180 minute summer	9	1.008	10	9.4	0.404	0.221	0.5293	
180 minute summer	22	4.000	23	0.1	0.008	0.003	0.2928	
180 minute summer	23	Orifice	24	2.1				
180 minute summer	24	4.002	25	7.0	0.729	0.274	0.8546	
180 minute summer	25	Orifice	26	6.4				
180 minute summer	28	4.005	OUTFALL2	2.0	0.477	0.056	0.0267	45.1
180 minute summer	26	Hydro-Brake®	28	2.0				
180 minute summer	27	5.001	26	-3.7	-0.212	-0.275	1.0194	

Results for 100 year +30% CC 180 minute summer. 420 minute analysis at 4 minute timestep. Mass balance: 98.69%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
180 minute summer	10	116	217.556	0.890	10.8	4.7005	0.0000	FLOOD RISK
180 minute summer	11	76	216.702	0.091	8.5	0.0257	0.0000	OK
180 minute summer	OUTFALL1	76	216.662	0.082	8.5	0.0000	0.0000	OK
180 minute summer	12	196	217.557	0.994	0.6	0.2812	0.0000	FLOOD RISK
180 minute summer	OUTFALL2	196	215.607	0.036	2.0	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
180 minute summer	10	Hydro-Brake®	11	8.5				
180 minute summer	11	1.010	OUTFALL1	8.5	0.809	0.582	0.0479	188.0
180 minute summer	12	5.000	27	-0.6	-0.055	-0.042	0.2066	

Results for 100 year +30% CC 180 minute winter. 420 minute analysis at 4 minute timestep. Mass balance: 98.63%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
180 minute winter	1	120	218.981	0.271	1.0	0.0767	0.0000	SURCHARGED
180 minute winter	2	120	218.981	0.481	3.8	1.8469	0.0000	SURCHARGED
180 minute winter	3	120	218.976	0.833	6.5	5.0669	0.0000	FLOOD RISK
180 minute winter	4	140	218.493	0.944	13.5	12.6369	0.0000	FLOOD RISK
180 minute winter	5	140	218.487	1.098	14.3	16.0935	0.0000	FLOOD RISK
180 minute winter	6	212	218.018	0.800	17.6	57.9260	0.0000	FLOOD RISK
180 minute winter	7	212	218.014	0.924	11.8	4.2144	0.0000	SURCHARGED
180 minute winter	13	140	219.306	0.642	3.5	0.4333	0.0000	SURCHARGED
180 minute winter	14	144	219.306	0.792	4.6	2.3815	0.0000	SURCHARGED
180 minute winter	20	148	219.304	0.829	0.7	0.2479	0.0000	SURCHARGED
180 minute winter	21	148	219.304	0.913	1.0	1.7198	0.0000	SURCHARGED
180 minute winter	15	148	219.304	1.002	4.3	5.6567	0.0000	SURCHARGED
180 minute winter	16	148	219.301	1.265	5.3	6.4437	0.0000	SURCHARGED
180 minute winter	17	152	219.298	1.478	6.8	13.2379	0.0000	FLOOD RISK
180 minute winter	18	172	218.012	0.523	8.9	3.0020	0.0000	SURCHARGED
180 minute winter	19	216	218.011	0.706	11.2	2.7799	0.0000	SURCHARGED
180 minute winter	8	216	218.010	1.163	21.6	27.1301	0.0000	FLOOD RISK
180 minute winter	9	120	217.592	0.837	9.9	1.8595	0.0000	SURCHARGED
180 minute winter	22	116	218.626	0.010	0.1	0.0028	0.0000	OK
180 minute winter	23	116	218.626	0.658	3.3	2.5376	0.0000	FLOOD RISK
180 minute winter	24	128	217.727	0.413	6.3	0.8772	0.0000	SURCHARGED
180 minute winter	25	132	217.704	1.458	11.9	16.6016	0.4423	FLOOD
180 minute winter	28	180	215.639	0.038	2.0	0.0428	0.0000	OK
180 minute winter	26	180	217.604	1.526	8.8	24.9224	0.0000	FLOOD RISK
180 minute winter	27	172	217.600	1.106	3.7	7.4442	1.7232	FLOOD

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
180 minute winter	1	1.000	2	-1.0	-0.086	-0.071	0.5543	
180 minute winter	2	1.001	3	3.0	0.196	0.155	0.5317	
180 minute winter	3	Orifice	4	4.1				
180 minute winter	4	1.003	5	11.3	0.335	0.327	1.4353	
180 minute winter	5	Orifice	6	7.0				
180 minute winter	6	1.005	7	8.5	0.636	0.247	1.1469	
180 minute winter	7	1.006	8	11.2	0.393	0.220	1.0030	
180 minute winter	13	2.000	14	3.1	0.530	0.215	0.3981	
180 minute winter	14	2.001	15	3.3	0.515	0.231	0.5573	
180 minute winter	20	3.000	21	-0.5	0.153	-0.032	0.2211	
180 minute winter	21	3.001	15	0.6	0.254	0.041	0.2363	
180 minute winter	15	2.002	16	3.7	0.450	0.254	0.7028	
180 minute winter	16	2.003	17	4.7	0.266	0.324	0.5717	
180 minute winter	17	Orifice	18	2.3				
180 minute winter	18	2.005	19	8.5	0.628	0.200	1.0970	
180 minute winter	19	2.006	8	10.9	0.289	0.211	1.8341	
180 minute winter	8	Orifice	9	8.4				
180 minute winter	9	1.008	10	9.0	0.401	0.211	0.5293	
180 minute winter	22	4.000	23	-0.1	-0.005	-0.002	0.2881	
180 minute winter	23	Orifice	24	2.0				
180 minute winter	24	4.002	25	5.9	0.764	0.232	0.8546	
180 minute winter	25	Orifice	26	6.0				
180 minute winter	28	4.005	OUTFALL2	2.0	0.479	0.057	0.0270	45.9
180 minute winter	26	Hydro-Brake®	28	2.0				
180 minute winter	27	5.001	26	-3.2	-0.179	-0.232	1.0194	

Results for 100 year +30% CC 180 minute winter. 420 minute analysis at 4 minute timestep. Mass balance: 98.63%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
180 minute winter	10	120	217.588	0.922	10.0	5.0689	0.0000	FLOOD RISK
180 minute winter	11	68	216.702	0.091	8.5	0.0257	0.0000	OK
180 minute winter	OUTFALL1	68	216.662	0.082	8.5	0.0000	0.0000	OK
180 minute winter	12	200	217.600	1.037	0.5	0.2935	0.0000	FLOOD RISK
180 minute winter	OUTFALL2	180	215.607	0.036	2.0	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
180 minute winter	10	Hydro-Brake®	11	8.5				
180 minute winter	11	1.010	OUTFALL1	8.5	0.809	0.583	0.0480	191.1
180 minute winter	12	5.000	27	-0.5	-0.053	-0.036	0.2066	

Results for 100 year +30% CC 240 minute summer. 480 minute analysis at 4 minute timestep. Mass balance: 98.82%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
240 minute summer	1	144	218.949	0.239	1.0	0.0677	0.0000	SURCHARGED
240 minute summer	2	144	218.950	0.450	4.2	1.6861	0.0000	SURCHARGED
240 minute summer	3	144	218.945	0.802	6.1	3.8220	0.0000	FLOOD RISK
240 minute summer	4	164	218.453	0.904	14.4	9.8035	0.0000	FLOOD RISK
240 minute summer	5	164	218.448	1.058	15.0	14.1837	0.0000	FLOOD RISK
240 minute summer	6	248	217.998	0.779	17.2	48.4584	0.0000	FLOOD RISK
240 minute summer	7	244	217.994	0.904	11.7	4.1108	0.0000	SURCHARGED
240 minute summer	13	168	219.223	0.559	3.9	0.3771	0.0000	SURCHARGED
240 minute summer	14	172	219.222	0.709	5.1	2.0952	0.0000	SURCHARGED
240 minute summer	20	172	219.221	0.746	0.6	0.2231	0.0000	SURCHARGED
240 minute summer	21	172	219.221	0.830	1.4	1.5508	0.0000	SURCHARGED
240 minute summer	15	172	219.221	0.919	4.3	5.1230	0.0000	SURCHARGED
240 minute summer	16	172	219.218	1.182	3.8	5.9595	0.0000	SURCHARGED
240 minute summer	17	176	219.215	1.395	4.8	9.6098	0.0000	FLOOD RISK
240 minute summer	18	240	217.994	0.505	9.5	2.8585	0.0000	SURCHARGED
240 minute summer	19	240	217.993	0.688	11.4	2.6907	0.0000	SURCHARGED
240 minute summer	8	244	217.991	1.144	23.0	25.3413	0.0000	FLOOD RISK
240 minute summer	9	148	217.555	0.800	10.0	1.7601	0.0000	SURCHARGED
240 minute summer	22	4	218.616	0.000	0.0	0.0000	0.0000	OK
240 minute summer	23	140	218.610	0.642	3.6	2.1561	0.0000	FLOOD RISK
240 minute summer	24	164	217.650	0.337	6.7	0.6311	0.0000	SURCHARGED
240 minute summer	25	168	217.637	1.391	12.4	13.6685	0.0000	FLOOD RISK
240 minute summer	28	240	215.639	0.038	2.0	0.0426	0.0000	OK
240 minute summer	26	240	217.565	1.487	9.2	22.2143	0.0000	FLOOD RISK
240 minute summer	27	240	217.565	1.071	3.9	7.0744	0.0000	FLOOD RISK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
240 minute summer	1	1.000	2	-1.0	-0.066	-0.067	0.5543	
240 minute summer	2	1.001	3	2.7	0.197	0.141	0.5317	
240 minute summer	3	Orifice	4	4.1				
240 minute summer	4	1.003	5	11.7	0.337	0.339	1.4353	
240 minute summer	5	Orifice	6	6.9				
240 minute summer	6	1.005	7	7.9	0.589	0.230	1.1469	
240 minute summer	7	1.006	8	11.1	0.380	0.218	1.0030	
240 minute summer	13	2.000	14	3.5	0.530	0.240	0.3981	
240 minute summer	14	2.001	15	3.6	0.493	0.247	0.5573	
240 minute summer	20	3.000	21	-0.4	0.153	-0.025	0.2211	
240 minute summer	21	3.001	15	-0.8	0.180	-0.054	0.2363	
240 minute summer	15	2.002	16	2.6	0.409	0.180	0.7028	
240 minute summer	16	2.003	17	3.3	0.187	0.228	0.5717	
240 minute summer	17	Orifice	18	2.2				
240 minute summer	18	2.005	19	8.6	0.625	0.204	1.0970	
240 minute summer	19	2.006	8	11.1	0.321	0.215	1.8341	
240 minute summer	8	Orifice	9	8.4				
240 minute summer	9	1.008	10	9.1	0.402	0.214	0.5293	
240 minute summer	22	4.000	23	0.0	0.000	0.000	0.2803	
240 minute summer	23	Orifice	24	2.0				
240 minute summer	24	4.002	25	6.1	0.700	0.240	0.8546	
240 minute summer	25	Orifice	26	6.1				
240 minute summer	28	4.005	OUTFALL2	2.0	0.478	0.056	0.0268	51.3
240 minute summer	26	Hydro-Brake®	28	2.0				
240 minute summer	27	5.001	26	-3.3	-0.188	-0.243	1.0194	

Results for 100 year +30% CC 240 minute summer. 480 minute analysis at 4 minute timestep. Mass balance: 98.82%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
240 minute summer	10	148	217.551	0.884	10.3	4.6331	0.0000	FLOOD RISK
240 minute summer	11	104	216.702	0.091	8.5	0.0257	0.0000	OK
240 minute summer	OUTFALL1	104	216.662	0.082	8.5	0.0000	0.0000	OK
240 minute summer	12	240	217.565	1.002	0.4	0.2837	0.0000	FLOOD RISK
240 minute summer	OUTFALL2	240	215.607	0.036	2.0	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
240 minute summer	10	Hydro-Brake®	11	8.5				
240 minute summer	11	1.010	OUTFALL1	8.5	0.809	0.583	0.0480	212.0
240 minute summer	12	5.000	27	-0.4	-0.040	-0.031	0.2066	

Results for 100 year +30% CC 240 minute winter. 480 minute analysis at 4 minute timestep. Mass balance: 98.65%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
240 minute winter	1	156	218.943	0.233	0.7	0.0659	0.0000	SURCHARGED
240 minute winter	2	156	218.943	0.443	3.1	1.6543	0.0000	SURCHARGED
240 minute winter	3	156	218.939	0.796	5.0	3.6336	0.0000	FLOOD RISK
240 minute winter	4	176	218.482	0.933	11.5	11.7531	0.0000	FLOOD RISK
240 minute winter	5	176	218.476	1.087	12.3	15.5648	0.0000	FLOOD RISK
240 minute winter	6	264	218.017	0.799	14.9	57.4933	0.0000	FLOOD RISK
240 minute winter	7	264	218.013	0.923	11.4	4.2096	0.0000	SURCHARGED
240 minute winter	13	180	219.294	0.630	2.9	0.4255	0.0000	SURCHARGED
240 minute winter	14	184	219.294	0.781	3.8	2.3428	0.0000	SURCHARGED
240 minute winter	20	184	219.293	0.818	0.5	0.2446	0.0000	SURCHARGED
240 minute winter	21	184	219.293	0.902	1.2	1.6967	0.0000	SURCHARGED
240 minute winter	15	184	219.293	0.991	3.7	5.5832	0.0000	SURCHARGED
240 minute winter	16	184	219.290	1.254	4.5	6.3775	0.0000	SURCHARGED
240 minute winter	17	188	219.286	1.466	5.9	12.7451	0.0000	FLOOD RISK
240 minute winter	18	236	218.011	0.522	7.7	2.9963	0.0000	SURCHARGED
240 minute winter	19	236	218.011	0.705	9.5	2.7766	0.0000	SURCHARGED
240 minute winter	8	264	218.009	1.162	19.7	27.0486	0.0000	FLOOD RISK
240 minute winter	9	156	217.579	0.823	9.6	1.8249	0.0000	SURCHARGED
240 minute winter	22	4	218.616	0.000	0.0	0.0000	0.0000	OK
240 minute winter	23	148	218.588	0.620	2.7	1.7935	0.0000	FLOOD RISK
240 minute winter	24	172	217.721	0.408	5.4	0.8570	0.0000	SURCHARGED
240 minute winter	25	172	217.704	1.458	10.0	16.6016	0.2517	FLOOD
240 minute winter	28	232	215.639	0.038	2.0	0.0428	0.0000	OK
240 minute winter	26	232	217.604	1.526	7.8	24.9144	0.0000	FLOOD RISK
240 minute winter	27	228	217.600	1.106	3.1	7.4442	2.0421	FLOOD

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
240 minute winter	1	1.000	2	-0.7	-0.063	-0.051	0.5543	
240 minute winter	2	1.001	3	2.3	0.190	0.120	0.5317	
240 minute winter	3	Orifice	4	4.0				
240 minute winter	4	1.003	5	9.9	0.309	0.287	1.4353	
240 minute winter	5	Orifice	6	7.0				
240 minute winter	6	1.005	7	8.9	0.612	0.257	1.1469	
240 minute winter	7	1.006	8	10.7	0.364	0.210	1.0030	
240 minute winter	13	2.000	14	2.6	0.516	0.182	0.3981	
240 minute winter	14	2.001	15	2.9	0.494	0.203	0.5573	
240 minute winter	20	3.000	21	-0.4	0.153	-0.028	0.2211	
240 minute winter	21	3.001	15	-0.7	0.178	-0.049	0.2363	
240 minute winter	15	2.002	16	3.2	0.413	0.221	0.7028	
240 minute winter	16	2.003	17	4.0	0.229	0.280	0.5717	
240 minute winter	17	Orifice	18	2.3				
240 minute winter	18	2.005	19	7.3	0.639	0.173	1.0970	
240 minute winter	19	2.006	8	9.3	0.258	0.180	1.8341	
240 minute winter	8	Orifice	9	8.4				
240 minute winter	9	1.008	10	8.8	0.407	0.207	0.5293	
240 minute winter	22	4.000	23	0.0	0.000	0.000	0.2803	
240 minute winter	23	Orifice	24	2.0				
240 minute winter	24	4.002	25	5.1	0.716	0.201	0.8546	
240 minute winter	25	Orifice	26	5.5				
240 minute winter	28	4.005	OUTFALL2	2.0	0.479	0.057	0.0270	52.1
240 minute winter	26	Hydro-Brake®	28	2.0				
240 minute winter	27	5.001	26	-2.7	-0.154	-0.200	1.0194	

Results for 100 year +30% CC 240 minute winter. 480 minute analysis at 4 minute timestep. Mass balance: 98.65%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
240 minute winter	10	156	217.574	0.908	9.6	4.9131	0.0000	FLOOD RISK
240 minute winter	11	92	216.702	0.091	8.5	0.0257	0.0000	OK
240 minute winter	OUTFALL1	92	216.662	0.082	8.5	0.0000	0.0000	OK
240 minute winter	12	236	217.600	1.037	0.4	0.2935	0.0000	FLOOD RISK
240 minute winter	OUTFALL2	232	215.607	0.036	2.0	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
240 minute winter	10	Hydro-Brake®	11	8.5				
240 minute winter	11	1.010	OUTFALL1	8.5	0.809	0.583	0.0480	216.4
240 minute winter	12	5.000	27	-0.4	-0.048	-0.032	0.2066	

Results for 100 year +30% CC 360 minute summer. 600 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
360 minute summer	1	208	218.861	0.151	0.5	0.0427	0.0000	SURCHARGED
360 minute summer	2	208	218.861	0.361	3.2	1.2320	0.0000	SURCHARGED
360 minute summer	3	208	218.857	0.714	4.9	2.6048	0.0000	SURCHARGED
360 minute summer	4	224	218.431	0.882	11.7	8.5959	0.0000	FLOOD RISK
360 minute summer	5	232	218.425	1.036	12.3	13.1144	0.0000	FLOOD RISK
360 minute summer	6	328	217.998	0.780	13.2	48.6322	0.0000	FLOOD RISK
360 minute summer	7	328	217.995	0.905	11.7	4.1172	0.0000	SURCHARGED
360 minute summer	13	240	219.215	0.551	3.0	0.3718	0.0000	SURCHARGED
360 minute summer	14	240	219.215	0.701	4.0	2.0686	0.0000	SURCHARGED
360 minute summer	20	240	219.213	0.738	0.5	0.2208	0.0000	SURCHARGED
360 minute summer	21	240	219.213	0.822	0.8	1.5350	0.0000	SURCHARGED
360 minute summer	15	240	219.213	0.911	3.5	5.0733	0.0000	SURCHARGED
360 minute summer	16	240	219.211	1.175	3.2	5.9147	0.0000	SURCHARGED
360 minute summer	17	248	219.207	1.387	4.0	9.2814	0.0000	FLOOD RISK
360 minute summer	18	328	217.996	0.506	7.8	2.8692	0.0000	SURCHARGED
360 minute summer	19	328	217.995	0.690	9.3	2.6983	0.0000	SURCHARGED
360 minute summer	8	328	217.993	1.146	19.9	25.4839	0.0000	FLOOD RISK
360 minute summer	9	216	217.544	0.789	9.5	1.7317	0.0000	SURCHARGED
360 minute summer	22	8	218.616	0.000	0.0	0.0000	0.0000	OK
360 minute summer	23	200	218.544	0.576	2.8	1.4966	0.0000	SURCHARGED
360 minute summer	24	232	217.635	0.322	5.4	0.5850	0.0000	SURCHARGED
360 minute summer	25	240	217.625	1.379	9.3	13.1753	0.0000	FLOOD RISK
360 minute summer	28	304	215.639	0.038	2.0	0.0425	0.0000	OK
360 minute summer	26	304	217.562	1.484	8.0	21.9922	0.0000	FLOOD RISK
360 minute summer	27	304	217.562	1.068	3.3	7.0408	0.0000	FLOOD RISK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
360 minute summer	1	1.000	2	-0.5	-0.033	-0.035	0.5542	
360 minute summer	2	1.001	3	2.3	0.182	0.117	0.5317	
360 minute summer	3	Orifice	4	3.8				
360 minute summer	4	1.003	5	9.8	0.252	0.283	1.4353	
360 minute summer	5	Orifice	6	6.8				
360 minute summer	6	1.005	7	9.0	0.577	0.260	1.1469	
360 minute summer	7	1.006	8	10.9	0.289	0.213	1.0030	
360 minute summer	13	2.000	14	2.7	0.488	0.187	0.3981	
360 minute summer	14	2.001	15	2.8	0.484	0.196	0.5573	
360 minute summer	20	3.000	21	-0.3	0.153	-0.022	0.2211	
360 minute summer	21	3.001	15	0.5	0.175	0.034	0.2363	
360 minute summer	15	2.002	16	2.2	0.399	0.153	0.7028	
360 minute summer	16	2.003	17	2.9	0.192	0.198	0.5717	
360 minute summer	17	Orifice	18	2.2				
360 minute summer	18	2.005	19	7.0	0.615	0.165	1.0970	
360 minute summer	19	2.006	8	8.8	0.222	0.170	1.8341	
360 minute summer	8	Orifice	9	8.4				
360 minute summer	9	1.008	10	8.8	0.392	0.208	0.5293	
360 minute summer	22	4.000	23	0.0	0.000	0.000	0.2803	
360 minute summer	23	Orifice	24	1.9				
360 minute summer	24	4.002	25	4.9	0.697	0.191	0.8546	
360 minute summer	25	Orifice	26	5.6				
360 minute summer	28	4.005	OUTFALL2	2.0	0.478	0.056	0.0268	62.3
360 minute summer	26	Hydro-Brake®	28	2.0				
360 minute summer	27	5.001	26	-2.8	-0.157	-0.204	1.0194	

Results for 100 year +30% CC 360 minute summer. 600 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
360 minute summer	10	216	217.540	0.874	9.6	4.5057	0.0000	FLOOD RISK
360 minute summer	11	600	216.702	0.091	8.5	0.0257	0.0000	OK
360 minute summer	OUTFALL1	600	216.662	0.082	8.5	0.0000	0.0000	OK
360 minute summer	12	304	217.562	0.999	0.3	0.2828	0.0000	FLOOD RISK
360 minute summer	OUTFALL2	304	215.607	0.036	2.0	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
360 minute summer	10	Hydro-Brake®	11	8.5				
360 minute summer	11	1.010	OUTFALL1	8.5	0.809	0.583	0.0480	257.1
360 minute summer	12	5.000	27	-0.3	-0.037	-0.025	0.2066	

Results for 100 year +30% CC 360 minute winter. 600 minute analysis at 8 minute timestep. Mass balance: 99.01%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
360 minute winter	1	216	218.803	0.093	0.2	0.0264	0.0000	OK
360 minute winter	2	216	218.803	0.303	2.4	0.9676	0.0000	SURCHARGED
360 minute winter	3	216	218.800	0.657	4.1	2.3268	0.0000	SURCHARGED
360 minute winter	4	240	218.446	0.897	9.3	9.3731	0.0000	FLOOD RISK
360 minute winter	5	248	218.441	1.052	10.0	13.8633	0.0000	FLOOD RISK
360 minute winter	6	352	218.030	0.812	11.5	63.3646	0.0000	FLOOD RISK
360 minute winter	7	352	218.027	0.937	8.8	4.2832	0.0000	SURCHARGED
360 minute winter	13	264	219.275	0.611	2.2	0.4123	0.0000	SURCHARGED
360 minute winter	14	264	219.274	0.761	2.9	2.2752	0.0000	SURCHARGED
360 minute winter	20	264	219.273	0.798	0.3	0.2387	0.0000	SURCHARGED
360 minute winter	21	264	219.273	0.882	0.8	1.6567	0.0000	SURCHARGED
360 minute winter	15	264	219.273	0.971	3.0	5.4572	0.0000	SURCHARGED
360 minute winter	16	264	219.270	1.234	3.6	6.2630	0.0000	SURCHARGED
360 minute winter	17	264	219.267	1.447	4.7	11.8766	0.0000	FLOOD RISK
360 minute winter	18	344	218.027	0.538	6.3	3.1256	0.0000	SURCHARGED
360 minute winter	19	344	218.026	0.721	7.7	2.8560	0.0000	SURCHARGED
360 minute winter	8	352	218.025	1.178	16.1	28.5168	0.0000	FLOOD RISK
360 minute winter	9	232	217.564	0.809	9.2	1.7865	0.0000	SURCHARGED
360 minute winter	22	8	218.616	0.000	0.0	0.0000	0.0000	OK
360 minute winter	23	208	218.455	0.487	2.0	1.1225	0.0000	SURCHARGED
360 minute winter	24	248	217.699	0.386	4.3	0.7849	0.0000	SURCHARGED
360 minute winter	25	256	217.691	1.445	7.8	16.0194	0.0000	FLOOD RISK
360 minute winter	28	280	215.639	0.038	2.0	0.0428	0.0000	OK
360 minute winter	26	280	217.604	1.526	6.5	24.9273	0.0000	FLOOD RISK
360 minute winter	27	272	217.600	1.106	2.4	7.4442	3.9431	FLOOD

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
360 minute winter	1	1.000	2	0.2	0.020	0.016	0.4584	
360 minute winter	2	1.001	3	2.0	0.161	0.103	0.5317	
360 minute winter	3	Orifice	4	3.5				
360 minute winter	4	1.003	5	8.2	0.255	0.238	1.4353	
360 minute winter	5	Orifice	6	6.7				
360 minute winter	6	1.005	7	6.7	0.568	0.196	1.1469	
360 minute winter	7	1.006	8	8.5	0.287	0.167	1.0030	
360 minute winter	13	2.000	14	2.0	0.472	0.136	0.3981	
360 minute winter	14	2.001	15	2.3	0.446	0.158	0.5573	
360 minute winter	20	3.000	21	-0.2	0.153	-0.014	0.2211	
360 minute winter	21	3.001	15	0.4	0.187	0.030	0.2363	
360 minute winter	15	2.002	16	2.6	0.409	0.179	0.7028	
360 minute winter	16	2.003	17	3.3	0.186	0.226	0.5717	
360 minute winter	17	Orifice	18	2.3				
360 minute winter	18	2.005	19	6.1	0.633	0.143	1.0970	
360 minute winter	19	2.006	8	7.5	0.199	0.145	1.8341	
360 minute winter	8	Orifice	9	8.3				
360 minute winter	9	1.008	10	8.7	0.400	0.205	0.5293	
360 minute winter	22	4.000	23	0.0	0.000	0.000	0.2803	
360 minute winter	23	Orifice	24	1.8				
360 minute winter	24	4.002	25	4.1	0.678	0.162	0.8546	
360 minute winter	25	Orifice	26	4.8				
360 minute winter	28	4.005	OUTFALL2	2.0	0.479	0.057	0.0270	64.0
360 minute winter	26	Hydro-Brake®	28	2.0				
360 minute winter	27	5.001	26	-2.1	-0.122	-0.158	1.0194	

Results for 100 year +30% CC 360 minute winter. 600 minute analysis at 8 minute timestep. Mass balance: 99.01%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
360 minute winter	10	232	217.560	0.894	9.2	4.7459	0.0000	FLOOD RISK
360 minute winter	11	144	216.702	0.091	8.5	0.0257	0.0000	OK
360 minute winter	OUTFALL1	144	216.662	0.082	8.5	0.0000	0.0000	OK
360 minute winter	12	312	217.600	1.037	0.3	0.2935	0.0000	FLOOD RISK
360 minute winter	OUTFALL2	280	215.607	0.036	2.0	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
360 minute winter	10	Hydro-Brake®	11	8.5				
360 minute winter	11	1.010	OUTFALL1	8.5	0.809	0.581	0.0479	264.1
360 minute winter	12	5.000	27	-0.3	-0.047	-0.021	0.2066	

Results for 100 year +30% CC 480 minute summer. 720 minute analysis at 8 minute timestep. Mass balance: 99.60%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
480 minute summer	1	272	218.756	0.045	0.2	0.0129	0.0000	OK
480 minute summer	2	272	218.755	0.255	2.6	0.7544	0.0000	SURCHARGED
480 minute summer	3	272	218.752	0.609	4.3	2.0927	0.0000	SURCHARGED
480 minute summer	4	296	218.405	0.856	9.8	7.5707	0.0000	FLOOD RISK
480 minute summer	5	296	218.400	1.011	10.6	11.8832	0.0000	FLOOD RISK
480 minute summer	6	384	217.996	0.778	10.7	47.8688	0.0000	FLOOD RISK
480 minute summer	7	392	217.994	0.904	10.4	4.1084	0.0000	SURCHARGED
480 minute summer	13	312	219.201	0.537	2.4	0.3627	0.0000	SURCHARGED
480 minute summer	14	312	219.201	0.688	3.1	2.0222	0.0000	SURCHARGED
480 minute summer	20	312	219.200	0.725	0.4	0.2167	0.0000	SURCHARGED
480 minute summer	21	312	219.200	0.809	0.7	1.5075	0.0000	SURCHARGED
480 minute summer	15	312	219.200	0.898	2.8	4.9863	0.0000	SURCHARGED
480 minute summer	16	312	219.197	1.161	2.8	5.8359	0.0000	SURCHARGED
480 minute summer	17	312	219.193	1.373	3.6	8.6781	0.0000	FLOOD RISK
480 minute summer	18	392	217.994	0.505	6.7	2.8570	0.0000	SURCHARGED
480 minute summer	19	392	217.993	0.688	8.1	2.6902	0.0000	SURCHARGED
480 minute summer	8	392	217.991	1.144	17.7	25.3362	0.0000	FLOOD RISK
480 minute summer	9	280	217.538	0.783	9.3	1.7164	0.0000	SURCHARGED
480 minute summer	22	8	218.616	0.000	0.0	0.0000	0.0000	OK
480 minute summer	23	264	218.450	0.482	2.2	1.1023	0.0000	SURCHARGED
480 minute summer	24	304	217.620	0.307	4.6	0.5431	0.0000	SURCHARGED
480 minute summer	25	312	217.612	1.366	8.4	12.5927	0.0000	FLOOD RISK
480 minute summer	28	368	215.639	0.038	2.0	0.0425	0.0000	OK
480 minute summer	26	368	217.558	1.480	7.0	21.7151	0.0000	FLOOD RISK
480 minute summer	27	368	217.558	1.064	2.7	6.9988	0.0000	FLOOD RISK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
480 minute summer	1	1.000	2	-0.2	-0.020	-0.016	0.3481	
480 minute summer	2	1.001	3	2.0	0.165	0.106	0.5317	
480 minute summer	3	Orifice	4	3.5				
480 minute summer	4	1.003	5	8.6	0.240	0.249	1.4353	
480 minute summer	5	Orifice	6	6.6				
480 minute summer	6	1.005	7	8.2	0.581	0.237	1.1469	
480 minute summer	7	1.006	8	9.8	0.278	0.193	1.0030	
480 minute summer	13	2.000	14	2.1	0.472	0.146	0.3981	
480 minute summer	14	2.001	15	2.3	0.455	0.159	0.5573	
480 minute summer	20	3.000	21	-0.3	0.153	-0.021	0.2211	
480 minute summer	21	3.001	15	0.4	0.170	0.027	0.2363	
480 minute summer	15	2.002	16	2.0	0.367	0.136	0.7028	
480 minute summer	16	2.003	17	2.5	0.169	0.172	0.5717	
480 minute summer	17	Orifice	18	2.2				
480 minute summer	18	2.005	19	6.3	0.625	0.149	1.0970	
480 minute summer	19	2.006	8	7.8	0.197	0.152	1.8341	
480 minute summer	8	Orifice	9	8.3				
480 minute summer	9	1.008	10	8.7	0.392	0.206	0.5293	
480 minute summer	22	4.000	23	0.0	0.000	0.000	0.2803	
480 minute summer	23	Orifice	24	1.7				
480 minute summer	24	4.002	25	4.3	0.704	0.167	0.8546	
480 minute summer	25	Orifice	26	5.1				
480 minute summer	28	4.005	OUTFALL2	2.0	0.477	0.056	0.0267	72.7
480 minute summer	26	Hydro-Brake®	28	2.0				
480 minute summer	27	5.001	26	-2.3	-0.132	-0.172	1.0194	

Results for 100 year +30% CC 480 minute summer. 720 minute analysis at 8 minute timestep. Mass balance: 99.60%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
480 minute summer	10	280	217.534	0.868	9.3	4.4387	0.0000	FLOOD RISK
480 minute summer	11	680	216.702	0.091	8.5	0.0257	0.0000	OK
480 minute summer	OUTFALL1	680	216.662	0.082	8.5	0.0000	0.0000	OK
480 minute summer	12	368	217.558	0.995	0.4	0.2817	0.0000	FLOOD RISK
480 minute summer	OUTFALL2	368	215.607	0.036	2.0	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
480 minute summer	10	Hydro-Brake®	11	8.5				
480 minute summer	11	1.010	OUTFALL1	8.5	0.809	0.582	0.0480	295.4
480 minute summer	12	5.000	27	-0.4	-0.031	-0.030	0.2066	

Results for 100 year +30% CC 480 minute winter. 720 minute analysis at 8 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
480 minute winter	1	8	218.710	0.000	0.0	0.0000	0.0000	OK
480 minute winter	2	288	218.691	0.191	1.9	0.4569	0.0000	SURCHARGED
480 minute winter	3	288	218.688	0.545	3.6	1.7797	0.0000	SURCHARGED
480 minute winter	4	312	218.406	0.857	7.9	7.6081	0.0000	FLOOD RISK
480 minute winter	5	312	218.402	1.013	8.6	11.9515	0.0000	FLOOD RISK
480 minute winter	6	408	218.024	0.806	9.5	60.5360	0.0000	FLOOD RISK
480 minute winter	7	416	218.021	0.931	8.7	4.2524	0.0000	SURCHARGED
480 minute winter	13	336	219.248	0.584	1.8	0.3944	0.0000	SURCHARGED
480 minute winter	14	336	219.248	0.735	2.4	2.1831	0.0000	SURCHARGED
480 minute winter	20	336	219.247	0.772	0.2	0.2308	0.0000	SURCHARGED
480 minute winter	21	336	219.247	0.856	0.5	1.6031	0.0000	SURCHARGED
480 minute winter	15	336	219.247	0.945	2.5	5.2891	0.0000	SURCHARGED
480 minute winter	16	344	219.244	1.208	3.0	6.1100	0.0000	SURCHARGED
480 minute winter	17	344	219.241	1.421	3.9	10.7552	0.0000	FLOOD RISK
480 minute winter	18	416	218.022	0.533	5.5	3.0779	0.0000	SURCHARGED
480 minute winter	19	416	218.021	0.716	6.7	2.8288	0.0000	SURCHARGED
480 minute winter	8	416	218.019	1.172	14.9	27.9692	0.0000	FLOOD RISK
480 minute winter	9	304	217.551	0.796	9.0	1.7494	0.0000	SURCHARGED
480 minute winter	22	8	218.616	0.000	0.0	0.0000	0.0000	OK
480 minute winter	23	264	218.332	0.364	1.6	0.6906	0.0000	SURCHARGED
480 minute winter	24	328	217.669	0.356	3.7	0.6890	0.0000	SURCHARGED
480 minute winter	25	336	217.664	1.418	6.5	14.8494	0.0000	FLOOD RISK
480 minute winter	28	352	215.639	0.038	2.0	0.0428	0.0000	OK
480 minute winter	26	352	217.602	1.524	5.7	24.8038	0.0000	FLOOD RISK
480 minute winter	27	352	217.600	1.106	2.1	7.4442	2.1075	FLOOD

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
480 minute winter	1	1.000	2	0.0	0.000	0.000	0.2772	
480 minute winter	2	1.001	3	1.8	0.157	0.093	0.5317	
480 minute winter	3	Orifice	4	3.2				
480 minute winter	4	1.003	5	7.1	0.271	0.207	1.4353	
480 minute winter	5	Orifice	6	6.5				
480 minute winter	6	1.005	7	7.1	0.578	0.205	1.1469	
480 minute winter	7	1.006	8	8.3	0.320	0.164	1.0030	
480 minute winter	13	2.000	14	1.6	0.459	0.113	0.3981	
480 minute winter	14	2.001	15	2.0	0.453	0.136	0.5573	
480 minute winter	20	3.000	21	-0.1	0.153	-0.009	0.2211	
480 minute winter	21	3.001	15	0.4	0.165	0.027	0.2363	
480 minute winter	15	2.002	16	2.2	0.367	0.155	0.7028	
480 minute winter	16	2.003	17	2.8	0.159	0.194	0.5717	
480 minute winter	17	Orifice	18	2.2				
480 minute winter	18	2.005	19	5.3	0.606	0.125	1.0970	
480 minute winter	19	2.006	8	6.5	0.183	0.126	1.8341	
480 minute winter	8	Orifice	9	8.3				
480 minute winter	9	1.008	10	8.7	0.393	0.204	0.5293	
480 minute winter	22	4.000	23	0.0	0.000	0.000	0.2803	
480 minute winter	23	Orifice	24	1.5				
480 minute winter	24	4.002	25	3.5	0.695	0.138	0.8546	
480 minute winter	25	Orifice	26	4.3				
480 minute winter	28	4.005	OUTFALL2	2.0	0.479	0.057	0.0270	75.3
480 minute winter	26	Hydro-Brake®	28	2.0				
480 minute winter	27	5.001	26	-1.8	-0.100	-0.129	1.0194	

Results for 100 year +30% CC 480 minute winter. 720 minute analysis at 8 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
480 minute winter	10	304	217.547	0.881	9.1	4.5873	0.0000	FLOOD RISK
480 minute winter	11	192	216.702	0.091	8.5	0.0257	0.0000	OK
480 minute winter	OUTFALL1	192	216.662	0.082	8.5	0.0000	0.0000	OK
480 minute winter	12	376	217.600	1.037	0.3	0.2935	0.0000	FLOOD RISK
480 minute winter	OUTFALL2	352	215.607	0.036	2.0	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
480 minute winter	10	Hydro-Brake®	11	8.5				
480 minute winter	11	1.010	OUTFALL1	8.5	0.809	0.583	0.0480	308.9
480 minute winter	12	5.000	27	-0.3	-0.058	-0.024	0.2066	

Results for 100 year +30% CC 600 minute summer. 840 minute analysis at 15 minute timestep. Mass balance: 99.62%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
600 minute summer	1	15	218.710	0.000	0.0	0.0000	0.0000	OK
600 minute summer	2	330	218.673	0.173	2.1	0.3834	0.0000	SURCHARGED
600 minute summer	3	330	218.670	0.527	3.6	1.6918	0.0000	SURCHARGED
600 minute summer	4	360	218.380	0.831	8.7	6.9563	0.0000	FLOOD RISK
600 minute summer	5	360	218.375	0.986	9.4	10.6804	0.0000	FLOOD RISK
600 minute summer	6	450	217.994	0.776	9.8	46.7440	0.0000	FLOOD RISK
600 minute summer	7	450	217.991	0.901	9.0	4.0956	0.0000	SURCHARGED
600 minute summer	13	375	219.178	0.514	2.0	0.3472	0.0000	SURCHARGED
600 minute summer	14	375	219.178	0.665	2.6	1.9429	0.0000	SURCHARGED
600 minute summer	20	390	219.177	0.702	0.3	0.2099	0.0000	SURCHARGED
600 minute summer	21	390	219.177	0.786	0.5	1.4607	0.0000	SURCHARGED
600 minute summer	15	390	219.177	0.875	2.6	4.8388	0.0000	SURCHARGED
600 minute summer	16	390	219.175	1.139	2.5	5.7072	0.0000	SURCHARGED
600 minute summer	17	390	219.172	1.352	3.0	7.7848	0.0000	FLOOD RISK
600 minute summer	18	450	217.992	0.502	5.9	2.8374	0.0000	SURCHARGED
600 minute summer	19	450	217.991	0.686	7.1	2.6778	0.0000	SURCHARGED
600 minute summer	8	450	217.989	1.142	16.2	25.1082	0.0000	FLOOD RISK
600 minute summer	9	345	217.532	0.777	9.2	1.6996	0.0000	SURCHARGED
600 minute summer	22	15	218.616	0.000	0.0	0.0000	0.0000	OK
600 minute summer	23	330	218.369	0.401	1.8	0.8077	0.0000	SURCHARGED
600 minute summer	24	375	217.605	0.292	4.0	0.5011	0.0000	SURCHARGED
600 minute summer	25	375	217.598	1.352	7.2	12.0042	0.0000	FLOOD RISK
600 minute summer	28	435	215.639	0.038	2.0	0.0425	0.0000	OK
600 minute summer	26	435	217.555	1.477	6.2	21.4638	0.0000	FLOOD RISK
600 minute summer	27	435	217.555	1.061	2.3	6.9603	0.0000	FLOOD RISK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
600 minute summer	1	1.000	2	0.0	0.000	0.000	0.2772	
600 minute summer	2	1.001	3	1.7	0.155	0.087	0.5317	
600 minute summer	3	Orifice	4	3.3				
600 minute summer	4	1.003	5	7.7	0.239	0.222	1.4353	
600 minute summer	5	Orifice	6	6.4				
600 minute summer	6	1.005	7	6.9	0.587	0.200	1.1469	
600 minute summer	7	1.006	8	8.7	0.236	0.170	1.0030	
600 minute summer	13	2.000	14	1.8	0.455	0.125	0.3981	
600 minute summer	14	2.001	15	2.0	0.437	0.137	0.5573	
600 minute summer	20	3.000	21	-0.2	0.147	-0.011	0.2211	
600 minute summer	21	3.001	15	0.4	0.166	0.027	0.2363	
600 minute summer	15	2.002	16	1.6	0.367	0.114	0.7028	
600 minute summer	16	2.003	17	2.1	0.143	0.145	0.5717	
600 minute summer	17	Orifice	18	2.2				
600 minute summer	18	2.005	19	5.6	0.603	0.132	1.0970	
600 minute summer	19	2.006	8	6.9	0.174	0.133	1.8341	
600 minute summer	8	Orifice	9	8.3				
600 minute summer	9	1.008	10	8.6	0.391	0.203	0.5293	
600 minute summer	22	4.000	23	0.0	0.000	0.000	0.2803	
600 minute summer	23	Orifice	24	1.6				
600 minute summer	24	4.002	25	3.8	0.698	0.149	0.8546	
600 minute summer	25	Orifice	26	4.6				
600 minute summer	28	4.005	OUTFALL2	2.0	0.477	0.056	0.0267	81.3
600 minute summer	26	Hydro-Brake®	28	2.0				
600 minute summer	27	5.001	26	-2.0	-0.113	-0.147	1.0194	

Results for 100 year +30% CC 600 minute summer. 840 minute analysis at 15 minute timestep. Mass balance: 99.62%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
600 minute summer	10	345	217.528	0.862	9.0	4.3702	0.0000	FLOOD RISK
600 minute summer	11	270	216.702	0.091	8.5	0.0257	0.0000	OK
600 minute summer	OUTFALL1	270	216.662	0.082	8.5	0.0000	0.0000	OK
600 minute summer	12	435	217.555	0.992	0.3	0.2806	0.0000	FLOOD RISK
600 minute summer	OUTFALL2	435	215.607	0.036	2.0	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
600 minute summer	10	Hydro-Brake®	11	8.5				
600 minute summer	11	1.010	OUTFALL1	8.5	0.809	0.583	0.0480	316.2
600 minute summer	12	5.000	27	-0.3	-0.015	-0.020	0.2066	

Results for 100 year +30% CC 600 minute winter. 840 minute analysis at 15 minute timestep. Mass balance: 99.52%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
600 minute winter	1	15	218.710	0.000	0.0	0.0000	0.0000	OK
600 minute winter	2	345	218.587	0.087	1.6	0.1315	0.0000	OK
600 minute winter	3	345	218.586	0.443	3.2	1.3110	0.0000	SURCHARGED
600 minute winter	4	375	218.362	0.813	6.9	6.7003	0.0000	SURCHARGED
600 minute winter	5	375	218.358	0.969	7.7	9.8348	0.0000	FLOOD RISK
600 minute winter	6	480	218.020	0.802	8.8	58.5847	0.0000	FLOOD RISK
600 minute winter	7	480	218.017	0.927	8.1	4.2316	0.0000	SURCHARGED
600 minute winter	13	420	219.215	0.551	1.5	0.3720	0.0000	SURCHARGED
600 minute winter	14	420	219.215	0.702	2.0	2.0699	0.0000	SURCHARGED
600 minute winter	20	420	219.214	0.739	0.2	0.2209	0.0000	SURCHARGED
600 minute winter	21	420	219.214	0.823	0.4	1.5359	0.0000	SURCHARGED
600 minute winter	15	420	219.214	0.912	2.0	5.0763	0.0000	SURCHARGED
600 minute winter	16	420	219.212	1.176	2.5	5.9211	0.0000	SURCHARGED
600 minute winter	17	420	219.209	1.389	3.3	9.3434	0.0000	FLOOD RISK
600 minute winter	18	480	218.018	0.528	5.0	3.0455	0.0000	SURCHARGED
600 minute winter	19	480	218.017	0.712	6.0	2.8080	0.0000	SURCHARGED
600 minute winter	8	480	218.015	1.168	13.8	27.5769	0.0000	FLOOD RISK
600 minute winter	9	390	217.543	0.788	8.9	1.7287	0.0000	SURCHARGED
600 minute winter	22	15	218.616	0.000	0.0	0.0000	0.0000	OK
600 minute winter	23	330	218.258	0.290	1.4	0.4785	0.0000	SURCHARGED
600 minute winter	24	420	217.655	0.342	3.2	0.6454	0.0000	SURCHARGED
600 minute winter	25	420	217.651	1.405	5.7	14.3085	0.0000	FLOOD RISK
600 minute winter	28	435	215.639	0.038	2.0	0.0428	0.0000	OK
600 minute winter	26	435	217.602	1.524	5.1	24.7657	0.0000	FLOOD RISK
600 minute winter	27	435	217.600	1.106	1.7	7.4442	1.6302	FLOOD

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
600 minute winter	1	1.000	2	0.0	0.000	0.000	0.1673	
600 minute winter	2	1.001	3	1.6	0.155	0.083	0.4263	
600 minute winter	3	Orifice	4	2.9				
600 minute winter	4	1.003	5	6.4	0.239	0.187	1.4353	
600 minute winter	5	Orifice	6	6.2				
600 minute winter	6	1.005	7	6.6	0.583	0.192	1.1469	
600 minute winter	7	1.006	8	7.8	0.261	0.154	1.0030	
600 minute winter	13	2.000	14	1.4	0.440	0.095	0.3981	
600 minute winter	14	2.001	15	1.7	0.420	0.116	0.5573	
600 minute winter	20	3.000	21	0.1	0.153	0.008	0.2211	
600 minute winter	21	3.001	15	0.3	0.170	0.024	0.2363	
600 minute winter	15	2.002	16	1.8	0.367	0.124	0.7028	
600 minute winter	16	2.003	17	2.3	0.169	0.158	0.5717	
600 minute winter	17	Orifice	18	2.2				
600 minute winter	18	2.005	19	4.8	0.605	0.113	1.0970	
600 minute winter	19	2.006	8	5.9	0.148	0.114	1.8341	
600 minute winter	8	Orifice	9	8.2				
600 minute winter	9	1.008	10	8.5	0.391	0.201	0.5293	
600 minute winter	22	4.000	23	0.0	0.000	0.000	0.2803	
600 minute winter	23	Orifice	24	1.3				
600 minute winter	24	4.002	25	3.1	0.709	0.122	0.8546	
600 minute winter	25	Orifice	26	3.9				
600 minute winter	28	4.005	OUTFALL2	2.0	0.479	0.057	0.0270	85.2
600 minute winter	26	Hydro-Brake®	28	2.0				
600 minute winter	27	5.001	26	-1.5	-0.084	-0.109	1.0194	

Results for 100 year +30% CC 600 minute winter. 840 minute analysis at 15 minute timestep. Mass balance: 99.52%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
600 minute winter	10	390	217.539	0.872	8.9	4.4911	0.0000	FLOOD RISK
600 minute winter	11	240	216.702	0.091	8.5	0.0257	0.0000	OK
600 minute winter	OUTFALL1	240	216.662	0.082	8.5	0.0000	0.0000	OK
600 minute winter	12	450	217.600	1.037	0.2	0.2935	0.0000	FLOOD RISK
600 minute winter	OUTFALL2	435	215.607	0.036	2.0	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
600 minute winter	10	Hydro-Brake®	11	8.5				
600 minute winter	11	1.010	OUTFALL1	8.5	0.809	0.582	0.0480	351.6
600 minute winter	12	5.000	27	-0.2	-0.020	-0.017	0.2066	

Results for 100 year +30% CC 720 minute summer. 960 minute analysis at 15 minute timestep. Mass balance: 99.69%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
720 minute summer	1	15	218.710	0.000	0.0	0.0000	0.0000	OK
720 minute summer	2	390	218.609	0.109	1.9	0.1813	0.0000	OK
720 minute summer	3	390	218.607	0.464	3.8	1.4035	0.0000	SURCHARGED
720 minute summer	4	420	218.350	0.800	8.0	6.5238	0.0000	SURCHARGED
720 minute summer	5	420	218.345	0.956	8.5	9.2034	0.0000	FLOOD RISK
720 minute summer	6	510	217.991	0.772	9.3	45.2364	0.0000	FLOOD RISK
720 minute summer	7	510	217.988	0.898	8.5	4.0775	0.0000	SURCHARGED
720 minute summer	13	450	219.164	0.500	1.8	0.3377	0.0000	SURCHARGED
720 minute summer	14	450	219.164	0.651	2.4	1.8937	0.0000	SURCHARGED
720 minute summer	20	450	219.163	0.688	0.2	0.2057	0.0000	SURCHARGED
720 minute summer	21	450	219.163	0.772	0.5	1.4321	0.0000	SURCHARGED
720 minute summer	15	450	219.163	0.861	2.3	4.7495	0.0000	SURCHARGED
720 minute summer	16	450	219.160	1.124	2.3	5.6205	0.0000	SURCHARGED
720 minute summer	17	450	219.156	1.336	2.9	7.2738	0.0000	FLOOD RISK
720 minute summer	18	510	217.988	0.499	5.4	2.8105	0.0000	SURCHARGED
720 minute summer	19	510	217.987	0.682	6.6	2.6617	0.0000	SURCHARGED
720 minute summer	8	510	217.986	1.139	15.2	24.7985	0.0000	FLOOD RISK
720 minute summer	9	420	217.529	0.774	9.0	1.6911	0.0000	SURCHARGED
720 minute summer	22	15	218.616	0.000	0.0	0.0000	0.0000	OK
720 minute summer	23	390	218.332	0.364	1.7	0.6900	0.0000	SURCHARGED
720 minute summer	24	450	217.594	0.280	3.7	0.4719	0.0000	SURCHARGED
720 minute summer	25	450	217.589	1.343	6.5	11.6073	0.0000	FLOOD RISK
720 minute summer	28	510	215.639	0.038	2.0	0.0425	0.0000	OK
720 minute summer	26	510	217.550	1.472	5.8	21.1126	0.0000	FLOOD RISK
720 minute summer	27	510	217.550	1.056	2.1	6.9055	0.0000	FLOOD RISK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
720 minute summer	1	1.000	2	0.0	0.000	0.000	0.2164	
720 minute summer	2	1.001	3	1.9	0.155	0.098	0.4734	
720 minute summer	3	Orifice	4	3.2				
720 minute summer	4	1.003	5	7.0	0.239	0.204	1.4353	
720 minute summer	5	Orifice	6	6.2				
720 minute summer	6	1.005	7	6.6	0.584	0.192	1.1469	
720 minute summer	7	1.006	8	8.2	0.230	0.161	1.0030	
720 minute summer	13	2.000	14	1.6	0.440	0.112	0.3981	
720 minute summer	14	2.001	15	1.8	0.440	0.128	0.5573	
720 minute summer	20	3.000	21	0.1	0.153	0.008	0.2211	
720 minute summer	21	3.001	15	0.4	0.170	0.027	0.2363	
720 minute summer	15	2.002	16	1.7	0.367	0.115	0.7028	
720 minute summer	16	2.003	17	1.9	0.143	0.130	0.5717	
720 minute summer	17	Orifice	18	2.2				
720 minute summer	18	2.005	19	5.2	0.617	0.122	1.0970	
720 minute summer	19	2.006	8	6.4	0.161	0.123	1.8341	
720 minute summer	8	Orifice	9	8.2				
720 minute summer	9	1.008	10	8.6	0.391	0.203	0.5293	
720 minute summer	22	4.000	23	0.0	0.000	0.000	0.2803	
720 minute summer	23	Orifice	24	1.5				
720 minute summer	24	4.002	25	3.5	0.670	0.139	0.8546	
720 minute summer	25	Orifice	26	4.3				
720 minute summer	28	4.005	OUTFALL2	2.0	0.477	0.056	0.0267	90.1
720 minute summer	26	Hydro-Brake®	28	2.0				
720 minute summer	27	5.001	26	-1.8	-0.102	-0.132	1.0194	

Results for 100 year +30% CC 720 minute summer. 960 minute analysis at 15 minute timestep. Mass balance: 99.69%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
720 minute summer	10	420	217.525	0.859	9.0	4.3327	0.0000	FLOOD RISK
720 minute summer	11	840	216.702	0.091	8.5	0.0257	0.0000	OK
720 minute summer	OUTFALL1	840	216.662	0.082	8.5	0.0000	0.0000	OK
720 minute summer	12	510	217.550	0.987	0.2	0.2792	0.0000	FLOOD RISK
720 minute summer	OUTFALL2	510	215.607	0.035	2.0	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
720 minute summer	10	Hydro-Brake®	11	8.5				
720 minute summer	11	1.010	OUTFALL1	8.5	0.809	0.583	0.0480	337.0
720 minute summer	12	5.000	27	-0.2	-0.029	-0.017	0.2066	

Results for 100 year +30% CC 720 minute winter. 960 minute analysis at 15 minute timestep. Mass balance: 99.56%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
720 minute winter	1	15	218.710	0.000	0.0	0.0000	0.0000	OK
720 minute winter	2	375	218.528	0.028	1.5	0.0310	0.0000	OK
720 minute winter	3	405	218.524	0.381	3.0	1.0491	0.0000	SURCHARGED
720 minute winter	4	435	218.322	0.773	6.3	6.1437	0.0000	SURCHARGED
720 minute winter	5	435	218.318	0.929	7.0	7.8958	0.0000	FLOOD RISK
720 minute winter	6	540	218.013	0.795	8.3	55.5188	0.0000	FLOOD RISK
720 minute winter	7	540	218.011	0.921	7.6	4.1978	0.0000	SURCHARGED
720 minute winter	13	480	219.203	0.539	1.4	0.3637	0.0000	SURCHARGED
720 minute winter	14	480	219.202	0.689	1.9	2.0267	0.0000	SURCHARGED
720 minute winter	20	495	219.201	0.726	0.1	0.2172	0.0000	SURCHARGED
720 minute winter	21	495	219.201	0.810	0.4	1.5105	0.0000	SURCHARGED
720 minute winter	15	495	219.201	0.899	2.0	4.9965	0.0000	SURCHARGED
720 minute winter	16	495	219.199	1.163	2.3	5.8486	0.0000	SURCHARGED
720 minute winter	17	495	219.196	1.376	2.9	8.7988	0.0000	FLOOD RISK
720 minute winter	18	540	218.012	0.523	4.7	2.9979	0.0000	SURCHARGED
720 minute winter	19	540	218.011	0.706	5.5	2.7773	0.0000	SURCHARGED
720 minute winter	8	540	218.009	1.162	13.1	26.9876	0.0000	FLOOD RISK
720 minute winter	9	450	217.532	0.777	8.8	1.6991	0.0000	SURCHARGED
720 minute winter	22	15	218.616	0.000	0.0	0.0000	0.0000	OK
720 minute winter	23	390	218.222	0.254	1.3	0.3875	0.0000	SURCHARGED
720 minute winter	24	495	217.641	0.327	2.9	0.6018	0.0000	SURCHARGED
720 minute winter	25	495	217.638	1.392	5.1	13.7197	0.0000	FLOOD RISK
720 minute winter	28	525	215.639	0.038	2.0	0.0428	0.0000	OK
720 minute winter	26	525	217.601	1.523	4.7	24.6825	0.0000	FLOOD RISK
720 minute winter	27	525	217.600	1.106	1.5	7.4442	0.6237	FLOOD

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
720 minute winter	1	1.000	2	0.0	0.000	0.000	0.0362	
720 minute winter	2	1.001	3	1.5	0.155	0.078	0.3005	
720 minute winter	3	Orifice	4	2.7				
720 minute winter	4	1.003	5	5.9	0.241	0.171	1.4353	
720 minute winter	5	Orifice	6	5.9				
720 minute winter	6	1.005	7	6.2	0.589	0.180	1.1469	
720 minute winter	7	1.006	8	7.4	0.230	0.145	1.0030	
720 minute winter	13	2.000	14	1.3	0.419	0.090	0.3981	
720 minute winter	14	2.001	15	1.6	0.420	0.108	0.5573	
720 minute winter	20	3.000	21	0.1	0.153	0.008	0.2211	
720 minute winter	21	3.001	15	0.3	0.170	0.023	0.2363	
720 minute winter	15	2.002	16	1.7	0.402	0.116	0.7028	
720 minute winter	16	2.003	17	2.1	0.150	0.148	0.5717	
720 minute winter	17	Orifice	18	2.2				
720 minute winter	18	2.005	19	4.5	0.603	0.107	1.0970	
720 minute winter	19	2.006	8	5.4	0.161	0.105	1.8341	
720 minute winter	8	Orifice	9	8.2				
720 minute winter	9	1.008	10	8.5	0.391	0.202	0.5293	
720 minute winter	22	4.000	23	0.0	0.000	0.000	0.2803	
720 minute winter	23	Orifice	24	1.2				
720 minute winter	24	4.002	25	2.8	0.709	0.110	0.8546	
720 minute winter	25	Orifice	26	3.6				
720 minute winter	28	4.005	OUTFALL2	2.0	0.479	0.057	0.0270	95.4
720 minute winter	26	Hydro-Brake®	28	2.0				
720 minute winter	27	5.001	26	-1.3	-0.074	-0.096	1.0194	

Results for 100 year +30% CC 720 minute winter. 960 minute analysis at 15 minute timestep. Mass balance: 99.56%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
720 minute winter	10	450	217.528	0.862	8.8	4.3666	0.0000	FLOOD RISK
720 minute winter	11	300	216.702	0.091	8.5	0.0257	0.0000	OK
720 minute winter	OUTFALL1	300	216.662	0.082	8.5	0.0000	0.0000	OK
720 minute winter	12	525	217.600	1.037	0.2	0.2935	0.0000	FLOOD RISK
720 minute winter	OUTFALL2	525	215.607	0.036	2.0	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
720 minute winter	10	Hydro-Brake®	11	8.5				
720 minute winter	11	1.010	OUTFALL1	8.5	0.809	0.583	0.0480	378.1
720 minute winter	12	5.000	27	-0.2	-0.017	-0.018	0.2066	

Results for 100 year +30% CC 960 minute summer. 1200 minute analysis at 15 minute timestep. Mass balance: 99.74%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
960 minute summer	1	15	218.710	0.000	0.0	0.0000	0.0000	OK
960 minute summer	2	495	218.529	0.029	1.6	0.0322	0.0000	OK
960 minute summer	3	510	218.525	0.382	3.2	1.0535	0.0000	SURCHARGED
960 minute summer	4	540	218.306	0.757	7.0	5.9199	0.0000	SURCHARGED
960 minute summer	5	540	218.302	0.913	7.4	7.1045	0.0000	FLOOD RISK
960 minute summer	6	645	217.983	0.765	8.6	41.8620	0.0000	FLOOD RISK
960 minute summer	7	645	217.981	0.891	8.4	4.0411	0.0000	SURCHARGED
960 minute summer	13	585	219.118	0.454	1.5	0.3061	0.0000	SURCHARGED
960 minute summer	14	585	219.117	0.604	2.0	1.7336	0.0000	SURCHARGED
960 minute summer	20	585	219.116	0.641	0.2	0.1917	0.0000	SURCHARGED
960 minute summer	21	585	219.116	0.725	0.4	1.3374	0.0000	SURCHARGED
960 minute summer	15	585	219.116	0.814	1.9	4.4500	0.0000	SURCHARGED
960 minute summer	16	585	219.114	1.078	2.1	5.3525	0.0000	SURCHARGED
960 minute summer	17	585	219.111	1.291	2.6	6.5822	0.0000	SURCHARGED
960 minute summer	18	630	217.982	0.493	4.9	2.7605	0.0000	SURCHARGED
960 minute summer	19	630	217.981	0.676	5.9	2.6311	0.0000	SURCHARGED
960 minute summer	8	645	217.979	1.132	14.3	24.1625	0.0000	FLOOD RISK
960 minute summer	9	555	217.516	0.761	8.8	1.6562	0.0000	SURCHARGED
960 minute summer	22	15	218.616	0.000	0.0	0.0000	0.0000	OK
960 minute summer	23	495	218.243	0.275	1.4	0.4394	0.0000	SURCHARGED
960 minute summer	24	600	217.586	0.273	3.2	0.4525	0.0000	SURCHARGED
960 minute summer	25	600	217.583	1.337	5.7	11.3485	0.0000	FLOOD RISK
960 minute summer	28	645	215.639	0.038	2.0	0.0425	0.0000	OK
960 minute summer	26	645	217.551	1.472	5.1	21.1734	0.0000	FLOOD RISK
960 minute summer	27	645	217.551	1.056	1.7	6.9156	0.0000	FLOOD RISK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
960 minute summer	1	1.000	2	0.0	0.000	0.000	0.0378	
960 minute summer	2	1.001	3	1.6	0.155	0.083	0.3021	
960 minute summer	3	Orifice	4	2.9				
960 minute summer	4	1.003	5	6.1	0.239	0.176	1.4353	
960 minute summer	5	Orifice	6	6.0				
960 minute summer	6	1.005	7	6.8	0.582	0.196	1.1469	
960 minute summer	7	1.006	8	8.1	0.210	0.158	1.0030	
960 minute summer	13	2.000	14	1.4	0.440	0.095	0.3981	
960 minute summer	14	2.001	15	1.7	0.420	0.116	0.5573	
960 minute summer	20	3.000	21	0.1	0.153	0.007	0.2211	
960 minute summer	21	3.001	15	0.3	0.170	0.021	0.2363	
960 minute summer	15	2.002	16	1.4	0.367	0.094	0.7028	
960 minute summer	16	2.003	17	1.6	0.140	0.113	0.5717	
960 minute summer	17	Orifice	18	2.1				
960 minute summer	18	2.005	19	4.7	0.608	0.110	1.0970	
960 minute summer	19	2.006	8	5.7	0.155	0.110	1.8341	
960 minute summer	8	Orifice	9	8.2				
960 minute summer	9	1.008	10	8.5	0.392	0.201	0.5293	
960 minute summer	22	4.000	23	0.0	0.000	0.000	0.2803	
960 minute summer	23	Orifice	24	1.3				
960 minute summer	24	4.002	25	3.1	0.698	0.122	0.8546	
960 minute summer	25	Orifice	26	3.9				
960 minute summer	28	4.005	OUTFALL2	2.0	0.477	0.056	0.0267	107.1
960 minute summer	26	Hydro-Brake®	28	2.0				
960 minute summer	27	5.001	26	-1.5	-0.088	-0.114	1.0194	

Results for 100 year +30% CC 960 minute summer. 1200 minute analysis at 15 minute timestep. Mass balance: 99.74%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
960 minute summer	10	555	217.512	0.846	8.9	4.1767	0.0000	FLOOD RISK
960 minute summer	11	990	216.702	0.091	8.5	0.0257	0.0000	OK
960 minute summer	OUTFALL1	990	216.662	0.082	8.5	0.0000	0.0000	OK
960 minute summer	12	645	217.551	0.987	0.2	0.2795	0.0000	FLOOD RISK
960 minute summer	OUTFALL2	645	215.607	0.035	2.0	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
960 minute summer	10	Hydro-Brake®	11	8.5				
960 minute summer	11	1.010	OUTFALL1	8.5	0.809	0.583	0.0480	372.0
960 minute summer	12	5.000	27	-0.2	-0.024	-0.014	0.2066	

Results for 100 year +30% CC 960 minute winter. 1200 minute analysis at 15 minute timestep. Mass balance: 99.62%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
960 minute winter	1	15	218.710	0.000	0.0	0.0000	0.0000	OK
960 minute winter	2	480	218.525	0.025	1.2	0.0273	0.0000	OK
960 minute winter	3	540	218.404	0.261	2.4	0.5440	0.0000	SURCHARGED
960 minute winter	4	555	218.259	0.710	5.4	5.3072	0.0000	SURCHARGED
960 minute winter	5	555	218.255	0.866	5.9	5.1233	0.0000	FLOOD RISK
960 minute winter	6	675	217.996	0.778	7.5	47.5715	0.0000	FLOOD RISK
960 minute winter	7	675	217.994	0.904	7.2	4.1083	0.0000	SURCHARGED
960 minute winter	13	630	219.152	0.488	1.1	0.3291	0.0000	SURCHARGED
960 minute winter	14	630	219.151	0.638	1.5	1.8499	0.0000	SURCHARGED
960 minute winter	20	630	219.150	0.675	0.2	0.2019	0.0000	SURCHARGED
960 minute winter	21	630	219.150	0.759	0.3	1.4066	0.0000	SURCHARGED
960 minute winter	15	630	219.150	0.848	1.7	4.6697	0.0000	SURCHARGED
960 minute winter	16	630	219.148	1.112	1.9	5.5509	0.0000	SURCHARGED
960 minute winter	17	630	219.145	1.325	2.4	6.9908	0.0000	FLOOD RISK
960 minute winter	18	660	217.995	0.506	4.2	2.8670	0.0000	SURCHARGED
960 minute winter	19	660	217.994	0.689	4.9	2.6951	0.0000	SURCHARGED
960 minute winter	8	675	217.992	1.145	12.0	25.3733	0.0000	FLOOD RISK
960 minute winter	9	615	217.521	0.766	8.6	1.6696	0.0000	SURCHARGED
960 minute winter	22	15	218.616	0.000	0.0	0.0000	0.0000	OK
960 minute winter	23	525	218.138	0.170	1.0	0.2131	0.0000	SURCHARGED
960 minute winter	24	660	217.621	0.308	2.4	0.5458	0.0000	SURCHARGED
960 minute winter	25	660	217.619	1.373	4.3	12.8917	0.0000	FLOOD RISK
960 minute winter	28	690	215.639	0.038	2.0	0.0427	0.0000	OK
960 minute winter	26	690	217.589	1.511	4.1	23.8651	0.0000	FLOOD RISK
960 minute winter	27	690	217.589	1.095	1.2	7.3260	0.0000	FLOOD RISK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
960 minute winter	1	1.000	2	0.0	0.000	0.000	0.0309	
960 minute winter	2	1.001	3	1.2	0.155	0.062	0.2955	
960 minute winter	3	Orifice	4	2.4				
960 minute winter	4	1.003	5	5.0	0.239	0.144	1.4353	
960 minute winter	5	Orifice	6	5.5				
960 minute winter	6	1.005	7	6.1	0.589	0.178	1.1469	
960 minute winter	7	1.006	8	7.0	0.220	0.137	1.0030	
960 minute winter	13	2.000	14	1.1	0.419	0.076	0.3981	
960 minute winter	14	2.001	15	1.4	0.420	0.096	0.5573	
960 minute winter	20	3.000	21	0.1	0.153	0.007	0.2211	
960 minute winter	21	3.001	15	0.3	0.170	0.021	0.2363	
960 minute winter	15	2.002	16	1.4	0.379	0.094	0.7028	
960 minute winter	16	2.003	17	1.7	0.128	0.120	0.5717	
960 minute winter	17	Orifice	18	2.2				
960 minute winter	18	2.005	19	4.1	0.599	0.096	1.0970	
960 minute winter	19	2.006	8	4.8	0.152	0.092	1.8341	
960 minute winter	8	Orifice	9	8.1				
960 minute winter	9	1.008	10	8.5	0.390	0.200	0.5293	
960 minute winter	22	4.000	23	0.0	0.000	0.000	0.2803	
960 minute winter	23	Orifice	24	1.0				
960 minute winter	24	4.002	25	2.4	0.677	0.093	0.8546	
960 minute winter	25	Orifice	26	3.2				
960 minute winter	28	4.005	OUTFALL2	2.0	0.478	0.056	0.0269	114.1
960 minute winter	26	Hydro-Brake®	28	2.0				
960 minute winter	27	5.001	26	-1.0	-0.058	-0.075	1.0194	

Results for 100 year +30% CC 960 minute winter. 1200 minute analysis at 15 minute timestep. Mass balance: 99.62%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
960 minute winter	10	615	217.517	0.850	8.8	4.2317	0.0000	FLOOD RISK
960 minute winter	11	405	216.702	0.091	8.5	0.0257	0.0000	OK
960 minute winter	OUTFALL1	405	216.662	0.082	8.5	0.0000	0.0000	OK
960 minute winter	12	690	217.589	1.026	0.2	0.2904	0.0000	FLOOD RISK
960 minute winter	OUTFALL2	690	215.607	0.036	2.0	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
960 minute winter	10	Hydro-Brake®	11	8.5				
960 minute winter	11	1.010	OUTFALL1	8.5	0.809	0.583	0.0480	418.6
960 minute winter	12	5.000	27	-0.2	-0.030	-0.015	0.2066	

Results for 100 year +30% CC 1440 minute summer. 1680 minute analysis at 30 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
1440 minute summer	1	30	218.710	0.000	0.0	0.0000	0.0000	OK
1440 minute summer	2	750	218.526	0.026	1.3	0.0286	0.0000	OK
1440 minute summer	3	750	218.380	0.237	2.6	0.4624	0.0000	SURCHARGED
1440 minute summer	4	780	218.234	0.685	5.6	5.0046	0.0000	SURCHARGED
1440 minute summer	5	780	218.230	0.841	5.8	4.5435	0.0000	FLOOD RISK
1440 minute summer	6	900	217.966	0.748	7.4	34.1870	0.0000	FLOOD RISK
1440 minute summer	7	900	217.965	0.874	7.0	3.9534	0.0000	SURCHARGED
1440 minute summer	13	840	219.015	0.351	1.2	0.2371	0.0000	SURCHARGED
1440 minute summer	14	840	219.015	0.502	1.7	1.3807	0.0000	SURCHARGED
1440 minute summer	20	840	219.014	0.539	0.2	0.1611	0.0000	SURCHARGED
1440 minute summer	21	840	219.014	0.623	0.3	1.1292	0.0000	SURCHARGED
1440 minute summer	15	840	219.014	0.712	1.7	3.7938	0.0000	SURCHARGED
1440 minute summer	16	840	219.012	0.976	1.9	4.7550	0.0000	SURCHARGED
1440 minute summer	17	840	219.009	1.188	2.3	6.0024	0.0000	SURCHARGED
1440 minute summer	18	900	217.965	0.476	4.2	2.6324	0.0000	SURCHARGED
1440 minute summer	19	900	217.964	0.659	4.9	2.5485	0.0000	SURCHARGED
1440 minute summer	8	900	217.962	1.115	11.9	22.5882	0.0000	FLOOD RISK
1440 minute summer	9	870	217.502	0.747	8.7	1.6191	0.0000	SURCHARGED
1440 minute summer	22	30	218.616	0.000	0.0	0.0000	0.0000	OK
1440 minute summer	23	750	218.165	0.197	1.1	0.2643	0.0000	SURCHARGED
1440 minute summer	24	870	217.554	0.241	2.5	0.3745	0.0000	SURCHARGED
1440 minute summer	25	870	217.552	1.306	4.4	9.9752	0.0000	FLOOD RISK
1440 minute summer	28	930	215.638	0.037	2.0	0.0423	0.0000	OK
1440 minute summer	26	930	217.524	1.446	4.1	19.3289	0.0000	FLOOD RISK
1440 minute summer	27	930	217.524	1.030	1.3	6.6349	0.0000	FLOOD RISK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
1440 minute summer	1	1.000	2	0.0	0.000	0.000	0.0327	
1440 minute summer	2	1.001	3	1.3	0.152	0.067	0.2972	
1440 minute summer	3	Orifice	4	2.5				
1440 minute summer	4	1.003	5	4.8	0.237	0.139	1.4353	
1440 minute summer	5	Orifice	6	5.5				
1440 minute summer	6	1.005	7	5.8	0.584	0.169	1.1469	
1440 minute summer	7	1.006	8	6.7	0.203	0.132	1.0030	
1440 minute summer	13	2.000	14	1.2	0.419	0.083	0.3981	
1440 minute summer	14	2.001	15	1.4	0.420	0.096	0.5573	
1440 minute summer	20	3.000	21	0.1	0.153	0.007	0.2211	
1440 minute summer	21	3.001	15	0.3	0.172	0.021	0.2363	
1440 minute summer	15	2.002	16	1.4	0.367	0.094	0.7028	
1440 minute summer	16	2.003	17	1.6	0.118	0.112	0.5717	
1440 minute summer	17	Orifice	18	2.1				
1440 minute summer	18	2.005	19	4.0	0.597	0.094	1.0970	
1440 minute summer	19	2.006	8	4.8	0.152	0.092	1.8341	
1440 minute summer	8	Orifice	9	8.2				
1440 minute summer	9	1.008	10	8.5	0.389	0.200	0.5293	
1440 minute summer	22	4.000	23	0.0	0.000	0.000	0.2803	
1440 minute summer	23	Orifice	24	1.1				
1440 minute summer	24	4.002	25	2.4	0.672	0.094	0.8546	
1440 minute summer	25	Orifice	26	3.2				
1440 minute summer	28	4.005	OUTFALL2	2.0	0.476	0.055	0.0265	125.5
1440 minute summer	26	Hydro-Brake®	28	2.0				
1440 minute summer	27	5.001	26	-1.1	-0.062	-0.080	1.0194	

Results for 100 year +30% CC 1440 minute summer. 1680 minute analysis at 30 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
1440 minute summer	10	870	217.498	0.832	8.8	4.0126	0.0000	FLOOD RISK
1440 minute summer	11	690	216.702	0.091	8.4	0.0256	0.0000	OK
1440 minute summer	OUTFALL1	690	216.662	0.082	8.4	0.0000	0.0000	OK
1440 minute summer	12	930	217.524	0.961	0.2	0.2719	0.0000	FLOOD RISK
1440 minute summer	OUTFALL2	930	215.606	0.035	2.0	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
1440 minute summer	10	Hydro-Brake®	11	8.4				
1440 minute summer	11	1.010	OUTFALL1	8.4	0.808	0.579	0.0478	431.6
1440 minute summer	12	5.000	27	-0.2	-0.013	-0.016	0.2066	