

Node OUT 1 Surcharged Outfall

Overrides Design Area	x	Depression Storage Area (m ²)	0	Evapo-transpiration (mm/day)	0
Overrides Design Additional Inflow	x	Depression Storage Depth (mm)	0		
Applies to 30yr, 100yr+40% CC					

Time (mins)	Depth (m)	Time (mins)	Depth (m)	Time (mins)	Depth (m)	Time (mins)	Depth (m)
0	1.200	20	1.200	40	1.200	60	1.200
10	1.200	30	1.200	50	1.200		

Results for 30 year Critical Storm Duration. Lowest mass balance: 99.13%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	1	10	46.465	0.065	7.5	0.0352	0.0000	OK
15 minute winter	2	10	46.282	0.082	10.1	0.0313	0.0000	OK
15 minute winter	3	11	46.162	0.082	11.1	0.0272	0.0000	OK
15 minute winter	4	11	45.701	0.051	11.1	0.0143	0.0000	OK
15 minute winter	5	12	45.466	0.536	36.4	0.8439	0.0000	SURCHARGED
15 minute winter	7	10	46.366	0.046	4.8	0.0237	0.0000	OK
15 minute winter	8	10	46.089	0.069	7.4	0.0323	0.0000	OK
15 minute winter	9	12	45.560	0.310	10.0	0.1164	0.0000	SURCHARGED
15 minute winter	9A	12	45.521	0.456	12.2	0.1801	0.0000	SURCHARGED
60 minute winter	10	47	45.127	0.347	3.8	0.4672	0.0000	SURCHARGED
60 minute winter	TANK	47	45.126	0.426	23.2	23.1653	0.0000	SURCHARGED
60 minute winter	FCC 1	47	45.123	0.443	8.9	0.5933	0.0000	SURCHARGED
60 minute winter	C1	47	44.196	0.036	8.8	0.0405	0.0000	OK
60 minute winter	OUT 1	47	43.190	0.035	8.8	0.0000	0.0000	OK
15 minute winter	11	13	46.528	0.078	3.9	0.0369	0.0000	OK
15 minute winter	12	14	46.525	0.265	10.2	0.0749	0.0000	SURCHARGED
15 minute winter	13	13	46.517	0.417	12.3	0.2584	0.0000	SURCHARGED
15 minute winter	14	13	46.501	0.461	16.6	0.2584	0.0000	SURCHARGED
15 minute winter	FCC 2	16	46.387	1.177	21.3	3.0897	0.0000	SURCHARGED
15 minute summer	OUT 2	1	45.000	0.000	9.0	0.0000	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute winter	1	1.000	2	7.4	0.864	0.379	0.1422	
15 minute winter	2	1.001	3	9.9	1.012	0.508	0.0973	
15 minute winter	3	1.002	4	11.1	1.476	0.502	0.2104	
15 minute winter	4	1.003	5	11.2	0.823	0.244	0.1263	
15 minute winter	5	1.004	TANK	33.7	1.913	1.335	0.2021	
15 minute winter	7	2.000	8	4.7	0.761	0.205	0.1109	
15 minute winter	8	2.001	9	7.3	0.984	0.360	0.0343	
15 minute winter	9	2.002	9A	8.8	0.889	0.440	0.2583	
15 minute winter	9A	2.003	5	11.2	0.636	0.574	0.1974	
60 minute winter	10	3.000	TANK	3.3	0.633	0.237	0.2226	
60 minute winter	TANK	1.006	FCC 1	8.4	0.212	0.338	0.3396	
60 minute winter	FCC 1	1.007	C1	8.8	1.662	0.076	0.0487	
60 minute winter	C1	1.008	OUT 1	8.8	1.892	0.029	0.0624	43.2
15 minute winter	11	4.000	12	3.8	0.702	0.265	0.3827	
15 minute winter	12	4.001	13	-6.4	-0.401	-0.441	0.4202	
15 minute winter	13	4.002	14	10.2	0.874	0.715	0.1641	
15 minute winter	14	4.003	FCC 2	14.6	0.925	0.552	0.6609	
15 minute winter	FCC 2	Hydro-Brake®	OUT 2	9.0				12.5

Results for 100 year +40% CC Critical Storm Duration. Lowest mass balance: 99.13%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	1	13	46.588	0.188	13.5	0.1016	0.0000	SURCHARGED
15 minute winter	2	13	46.545	0.345	18.3	0.1320	0.0000	SURCHARGED
15 minute winter	3	13	46.488	0.408	19.9	0.1349	0.0000	SURCHARGED
15 minute winter	4	13	46.304	0.654	17.6	0.1852	0.0000	SURCHARGED
15 minute winter	5	12	46.229	1.299	53.6	2.0480	0.0000	SURCHARGED
15 minute winter	7	13	46.442	0.122	8.6	0.0631	0.0000	OK
15 minute winter	8	13	46.427	0.407	13.4	0.1899	0.0000	SURCHARGED
15 minute winter	9	13	46.410	1.160	16.5	0.4351	0.0000	SURCHARGED
15 minute winter	9A	12	46.334	1.269	18.2	0.5013	0.0000	SURCHARGED
60 minute winter	10	59	45.638	0.858	7.0	1.1559	0.0000	SURCHARGED
60 minute winter	TANK	59	45.638	0.938	40.6	50.9475	0.0000	SURCHARGED
60 minute winter	FCC 1	59	45.635	0.955	9.8	1.2780	0.0000	SURCHARGED
30 minute winter	C1	21	44.196	0.036	8.9	0.0408	0.0000	OK
15 minute summer	OUT 1	17	43.190	0.035	8.9	0.0000	0.0000	OK
15 minute winter	11	13	47.228	0.778	7.0	0.3697	0.0000	SURCHARGED
15 minute winter	12	13	47.208	0.948	15.3	0.2683	0.0000	SURCHARGED
15 minute winter	13	13	47.186	1.086	16.3	0.6730	0.0000	SURCHARGED
15 minute winter	14	13	47.107	1.067	23.0	0.5975	0.0000	SURCHARGED
30 minute winter	FCC 2	29	46.543	1.333	29.5	12.6974	0.0000	FLOOD RISK
15 minute summer	OUT 2	1	45.000	0.000	9.0	0.0000	0.0000	OK
Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute winter	1	1.000	2	13.4	0.951	0.687	0.2919	
15 minute winter	2	1.001	3	17.7	1.131	0.904	0.1747	
15 minute winter	3	1.002	4	17.6	1.529	0.795	0.4911	
15 minute winter	4	1.003	5	15.0	0.917	0.328	0.1949	
15 minute winter	5	1.004	TANK	49.2	2.796	1.951	0.2021	
15 minute winter	7	2.000	8	8.5	0.858	0.368	0.2921	
15 minute winter	8	2.001	9	11.9	1.098	0.587	0.0815	
15 minute winter	9	2.002	9A	12.3	0.861	0.618	0.2583	
15 minute winter	9A	2.003	5	16.3	0.925	0.835	0.1974	
60 minute winter	10	3.000	TANK	6.1	0.731	0.431	0.2226	
60 minute winter	TANK	1.006	FCC 1	8.7	0.219	0.349	0.3396	
60 minute winter	FCC 1	1.007	C1	8.9	1.668	0.077	0.0492	
30 minute winter	C1	1.008	OUT 1	8.9	1.899	0.029	0.0630	62.0
15 minute winter	11	4.000	12	6.3	0.770	0.433	0.5024	
15 minute winter	12	4.001	13	-9.0	-0.513	-0.623	0.4202	
15 minute winter	13	4.002	14	14.0	0.895	0.985	0.1641	
15 minute winter	14	4.003	FCC 2	21.6	1.229	0.816	0.6609	
30 minute winter	FCC 2	Hydro-Brake®	OUT 2	9.0				29.8