



Design Settings

Rainfall Methodology	FSR	Maximum Time of Concentration (mins)	30.00
Return Period (years)	2	Maximum Rainfall (mm/hr)	50.0
Additional Flow (%)	0	Minimum Velocity (m/s)	1.00
FSR Region	England and Wales	Connection Type	Level Soffits
M5-60 (mm)	20.000	Minimum Backdrop Height (m)	0.200
Ratio-R	0.400	Preferred Cover Depth (m)	1.200
CV	0.750	Include Intermediate Ground	✓
Time of Entry (mins)	5.00	Enforce best practice design rules	✓

Simulation Settings

Rainfall Methodology	FEH-99	E (1km)	0.325	Skip Steady State	x
C (1km)	-0.029	F (1km)	2.408	Drain Down Time (mins)	60
D1 (1km)	0.341	Summer CV	1.000	Additional Storage (m³/ha)	20.0
D2 (1km)	0.297	Winter CV	1.000	Check Discharge Rate(s)	x
D3 (1km)	0.303	Analysis Speed	Normal	Check Discharge Volume	x

Storm Durations

60	120	180	240	360	480	600	720	960	1440
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Return Period (years)	Climate Change (CC %)	Additional Area (A %)	Additional Flow (Q %)
2	0	0	0
30	0	0	0
100	40	0	0
100	40	5	0

Node 10 Online Orifice Control

Flap Valve	x	Design Depth (m)	5.000	Discharge Coefficient	0.600
Replaces Downstream Link	✓	Design Flow (l/s)	0.1		
Invert Level (m)	90.100	Diameter (m)	0.004		

Node 26 Online Orifice Control

Flap Valve	x	Design Depth (m)	5.000	Discharge Coefficient	0.600
Replaces Downstream Link	✓	Design Flow (l/s)	0.1		
Invert Level (m)	87.455	Diameter (m)	0.004		

Node 47 Online Orifice Control

Flap Valve	x	Design Depth (m)	5.000	Discharge Coefficient	0.600
Replaces Downstream Link	✓	Design Flow (l/s)	0.1		
Invert Level (m)	99.970	Diameter (m)	0.004		

Node 81 Online Orifice Control

Flap Valve	x	Design Depth (m)	5.000	Discharge Coefficient	0.600
Replaces Downstream Link	✓	Design Flow (l/s)	0.1		
Invert Level (m)	121.105	Diameter (m)	0.004		



Node 108 Online Orifice Control

Flap Valve	x	Design Depth (m)	5.000	Discharge Coefficient	0.600
Replaces Downstream Link	✓	Design Flow (l/s)	0.1		
Invert Level (m)	115.780	Diameter (m)	0.004		

Node 102 Online Hydro-Brake® Control

Flap Valve	x	Objective	(HE) Minimise upstream storage
Replaces Downstream Link	✓	Sump Available	✓
Invert Level (m)	119.295	Product Number	CTL-SHE-0326-6700-1600-6700
Design Depth (m)	1.600	Min Outlet Diameter (m)	0.375
Design Flow (l/s)	67.0	Min Node Diameter (mm)	2100

Node 10 Depth/Area Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Safety Factor	2.0	Invert Level (m)	90.100
Side Inf Coefficient (m/hr)	0.00000	Porosity	1.00	Time to half empty (mins)	

Depth (m)	Area (m ²)	Inf Area (m ²)	Depth (m)	Area (m ²)	Inf Area (m ²)
0.000	162.0	0.0	1.600	502.0	0.0

Node 10 Depth/Area Storage Structure

Base Inf Coefficient (m/hr)	0.23400	Safety Factor	2.0	Invert Level (m)	89.690
Side Inf Coefficient (m/hr)	0.23400	Porosity	0.95	Time to half empty (mins)	

Depth (m)	Area (m ²)	Inf Area (m ²)	Depth (m)	Area (m ²)	Inf Area (m ²)	Depth (m)	Area (m ²)	Inf Area (m ²)
0.000	340.0	340.0	2.000	340.0	340.0	2.010	0.0	340.0

Node 26 Depth/Area Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Safety Factor	2.0	Invert Level (m)	87.455
Side Inf Coefficient (m/hr)	0.00000	Porosity	1.00	Time to half empty (mins)	

Depth (m)	Area (m ²)	Inf Area (m ²)	Depth (m)	Area (m ²)	Inf Area (m ²)
0.000	80.0	0.0	1.600	351.0	0.0

Node 26 Depth/Area Storage Structure

Base Inf Coefficient (m/hr)	0.23400	Safety Factor	2.0	Invert Level (m)	87.045
Side Inf Coefficient (m/hr)	0.23400	Porosity	0.95	Time to half empty (mins)	

Depth (m)	Area (m ²)	Inf Area (m ²)	Depth (m)	Area (m ²)	Inf Area (m ²)	Depth (m)	Area (m ²)	Inf Area (m ²)
0.000	51.5	51.5	1.600	51.5	51.5	1.601	0.0	51.5

Node 25 Depth/Area Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Safety Factor	2.0	Invert Level (m)	87.520
Side Inf Coefficient (m/hr)	0.00000	Porosity	0.95	Time to half empty (mins)	



Depth (m)	Area (m ²)	Inf Area (m ²)	Depth (m)	Area (m ²)	Inf Area (m ²)	Depth (m)	Area (m ²)	Inf Area (m ²)
0.000	55.0	0.0	0.800	55.0	0.0	0.801	0.0	0.0

Node 47 Depth/Area Storage Structure

Base Inf Coefficient (m/hr)	1.46500	Safety Factor	2.0	Invert Level (m)	99.970
Side Inf Coefficient (m/hr)	1.46500	Porosity	1.00	Time to half empty (mins)	44

Depth (m)	Area (m ²)	Inf Area (m ²)	Depth (m)	Area (m ²)	Inf Area (m ²)
0.000	682.0	682.0	1.600	1715.0	1443.0

Node 81 Depth/Area Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Safety Factor	2.0	Invert Level (m)	121.105
Side Inf Coefficient (m/hr)	0.00000	Porosity	1.00	Time to half empty (mins)	

Depth (m)	Area (m ²)	Inf Area (m ²)	Depth (m)	Area (m ²)	Inf Area (m ²)
0.000	1657.0	0.0	1.600	2637.0	0.0

Node 81 Deep Bore Soakaway Storage Structure

Base Inf Coefficient (m/hr)	12.00000	Invert Level (m)	121.105	Borehole Diameter	0.300
Side Inf Coefficient (m/hr)	12.00000	Time to half empty (mins)		Borehole Depth (m)	12.000
Safety Factor	2.0	Diameter (m)	3.000	Inf Depth (m)	12.000
Porosity	1.00	Depth (m)	2.000	Number Required	3

Node 108 Depth/Area Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Safety Factor	2.0	Invert Level (m)	115.780
Side Inf Coefficient (m/hr)	0.00000	Porosity	1.00	Time to half empty (mins)	

Depth (m)	Area (m ²)	Inf Area (m ²)	Depth (m)	Area (m ²)	Inf Area (m ²)
0.000	1563.0	0.0	1.600	2437.0	0.0

Node 108 Deep Bore Soakaway Storage Structure

Base Inf Coefficient (m/hr)	12.00000	Invert Level (m)	115.780	Borehole Diameter	0.300
Side Inf Coefficient (m/hr)	12.00000	Time to half empty (mins)		Borehole Depth (m)	12.000
Safety Factor	2.0	Diameter (m)	3.000	Inf Depth (m)	12.000
Porosity	1.00	Depth (m)	2.000	Number Required	3

Node 102 Depth/Area Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Safety Factor	2.0	Invert Level (m)	119.295
Side Inf Coefficient (m/hr)	0.00000	Porosity	0.95	Time to half empty (mins)	

Depth (m)	Area (m ²)	Inf Area (m ²)	Depth (m)	Area (m ²)	Inf Area (m ²)	Depth (m)	Area (m ²)	Inf Area (m ²)
0.000	500.0	0.0	1.600	500.0	0.0	1.601	0.0	0.0



Results for 2 year Critical Storm Duration. Lowest mass balance: 99.86%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute summer	54	33	124.214	0.044	10.6	0.1055	0.0000	OK
60 minute summer	55	33	122.632	0.047	12.3	0.0625	0.0000	OK
60 minute summer	63	33	121.743	0.043	4.5	0.0700	0.0000	OK
60 minute summer	56	33	121.508	0.058	22.7	0.1011	0.0000	OK
60 minute summer	57	33	119.417	0.067	26.7	0.1040	0.0000	OK
60 minute summer	58	33	118.658	0.063	28.7	0.1030	0.0000	OK
60 minute summer	59	33	118.032	0.072	37.9	0.1708	0.0000	OK
60 minute summer	60	33	115.400	0.080	55.2	0.2561	0.0000	OK
60 minute summer	61	33	112.823	0.093	68.4	0.2597	0.0000	OK
60 minute summer	62	33	111.727	0.097	72.9	0.1853	0.0000	OK
60 minute summer	50	33	124.681	0.061	11.3	0.1514	0.0000	OK
60 minute summer	51	33	124.143	0.073	20.0	0.1540	0.0000	OK
60 minute summer	52	33	123.546	0.081	29.4	0.1954	0.0000	OK
60 minute summer	33	33	125.601	0.076	11.6	0.1880	0.0000	OK
60 minute summer	34	33	125.404	0.079	21.6	0.1823	0.0000	OK
60 minute summer	35	33	124.222	0.077	33.4	0.1883	0.0000	OK
60 minute summer	36	33	122.415	0.105	75.2	0.2802	0.0000	OK
60 minute summer	53	33	121.726	0.051	7.8	0.1030	0.0000	OK
60 minute summer	37	33	120.709	0.099	87.8	0.1806	0.0000	OK
60 minute summer	38	33	119.618	0.083	87.6	0.1187	0.0000	OK
60 minute summer	39	33	112.238	0.113	97.7	0.2854	0.0000	OK
60 minute summer	40	33	110.487	0.142	174.8	0.3129	0.0000	OK
60 minute summer	41	33	109.175	0.120	186.1	0.3394	0.0000	OK
60 minute summer	64	33	112.630	0.030	4.7	0.0498	0.0000	OK
60 minute summer	65	33	111.331	0.060	21.0	0.1649	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)
60 minute summer	54	1.000	55	10.6	1.846	0.084	0.1562	
60 minute summer	55	1.001	56	12.3	2.095	0.090	0.0918	
60 minute summer	63	2.000	56	4.5	0.861	0.077	0.0726	
60 minute summer	56	1.002	57	22.7	2.121	0.084	0.3824	
60 minute summer	57	1.003	58	26.7	2.366	0.098	0.1299	
60 minute summer	58	1.004	59	28.7	2.141	0.058	0.1412	
60 minute summer	59	1.005	60	37.8	2.617	0.078	0.6382	
60 minute summer	60	1.006	61	55.1	2.604	0.070	0.9345	
60 minute summer	61	1.007	62	68.3	2.807	0.087	0.4603	
60 minute summer	62	1.008	40	72.7	3.023	0.093	0.4655	
60 minute summer	50	3.000	51	11.3	1.325	0.154	0.2038	
60 minute summer	51	3.001	52	20.0	1.558	0.122	0.3133	
60 minute summer	52	3.002	36	29.3	1.380	0.104	1.2368	
60 minute summer	33	4.000	34	11.6	0.960	0.235	0.2671	
60 minute summer	34	4.001	35	21.5	1.766	0.255	0.5127	
60 minute summer	35	4.002	36	33.4	2.403	0.137	0.5145	
60 minute summer	36	3.003	37	75.0	3.097	0.160	0.7599	
60 minute summer	53	5.000	37	7.7	1.165	0.110	0.3350	
60 minute summer	37	3.004	38	87.6	4.270	0.115	0.1545	
60 minute summer	38	3.005	39	87.5	3.826	0.110	1.0898	
60 minute summer	39	3.006	40	97.3	3.660	0.176	0.5447	
60 minute summer	40	1.009	41	174.6	3.847	0.104	0.9969	
60 minute summer	41	1.010	42	185.7	3.599	0.092	1.4758	
60 minute summer	64	6.000	65	4.7	1.503	0.038	0.0685	
60 minute summer	65	6.001	66	21.0	1.338	0.090	0.6730	



Results for 2 year Critical Storm Duration. Lowest mass balance: 99.86%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute summer	66	33	109.540	0.105	29.9	0.1957	0.0000	OK
60 minute summer	67	33	109.202	0.087	42.1	0.2073	0.0000	OK
60 minute summer	68	33	107.199	0.184	56.4	0.5293	0.0000	OK
60 minute summer	69	34	107.052	0.182	62.6	0.3722	0.0000	OK
60 minute summer	42	34	106.782	0.182	257.3	0.4363	0.0000	OK
60 minute summer	43	34	104.482	0.137	270.1	0.3911	0.0000	OK
60 minute summer	70	33	105.303	0.078	16.1	0.2350	0.0000	OK
60 minute summer	71	33	104.289	0.069	31.0	0.1970	0.0000	OK
60 minute summer	72	33	100.610	0.130	45.0	0.3942	0.0000	OK
60 minute summer	73	33	100.509	0.239	49.4	0.4774	0.0000	OK
60 minute summer	12	33	100.506	0.296	50.1	0.5231	0.0000	OK
60 minute summer	44	33	100.504	0.408	330.9	1.1961	0.0000	OK
60 minute summer	46	33	100.405	0.379	335.9	1.0185	0.0000	OK
60 minute summer	47	41	100.122	0.152	339.7	111.6479	0.0000	OK
60 minute summer	48	56	99.696	0.005	0.0	0.0118	0.0000	OK
60 minute summer	49	56	99.661	0.000	0.0	0.0000	0.0000	OK
60 minute summer	96	33	124.164	0.064	14.1	0.1698	0.0000	OK
60 minute summer	97	33	123.407	0.097	31.6	0.3006	0.0000	OK
60 minute summer	98	33	122.590	0.110	41.9	0.2835	0.0000	OK
60 minute summer	99	33	122.352	0.167	55.5	0.4689	0.0000	OK
60 minute summer	110	33	123.841	0.040	5.0	0.0693	0.0000	OK
60 minute summer	111	33	123.264	0.063	11.3	0.1167	0.0000	OK
60 minute summer	112	33	122.939	0.089	17.7	0.1596	0.0000	OK
60 minute summer	113	33	122.689	0.079	25.5	0.1592	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)
60 minute summer	66	6.002	67	29.9	1.548	0.235	0.4724	
60 minute summer	67	6.003	68	42.0	2.211	0.185	0.9760	
60 minute summer	68	6.004	69	56.0	1.103	0.427	0.8239	
60 minute summer	69	6.005	42	62.6	1.082	0.321	1.8929	
60 minute summer	42	1.011	43	257.8	4.304	0.174	2.9378	
60 minute summer	43	1.012	44	270.6	4.120	0.119	3.1352	
60 minute summer	70	7.000	71	15.9	1.329	0.251	0.7511	
60 minute summer	71	7.001	72	30.9	2.543	0.115	0.7205	
60 minute summer	72	7.002	73	45.1	0.933	0.101	1.7300	
60 minute summer	73	7.003	12	50.1	0.609	0.081	1.8315	
60 minute summer	12	7.004	44	52.7	0.523	0.098	1.9819	
60 minute summer	44	1.013	46	333.5	1.494	0.468	4.9085	
60 minute summer	46	1.014	47	339.7	2.932	0.474	2.0220	
60 minute summer	47	Orifice	48	0.0				
60 minute summer	47	Infiltration		149.0				
60 minute summer	48	1.016	49	0.0	0.000	0.000	0.0046	0.0
60 minute summer	96	8.000	97	14.1	0.928	0.102	0.7911	
60 minute summer	97	8.001	98	31.3	1.620	0.218	0.8754	
60 minute summer	98	8.002	99	41.8	1.648	0.161	0.3346	
60 minute summer	99	8.003	100	55.2	0.931	0.297	4.0151	
60 minute summer	110	9.000	111	5.0	0.722	0.071	0.2306	
60 minute summer	111	9.001	112	11.3	1.266	0.161	0.1353	
60 minute summer	112	9.002	113	17.6	1.092	0.181	0.5021	
60 minute summer	113	9.003	100	25.4	1.780	0.139	0.2673	



Results for 2 year Critical Storm Duration. Lowest mass balance: 99.86%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute summer	100	34	122.154	0.194	89.9	0.4374	0.0000	OK
60 minute summer	101	34	122.006	0.131	104.0	0.3879	0.0000	OK
60 minute summer	114	33	121.374	0.074	26.3	0.3022	0.0000	OK
120 minute summer	102	78	119.535	0.240	105.8	115.4298	0.0000	OK
120 minute summer	103	76	119.097	0.087	47.7	0.2536	0.0000	OK
120 minute summer	104	74	118.731	0.071	50.8	0.1850	0.0000	OK
60 minute summer	132	33	123.648	0.048	15.1	0.1341	0.0000	OK
60 minute summer	133	33	121.056	0.116	22.4	0.2112	0.0000	OK
60 minute summer	134	33	120.936	0.066	25.6	0.0996	0.0000	OK
60 minute summer	135	33	119.612	0.062	32.1	0.1327	0.0000	OK
60 minute summer	136	33	118.592	0.087	33.3	0.1353	0.0000	OK
60 minute summer	137	33	118.029	0.144	47.6	0.4494	0.0000	OK
60 minute summer	138	34	117.926	0.160	48.1	0.2913	0.0000	OK
60 minute summer	123	33	124.111	0.061	13.3	0.1463	0.0000	OK
60 minute summer	124	33	123.619	0.054	18.5	0.0912	0.0000	OK
60 minute summer	131	33	122.027	0.027	2.8	0.0374	0.0000	OK
60 minute summer	125	33	121.040	0.070	34.2	0.1798	0.0000	OK
60 minute summer	126	33	120.146	0.076	40.2	0.1533	0.0000	OK
60 minute summer	127	33	119.309	0.064	42.7	0.1273	0.0000	OK
60 minute summer	128	34	117.891	0.166	101.9	0.4127	0.0000	OK
60 minute summer	139	33	121.907	0.037	7.2	0.0719	0.0000	OK
60 minute summer	140	33	120.320	0.060	28.7	0.2179	0.0000	OK
60 minute summer	141	33	118.400	0.090	37.8	0.2030	0.0000	OK
60 minute summer	142	34	117.464	0.184	147.9	0.4736	0.0000	OK
60 minute summer	28	34	117.208	0.138	156.3	0.3515	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)
60 minute summer	100	8.004	101	89.9	1.739	0.353	0.7103	
60 minute summer	101	8.005	102	104.1	2.758	0.182	2.9429	
60 minute summer	114	10.000	102	26.3	1.960	0.132	0.7142	
120 minute summer	102	Hydro-Brake®	103	44.3				
120 minute summer	103	8.007	104	47.7	2.057	0.030	0.2898	
120 minute summer	104	8.008	129	50.8	1.076	0.024	3.8521	
60 minute summer	132	11.000	133	15.1	0.978	0.056	0.7282	
60 minute summer	133	11.001	134	22.3	1.240	0.305	0.2922	
60 minute summer	134	11.002	135	25.6	2.268	0.102	0.2764	
60 minute summer	135	11.003	136	32.0	2.060	0.061	0.2407	
60 minute summer	136	11.004	137	33.2	1.791	0.107	0.3052	
60 minute summer	137	11.005	138	47.3	0.848	0.120	2.0318	
60 minute summer	138	11.006	128	48.4	0.783	0.119	0.7088	
60 minute summer	123	12.000	124	13.3	1.412	0.085	0.2317	
60 minute summer	124	12.001	125	18.5	2.185	0.069	0.3569	
60 minute summer	131	13.000	125	2.8	1.065	0.029	0.0635	
60 minute summer	125	12.002	126	34.2	2.062	0.051	0.3550	
60 minute summer	126	12.003	127	40.2	2.392	0.056	0.2555	
60 minute summer	127	12.004	128	42.6	2.438	0.032	0.3929	
60 minute summer	128	11.007	142	102.1	1.491	0.166	3.7944	
60 minute summer	139	14.000	140	7.2	1.721	0.057	0.1038	
60 minute summer	140	14.001	141	28.7	1.848	0.056	0.4684	
60 minute summer	141	14.002	142	37.8	1.907	0.120	0.6526	
60 minute summer	142	11.008	28	148.3	2.441	0.151	0.6322	
60 minute summer	28	11.009	129	156.5	2.123	0.120	2.2045	



Results for 2 year Critical Storm Duration. Lowest mass balance: 99.86%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute summer	129	34	116.321	0.321	205.5	0.7189	0.0000	OK
60 minute summer	130	34	116.229	0.299	205.8	0.5280	0.0000	OK
60 minute summer	117	33	121.981	0.061	10.3	0.1430	0.0000	OK
60 minute summer	122	33	120.909	0.089	20.5	0.2022	0.0000	OK
60 minute summer	118	33	120.777	0.072	31.8	0.1729	0.0000	OK
60 minute summer	119	33	116.943	0.188	48.8	0.5180	0.0000	OK
60 minute summer	120	33	116.825	0.175	52.9	0.3130	0.0000	OK
60 minute summer	105	34	116.734	0.164	52.7	0.2344	0.0000	OK
60 minute summer	45	33	118.157	0.037	9.0	0.0753	0.0000	OK
60 minute summer	106	33	116.678	0.133	82.1	0.3517	0.0000	OK
60 minute winter	107	15	116.141	0.211	59.7	0.3013	0.0000	OK
180 minute summer	108	136	115.924	0.144	168.8	236.5039	0.0000	OK
60 minute summer	109	1	115.505	0.000	0.0	0.0000	0.0000	OK
60 minute summer	74	33	125.670	0.070	10.2	0.1602	0.0000	OK
60 minute summer	75	33	125.385	0.085	15.3	0.1547	0.0000	OK
60 minute summer	76	33	125.256	0.131	62.3	0.6656	0.0000	OK
60 minute summer	83	33	124.674	0.074	12.9	0.1905	0.0000	OK
60 minute summer	77	33	124.255	0.130	90.6	0.3398	0.0000	OK
60 minute summer	84	33	124.606	0.061	9.7	0.1388	0.0000	OK
60 minute summer	85	33	124.229	0.084	22.1	0.2096	0.0000	OK
60 minute summer	86	33	123.364	0.098	43.7	0.3817	0.0000	OK
60 minute summer	78	33	122.677	0.147	155.6	0.5502	0.0000	OK
60 minute summer	79	34	121.638	0.288	168.3	0.8515	0.0000	OK
60 minute summer	80	33	121.474	0.294	168.3	0.5201	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)
60 minute summer	129	8.009	130	205.8	1.342	0.377	3.2726	
60 minute summer	130	8.010	108	208.7	2.710	0.301	2.3144	
60 minute summer	117	15.000	122	10.1	1.179	0.159	0.5853	
60 minute summer	122	15.001	118	20.5	1.356	0.160	0.1315	
60 minute summer	118	15.002	119	31.7	1.963	0.127	1.4457	
60 minute summer	119	15.003	120	48.5	0.974	0.479	0.5763	
60 minute summer	120	15.004	105	52.7	0.970	0.289	1.3574	
60 minute summer	105	15.005	106	52.9	1.164	0.279	0.3284	
60 minute summer	45	16.000	106	9.0	2.170	0.055	0.0547	
60 minute summer	106	15.006	107	81.8	1.510	0.195	2.0229	
60 minute winter	107	15.007	108	60.2	1.917	0.261	1.0659	
180 minute summer	108	Orifice	109	0.0				0.1
180 minute summer	108	Infiltration		56.9				
60 minute summer	74	17.000	75	10.1	0.819	0.118	0.4604	
60 minute summer	75	17.001	76	15.2	0.578	0.117	1.0905	
60 minute summer	76	17.002	77	61.6	1.837	0.253	1.9308	
60 minute summer	83	18.000	77	12.8	0.960	0.131	0.5583	
60 minute summer	77	17.003	78	89.9	2.422	0.177	2.1805	
60 minute summer	84	19.000	85	9.7	1.131	0.155	0.1929	
60 minute summer	85	19.001	86	22.0	1.394	0.165	0.7207	
60 minute summer	86	19.002	78	43.5	1.587	0.075	1.2671	
60 minute summer	78	17.004	79	155.2	1.697	0.137	4.0878	
60 minute summer	79	17.005	80	168.3	1.336	0.415	3.4317	
60 minute summer	80	17.006	81	169.5	2.088	0.464	4.2290	



Results for 2 year Critical Storm Duration. Lowest mass balance: 99.86%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute summer	87	33	126.565	0.065	16.9	0.1982	0.0000	OK
60 minute summer	88	33	124.930	0.105	33.6	0.3026	0.0000	OK
60 minute summer	89	33	124.719	0.109	42.9	0.2538	0.0000	OK
60 minute summer	90	33	124.205	0.140	84.8	0.8239	0.0000	OK
60 minute summer	91	33	123.545	0.125	110.4	0.5236	0.0000	OK
60 minute summer	92	33	123.115	0.180	136.3	0.6981	0.0000	OK
60 minute summer	95	33	123.441	0.051	11.6	0.1252	0.0000	OK
60 minute summer	93	33	122.540	0.130	186.6	0.6004	0.0000	OK
60 minute winter	94	12	121.539	0.359	135.2	0.6342	0.0000	OK
120 minute summer	81	86	121.246	0.141	238.8	245.6597	0.0000	OK
60 minute summer	82	1	120.830	0.000	0.0	0.0000	0.0000	OK
60 minute summer	13	33	98.530	0.075	8.9	0.1637	0.0000	OK
60 minute summer	14	33	98.460	0.050	12.4	0.0718	0.0000	OK
60 minute summer	15	33	97.830	0.075	20.4	0.1424	0.0000	OK
60 minute summer	16	33	96.603	0.108	26.3	0.1838	0.0000	OK
60 minute summer	1	33	101.033	0.043	10.0	0.0968	0.0000	OK
60 minute summer	2	33	99.551	0.051	15.1	0.0844	0.0000	OK
60 minute summer	3	33	98.801	0.066	27.5	0.1664	0.0000	OK
60 minute summer	4	33	96.326	0.096	63.3	0.2318	0.0000	OK
60 minute summer	20	33	94.975	0.040	6.5	0.0740	0.0000	OK
60 minute summer	5	33	94.374	0.139	79.1	0.3032	0.0000	OK
60 minute summer	6	33	93.764	0.119	91.5	0.3149	0.0000	OK
60 minute summer	17	33	99.433	0.033	5.7	0.0588	0.0000	OK
60 minute summer	18	33	96.541	0.046	14.1	0.0956	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)
60 minute summer	87	20.000	88	16.7	1.497	0.103	0.8375	
60 minute summer	88	20.001	89	33.6	1.424	0.145	0.2456	
60 minute summer	89	20.002	90	42.6	1.483	0.123	1.1742	
60 minute summer	90	20.003	91	84.4	1.898	0.146	1.7862	
60 minute summer	91	20.004	92	110.3	1.960	0.088	0.8325	
60 minute summer	92	20.005	93	135.9	2.354	0.171	2.3013	
60 minute summer	95	21.000	93	11.6	1.800	0.102	0.0827	
60 minute summer	93	20.006	94	186.0	2.753	0.107	1.2882	
60 minute winter	94	20.007	81	135.7	2.095	0.309	3.2622	
120 minute summer	81	Orifice	82	0.0				0.1
120 minute summer	81	Infiltration		56.9				
60 minute summer	13	22.000	14	8.9	0.996	0.224	0.0689	
60 minute summer	14	22.001	15	12.4	1.388	0.107	0.1211	
60 minute summer	15	22.002	16	20.4	1.785	0.232	0.4787	
60 minute summer	16	22.003	4	26.2	1.189	0.255	0.4913	
60 minute summer	1	23.000	2	10.0	1.944	0.076	0.1140	
60 minute summer	2	23.001	3	15.1	1.563	0.065	0.1687	
60 minute summer	3	23.002	4	27.5	2.444	0.103	0.4750	
60 minute summer	4	22.004	5	63.2	2.942	0.133	0.5564	
60 minute summer	20	24.000	5	6.5	1.413	0.064	0.0576	
60 minute summer	5	22.005	6	79.0	2.108	0.187	1.3039	
60 minute summer	6	22.006	7	91.2	1.990	0.158	1.3364	
60 minute summer	17	25.000	18	5.7	1.614	0.045	0.1695	
60 minute summer	18	25.001	19	14.1	1.764	0.052	0.2883	



Results for 2 year Critical Storm Duration. Lowest mass balance: 99.86%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute summer	19	33	94.431	0.056	19.9	0.0996	0.0000	OK
60 minute summer	7	33	92.904	0.179	116.8	0.3345	0.0000	OK
60 minute summer	8	33	92.484	0.119	119.7	0.2111	0.0000	OK
60 minute summer	9	33	91.052	0.137	125.8	0.2812	0.0000	OK
180 minute summer	10	136	90.024	-0.076	64.8	108.0302	0.0000	OK
60 minute summer	11	1	90.050	0.000	0.0	0.0000	0.0000	OK
60 minute summer	21	33	94.930	0.030	3.2	0.0443	0.0000	OK
60 minute summer	29	33	94.598	0.048	4.1	0.0758	0.0000	OK
60 minute summer	22	33	94.470	0.055	16.9	0.1110	0.0000	OK
60 minute summer	23	33	92.747	0.052	23.7	0.0903	0.0000	OK
60 minute summer	24	33	88.952	0.057	26.9	0.0829	0.0000	OK
60 minute summer	31	33	87.789	0.054	5.7	0.0972	0.0000	OK
60 minute summer	32	33	87.704	0.069	6.9	0.0851	0.0000	OK
60 minute summer	30	33	89.034	0.034	8.1	0.0650	0.0000	OK
60 minute summer	25	35	87.685	0.165	42.5	8.8302	0.0000	OK
600 minute summer	26	435	87.629	0.174	9.8	45.3426	0.0000	OK
60 minute summer	27	1	87.420	0.000	0.0	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)
60 minute summer	19	25.002	7	19.8	2.209	0.074	0.2343	
60 minute summer	7	22.007	8	116.4	2.539	0.269	0.9337	
60 minute summer	8	22.008	9	119.5	3.217	0.147	0.8610	
60 minute summer	9	22.009	10	125.5	3.325	0.166	0.5705	
180 minute summer	10	Orifice	11	0.0				0.0
180 minute summer	10	Infiltration		11.1				
60 minute summer	21	26.000	22	3.2	1.054	0.036	0.0425	
60 minute summer	29	27.000	22	4.1	0.695	0.090	0.0457	
60 minute summer	22	26.001	23	16.9	2.005	0.070	0.3095	
60 minute summer	23	26.002	24	23.7	2.714	0.066	0.3208	
60 minute summer	24	26.003	25	26.9	2.030	0.081	0.3745	
60 minute summer	31	28.000	32	5.7	0.661	0.118	0.1021	
60 minute summer	32	28.001	25	6.9	0.713	0.167	0.0775	
60 minute summer	30	29.000	25	8.1	1.819	0.050	0.1340	
60 minute summer	25	26.004	26	37.3	0.999	0.529	0.5981	
600 minute summer	26	Orifice	27	0.0				0.3
600 minute summer	26	Infiltration		1.7				



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Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute summer	54	33	124.243	0.073	28.3	0.1748	0.0000	OK
60 minute summer	55	33	122.664	0.079	32.7	0.1052	0.0000	OK
60 minute summer	63	33	121.773	0.073	12.0	0.1172	0.0000	OK
60 minute summer	56	33	121.546	0.096	60.4	0.1656	0.0000	OK
60 minute summer	57	33	119.467	0.117	71.1	0.1802	0.0000	OK
60 minute summer	58	33	118.703	0.108	76.5	0.1759	0.0000	OK
60 minute summer	59	33	118.080	0.119	101.1	0.2847	0.0000	OK
60 minute summer	60	33	115.450	0.130	147.3	0.4189	0.0000	OK
60 minute summer	61	33	112.889	0.159	182.9	0.4449	0.0000	OK
60 minute summer	62	33	111.799	0.169	195.1	0.3211	0.0000	OK
60 minute summer	50	33	124.725	0.105	30.2	0.2609	0.0000	OK
60 minute summer	51	33	124.195	0.124	53.5	0.2636	0.0000	OK
60 minute summer	52	33	123.598	0.133	78.7	0.3234	0.0000	OK
60 minute summer	33	33	125.662	0.137	30.9	0.3384	0.0000	OK
60 minute summer	34	33	125.467	0.142	57.7	0.3278	0.0000	OK
60 minute summer	35	33	124.276	0.131	89.4	0.3223	0.0000	OK
60 minute summer	36	33	122.492	0.182	201.4	0.4830	0.0000	OK
60 minute summer	53	33	121.760	0.085	20.8	0.1725	0.0000	OK
60 minute summer	37	33	120.793	0.183	235.2	0.3343	0.0000	OK
60 minute summer	38	33	119.673	0.138	235.0	0.1968	0.0000	OK
60 minute summer	39	33	112.330	0.205	262.0	0.5160	0.0000	OK
60 minute summer	40	33	110.595	0.250	468.9	0.5511	0.0000	OK
60 minute summer	41	33	109.259	0.204	499.2	0.5742	0.0000	OK
60 minute summer	64	33	112.649	0.049	12.6	0.0813	0.0000	OK
60 minute summer	65	33	111.370	0.099	56.1	0.2712	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)
60 minute summer	54	1.000	55	28.3	2.393	0.224	0.3217	
60 minute summer	55	1.001	56	32.7	2.725	0.240	0.1876	
60 minute summer	63	2.000	56	12.0	1.126	0.205	0.1481	
60 minute summer	56	1.002	57	60.4	2.709	0.223	0.7973	
60 minute summer	57	1.003	58	71.1	3.025	0.262	0.2707	
60 minute summer	58	1.004	59	76.5	2.721	0.155	0.2960	
60 minute summer	59	1.005	60	101.1	3.441	0.209	1.2987	
60 minute summer	60	1.006	61	147.3	3.354	0.187	1.9408	
60 minute summer	61	1.007	62	182.8	3.509	0.234	0.9855	
60 minute summer	62	1.008	40	194.9	3.877	0.248	0.9730	
60 minute summer	50	3.000	51	30.2	1.716	0.411	0.4210	
60 minute summer	51	3.001	52	53.5	2.021	0.326	0.6466	
60 minute summer	52	3.002	36	78.7	1.791	0.278	2.5501	
60 minute summer	33	4.000	34	30.9	1.197	0.625	0.5704	
60 minute summer	34	4.001	35	57.6	2.248	0.681	1.0775	
60 minute summer	35	4.002	36	89.4	3.122	0.367	1.0604	
60 minute summer	36	3.003	37	201.2	3.792	0.430	1.6651	
60 minute summer	53	5.000	37	20.8	1.532	0.296	0.6824	
60 minute summer	37	3.004	38	235.0	5.243	0.309	0.3373	
60 minute summer	38	3.005	39	234.9	4.803	0.295	2.3218	
60 minute summer	39	3.006	40	261.4	4.619	0.472	1.1585	
60 minute summer	40	1.009	41	468.7	4.810	0.280	2.1389	
60 minute summer	41	1.010	42	498.8	4.340	0.246	3.2765	
60 minute summer	64	6.000	65	12.6	1.998	0.101	0.1382	
60 minute summer	65	6.001	66	56.1	1.691	0.241	1.4052	



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Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute summer	66	33	109.622	0.187	79.7	0.3509	0.0000	OK
60 minute summer	67	33	109.262	0.147	112.1	0.3524	0.0000	OK
60 minute summer	68	33	107.387	0.372	150.4	1.0708	0.0000	OK
60 minute summer	69	33	107.206	0.336	166.8	0.6856	0.0000	OK
60 minute summer	42	33	106.924	0.324	690.3	0.7790	0.0000	OK
60 minute summer	43	33	104.573	0.228	723.6	0.6487	0.0000	OK
60 minute summer	70	33	105.363	0.138	42.8	0.4178	0.0000	OK
60 minute summer	71	33	104.337	0.117	82.9	0.3313	0.0000	OK
60 minute summer	72	34	100.883	0.403	120.2	1.2190	0.0000	OK
60 minute summer	73	34	100.873	0.603	126.7	1.2018	0.0000	OK
60 minute summer	12	34	100.867	0.657	130.1	1.1615	0.0000	OK
60 minute summer	44	34	100.861	0.766	870.9	2.2438	0.0000	SURCHARGED
60 minute summer	46	34	100.618	0.593	878.3	1.5926	0.0000	OK
60 minute summer	47	45	100.529	0.559	879.7	483.8494	0.0000	OK
60 minute winter	48	67	99.699	0.008	0.0	0.0199	0.0000	OK
60 minute winter	49	67	99.661	0.000	0.0	0.0000	0.0000	OK
60 minute summer	96	33	124.206	0.106	37.5	0.2798	0.0000	OK
60 minute summer	97	33	123.482	0.172	84.1	0.5319	0.0000	OK
60 minute summer	98	33	122.685	0.205	112.1	0.5258	0.0000	OK
60 minute summer	99	33	122.503	0.318	148.4	0.8929	0.0000	OK
60 minute summer	110	33	123.866	0.066	13.2	0.1125	0.0000	OK
60 minute summer	111	33	123.310	0.110	29.9	0.2028	0.0000	OK
60 minute summer	112	33	123.004	0.154	46.9	0.2754	0.0000	OK
60 minute summer	113	33	122.741	0.131	68.0	0.2634	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)
60 minute summer	66	6.002	67	79.7	1.973	0.626	0.9861	
60 minute summer	67	6.003	68	112.0	2.207	0.493	2.5570	
60 minute summer	68	6.004	69	149.2	1.457	1.139	1.6212	
60 minute summer	69	6.005	42	166.4	1.423	0.853	3.8172	
60 minute summer	42	1.011	43	689.0	5.456	0.464	6.1844	
60 minute summer	43	1.012	44	722.3	4.102	0.319	7.2426	
60 minute summer	70	7.000	71	42.6	1.700	0.671	1.5685	
60 minute summer	71	7.001	72	82.7	3.335	0.308	1.4713	
60 minute summer	72	7.002	73	115.9	0.960	0.260	7.4572	
60 minute summer	73	7.003	12	130.1	0.623	0.212	4.7967	
60 minute summer	12	7.004	44	132.9	0.493	0.248	4.3225	
60 minute summer	44	1.013	46	872.0	2.079	1.224	8.5253	
60 minute summer	46	1.014	47	879.7	3.321	1.228	5.4787	
60 minute summer	47	Orifice	48	0.0				
60 minute summer	47	Infiltration		189.6				
60 minute winter	48	1.016	49	0.0	0.066	0.000	0.0090	0.1
60 minute summer	96	8.000	97	37.5	1.182	0.272	1.6447	
60 minute summer	97	8.001	98	83.8	2.076	0.583	1.8285	
60 minute summer	98	8.002	99	111.9	1.730	0.432	0.9021	
60 minute summer	99	8.003	100	147.1	1.173	0.793	8.5149	
60 minute summer	110	9.000	111	13.2	0.919	0.188	0.4769	
60 minute summer	111	9.001	112	29.9	1.624	0.426	0.2798	
60 minute summer	112	9.002	113	46.9	1.425	0.481	1.0230	
60 minute summer	113	9.003	100	68.0	1.977	0.373	0.7402	



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Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute summer	100	33	122.309	0.349	240.5	0.7857	0.0000	OK
60 minute summer	101	33	122.102	0.227	278.3	0.6713	0.0000	OK
60 minute summer	114	33	121.426	0.126	70.2	0.5118	0.0000	OK
60 minute summer	102	49	119.930	0.634	420.9	305.0094	0.0000	SURCHARGED
60 minute summer	103	33	119.137	0.127	99.2	0.3701	0.0000	OK
60 minute summer	104	33	118.769	0.109	124.1	0.2829	0.0000	OK
60 minute summer	132	33	123.678	0.078	40.3	0.2177	0.0000	OK
60 minute summer	133	33	121.138	0.198	59.8	0.3624	0.0000	OK
60 minute summer	134	33	120.983	0.113	68.6	0.1692	0.0000	OK
60 minute summer	135	33	119.653	0.103	85.8	0.2185	0.0000	OK
60 minute summer	136	33	118.656	0.151	89.3	0.2348	0.0000	OK
60 minute summer	137	33	118.140	0.255	127.6	0.7977	0.0000	OK
60 minute summer	138	33	118.058	0.293	129.3	0.5319	0.0000	OK
60 minute summer	123	33	124.153	0.103	35.6	0.2452	0.0000	OK
60 minute summer	124	33	123.654	0.089	49.5	0.1509	0.0000	OK
60 minute summer	131	33	122.044	0.044	7.6	0.0611	0.0000	OK
60 minute summer	125	33	121.086	0.116	91.4	0.2990	0.0000	OK
60 minute summer	126	33	120.199	0.129	107.5	0.2608	0.0000	OK
60 minute summer	127	33	119.348	0.103	114.1	0.2048	0.0000	OK
60 minute summer	128	33	118.021	0.296	274.2	0.7333	0.0000	OK
60 minute summer	139	33	121.931	0.061	19.2	0.1183	0.0000	OK
60 minute summer	140	33	120.357	0.097	76.5	0.3535	0.0000	OK
60 minute summer	141	33	118.464	0.154	100.7	0.3465	0.0000	OK
60 minute summer	142	33	117.614	0.334	398.7	0.8582	0.0000	OK
60 minute summer	28	33	117.314	0.244	419.3	0.6234	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)
60 minute summer	100	8.004	101	239.6	2.277	0.941	1.4500	
60 minute summer	101	8.005	102	281.6	3.479	0.492	7.9943	
60 minute summer	114	10.000	102	70.2	2.559	0.352	2.2258	
60 minute summer	102	Hydro-Brake®	103	66.9				
60 minute summer	103	8.007	104	99.2	2.383	0.063	0.5184	
60 minute summer	104	8.008	129	123.9	1.136	0.059	9.6104	
60 minute summer	132	11.000	133	40.3	1.279	0.149	1.4428	
60 minute summer	133	11.001	134	59.8	1.621	0.816	0.5880	
60 minute summer	134	11.002	135	68.5	2.952	0.272	0.5692	
60 minute summer	135	11.003	136	85.8	2.617	0.164	0.5067	
60 minute summer	136	11.004	137	89.2	2.303	0.287	0.6377	
60 minute summer	137	11.005	138	127.1	1.013	0.323	4.5630	
60 minute summer	138	11.006	128	129.4	0.956	0.319	1.5703	
60 minute summer	123	12.000	124	35.6	1.838	0.227	0.4764	
60 minute summer	124	12.001	125	49.5	2.888	0.184	0.7232	
60 minute summer	131	13.000	125	7.6	1.427	0.080	0.1286	
60 minute summer	125	12.002	126	91.4	2.622	0.137	0.7468	
60 minute summer	126	12.003	127	107.5	3.093	0.149	0.5292	
60 minute summer	127	12.004	128	114.1	2.395	0.087	1.1397	
60 minute summer	128	11.007	142	273.1	1.835	0.443	8.2934	
60 minute summer	139	14.000	140	19.2	2.275	0.151	0.2094	
60 minute summer	140	14.001	141	76.5	2.384	0.149	0.9650	
60 minute summer	141	14.002	142	100.7	2.473	0.321	1.3430	
60 minute summer	142	11.008	28	396.9	2.964	0.404	1.3922	
60 minute summer	28	11.009	129	419.0	2.261	0.322	5.0562	



Results for 30 year Critical Storm Duration. Lowest mass balance: 99.86%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute summer	129	34	116.582	0.582	559.0	1.3022	0.0000	OK
60 minute summer	130	33	116.402	0.472	562.2	0.8345	0.0000	OK
60 minute summer	117	33	122.024	0.104	27.4	0.2437	0.0000	OK
60 minute summer	122	33	120.976	0.156	54.9	0.3554	0.0000	OK
60 minute summer	118	33	120.825	0.120	85.1	0.2884	0.0000	OK
60 minute summer	119	33	117.102	0.347	130.7	0.9583	0.0000	OK
60 minute summer	120	33	116.975	0.325	141.3	0.5821	0.0000	OK
60 minute summer	105	33	116.866	0.296	140.8	0.4235	0.0000	OK
60 minute summer	45	33	118.181	0.061	23.9	0.1247	0.0000	OK
60 minute summer	106	33	116.790	0.245	219.5	0.6491	0.0000	OK
240 minute winter	107	236	116.318	0.388	57.3	0.5558	0.0000	OK
240 minute winter	108	236	116.318	0.538	249.8	935.6765	0.0000	OK
60 minute summer	109	1	115.505	0.000	0.0	0.0000	0.0000	OK
60 minute summer	74	33	125.719	0.119	27.1	0.2701	0.0000	OK
60 minute summer	75	33	125.442	0.142	41.0	0.2574	0.0000	OK
60 minute summer	76	33	125.363	0.237	166.4	1.2051	0.0000	OK
60 minute summer	83	33	124.726	0.126	34.3	0.3228	0.0000	OK
60 minute summer	77	33	124.353	0.228	242.8	0.5948	0.0000	OK
60 minute summer	84	33	124.651	0.106	25.8	0.2388	0.0000	OK
60 minute summer	85	33	124.289	0.144	58.9	0.3611	0.0000	OK
60 minute summer	86	33	123.428	0.163	116.7	0.6302	0.0000	OK
60 minute summer	78	33	122.780	0.250	418.1	0.9355	0.0000	OK
60 minute summer	79	34	121.908	0.558	452.3	1.6510	0.0000	OK
60 minute summer	80	34	121.660	0.480	450.6	0.8486	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)
60 minute summer	129	8.009	130	562.2	1.885	1.029	6.0763	
60 minute summer	130	8.010	108	564.2	3.244	0.814	5.3921	
60 minute summer	117	15.000	122	27.2	1.540	0.426	1.2027	
60 minute summer	122	15.001	118	54.9	1.737	0.428	0.2741	
60 minute summer	118	15.002	119	85.0	1.959	0.341	3.6405	
60 minute summer	119	15.003	120	129.6	1.344	1.280	1.0990	
60 minute summer	120	15.004	105	140.8	1.215	0.773	2.9054	
60 minute summer	105	15.005	106	141.5	1.451	0.747	0.7167	
60 minute summer	45	16.000	106	23.9	2.845	0.147	0.1108	
60 minute summer	106	15.006	107	218.7	1.997	0.522	4.0008	
240 minute winter	107	15.007	108	57.5	1.354	0.249	4.4398	
240 minute winter	108	Orifice	109	0.0				0.3
240 minute winter	108	Infiltration		56.9				
60 minute summer	74	17.000	75	27.1	1.072	0.314	0.9407	
60 minute summer	75	17.001	76	40.8	0.730	0.314	2.2948	
60 minute summer	76	17.002	77	165.5	2.335	0.680	4.0793	
60 minute summer	83	18.000	77	34.3	1.253	0.350	1.1432	
60 minute summer	77	17.003	78	241.8	3.118	0.475	4.5512	
60 minute summer	84	19.000	85	25.8	1.462	0.412	0.3972	
60 minute summer	85	19.001	86	58.9	1.807	0.442	1.4871	
60 minute summer	86	19.002	78	116.8	1.969	0.201	2.7709	
60 minute summer	78	17.004	79	417.3	2.082	0.369	8.4002	
60 minute summer	79	17.005	80	450.6	1.799	1.113	6.7429	
60 minute summer	80	17.006	81	451.4	2.418	1.234	10.8979	



Results for 30 year Critical Storm Duration. Lowest mass balance: 99.86%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute summer	87	33	126.608	0.108	45.0	0.3288	0.0000	OK
60 minute summer	88	33	125.011	0.186	90.1	0.5363	0.0000	OK
60 minute summer	89	33	124.796	0.186	114.9	0.4347	0.0000	OK
60 minute summer	90	33	124.308	0.243	227.1	1.4348	0.0000	OK
60 minute summer	91	33	123.649	0.228	295.8	0.9591	0.0000	OK
60 minute summer	92	33	123.249	0.313	364.9	1.2137	0.0000	OK
60 minute summer	95	33	123.476	0.086	30.9	0.2134	0.0000	OK
60 minute summer	93	33	122.648	0.238	499.3	1.0949	0.0000	OK
60 minute winter	94	10	121.809	0.629	361.2	1.1107	0.0000	OK
120 minute winter	81	118	121.561	0.456	411.1	832.6987	0.0000	OK
60 minute summer	82	1	120.830	0.000	0.0	0.0000	0.0000	OK
60 minute summer	13	33	98.582	0.127	23.6	0.2768	0.0000	OK
60 minute summer	14	33	98.492	0.082	33.0	0.1185	0.0000	OK
60 minute summer	15	33	97.888	0.133	54.4	0.2523	0.0000	OK
60 minute summer	16	33	96.692	0.197	70.1	0.3351	0.0000	OK
60 minute summer	1	33	101.061	0.071	26.8	0.1614	0.0000	OK
60 minute summer	2	33	99.584	0.084	40.3	0.1386	0.0000	OK
60 minute summer	3	33	98.845	0.110	73.4	0.2793	0.0000	OK
60 minute summer	4	33	96.397	0.167	168.9	0.4026	0.0000	OK
60 minute summer	20	33	95.001	0.066	17.3	0.1233	0.0000	OK
60 minute summer	5	33	94.480	0.245	211.3	0.5342	0.0000	OK
60 minute summer	6	33	93.855	0.210	244.7	0.5555	0.0000	OK
60 minute summer	17	33	99.453	0.053	15.1	0.0953	0.0000	OK
60 minute summer	18	33	96.570	0.075	37.5	0.1549	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)
60 minute summer	87	20.000	88	45.1	1.940	0.277	1.7468	
60 minute summer	88	20.001	89	90.0	1.814	0.387	0.5165	
60 minute summer	89	20.002	90	114.7	1.928	0.331	2.4292	
60 minute summer	90	20.003	91	226.5	2.444	0.392	3.7217	
60 minute summer	91	20.004	92	295.6	2.393	0.236	1.8150	
60 minute summer	92	20.005	93	364.2	2.894	0.459	5.0064	
60 minute summer	95	21.000	93	30.9	2.327	0.272	0.1703	
60 minute summer	93	20.006	94	498.7	3.258	0.287	2.7798	
60 minute winter	94	20.007	81	360.6	2.449	0.821	7.6238	
120 minute winter	81	Orifice	82	0.0				0.2
120 minute winter	81	Infiltration		56.9				
60 minute summer	13	22.000	14	23.6	1.311	0.593	0.1379	
60 minute summer	14	22.001	15	33.0	1.769	0.286	0.2513	
60 minute summer	15	22.002	16	54.4	2.285	0.620	0.9987	
60 minute summer	16	22.003	4	70.0	1.505	0.683	1.0378	
60 minute summer	1	23.000	2	26.8	2.558	0.203	0.2323	
60 minute summer	2	23.001	3	40.3	2.036	0.172	0.3454	
60 minute summer	3	23.002	4	73.4	3.200	0.274	0.9692	
60 minute summer	4	22.004	5	168.8	3.781	0.356	1.1574	
60 minute summer	20	24.000	5	17.3	1.849	0.170	0.1171	
60 minute summer	5	22.005	6	211.3	2.631	0.501	2.7905	
60 minute summer	6	22.006	7	244.5	2.436	0.423	2.8807	
60 minute summer	17	25.000	18	15.1	2.144	0.119	0.3385	
60 minute summer	18	25.001	19	37.5	2.393	0.138	0.5652	



Results for 30 year Critical Storm Duration. Lowest mass balance: 99.86%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute summer	19	33	94.465	0.090	52.9	0.1585	0.0000	OK
60 minute summer	7	33	93.060	0.335	312.5	0.6249	0.0000	OK
60 minute summer	8	33	92.575	0.210	320.6	0.3708	0.0000	OK
60 minute summer	9	33	91.168	0.253	337.0	0.5190	0.0000	OK
180 minute winter	10	180	90.525	0.425	107.7	358.4841	0.0000	OK
60 minute summer	11	1	90.050	0.000	0.0	0.0000	0.0000	OK
60 minute summer	21	33	94.948	0.048	8.5	0.0723	0.0000	OK
60 minute summer	29	33	94.631	0.081	11.0	0.1287	0.0000	OK
60 minute summer	22	33	94.505	0.090	45.0	0.1832	0.0000	OK
60 minute summer	23	33	92.780	0.085	63.3	0.1485	0.0000	OK
60 minute summer	24	33	88.989	0.094	71.8	0.1359	0.0000	OK
480 minute winter	31	472	88.030	0.295	2.3	0.5317	0.0000	SURCHARGED
480 minute winter	32	472	88.030	0.395	2.8	0.4869	0.0000	SURCHARGED
60 minute summer	30	33	89.055	0.055	21.7	0.1055	0.0000	OK
480 minute winter	25	472	88.030	0.510	17.1	27.2234	0.0000	SURCHARGED
480 minute winter	26	472	88.030	0.575	13.3	122.7848	0.0000	SURCHARGED
60 minute summer	27	1	87.420	0.000	0.0	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)
60 minute summer	19	25.002	7	52.9	2.374	0.197	0.8248	
60 minute summer	7	22.007	8	311.8	3.113	0.721	2.0084	
60 minute summer	8	22.008	9	320.3	3.903	0.394	1.8990	
60 minute summer	9	22.009	10	336.2	4.131	0.446	1.2292	
180 minute winter	10	Orifice	11	0.0				0.2
180 minute winter	10	Infiltration		11.1				
60 minute summer	21	26.000	22	8.5	1.393	0.095	0.0853	
60 minute summer	29	27.000	22	11.0	0.905	0.241	0.0942	
60 minute summer	22	26.001	23	45.0	2.624	0.186	0.6292	
60 minute summer	23	26.002	24	63.3	3.588	0.176	0.6483	
60 minute summer	24	26.003	25	71.8	2.410	0.216	0.6898	
480 minute winter	31	28.000	32	2.3	0.542	0.048	0.4620	
480 minute winter	32	28.001	25	2.7	0.546	0.065	0.2531	
60 minute summer	30	29.000	25	21.7	1.637	0.134	0.3470	
480 minute winter	25	26.004	26	13.3	0.724	0.188	1.1292	
480 minute winter	26	Orifice	27	0.0				0.5
480 minute winter	26	Infiltration		1.7				



Results for 100 year +40% CC Critical Storm Duration. Lowest mass balance: 99.86%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute summer	54	33	124.280	0.110	58.9	0.2636	0.0000	OK
60 minute summer	55	33	122.708	0.123	68.1	0.1635	0.0000	OK
60 minute summer	63	33	121.810	0.110	24.9	0.1782	0.0000	OK
60 minute summer	56	33	121.592	0.142	125.7	0.2468	0.0000	OK
60 minute summer	57	33	119.538	0.188	148.0	0.2906	0.0000	OK
60 minute summer	58	33	118.763	0.168	159.1	0.2742	0.0000	OK
60 minute summer	59	33	118.141	0.181	210.1	0.4320	0.0000	OK
60 minute summer	60	33	115.515	0.195	306.4	0.6260	0.0000	OK
60 minute summer	61	33	112.981	0.251	380.4	0.7041	0.0000	OK
60 minute summer	62	33	111.896	0.266	405.7	0.5070	0.0000	OK
60 minute summer	50	33	124.795	0.175	62.8	0.4331	0.0000	OK
60 minute summer	51	33	124.269	0.199	111.2	0.4208	0.0000	OK
60 minute summer	52	33	123.666	0.201	163.6	0.4881	0.0000	OK
60 minute summer	33	34	126.757	1.232	64.1	3.0460	0.0000	FLOOD RISK
60 minute summer	34	34	126.419	1.094	111.1	2.5283	0.0000	SURCHARGED
60 minute summer	35	34	124.336	0.191	170.4	0.4705	0.0000	OK
60 minute summer	36	33	122.608	0.298	402.8	0.7909	0.0000	OK
60 minute summer	53	33	121.802	0.127	43.2	0.2565	0.0000	OK
60 minute summer	37	33	120.930	0.320	471.9	0.5864	0.0000	OK
60 minute summer	38	33	119.739	0.204	471.2	0.2918	0.0000	OK
60 minute summer	39	34	112.934	0.809	527.2	2.0400	0.0000	SURCHARGED
60 minute summer	40	34	110.742	0.397	938.0	0.8763	0.0000	OK
60 minute summer	41	33	109.368	0.313	999.1	0.8813	0.0000	OK
60 minute summer	64	32	112.672	0.072	26.2	0.1181	0.0000	OK
60 minute summer	65	34	111.446	0.176	116.5	0.4809	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)
60 minute summer	54	1.000	55	58.9	2.833	0.467	0.5654	
60 minute summer	55	1.001	56	68.1	3.248	0.500	0.3278	
60 minute summer	63	2.000	56	24.9	1.353	0.426	0.2556	
60 minute summer	56	1.002	57	125.7	3.158	0.464	1.4191	
60 minute summer	57	1.003	58	148.0	3.534	0.545	0.4817	
60 minute summer	58	1.004	59	159.1	3.169	0.322	0.5283	
60 minute summer	59	1.005	60	210.2	4.146	0.434	2.2417	
60 minute summer	60	1.006	61	306.4	3.910	0.390	3.4575	
60 minute summer	61	1.007	62	380.3	4.031	0.486	1.7849	
60 minute summer	62	1.008	40	405.9	4.451	0.516	1.7996	
60 minute summer	50	3.000	51	62.8	1.992	0.855	0.7531	
60 minute summer	51	3.001	52	111.2	2.382	0.677	1.1393	
60 minute summer	52	3.002	36	163.6	2.113	0.578	4.4632	
60 minute summer	33	4.000	34	57.8	1.453	1.169	0.8789	
60 minute summer	34	4.001	35	107.8	2.710	1.274	1.6711	
60 minute summer	35	4.002	36	170.4	3.481	0.701	1.9131	
60 minute summer	36	3.003	37	401.2	4.144	0.858	3.0446	
60 minute summer	53	5.000	37	43.2	1.729	0.615	1.3912	
60 minute summer	37	3.004	38	471.2	5.736	0.619	0.6064	
60 minute summer	38	3.005	39	470.9	5.172	0.592	4.0624	
60 minute summer	39	3.006	40	517.7	5.051	0.934	2.0347	
60 minute summer	40	1.009	41	938.9	5.420	0.560	3.7905	
60 minute summer	41	1.010	42	1000.2	4.724	0.494	5.9876	
60 minute summer	64	6.000	65	26.2	2.385	0.210	0.3005	
60 minute summer	65	6.001	66	114.3	1.898	0.491	2.3916	



Results for 100 year +40% CC Critical Storm Duration. Lowest mass balance: 99.86%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute summer	66	35	110.701	1.266	163.4	2.3695	0.0000	SURCHARGED
60 minute summer	67	34	110.118	1.003	212.3	2.3971	0.0000	SURCHARGED
60 minute summer	68	34	108.093	1.078	284.3	3.0993	0.0000	SURCHARGED
60 minute summer	69	34	107.591	0.721	318.3	1.4726	0.0000	SURCHARGED
60 minute summer	42	34	107.175	0.575	1370.5	1.3804	0.0000	OK
60 minute summer	43	34	104.784	0.439	1439.5	1.2508	0.0000	OK
60 minute summer	70	34	106.225	1.000	89.0	3.0256	0.0000	SURCHARGED
60 minute summer	71	34	104.404	0.183	165.2	0.5216	0.0000	OK
60 minute summer	72	35	102.360	1.880	241.4	5.6840	0.0000	FLOOD RISK
60 minute summer	73	35	102.310	2.040	253.8	4.0685	0.0000	SURCHARGED
60 minute summer	12	35	102.289	2.079	251.8	3.6734	0.0000	SURCHARGED
60 minute summer	44	35	102.268	2.173	1735.0	6.3631	0.0000	SURCHARGED
60 minute summer	46	35	101.504	1.479	1741.4	3.9697	0.0000	SURCHARGED
60 minute winter	47	53	101.159	1.189	1320.8	1270.3270	0.0000	SURCHARGED
60 minute winter	48	68	99.701	0.010	0.0	0.0249	0.0000	OK
60 minute winter	49	68	99.661	0.000	0.0	0.0000	0.0000	OK
60 minute summer	96	35	124.883	0.783	77.9	2.0695	0.0000	SURCHARGED
60 minute summer	97	35	124.644	1.334	164.2	4.1334	0.0000	FLOOD RISK
60 minute summer	98	34	123.597	1.117	210.2	2.8718	0.0000	SURCHARGED
60 minute summer	99	34	123.359	1.174	280.3	3.3007	0.0000	SURCHARGED
60 minute summer	110	33	123.897	0.097	27.5	0.1662	0.0000	OK
60 minute summer	111	34	123.628	0.428	62.2	0.7872	0.0000	SURCHARGED
60 minute summer	112	34	123.381	0.531	90.9	0.9498	0.0000	SURCHARGED
60 minute summer	113	34	123.125	0.515	131.7	1.0374	0.0000	SURCHARGED
Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
60 minute summer	66	6.002	67	150.4	2.136	1.182	1.7206	
60 minute summer	67	6.003	68	211.4	3.002	0.930	3.4378	
60 minute summer	68	6.004	69	283.6	2.571	2.165	1.7881	
60 minute summer	69	6.005	42	318.2	2.014	1.632	5.1268	
60 minute summer	42	1.011	43	1371.2	5.772	0.924	12.1692	
60 minute summer	43	1.012	44	1437.2	5.317	0.635	9.5901	
60 minute summer	70	7.000	71	83.6	2.102	1.317	2.4637	
60 minute summer	71	7.001	72	163.5	3.372	0.608	3.4270	
60 minute summer	72	7.002	73	231.5	0.983	0.520	9.0551	
60 minute summer	73	7.003	12	251.8	0.705	0.409	4.9577	
60 minute summer	12	7.004	44	249.9	0.700	0.466	4.3384	
60 minute summer	44	1.013	46	1728.4	3.928	2.427	9.2214	
60 minute summer	46	1.014	47	1737.7	3.949	2.426	7.1608	
60 minute winter	47	Orifice	48	0.0				
60 minute winter	47	Infiltration		252.6				
60 minute winter	48	1.016	49	0.0	0.078	0.000	0.0122	0.2
60 minute summer	96	8.000	97	72.3	1.291	0.525	3.6255	
60 minute summer	97	8.001	98	156.8	2.227	1.091	3.1918	
60 minute summer	98	8.002	99	210.1	1.905	0.812	1.4547	
60 minute summer	99	8.003	100	278.7	1.759	1.502	10.7257	
60 minute summer	110	9.000	111	27.5	1.042	0.391	0.9241	
60 minute summer	111	9.001	112	57.7	1.785	0.824	0.6046	
60 minute summer	112	9.002	113	90.1	1.497	0.924	2.1889	
60 minute summer	113	9.003	100	131.0	1.996	0.719	1.3175	



Results for 100 year +40% CC Critical Storm Duration. Lowest mass balance: 99.86%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute summer	100	34	122.765	0.805	460.0	1.8115	0.0000	SURCHARGED
60 minute summer	101	35	122.254	0.379	537.3	1.1193	0.0000	OK
60 minute summer	114	33	121.489	0.189	145.9	0.7690	0.0000	OK
60 minute winter	102	61	120.843	1.548	630.2	744.2702	0.0000	SURCHARGED
60 minute summer	103	32	119.161	0.151	137.0	0.4401	0.0000	OK
60 minute summer	104	33	118.793	0.133	188.5	0.3467	0.0000	OK
60 minute summer	132	33	123.714	0.114	83.8	0.3185	0.0000	OK
60 minute summer	133	33	121.381	0.441	124.4	0.8054	0.0000	SURCHARGED
60 minute summer	134	33	121.046	0.176	142.2	0.2647	0.0000	OK
60 minute summer	135	33	119.707	0.157	178.0	0.3349	0.0000	OK
60 minute summer	136	35	118.881	0.376	185.4	0.5835	0.0000	SURCHARGED
60 minute summer	137	34	118.695	0.810	259.4	2.5282	0.0000	SURCHARGED
60 minute summer	138	34	118.641	0.876	254.3	1.5890	0.0000	SURCHARGED
60 minute summer	123	33	124.207	0.157	74.0	0.3748	0.0000	OK
60 minute summer	124	33	123.698	0.133	102.8	0.2261	0.0000	OK
60 minute summer	131	33	122.063	0.063	15.7	0.0886	0.0000	OK
60 minute summer	125	33	121.145	0.175	189.8	0.4504	0.0000	OK
60 minute summer	126	33	120.268	0.198	223.2	0.4023	0.0000	OK
60 minute summer	127	33	119.393	0.148	236.9	0.2952	0.0000	OK
60 minute summer	128	34	118.611	0.886	543.7	2.1974	0.0000	SURCHARGED
60 minute summer	139	33	121.960	0.090	39.9	0.1761	0.0000	OK
60 minute summer	140	33	120.401	0.141	159.0	0.5166	0.0000	OK
60 minute summer	141	34	118.579	0.269	209.4	0.6063	0.0000	OK
60 minute summer	142	34	118.188	0.908	780.3	2.3316	0.0000	SURCHARGED
60 minute summer	28	34	117.866	0.796	817.4	2.0302	0.0000	SURCHARGED

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
60 minute summer	100	8.004	101	459.1	2.924	1.803	2.0555	
60 minute summer	101	8.005	102	533.7	3.425	0.932	11.7251	
60 minute summer	114	10.000	102	145.1	2.689	0.727	3.1235	
60 minute winter	102	Hydro-Brake®	103	66.9				
60 minute summer	103	8.007	104	136.8	2.511	0.087	0.6774	
60 minute summer	104	8.008	129	188.1	0.824	0.089	10.7363	
60 minute summer	132	11.000	133	83.8	1.501	0.309	2.1418	
60 minute summer	133	11.001	134	123.9	1.955	1.692	0.9063	
60 minute summer	134	11.002	135	142.1	3.500	0.565	0.9948	
60 minute summer	135	11.003	136	178.2	2.972	0.340	1.1527	
60 minute summer	136	11.004	137	179.6	2.613	0.578	1.8135	
60 minute summer	137	11.005	138	249.7	1.071	0.634	10.2415	
60 minute summer	138	11.006	128	255.8	1.058	0.630	3.2173	
60 minute summer	123	12.000	124	74.0	2.191	0.473	0.8300	
60 minute summer	124	12.001	125	102.8	3.498	0.382	1.2399	
60 minute summer	131	13.000	125	15.7	1.750	0.165	0.2167	
60 minute summer	125	12.002	126	189.8	3.053	0.285	1.3320	
60 minute summer	126	12.003	127	223.2	3.669	0.310	0.9266	
60 minute summer	127	12.004	128	236.9	2.368	0.180	2.6176	
60 minute summer	128	11.007	142	532.0	1.953	0.863	15.6018	
60 minute summer	139	14.000	140	39.9	2.764	0.315	0.3581	
60 minute summer	140	14.001	141	159.0	2.856	0.309	1.8027	
60 minute summer	141	14.002	142	206.6	2.652	0.659	3.2123	
60 minute summer	142	11.008	28	773.3	3.007	0.788	2.9168	
60 minute summer	28	11.009	129	814.5	2.892	0.626	7.8813	



Results for 100 year +40% CC Critical Storm Duration. Lowest mass balance: 99.86%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute summer	129	35	117.266	1.266	1029.1	2.8331	0.0000	SURCHARGED
480 minute winter	130	472	116.975	1.045	211.9	1.8462	0.0000	SURCHARGED
60 minute summer	117	33	122.086	0.166	56.9	0.3897	0.0000	OK
60 minute summer	122	33	121.083	0.263	114.6	0.5998	0.0000	OK
60 minute summer	118	34	120.904	0.199	177.2	0.4794	0.0000	OK
60 minute summer	119	34	118.450	1.695	270.1	4.6772	0.0000	SURCHARGED
60 minute summer	120	34	118.125	1.475	276.5	2.6439	0.0000	SURCHARGED
60 minute summer	105	34	117.865	1.295	274.5	1.8528	0.0000	SURCHARGED
60 minute summer	45	34	118.219	0.099	49.7	0.2008	0.0000	OK
60 minute summer	106	34	117.736	1.191	429.6	3.1551	0.0000	SURCHARGED
480 minute winter	107	480	116.973	1.043	65.8	1.4927	0.0000	SURCHARGED
480 minute winter	108	480	116.973	1.193	274.8	2283.8260	0.0000	SURCHARGED
60 minute summer	109	1	115.505	0.000	0.0	0.0000	0.0000	OK
60 minute summer	74	35	126.686	1.086	56.3	2.4743	0.0000	SURCHARGED
60 minute summer	75	35	126.589	1.289	76.6	2.3388	0.0000	SURCHARGED
60 minute summer	76	35	126.509	1.384	332.2	7.0247	0.0000	SURCHARGED
60 minute summer	83	35	125.091	0.491	71.3	1.2598	0.0000	SURCHARGED
60 minute summer	77	35	124.927	0.802	464.1	2.0884	0.0000	SURCHARGED
60 minute summer	84	33	124.720	0.175	53.7	0.3956	0.0000	OK
60 minute summer	85	33	124.387	0.242	122.4	0.6067	0.0000	OK
60 minute summer	86	35	123.655	0.390	242.5	1.5110	0.0000	OK
60 minute summer	78	35	123.569	1.039	801.4	3.8883	0.0000	SURCHARGED
60 minute summer	79	35	122.821	1.471	842.0	4.3562	0.0000	SURCHARGED
60 minute summer	80	36	122.212	1.032	840.5	1.8231	0.0000	SURCHARGED

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
60 minute summer	129	8.009	130	1020.4	2.859	1.867	7.3073	
480 minute winter	130	8.010	108	209.9	1.855	0.303	9.7662	
60 minute summer	117	15.000	122	57.0	1.714	0.891	2.2772	
60 minute summer	122	15.001	118	114.4	2.015	0.893	0.4985	
60 minute summer	118	15.002	119	175.2	2.666	0.704	4.6777	
60 minute summer	119	15.003	120	253.5	2.299	2.504	1.2753	
60 minute summer	120	15.004	105	274.5	1.733	1.506	3.9505	
60 minute summer	105	15.005	106	275.8	1.741	1.455	1.1427	
60 minute summer	45	16.000	106	49.2	3.154	0.302	0.3722	
60 minute summer	106	15.006	107	426.9	2.694	1.020	5.8266	
480 minute winter	107	15.007	108	65.1	1.245	0.282	4.6294	
480 minute winter	108	Orifice	109	0.0				0.8
480 minute winter	108	Infiltration		56.9				
60 minute summer	74	17.000	75	53.0	1.202	0.615	2.6248	
60 minute summer	75	17.001	76	89.2	0.845	0.686	4.5313	
60 minute summer	76	17.002	77	308.6	2.798	1.268	6.3490	
60 minute summer	83	18.000	77	70.4	1.445	0.719	2.9453	
60 minute summer	77	17.003	78	450.2	3.395	0.885	9.2884	
60 minute summer	84	19.000	85	53.7	1.673	0.858	0.7290	
60 minute summer	85	19.001	86	122.1	2.090	0.917	2.6703	
60 minute summer	86	19.002	78	237.7	1.969	0.410	8.9747	
60 minute summer	78	17.004	79	777.8	2.762	0.687	12.3335	
60 minute summer	79	17.005	80	840.5	2.984	2.075	7.6760	
60 minute summer	80	17.006	81	839.4	2.447	2.295	17.3431	



Results for 100 year +40% CC Critical Storm Duration. Lowest mass balance: 99.86%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute summer	87	33	126.661	0.161	93.6	0.4902	0.0000	OK
60 minute summer	88	33	125.135	0.310	187.2	0.8911	0.0000	OK
60 minute summer	89	33	124.908	0.298	238.9	0.6940	0.0000	OK
60 minute summer	90	33	124.469	0.404	472.5	2.3799	0.0000	OK
60 minute summer	91	33	123.838	0.418	616.6	1.7566	0.0000	OK
60 minute summer	92	33	123.517	0.582	759.3	2.2546	0.0000	OK
60 minute summer	95	32	123.526	0.136	64.1	0.3360	0.0000	OK
60 minute summer	93	33	122.926	0.516	1034.7	2.3785	0.0000	OK
60 minute winter	94	9	122.316	1.136	750.2	2.0075	0.0000	SURCHARGED
180 minute winter	81	180	122.125	1.020	599.5	2034.2150	0.0000	SURCHARGED
60 minute summer	82	1	120.830	0.000	0.0	0.0000	0.0000	OK
60 minute summer	13	35	99.141	0.686	49.1	1.4975	0.0000	SURCHARGED
60 minute summer	14	35	99.054	0.644	62.5	0.9314	0.0000	SURCHARGED
60 minute summer	15	35	98.795	1.040	102.7	1.9722	0.0000	SURCHARGED
60 minute summer	16	34	96.978	0.483	131.6	0.8216	0.0000	SURCHARGED
60 minute summer	1	33	101.098	0.108	55.6	0.2444	0.0000	OK
60 minute summer	2	33	99.629	0.129	83.7	0.2116	0.0000	OK
60 minute summer	3	32	98.901	0.166	152.3	0.4203	0.0000	OK
60 minute summer	4	34	96.506	0.276	336.1	0.6676	0.0000	OK
60 minute summer	20	34	95.577	0.642	36.0	1.1950	0.0000	SURCHARGED
60 minute summer	5	34	95.503	1.268	413.7	2.7702	0.0000	SURCHARGED
60 minute summer	6	34	94.760	1.115	477.0	2.9460	0.0000	SURCHARGED
60 minute summer	17	33	99.478	0.078	31.4	0.1396	0.0000	OK
60 minute summer	18	33	96.604	0.109	77.9	0.2259	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)
60 minute summer	87	20.000	88	93.6	1.949	0.575	3.6591	
60 minute summer	88	20.001	89	187.2	2.123	0.806	0.9120	
60 minute summer	89	20.002	90	238.9	2.049	0.688	4.8044	
60 minute summer	90	20.003	91	472.6	2.847	0.817	6.6528	
60 minute summer	91	20.004	92	615.4	2.586	0.490	3.5894	
60 minute summer	92	20.005	93	754.0	3.006	0.951	10.6442	
60 minute summer	95	21.000	93	64.2	2.740	0.566	0.3243	
60 minute summer	93	20.006	94	1032.3	3.683	0.593	4.9134	
60 minute winter	94	20.007	81	747.5	2.578	1.702	12.0687	
180 minute winter	81	Orifice	82	0.0				0.3
180 minute winter	81	Infiltration		56.9				
60 minute summer	13	22.000	14	43.9	1.487	1.105	0.3040	
60 minute summer	14	22.001	15	61.6	1.895	0.534	0.5333	
60 minute summer	15	22.002	16	101.2	2.545	1.154	1.6692	
60 minute summer	16	22.003	4	131.6	1.869	1.284	1.5345	
60 minute summer	1	23.000	2	55.6	3.081	0.421	0.4002	
60 minute summer	2	23.001	3	83.7	2.457	0.357	0.5981	
60 minute summer	3	23.002	4	153.3	3.681	0.573	1.8501	
60 minute summer	4	22.004	5	333.0	4.265	0.702	2.5568	
60 minute summer	20	24.000	5	37.6	1.959	0.369	0.4976	
60 minute summer	5	22.005	6	411.2	2.738	0.975	5.5065	
60 minute summer	6	22.006	7	476.5	3.007	0.824	4.5847	
60 minute summer	17	25.000	18	31.4	2.630	0.248	0.5743	
60 minute summer	18	25.001	19	77.9	2.855	0.288	1.0809	



Results for 100 year +40% CC Critical Storm Duration. Lowest mass balance: 99.86%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute summer	19	34	94.531	0.156	110.0	0.2749	0.0000	OK
60 minute summer	7	34	93.890	1.165	612.2	2.1731	0.0000	SURCHARGED
60 minute summer	8	34	92.757	0.392	629.1	0.6928	0.0000	OK
60 minute summer	9	35	91.632	0.717	660.6	1.4705	0.0000	SURCHARGED
360 minute winter	10	352	91.275	1.175	126.1	850.4384	0.0000	SURCHARGED
60 minute summer	11	1	90.050	0.000	0.0	0.0000	0.0000	OK
60 minute summer	21	33	94.972	0.072	17.7	0.1067	0.0000	OK
60 minute summer	29	33	94.674	0.124	22.9	0.1979	0.0000	OK
60 minute summer	22	33	94.551	0.136	93.6	0.2762	0.0000	OK
60 minute summer	23	33	92.819	0.124	131.6	0.2166	0.0000	OK
60 minute summer	24	35	89.084	0.189	149.3	0.2738	0.0000	OK
60 minute summer	31	36	88.716	0.981	31.4	1.7707	0.0000	SURCHARGED
60 minute summer	32	36	88.678	1.043	35.2	1.2869	0.0000	SURCHARGED
60 minute summer	30	35	89.086	0.086	45.2	0.1641	0.0000	OK
720 minute winter	25	720	88.658	1.138	24.1	43.1605	0.0000	SURCHARGED
720 minute winter	26	720	88.658	1.203	19.9	298.3854	0.0000	SURCHARGED
60 minute summer	27	1	87.420	0.000	0.0	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)
60 minute summer	19	25.002	7	108.7	2.417	0.406	1.3994	0.5
60 minute summer	7	22.007	8	611.8	3.873	1.415	3.0791	
60 minute summer	8	22.008	9	627.7	4.119	0.773	3.5280	
60 minute summer	9	22.009	10	660.9	4.451	0.877	2.3912	
360 minute winter	10	Orifice	11	0.0				
360 minute winter	10	Infiltration		11.1				
60 minute summer	21	26.000	22	17.7	1.699	0.198	0.1458	1.0
60 minute summer	29	27.000	22	22.9	1.086	0.501	0.1632	
60 minute summer	22	26.001	23	93.6	3.192	0.387	1.0760	
60 minute summer	23	26.002	24	131.6	4.154	0.366	1.3177	
60 minute summer	24	26.003	25	148.2	2.679	0.445	0.9059	
60 minute summer	31	28.000	32	28.7	0.721	0.595	0.4620	
60 minute summer	32	28.001	25	33.3	0.838	0.810	0.2531	
60 minute summer	30	29.000	25	45.2	1.824	0.279	0.3939	
720 minute winter	25	26.004	26	19.9	0.620	0.283	1.1292	
720 minute winter	26	Orifice	27	0.0				
720 minute winter	26	Infiltration		1.7				



Results for 100 year +40% CC +5% A Critical Storm Duration. Lowest mass balance: 99.86%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute summer	54	33	124.284	0.114	61.8	0.2785	0.0000	OK
60 minute summer	55	33	122.712	0.127	71.4	0.1700	0.0000	OK
60 minute summer	63	33	121.814	0.114	26.1	0.1861	0.0000	OK
60 minute summer	56	33	121.597	0.147	131.9	0.2585	0.0000	OK
60 minute summer	57	33	119.545	0.195	155.3	0.3052	0.0000	OK
60 minute summer	58	33	118.768	0.173	167.0	0.2847	0.0000	OK
60 minute summer	59	33	118.147	0.187	220.6	0.4539	0.0000	OK
60 minute summer	60	33	115.520	0.200	321.7	0.6618	0.0000	OK
60 minute summer	61	33	112.990	0.260	399.3	0.7467	0.0000	OK
60 minute summer	62	33	111.905	0.275	426.0	0.5295	0.0000	OK
60 minute summer	50	33	124.803	0.183	66.0	0.4669	0.0000	OK
60 minute summer	51	33	124.276	0.206	116.8	0.4467	0.0000	OK
60 minute summer	52	33	123.672	0.207	171.8	0.5133	0.0000	OK
60 minute summer	33	35	126.949	1.424	67.3	3.6181	0.0000	FLOOD RISK
60 minute summer	34	35	126.581	1.255	115.9	2.9768	0.0000	FLOOD RISK
60 minute summer	35	34	124.341	0.196	177.7	0.4951	0.0000	OK
60 minute summer	36	33	122.623	0.313	421.5	0.8503	0.0000	OK
60 minute summer	53	33	121.806	0.131	45.4	0.2705	0.0000	OK
60 minute summer	37	33	120.949	0.339	493.9	0.6270	0.0000	OK
60 minute summer	38	33	119.745	0.210	492.3	0.2998	0.0000	OK
60 minute summer	39	34	113.115	0.990	550.9	2.5533	0.0000	SURCHARGED
60 minute summer	40	33	110.755	0.410	983.4	0.9133	0.0000	OK
60 minute summer	41	34	109.398	0.343	1047.8	0.9859	0.0000	OK
60 minute summer	64	31	112.672	0.072	27.5	0.1199	0.0000	OK
60 minute summer	65	35	111.497	0.227	122.4	0.6376	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)
60 minute summer	54	1.000	55	61.8	2.862	0.490	0.5873	
60 minute summer	55	1.001	56	71.4	3.280	0.524	0.3402	
60 minute summer	63	2.000	56	26.1	1.369	0.447	0.2649	
60 minute summer	56	1.002	57	131.9	3.184	0.487	1.4762	
60 minute summer	57	1.003	58	155.3	3.564	0.572	0.5010	
60 minute summer	58	1.004	59	167.0	3.197	0.338	0.5497	
60 minute summer	59	1.005	60	220.7	4.193	0.456	2.3271	
60 minute summer	60	1.006	61	321.7	3.943	0.409	3.5986	
60 minute summer	61	1.007	62	399.2	4.068	0.510	1.8567	
60 minute summer	62	1.008	40	426.0	4.416	0.542	1.8967	
60 minute summer	50	3.000	51	66.0	2.002	0.898	0.7871	
60 minute summer	51	3.001	52	116.8	2.403	0.712	1.1859	
60 minute summer	52	3.002	36	171.7	2.122	0.607	4.6576	
60 minute summer	33	4.000	34	60.2	1.514	1.218	0.8789	
60 minute summer	34	4.001	35	112.2	2.822	1.327	1.6718	
60 minute summer	35	4.002	36	177.7	3.510	0.730	2.0084	
60 minute summer	36	3.003	37	419.6	4.155	0.897	3.1852	
60 minute summer	53	5.000	37	45.4	1.748	0.646	1.4978	
60 minute summer	37	3.004	38	492.3	5.743	0.647	0.6312	
60 minute summer	38	3.005	39	491.9	5.149	0.618	4.1115	
60 minute summer	39	3.006	40	542.2	5.038	0.979	2.0741	
60 minute summer	40	1.009	41	984.6	5.400	0.588	4.0614	
60 minute summer	41	1.010	42	1046.8	4.735	0.517	6.3690	
60 minute summer	64	6.000	65	27.6	2.378	0.221	0.4192	
60 minute summer	65	6.001	66	117.3	1.902	0.504	2.6904	



Results for 100 year +40% CC +5% A Critical Storm Duration. Lowest mass balance: 99.86%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute summer	66	35	111.123	1.688	168.8	3.2226	0.0000	SURCHARGED
60 minute summer	67	35	110.549	1.434	218.3	3.5187	0.0000	FLOOD RISK
60 minute summer	68	35	108.502	1.487	289.2	4.3815	0.0000	FLOOD RISK
60 minute summer	69	35	107.993	1.123	317.7	2.3298	0.0000	SURCHARGED
60 minute summer	42	34	107.581	0.981	1412.6	2.3873	0.0000	SURCHARGED
60 minute summer	43	35	104.802	0.457	1472.0	1.3282	0.0000	OK
60 minute summer	70	34	106.381	1.156	93.5	3.6088	0.0000	FLOOD RISK
60 minute summer	71	34	104.414	0.194	172.9	0.5677	0.0000	OK
60 minute summer	72	34	102.375	1.895	252.9	5.8480	5.8711	FLOOD
60 minute summer	73	35	102.345	2.075	282.5	4.1621	0.0000	SURCHARGED
60 minute summer	12	35	102.332	2.121	280.9	3.7487	0.0000	SURCHARGED
60 minute summer	44	35	102.319	2.224	1755.9	6.5536	0.0000	SURCHARGED
60 minute summer	46	37	101.579	1.554	1761.4	4.1797	0.0000	SURCHARGED
60 minute winter	47	55	101.215	1.245	1376.9	1352.1360	0.0000	SURCHARGED
60 minute winter	48	68	99.701	0.010	0.0	0.0252	0.0000	OK
60 minute winter	49	68	99.661	0.000	0.0	0.0000	0.0000	OK
60 minute summer	96	34	125.104	1.004	81.8	2.7278	0.0000	SURCHARGED
60 minute summer	97	34	124.815	1.505	170.9	4.8100	1.2760	FLOOD
60 minute summer	98	35	123.828	1.348	216.3	3.5425	0.0000	FLOOD RISK
60 minute summer	99	35	123.602	1.417	287.4	4.0817	0.0000	FLOOD RISK
60 minute summer	110	33	123.900	0.100	28.9	0.1737	0.0000	OK
60 minute summer	111	35	123.822	0.622	65.3	1.1643	0.0000	SURCHARGED
60 minute summer	112	35	123.599	0.748	94.4	1.3637	0.0000	SURCHARGED
60 minute summer	113	35	123.368	0.758	136.8	1.5614	0.0000	SURCHARGED
Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
60 minute summer	66	6.002	67	151.9	2.168	1.193	1.7206	
60 minute summer	67	6.003	68	213.1	3.027	0.938	3.4378	
60 minute summer	68	6.004	69	288.2	2.613	2.200	1.7881	
60 minute summer	69	6.005	42	326.1	2.058	1.672	5.1832	
60 minute summer	42	1.011	43	1400.3	5.765	0.944	12.5024	
60 minute summer	43	1.012	44	1468.3	5.373	0.648	9.7736	
60 minute summer	70	7.000	71	87.3	2.195	1.375	2.4637	
60 minute summer	71	7.001	72	171.1	3.370	0.636	3.5158	
60 minute summer	72	7.002	73	257.8	0.980	0.580	9.0551	
60 minute summer	73	7.003	12	280.9	0.787	0.457	4.9577	
60 minute summer	12	7.004	44	278.6	0.781	0.520	4.3384	
60 minute summer	44	1.013	46	1747.7	3.971	2.454	9.2214	
60 minute summer	46	1.014	47	1757.0	3.993	2.453	7.1608	
60 minute winter	47	Orifice	48	0.0				
60 minute winter	47	Infiltration		258.1				
60 minute winter	48	1.016	49	0.0	0.079	0.000	0.0124	0.2
60 minute summer	96	8.000	97	74.4	1.297	0.540	3.6255	
60 minute summer	97	8.001	98	157.6	2.239	1.097	3.1918	
60 minute summer	98	8.002	99	211.8	1.920	0.818	1.4547	
60 minute summer	99	8.003	100	280.2	1.769	1.510	10.7257	
60 minute summer	110	9.000	111	28.9	1.044	0.411	0.9341	
60 minute summer	111	9.001	112	59.2	1.774	0.844	0.6046	
60 minute summer	112	9.002	113	91.5	1.497	0.938	2.1889	
60 minute summer	113	9.003	100	133.5	1.988	0.733	1.3175	



Results for 100 year +40% CC +5% A Critical Storm Duration. Lowest mass balance: 99.86%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute summer	100	35	123.044	1.084	469.4	2.4822	0.0000	SURCHARGED
60 minute summer	101	35	122.585	0.710	552.4	2.1523	0.0000	SURCHARGED
60 minute summer	114	33	121.501	0.201	153.2	0.8446	0.0000	OK
60 minute winter	102	57	121.315	2.020	652.8	772.0646	7.6435	FLOOD
60 minute summer	103	32	119.163	0.153	140.2	0.4546	0.0000	OK
60 minute summer	104	33	118.795	0.135	194.3	0.3576	0.0000	OK
60 minute summer	132	33	123.717	0.117	88.0	0.3368	0.0000	OK
60 minute summer	133	33	121.416	0.476	130.6	0.8847	0.0000	SURCHARGED
60 minute summer	134	33	121.052	0.182	149.3	0.2770	0.0000	OK
60 minute summer	135	34	119.727	0.177	186.8	0.3837	0.0000	OK
60 minute summer	136	34	119.172	0.667	193.2	1.0394	0.0000	SURCHARGED
60 minute summer	137	34	118.953	1.068	271.3	3.4058	0.0000	SURCHARGED
60 minute summer	138	34	118.875	1.110	266.9	2.0161	0.0000	SURCHARGED
60 minute summer	123	33	124.212	0.162	77.6	0.3962	0.0000	OK
60 minute summer	124	33	123.702	0.137	107.8	0.2364	0.0000	OK
60 minute summer	131	33	122.065	0.065	16.5	0.0919	0.0000	OK
60 minute summer	125	33	121.150	0.180	199.2	0.4738	0.0000	OK
60 minute summer	126	33	120.275	0.204	234.2	0.4208	0.0000	OK
60 minute summer	127	33	119.397	0.152	248.6	0.3044	0.0000	OK
60 minute summer	128	34	118.833	1.108	571.1	2.7857	0.0000	SURCHARGED
60 minute summer	139	33	121.963	0.093	41.9	0.1849	0.0000	OK
60 minute summer	140	33	120.405	0.145	167.0	0.5466	0.0000	OK
60 minute summer	141	35	118.772	0.462	219.9	1.0614	0.0000	SURCHARGED
60 minute summer	142	35	118.363	1.083	808.3	2.8244	0.0000	SURCHARGED
60 minute summer	28	35	118.016	0.946	849.7	2.4498	0.0000	SURCHARGED

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
60 minute summer	100	8.004	101	465.8	2.959	1.830	2.1648	
60 minute summer	101	8.005	102	544.2	3.456	0.951	12.3484	
60 minute summer	114	10.000	102	152.0	2.712	0.762	3.2098	
60 minute winter	102	Hydro-Brake®	103	75.0				
60 minute summer	103	8.007	104	140.0	2.520	0.089	0.6910	
60 minute summer	104	8.008	129	193.8	0.846	0.092	10.7644	
60 minute summer	132	11.000	133	88.0	1.565	0.325	2.1619	
60 minute summer	133	11.001	134	130.1	2.031	1.776	0.9203	
60 minute summer	134	11.002	135	149.0	3.534	0.593	1.0337	
60 minute summer	135	11.003	136	185.6	2.996	0.354	1.2399	
60 minute summer	136	11.004	137	187.5	2.645	0.603	1.8141	
60 minute summer	137	11.005	138	262.3	1.074	0.666	10.2415	
60 minute summer	138	11.006	128	268.2	1.102	0.661	3.2173	
60 minute summer	123	12.000	124	77.6	2.214	0.496	0.8613	
60 minute summer	124	12.001	125	107.8	3.539	0.401	1.2850	
60 minute summer	131	13.000	125	16.5	1.774	0.173	0.2247	
60 minute summer	125	12.002	126	199.2	3.081	0.300	1.3854	
60 minute summer	126	12.003	127	234.2	3.707	0.325	0.9623	
60 minute summer	127	12.004	128	248.6	2.376	0.189	2.6348	
60 minute summer	128	11.007	142	566.7	2.012	0.919	15.6018	
60 minute summer	139	14.000	140	41.9	2.799	0.330	0.3714	
60 minute summer	140	14.001	141	167.0	2.866	0.325	2.2046	
60 minute summer	141	14.002	142	210.7	2.633	0.672	3.6364	
60 minute summer	142	11.008	28	804.5	3.077	0.819	2.9168	
60 minute summer	28	11.009	129	848.8	3.014	0.652	7.8813	



Results for 100 year +40% CC +5% A Critical Storm Duration. Lowest mass balance: 99.86%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute summer	129	35	117.365	1.365	1067.5	3.0875	0.0000	SURCHARGED
480 minute winter	130	488	117.034	1.104	218.7	1.9514	0.0000	SURCHARGED
60 minute summer	117	33	122.093	0.173	59.8	0.4161	0.0000	OK
60 minute summer	122	33	121.100	0.280	120.4	0.6546	0.0000	OK
60 minute summer	118	34	120.926	0.221	185.4	0.5464	0.0000	OK
60 minute summer	119	34	118.672	1.917	282.3	5.4145	0.0000	FLOOD RISK
60 minute summer	120	35	118.320	1.670	289.8	3.0231	0.0000	SURCHARGED
60 minute summer	105	35	118.040	1.470	287.3	2.1030	0.0000	SURCHARGED
60 minute summer	45	34	118.237	0.117	52.2	0.2440	0.0000	OK
60 minute summer	106	35	117.898	1.353	449.4	3.6655	0.0000	SURCHARGED
480 minute winter	107	488	117.032	1.102	68.9	1.5770	0.0000	SURCHARGED
480 minute winter	108	488	117.032	1.252	284.8	2416.5460	0.0000	SURCHARGED

60 minute summer	109	1	115.505	0.000	0.0	0.0000	0.0000	OK
60 minute summer	74	35	127.047	1.447	59.1	3.3782	0.0000	FLOOD RISK
60 minute summer	75	35	126.947	1.647	79.7	3.0189	0.0000	SURCHARGED
60 minute summer	76	35	126.865	1.740	342.8	9.1458	0.0000	SURCHARGED
60 minute summer	83	35	125.365	0.765	74.9	2.0161	0.0000	SURCHARGED
60 minute summer	77	35	125.186	1.061	478.7	2.8271	0.0000	SURCHARGED
60 minute summer	84	33	124.728	0.183	56.3	0.4251	0.0000	OK
60 minute summer	85	33	124.401	0.256	128.5	0.6575	0.0000	OK
60 minute summer	86	35	123.868	0.602	254.4	2.3984	0.0000	SURCHARGED
60 minute summer	78	35	123.736	1.206	813.9	4.6319	0.0000	SURCHARGED
60 minute summer	79	35	122.930	1.580	873.1	4.7726	0.0000	FLOOD RISK
60 minute summer	80	37	122.262	1.082	873.4	1.9112	0.0000	SURCHARGED

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
60 minute summer	129	8.009	130	1061.6	2.974	1.943	7.3073	
480 minute winter	130	8.010	108	216.6	1.843	0.312	9.7662	
60 minute summer	117	15.000	122	59.9	1.710	0.937	2.4084	
60 minute summer	122	15.001	118	119.4	2.021	0.932	0.5354	
60 minute summer	118	15.002	119	182.7	2.718	0.734	4.9121	
60 minute summer	119	15.003	120	265.7	2.409	2.624	1.2753	
60 minute summer	120	15.004	105	287.3	1.813	1.576	3.9505	
60 minute summer	105	15.005	106	288.0	1.818	1.519	1.1427	
60 minute summer	45	16.000	106	51.3	3.193	0.315	0.3996	
60 minute summer	106	15.006	107	445.6	2.813	1.064	5.8266	
480 minute winter	107	15.007	108	68.3	1.258	0.295	4.6294	
480 minute winter	108	Orifice	109	0.0				0.8
480 minute winter	108	Infiltration		56.9				

60 minute summer	74	17.000	75	55.5	1.171	0.644	2.6248	
60 minute summer	75	17.001	76	91.4	0.919	0.702	4.5313	
60 minute summer	76	17.002	77	316.1	2.866	1.298	6.3490	
60 minute summer	83	18.000	77	74.4	1.450	0.760	2.9453	
60 minute summer	77	17.003	78	464.5	3.418	0.913	9.2884	
60 minute summer	84	19.000	85	56.3	1.678	0.900	0.7744	
60 minute summer	85	19.001	86	128.0	2.089	0.961	3.0047	
60 minute summer	86	19.002	78	234.4	1.974	0.404	9.9943	
60 minute summer	78	17.004	79	808.4	2.870	0.714	12.3335	
60 minute summer	79	17.005	80	873.4	3.101	2.157	7.6760	
60 minute summer	80	17.006	81	871.5	2.461	2.383	17.3431	



Results for 100 year +40% CC +5% A Critical Storm Duration. Lowest mass balance: 99.86%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute summer	87	33	126.666	0.166	98.3	0.5210	0.0000	OK
60 minute summer	88	33	125.148	0.323	196.6	0.9536	0.0000	OK
60 minute summer	89	33	124.920	0.310	250.6	0.7365	0.0000	OK
60 minute summer	90	33	124.488	0.423	495.7	2.5785	0.0000	OK
60 minute summer	91	34	123.974	0.554	645.8	2.3917	0.0000	OK
60 minute summer	92	34	123.755	0.820	779.7	3.2601	0.0000	SURCHARGED
60 minute summer	95	32	123.528	0.138	67.3	0.3501	0.0000	OK
60 minute summer	93	34	123.079	0.669	1058.5	3.1798	0.0000	SURCHARGED
60 minute winter	94	9	122.371	1.191	787.7	2.1045	0.0000	SURCHARGED
180 minute winter	81	180	122.181	1.076	629.8	2163.7730	0.0000	SURCHARGED
60 minute summer	82	1	120.830	0.000	0.0	0.0000	0.0000	OK
60 minute summer	13	35	99.347	0.892	51.5	1.9935	0.0000	SURCHARGED
60 minute summer	14	35	99.256	0.846	64.7	1.2377	0.0000	SURCHARGED
60 minute summer	15	35	98.989	1.234	106.5	2.3883	0.0000	SURCHARGED
60 minute summer	16	35	97.085	0.590	136.1	1.0204	0.0000	SURCHARGED
60 minute summer	1	33	101.101	0.111	58.4	0.2582	0.0000	OK
60 minute summer	2	33	99.633	0.133	87.9	0.2224	0.0000	OK
60 minute summer	3	32	98.907	0.172	160.1	0.4483	0.0000	OK
60 minute summer	4	35	96.650	0.420	350.0	1.0351	0.0000	SURCHARGED
60 minute summer	20	34	95.807	0.872	37.8	1.6557	0.0000	SURCHARGED
60 minute summer	5	34	95.722	1.487	428.9	3.3045	0.0000	SURCHARGED
60 minute summer	6	34	94.976	1.331	490.6	3.5990	0.0000	SURCHARGED
60 minute summer	17	33	99.480	0.080	33.0	0.1460	0.0000	OK
60 minute summer	18	33	96.607	0.112	81.8	0.2371	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)
60 minute summer	87	20.000	88	98.3	1.948	0.604	3.8340	
60 minute summer	88	20.001	89	196.3	2.140	0.845	0.9474	
60 minute summer	89	20.002	90	250.5	2.055	0.722	5.0591	
60 minute summer	90	20.003	91	494.6	2.842	0.855	7.8743	
60 minute summer	91	20.004	92	628.5	2.570	0.501	4.0608	
60 minute summer	92	20.005	93	765.2	2.989	0.965	11.1612	
60 minute summer	95	21.000	93	67.2	2.730	0.593	0.4111	
60 minute summer	93	20.006	94	1049.9	3.728	0.604	5.1299	
60 minute winter	94	20.007	81	785.4	2.581	1.788	12.0687	
180 minute winter	81	Orifice	82	0.0				0.3
180 minute winter	81	Infiltration		56.9				
60 minute summer	13	22.000	14	45.1	1.481	1.133	0.3040	
60 minute summer	14	22.001	15	63.8	1.903	0.553	0.5333	
60 minute summer	15	22.002	16	103.5	2.603	1.181	1.6692	
60 minute summer	16	22.003	4	134.4	1.909	1.312	1.5711	
60 minute summer	1	23.000	2	58.4	3.117	0.442	0.4155	
60 minute summer	2	23.001	3	87.9	2.508	0.376	0.6237	
60 minute summer	3	23.002	4	160.2	3.657	0.598	2.3024	
60 minute summer	4	22.004	5	343.4	4.299	0.724	2.8579	
60 minute summer	20	24.000	5	41.3	1.983	0.406	0.4976	
60 minute summer	5	22.005	6	417.8	2.732	0.990	5.5065	
60 minute summer	6	22.006	7	483.3	3.050	0.836	4.5847	
60 minute summer	17	25.000	18	33.0	2.666	0.260	0.5954	
60 minute summer	18	25.001	19	81.8	2.827	0.302	1.2350	



Results for 100 year +40% CC +5% A Critical Storm Duration. Lowest mass balance: 99.86%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute summer	19	34	94.559	0.184	115.5	0.3311	0.0000	OK
60 minute summer	7	34	94.097	1.372	629.7	2.5887	0.0000	SURCHARGED
60 minute summer	8	35	92.982	0.617	643.4	1.1025	0.0000	SURCHARGED
60 minute summer	9	36	91.704	0.789	674.3	1.6431	0.0000	SURCHARGED
360 minute winter	10	360	91.346	1.246	132.4	903.3549	0.0000	SURCHARGED
60 minute summer	11	1	90.050	0.000	0.0	0.0000	0.0000	OK
60 minute summer	21	33	94.974	0.074	18.6	0.1110	0.0000	OK
60 minute summer	29	33	94.679	0.129	24.1	0.2073	0.0000	OK
60 minute summer	22	33	94.555	0.140	98.4	0.2909	0.0000	OK
60 minute summer	23	33	92.823	0.128	138.3	0.2264	0.0000	OK
60 minute summer	24	35	89.127	0.232	156.9	0.3395	0.0000	OK
60 minute summer	31	35	88.890	1.155	33.0	2.1232	0.0000	FLOOD RISK
60 minute summer	32	35	88.845	1.210	36.9	1.4988	0.0000	SURCHARGED
60 minute summer	30	35	89.100	0.100	47.4	0.1952	0.0000	OK
60 minute summer	25	35	88.802	1.282	241.0	43.3321	0.0000	SURCHARGED
720 minute winter	26	720	88.723	1.268	21.0	317.3012	0.0000	SURCHARGED
60 minute summer	27	1	87.420	0.000	0.0	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)
60 minute summer	19	25.002	7	113.5	2.384	0.424	1.5093	
60 minute summer	7	22.007	8	624.2	3.943	1.444	3.2004	
60 minute summer	8	22.008	9	637.9	4.131	0.785	3.6670	
60 minute summer	9	22.009	10	669.0	4.437	0.887	2.3912	
360 minute winter	10	Orifice	11	0.0				0.6
360 minute winter	10	Infiltration		11.1				
60 minute summer	21	26.000	22	18.6	1.720	0.208	0.1513	
60 minute summer	29	27.000	22	24.1	1.099	0.527	0.1697	
60 minute summer	22	26.001	23	98.4	3.232	0.407	1.1174	
60 minute summer	23	26.002	24	138.3	4.166	0.385	1.5486	
60 minute summer	24	26.003	25	155.6	2.712	0.467	0.9962	
60 minute summer	31	28.000	32	30.0	0.754	0.622	0.4620	
60 minute summer	32	28.001	25	34.9	0.877	0.849	0.2531	
60 minute summer	30	29.000	25	47.3	1.835	0.292	0.4171	
60 minute summer	25	26.004	26	212.4	3.016	3.016	1.1292	
720 minute winter	26	Orifice	27	0.0				1.1
720 minute winter	26	Infiltration		1.7				