



Design Settings

Rainfall Methodology	FSR	Maximum Time of Concentration (mins)	30.00
Return Period (years)	2	Maximum Rainfall (mm/hr)	250.0
Additional Flow (%)	10	Minimum Velocity (m/s)	0.75
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)	0.400
CV	0.750	Include Intermediate Ground	✓
Time of Entry (mins)	5.00	Enforce best practice design rules	x

Nodes

Name	Area (ha)	T of E (mins)	Cover Level (m)	Diameter (mm)	Easting (m)	Northing (m)	Depth (m)
130	0.003	5.00	10.600	450	493413.900	104637.612	0.550
129	0.003	5.00	10.600	450	493425.135	104639.776	0.440
128	0.004	5.00	10.455	450	493424.436	104651.604	0.315
127	0.003	5.00	10.600	450	493423.115	104646.304	0.500
126	0.003	5.00	10.600	450	493411.675	104643.807	0.620
125			10.600	450	493408.609	104643.138	0.841
124	0.002	5.00	10.600	450	493416.007	104627.848	0.500
123	0.002	5.00	10.600	450	493426.949	104629.669	0.450
122	0.001	5.00	10.600	450	493426.719	104636.260	0.500
121	0.001	5.00	10.600	450	493415.726	104635.875	0.610
120			10.600	450	493411.201	104635.717	0.843
119	0.004	5.00	10.600	450	493428.457	104613.114	0.450
118	0.004	5.00	10.600	450	493413.568	104624.632	0.450
117	0.004	5.00	10.600	450	493413.972	104612.608	0.600
116			10.650	450	493409.718	104612.459	0.889
115	0.004	5.00	10.600	450	493401.378	104622.161	0.550
114			10.600	450	493406.271	104622.331	0.839
113		5.00	10.700	450	493404.067	104641.400	0.700
112	0.020	5.00	10.550	450	493400.446	104641.281	0.570
111			10.600	450	493401.940	104641.326	0.630
110			10.700	450	493402.061	104637.866	0.920
109		5.00	10.700	450	493409.882	104629.117	0.700
108			10.600	450	493410.000	104625.600	0.660
107		5.00	10.600	450	493407.283	104623.431	0.600
106			10.600	450	493407.213	104625.506	0.670
105		5.00	10.600	450	493402.414	104627.772	0.580
104			10.600	450	493402.499	104625.348	0.680
103	0.003	5.00	10.685	450	493385.415	104626.399	0.670
102	0.004	5.00	10.685	450	493388.378	104639.216	0.560
101	0.004	5.00	10.800	450	493393.876	104639.392	0.725
100	0.004	5.00	10.685	450	493394.308	104625.876	0.750
99			10.685	450	493394.442	104622.066	0.775
98			10.685	450	493392.012	104617.619	0.775
97			10.600	450	493389.978	104617.847	0.863
96	0.002	5.00	10.745	450	493350.306	104700.955	0.325
95	0.002	5.00	10.745	450	493339.002	104702.223	0.400
94	0.003	5.00	10.745	450	493331.125	104695.003	0.470
93			10.850	450	493329.483	104695.864	0.941
92	0.003	5.00	10.695	450	493370.192	104627.205	0.660
91	0.004	5.00	10.695	450	493373.867	104639.852	0.570
90	0.004	5.00	10.792	450	493379.366	104639.725	0.717



Nodes

Name	Area (ha)	T of E (mins)	Cover Level (m)	Diameter (mm)	Easting (m)	Northing (m)	Depth (m)
89	0.004	5.00	10.695	450	493379.043	104626.197	0.760
88		5.00	10.600	450	493383.419	104618.582	0.640
87			10.695	450	493378.892	104619.090	0.795
86			10.600	450	493376.518	104619.356	0.863
85		5.00	10.600	450	493327.848	104695.253	0.450
84	0.003	5.00	10.745	450	493331.683	104683.484	0.625
83	0.003	5.00	10.745	450	493342.120	104676.572	0.495
82	0.004	5.00	10.745	450	493347.493	104681.899	0.558
81	0.004	5.00	10.798	450	493348.064	104686.987	0.662
80	0.003	5.00	10.745	450	493331.713	104690.271	0.685
79			10.745	450	493325.596	104690.957	0.745
78			10.700	450	493324.950	104689.724	0.890
77	0.003	5.00	10.595	450	493354.778	104629.026	0.545
76	0.004	5.00	10.595	450	493359.569	104641.212	0.485
75	0.004	5.00	10.692	450	493365.033	104640.582	0.632
74	0.004	5.00	10.595	450	493363.486	104627.148	0.665
73		5.00	10.700	450	493369.959	104620.092	0.750
72			10.595	450	493362.785	104620.897	0.705
71			10.700	450	493359.907	104621.219	0.963
70	0.004	5.00	10.600	450	493358.941	104696.286	0.550
69	0.004	5.00	10.600	450	493357.758	104685.801	0.575
68			10.650	450	493364.993	104680.374	0.834
67	0.005	5.00	10.700	450	493414.415	104667.503	0.500
66	0.004	5.00	10.700	450	493411.848	104657.623	0.500
65	0.004	5.00	10.700	450	493403.213	104657.623	0.583
64	0.004	5.00	10.700	450	493403.213	104667.503	0.600
63			10.700	450	493398.343	104666.882	0.890
62	0.006	5.00	10.650	450	493385.080	104659.420	0.280
61			10.700	450	493385.080	104668.841	0.400
60	0.004	5.00	10.700	450	493412.859	104675.443	0.320
59	0.004	5.00	10.700	450	493412.859	104668.841	0.380
58	0.004	5.00	10.700	450	493398.343	104668.841	0.520
57	0.004	5.00	10.700	450	493398.343	104675.986	0.520
56			10.850	450	493396.203	104675.986	0.880
55	0.003	5.00	10.745	450	493325.376	104669.345	0.645
54	0.003	5.00	10.745	450	493335.815	104662.436	0.495
53	0.004	5.00	10.745	450	493341.187	104667.761	0.558
52	0.004	5.00	10.798	450	493341.757	104672.849	0.662
51	0.003	5.00	10.745	450	493325.406	104676.133	0.709
50		5.00	10.700	450	493320.493	104681.221	0.550
49			10.745	450	493318.247	104676.936	0.755
48			10.700	450	493317.894	104673.792	0.902
47	0.003	5.00	10.595	450	493339.986	104629.462	0.595
46	0.003	5.00	10.595	450	493338.620	104638.669	0.435
45	0.003	5.00	10.595	450	493344.774	104641.635	0.505
44	0.003	5.00	10.692	450	493350.238	104641.005	0.652
43	0.003	5.00	10.595	450	493348.691	104627.571	0.685
42			10.700	450	493348.244	104623.584	0.963
41		5.00	10.700	450	493353.348	104621.955	0.500
40			10.595	450	493351.067	104622.211	0.715
39			10.700	450	493348.673	104622.479	0.963
38	0.010	5.00	10.700	450	493411.986	104653.837	0.600



Nodes

Name	Area (ha)	T of E (mins)	Cover Level (m)	Diameter (mm)	Easting (m)	Northing (m)	Depth (m)
37			10.700	450	493398.343	104656.257	0.700
36		5.00	10.700	450	493398.343	104657.782	0.700
35		5.00	10.750	450	493386.603	104675.986	0.540
34		5.00	10.700	450	493380.582	104679.800	0.650
33			10.700	450	493383.140	104679.689	0.750
32			10.700	450	493382.980	104675.986	0.800
31			10.765	450	493382.130	104656.257	0.875
30			10.700	450	493379.572	104656.367	0.884
29		5.00	10.700	450	493316.309	104665.316	0.720
28	0.003	5.00	10.745	450	493320.142	104655.093	0.445
27	0.003	5.00	10.745	450	493330.581	104648.184	0.445
26	0.004	5.00	10.745	450	493335.953	104653.509	0.558
25	0.004	5.00	10.798	450	493336.523	104658.597	0.662
24	0.003	5.00	10.745	450	493320.264	104662.789	0.735
23			10.745	450	493316.078	104663.257	0.765
22			10.700	450	493315.944	104662.067	0.911
21		5.00	10.595	450	493342.113	104623.200	0.665
20	0.006	5.00	10.595	450	493325.148	104625.103	0.725
19			10.595	450	493315.109	104626.229	0.735
18			10.700	450	493315.618	104630.773	0.954
17	0.006	5.00	10.700	450	493335.162	104632.479	0.500
16	0.006	5.00	10.500	450	493336.050	104643.626	0.407
15	0.006	5.00	10.585	450	493320.909	104645.324	0.600
14			10.700	450	493318.836	104645.557	0.954
13	0.070	5.00	10.700	450	493353.964	104656.721	0.625
12			10.825	450	493350.236	104656.882	0.945
11			10.500	450	493337.617	104645.282	0.640
10		5.00	10.700	450	493317.357	104646.276	0.500
9			10.685	450	493317.499	104647.539	0.835
8		5.00	10.700	450	493313.919	104652.647	0.670
7			10.745	450	493313.758	104651.210	0.775
6			10.585	450	493313.397	104647.989	0.735
5			10.585	450	493306.395	104648.756	0.745
4			10.000	1200	493306.086	104645.711	0.366
3	0.040	5.00	10.170	1200	493298.262	104637.156	0.440
2			10.230	1200	493296.021	104637.579	0.500
1			10.000	1200	493293.935	104637.972	0.300



Links

Name	US Node	DS Node	Length (m)	ks (mm) / n	US IL (m)	DS IL (m)	Fall (m)	Slope (1:X)	Dia (mm)	T of C (mins)	Rain (mm/hr)
49.001	2	1	2.123	0.600	9.730	9.700	0.030	70.8	150	5.08	69.8
49.000	3	2	2.281	0.600	9.730	9.730	0.000	0.0	150	5.05	70.0
1.005	5	4	3.061	0.600	9.840	9.830	0.010	306.1	150	7.95	56.6
1.004	6	5	7.044	0.600	9.850	9.840	0.010	704.4	150	7.86	57.0
1.003	9	6	4.127	0.600	9.850	9.850	0.000	0.0	150	7.54	58.2
3.001	7	6	3.241	0.600	9.970	9.850	0.120	27.0	150	5.04	70.0
3.000	8	7	1.446	0.600	10.030	9.970	0.060	24.1	150	5.01	70.2
1.002	11	9	20.244	0.600	9.860	9.850	0.010	2024.4	150	7.45	58.5
2.000	10	9	1.271	0.600	10.200	9.850	0.350	3.6	100	5.01	70.2
1.001	12	11	17.141	0.600	9.880	9.860	0.020	857.0	150	5.88	65.5
1.000	13	12	3.731	0.600	10.075	9.880	0.195	19.1	150	5.03	70.1
30.002	15	14	2.086	0.600	9.985	9.960	0.025	83.4	100	5.68	66.5
30.001	16	15	15.236	0.600	10.093	9.985	0.108	141.1	100	5.64	66.7
30.000	17	16	11.182	0.600	10.200	10.093	0.107	104.5	100	5.25	68.8
19.002	19	18	4.572	0.600	9.860	9.860	0.000	0.0	150	6.13	64.2
19.001	20	19	10.102	0.600	9.870	9.860	0.010	1010.2	150	6.03	64.7
19.000	21	20	17.071	0.600	9.930	9.870	0.060	284.5	150	5.48	67.5
10.004	23	22	1.198	0.600	9.980	9.980	0.000	0.0	150	5.88	65.4
12.000	29	23	2.072	0.600	9.980	9.980	0.000	0.0	150	5.05	70.0
10.003	24	23	4.212	0.600	10.010	10.000	0.010	421.2	100	5.86	65.6
11.000	28	24	7.697	0.600	10.300	10.010	0.290	26.5	100	5.09	69.8
10.002	25	24	16.791	0.600	10.136	10.010	0.126	133.3	100	5.67	66.5
10.001	26	25	5.120	0.600	10.187	10.136	0.051	100.4	100	5.25	68.8
10.000	27	26	7.564	0.600	10.300	10.187	0.113	66.9	100	5.13	69.5

Name	Vel (m/s)	Cap (l/s)	Flow (l/s)	US Depth (m)	DS Depth (m)	Σ Area (ha)	Σ Add Inflow (l/s)
49.001	1.197	21.1	8.3	0.350	0.150	0.040	0.0
49.000	0.750	13.3	8.3	0.290	0.350	0.040	0.0
1.005	0.569	10.1	11.8	0.595	0.020	0.070	0.0
1.004	0.371	6.6	11.9	0.585	0.595	0.070	0.0
1.003	0.750	13.3	12.1	0.685	0.585	0.070	0.0
3.001	1.945	34.4	0.0	0.625	0.585	0.000	0.0
3.000	2.059	36.4	0.0	0.520	0.625	0.000	0.0
1.002	0.215	3.8	12.2	0.490	0.685	0.070	0.0
2.000	4.088	32.1	0.0	0.400	0.735	0.000	0.0
1.001	0.336	5.9	13.7	0.795	0.490	0.070	0.0
1.000	2.313	40.9	14.6	0.475	0.795	0.070	0.0
30.002	0.843	6.6	3.6	0.500	0.640	0.018	0.0
30.001	0.645	5.1	2.4	0.307	0.500	0.012	0.0
30.000	0.752	5.9	1.2	0.400	0.307	0.006	0.0
19.002	0.750	13.3	1.1	0.585	0.690	0.006	0.0
19.001	0.308	5.4	1.2	0.575	0.585	0.006	0.0
19.000	0.591	10.4	0.0	0.515	0.575	0.000	0.0
10.004	0.750	13.3	3.3	0.615	0.570	0.017	0.0
12.000	0.750	13.3	0.0	0.570	0.615	0.000	0.0
10.003	0.369	2.9	3.3	0.635	0.645	0.017	0.0
11.000	1.504	11.8	0.6	0.345	0.635	0.003	0.0
10.002	0.664	5.2	2.2	0.562	0.635	0.011	0.0
10.001	0.767	6.0	1.4	0.458	0.562	0.007	0.0
10.000	0.942	7.4	0.6	0.345	0.458	0.003	0.0



Links

Name	US Node	DS Node	Length (m)	ks (mm) / n	US IL (m)	DS IL (m)	Fall (m)	Slope (1:X)	Dia (mm)	T of C (mins)	Rain (mm/hr)
13.002	31	30	2.560	0.600	9.890	9.890	0.000	0.0	150	6.64	61.8
13.001	37	31	16.213	0.600	10.000	9.890	0.110	147.4	150	5.60	66.9
15.002	32	31	19.747	0.600	9.900	9.890	0.010	1974.7	150	6.59	62.1
16.000	35	32	3.623	0.600	10.210	9.900	0.310	11.7	150	5.02	70.1
15.001	33	32	3.706	0.600	9.950	9.900	0.050	74.1	150	5.07	69.8
15.000	34	33	2.560	0.600	10.050	9.950	0.100	25.6	150	5.02	70.1
13.000	38	37	13.856	0.600	10.100	10.000	0.100	138.6	150	5.27	68.7
14.000	36	37	1.525	0.600	10.000	10.000	0.000	0.0	150	5.03	70.1
48.001	40	39	2.409	0.600	9.880	9.880	0.000	0.0	150	5.06	69.9
48.000	41	40	2.295	0.600	10.200	9.880	0.320	7.2	150	5.01	70.2
25.003	43	42	4.012	0.600	9.910	9.880	0.030	133.7	150	5.65	66.6
26.000	47	43	8.908	0.600	10.000	9.910	0.090	99.0	100	5.19	69.1
25.002	44	43	13.523	0.600	10.040	9.910	0.130	104.0	100	5.57	67.0
25.001	45	44	5.500	0.600	10.090	10.040	0.050	110.0	100	5.27	68.7
25.000	46	45	6.831	0.600	10.160	10.090	0.070	97.6	100	5.15	69.4
4.004	49	48	3.164	0.600	9.990	9.990	0.000	0.0	150	6.03	64.7
4.003	51	49	7.204	0.600	10.036	9.990	0.046	156.6	100	5.96	65.1
6.000	50	49	4.838	0.600	10.150	9.990	0.160	30.2	150	5.04	70.0
5.000	55	51	6.788	0.600	10.100	10.036	0.064	106.1	100	5.15	69.4
4.002	52	51	16.678	0.600	10.136	10.036	0.100	166.8	100	5.76	66.1
4.001	53	52	5.120	0.600	10.187	10.136	0.051	100.4	100	5.29	68.6
4.000	54	53	7.564	0.600	10.250	10.187	0.063	120.1	100	5.18	69.2
17.003	57	56	2.140	0.600	10.180	10.160	0.020	107.0	100	5.75	66.1
17.002	58	57	7.145	0.600	10.180	10.180	0.000	0.0	100	5.70	66.4

Name	Vel (m/s)	Cap (l/s)	Flow (l/s)	US Depth (m)	DS Depth (m)	Σ Area (ha)	Σ Add Inflow (l/s)
13.002	0.750	13.3	1.8	0.725	0.660	0.010	0.0
13.001	0.825	14.6	2.0	0.550	0.725	0.010	0.0
15.002	0.218	3.8	0.0	0.650	0.725	0.000	0.0
16.000	2.963	52.4	0.0	0.390	0.650	0.000	0.0
15.001	1.169	20.7	0.0	0.600	0.650	0.000	0.0
15.000	1.998	35.3	0.0	0.500	0.600	0.000	0.0
13.000	0.852	15.0	2.0	0.450	0.550	0.010	0.0
14.000	0.750	13.3	0.0	0.550	0.550	0.000	0.0
48.001	0.750	13.3	0.0	0.565	0.670	0.000	0.0
48.000	3.786	66.9	0.0	0.350	0.565	0.000	0.0
25.003	0.867	15.3	3.0	0.535	0.670	0.015	0.0
26.000	0.773	6.1	0.6	0.495	0.585	0.003	0.0
25.002	0.753	5.9	1.8	0.552	0.585	0.009	0.0
25.001	0.732	5.8	1.2	0.405	0.552	0.006	0.0
25.000	0.778	6.1	0.6	0.335	0.405	0.003	0.0
4.004	0.750	13.3	3.3	0.605	0.560	0.017	0.0
4.003	0.612	4.8	3.3	0.609	0.655	0.017	0.0
6.000	1.837	32.5	0.0	0.400	0.605	0.000	0.0
5.000	0.746	5.9	0.6	0.545	0.609	0.003	0.0
4.002	0.593	4.7	2.2	0.562	0.609	0.011	0.0
4.001	0.767	6.0	1.4	0.458	0.562	0.007	0.0
4.000	0.700	5.5	0.6	0.395	0.458	0.003	0.0
17.003	0.743	5.8	4.3	0.420	0.590	0.022	0.0
17.002	0.750	5.9	3.6	0.420	0.420	0.018	0.0



Links

Name	US Node	DS Node	Length (m)	ks (mm) / n	US IL (m)	DS IL (m)	Fall (m)	Slope (1:X)	Dia (mm)	T of C (mins)	Rain (mm/hr)
17.001	61	58	13.263	0.600	10.300	10.180	0.120	110.5	100	5.54	67.2
18.001	59	58	14.516	0.600	10.320	10.180	0.140	103.7	100	5.47	67.6
18.000	60	59	6.602	0.600	10.380	10.320	0.060	110.0	100	5.15	69.4
17.000	62	61	9.421	0.600	10.370	10.300	0.070	134.6	100	5.24	68.9
35.002	64	63	4.909	0.600	10.100	10.050	0.050	98.2	100	5.82	65.7
36.000	67	64	11.202	0.600	10.200	10.100	0.100	112.0	100	5.26	68.8
35.001	65	64	9.880	0.600	10.117	10.100	0.017	581.2	100	5.72	66.3
35.000	66	65	8.635	0.600	10.200	10.117	0.083	104.0	100	5.19	69.1
42.001	69	68	9.044	0.600	10.025	10.000	0.025	361.8	100	5.86	65.6
42.000	70	69	10.552	0.600	10.050	10.025	0.025	422.1	100	5.48	67.5
31.003	72	71	2.896	0.600	9.890	9.890	0.000	0.0	150	5.66	66.6
31.002	74	72	6.290	0.600	9.930	9.890	0.040	157.3	100	5.60	66.9
33.000	73	72	7.219	0.600	9.950	9.890	0.060	120.3	150	5.13	69.5
32.000	77	74	8.908	0.600	10.050	9.930	0.120	74.2	100	5.17	69.3
31.001	75	74	13.523	0.600	10.060	9.930	0.130	104.0	100	5.42	67.8
31.000	76	75	5.500	0.600	10.110	10.060	0.050	110.0	100	5.13	69.5
7.004	79	78	1.392	0.600	10.000	10.000	0.000	0.0	150	6.00	64.9
9.000	85	79	4.850	0.600	10.150	10.000	0.150	32.3	150	5.05	70.0
7.003	80	79	6.155	0.600	10.060	10.000	0.060	102.6	100	5.97	65.0
8.000	84	80	6.787	0.600	10.120	10.060	0.060	113.1	100	5.16	69.3
7.002	81	80	16.678	0.600	10.136	10.060	0.076	219.4	100	5.83	65.7
7.001	82	81	5.120	0.600	10.187	10.136	0.051	100.4	100	5.29	68.6
7.000	83	82	7.566	0.600	10.250	10.187	0.063	120.1	100	5.18	69.2
27.003	87	86	2.389	0.600	9.900	9.900	0.000	0.0	150	5.69	66.4

Name	Vel (m/s)	Cap (l/s)	Flow (l/s)	US Depth (m)	DS Depth (m)	Σ Area (ha)	Σ Add Inflow (l/s)
17.001	0.731	5.7	1.2	0.300	0.420	0.006	0.0
18.001	0.755	5.9	1.6	0.280	0.420	0.008	0.0
18.000	0.732	5.8	0.8	0.220	0.280	0.004	0.0
17.000	0.661	5.2	1.2	0.180	0.300	0.006	0.0
35.002	0.776	6.1	3.3	0.500	0.550	0.017	0.0
36.000	0.726	5.7	1.0	0.400	0.500	0.005	0.0
35.001	0.312	2.5	1.6	0.483	0.500	0.008	0.0
35.000	0.753	5.9	0.8	0.400	0.483	0.004	0.0
42.001	0.399	3.1	1.6	0.475	0.550	0.008	0.0
42.000	0.368	2.9	0.8	0.450	0.475	0.004	0.0
31.003	0.750	13.3	3.0	0.555	0.660	0.015	0.0
31.002	0.611	4.8	3.0	0.565	0.605	0.015	0.0
33.000	0.915	16.2	0.0	0.600	0.555	0.000	0.0
32.000	0.894	7.0	0.6	0.445	0.565	0.003	0.0
31.001	0.753	5.9	1.6	0.532	0.565	0.008	0.0
31.000	0.732	5.8	0.8	0.385	0.532	0.004	0.0
7.004	0.750	13.3	3.3	0.595	0.550	0.017	0.0
9.000	1.776	31.4	0.0	0.300	0.595	0.000	0.0
7.003	0.759	6.0	3.3	0.585	0.645	0.017	0.0
8.000	0.722	5.7	0.6	0.525	0.585	0.003	0.0
7.002	0.515	4.0	2.2	0.562	0.585	0.011	0.0
7.001	0.767	6.0	1.4	0.458	0.562	0.007	0.0
7.000	0.700	5.5	0.6	0.395	0.458	0.003	0.0
27.003	0.750	13.3	3.0	0.645	0.550	0.015	0.0



Links

Name	US Node	DS Node	Length (m)	ks (mm) / n	US IL (m)	DS IL (m)	Fall (m)	Slope (1:X)	Dia (mm)	T of C (mins)	Rain (mm/hr)
27.002	89	87	7.109	0.600	9.935	9.900	0.035	203.1	100	5.63	66.7
29.000	88	87	4.555	0.600	9.960	9.900	0.060	75.9	150	5.07	69.9
28.000	92	89	8.908	0.600	10.035	9.935	0.100	89.1	100	5.18	69.2
27.001	90	89	13.532	0.600	10.075	9.935	0.140	96.7	100	5.41	67.9
27.000	91	90	5.500	0.600	10.125	10.075	0.050	110.0	100	5.13	69.5
34.002	94	93	1.854	0.600	10.275	10.100	0.175	10.6	100	5.61	66.9
34.001	95	94	10.685	0.600	10.345	10.275	0.070	152.6	100	5.59	66.9
34.000	96	95	11.375	0.600	10.420	10.345	0.075	151.7	100	5.30	68.5
20.004	98	97	2.047	0.600	9.910	9.910	0.000	0.0	150	5.89	65.4
20.003	99	98	5.068	0.600	9.910	9.910	0.000	0.0	150	5.84	65.6
22.003	104	99	8.700	0.600	9.920	9.910	0.010	870.0	150	5.73	66.2
20.002	100	99	3.812	0.600	9.935	9.910	0.025	152.5	100	5.52	67.3
21.000	103	100	8.908	0.600	10.015	9.935	0.080	111.4	100	5.20	69.1
20.001	101	100	13.523	0.600	10.075	9.935	0.140	96.6	100	5.41	67.9
20.000	102	101	5.501	0.600	10.125	10.075	0.050	110.0	100	5.13	69.5
22.002	106	104	4.717	0.600	9.930	9.920	0.010	471.7	150	5.29	68.6
24.000	105	104	2.425	0.600	10.020	9.920	0.100	24.3	150	5.02	70.1
22.001	108	106	2.789	0.600	9.940	9.930	0.010	278.9	150	5.12	69.5
23.000	107	106	2.076	0.600	10.000	9.930	0.070	29.7	100	5.02	70.1
22.000	109	108	3.519	0.600	10.000	9.940	0.060	58.6	150	5.04	70.0
45.001	111	110	3.462	0.600	9.970	9.970	0.000	0.0	150	5.11	69.6
45.000	113	111	2.128	0.600	10.000	9.970	0.030	70.9	150	5.03	70.1
46.000	112	111	1.495	0.600	9.980	9.970	0.010	149.5	150	5.03	70.1
47.000	115	114	4.896	0.600	10.050	10.000	0.050	97.9	100	5.11	69.6

Name	Vel (m/s)	Cap (l/s)	Flow (l/s)	US Depth (m)	DS Depth (m)	Σ Area (ha)	Σ Add Inflow (l/s)
27.002	0.536	4.2	3.0	0.660	0.695	0.015	0.0
29.000	1.155	20.4	0.0	0.490	0.645	0.000	0.0
28.000	0.815	6.4	0.6	0.560	0.660	0.003	0.0
27.001	0.782	6.1	1.6	0.617	0.660	0.008	0.0
27.000	0.732	5.8	0.8	0.470	0.617	0.004	0.0
34.002	2.388	18.8	1.4	0.370	0.650	0.007	0.0
34.001	0.620	4.9	0.8	0.300	0.370	0.004	0.0
34.000	0.622	4.9	0.4	0.225	0.300	0.002	0.0
20.004	0.750	13.3	2.9	0.625	0.540	0.015	0.0
20.003	0.750	13.3	2.9	0.625	0.625	0.015	0.0
22.003	0.333	5.9	0.0	0.530	0.625	0.000	0.0
20.002	0.620	4.9	3.0	0.650	0.675	0.015	0.0
21.000	0.728	5.7	0.6	0.570	0.650	0.003	0.0
20.001	0.782	6.1	1.6	0.625	0.650	0.008	0.0
20.000	0.732	5.8	0.8	0.460	0.625	0.004	0.0
22.002	0.456	8.1	0.0	0.520	0.530	0.000	0.0
24.000	2.053	36.3	0.0	0.430	0.530	0.000	0.0
22.001	0.597	10.5	0.0	0.510	0.520	0.000	0.0
23.000	1.422	11.2	0.0	0.500	0.570	0.000	0.0
22.000	1.316	23.2	0.0	0.550	0.510	0.000	0.0
45.001	0.750	13.3	4.2	0.480	0.580	0.020	0.0
45.000	1.195	21.1	0.0	0.550	0.480	0.000	0.0
46.000	0.819	14.5	4.2	0.420	0.480	0.020	0.0
47.000	0.777	6.1	0.8	0.450	0.500	0.004	0.0



Links

Name	US Node	DS Node	Length (m)	ks (mm) / n	US IL (m)	DS IL (m)	Fall (m)	Slope (1:X)	Dia (mm)	T of C (mins)	Rain (mm/hr)
43.001	117	116	4.257	0.600	10.000	9.950	0.050	85.1	100	5.39	68.0
43.000	119	117	14.494	0.600	10.150	10.000	0.150	96.6	100	5.31	68.5
44.000	118	117	12.031	0.600	10.150	10.000	0.150	80.2	100	5.23	68.9
37.002	121	120	4.528	0.600	9.990	9.950	0.040	113.2	100	5.51	67.4
38.000	124	121	8.032	0.600	10.100	9.990	0.110	73.0	100	5.15	69.4
37.001	122	121	11.000	0.600	10.100	9.990	0.110	100.0	100	5.40	68.0
37.000	123	122	6.595	0.600	10.150	10.100	0.050	131.9	100	5.16	69.3
39.002	126	125	3.138	0.600	9.980	9.950	0.030	104.6	150	5.40	68.0
41.000	130	126	6.582	0.600	10.050	9.980	0.070	94.0	100	5.14	69.4
39.001	127	126	11.709	0.600	10.100	9.980	0.120	97.6	150	5.35	68.2
39.000	129	127	6.833	0.600	10.160	10.100	0.060	113.9	100	5.16	69.3
40.000	128	127	5.462	0.600	10.140	10.100	0.040	136.6	150	5.11	69.6

Name	Vel (m/s)	Cap (l/s)	Flow (l/s)	US Depth (m)	DS Depth (m)	Σ Area (ha)	Σ Add Inflow (l/s)
43.001	0.834	6.6	2.4	0.500	0.600	0.012	0.0
43.000	0.782	6.1	0.8	0.350	0.500	0.004	0.0
44.000	0.860	6.8	0.8	0.350	0.500	0.004	0.0
37.002	0.722	5.7	1.2	0.510	0.550	0.006	0.0
38.000	0.902	7.1	0.4	0.400	0.510	0.002	0.0
37.001	0.769	6.0	0.6	0.400	0.510	0.003	0.0
37.000	0.668	5.2	0.4	0.350	0.400	0.002	0.0
39.002	0.982	17.4	3.2	0.470	0.500	0.016	0.0
41.000	0.793	6.2	0.6	0.450	0.520	0.003	0.0
39.001	1.017	18.0	2.0	0.350	0.470	0.010	0.0
39.000	0.720	5.7	0.6	0.340	0.400	0.003	0.0
40.000	0.858	15.2	0.8	0.165	0.350	0.004	0.0

Simulation Settings

Rainfall Methodology	FSR	Skip Steady State	x
FSR Region	England and Wales	Drain Down Time (mins)	240
M5-60 (mm)	20.000	Additional Storage (m³/ha)	20.0
Ratio-R	0.400	Check Discharge Rate(s)	x
Summer CV	0.750	Check Discharge Volume	x
Analysis Speed	Normal		

Storm Durations

15 | 30 | 60 | 120 | 180 | 240 | 360 | 480 | 600 | 720 | 960 | 1440

Return Period (years)	Climate Change (CC %)	Additional Area (A %)	Additional Flow (Q %)
30	0	0	0
100	0	0	0
100	40	10	0



Node 2 Online Hydro-Brake® Control

Flap Valve	x	Objective	(HE) Minimise upstream storage
Replaces Downstream Link	✓	Sump Available	✓
Invert Level (m)	9.730	Product Number	CTL-SHE-0072-2000-0650-2000
Design Depth (m)	0.650	Min Outlet Diameter (m)	0.100
Design Flow (l/s)	2.0	Min Node Diameter (mm)	1200

Node 3 Flow through Pond Storage Structure

Base Inf Coefficient (m/hr)	0.00504	Porosity	1.00	Main Channel Length (m)	14.000
Side Inf Coefficient (m/hr)	0.00504	Invert Level (m)	9.620	Main Channel Slope (1:X)	1000.0
Safety Factor	2.0	Time to half empty (mins)		Main Channel n	0.600

Inlets

4

Depth (m)	Area (m ²)	Inf Area (m ²)	Depth (m)	Area (m ²)	Inf Area (m ²)
0.000	212.5	212.5	0.550	306.0	306.0

Node 13 Flow through Pond Storage Structure

Base Inf Coefficient (m/hr)	0.00504	Porosity	0.95	Main Channel Length (m)	26.000
Side Inf Coefficient (m/hr)	0.00504	Invert Level (m)	9.790	Main Channel Slope (1:X)	1000.0
Safety Factor	2.0	Time to half empty (mins)		Main Channel n	0.600

Inlets

30

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	260.0	260.0	0.400	260.0	364.0	0.401	0.0	364.0

Node 36 Flow through Pond Storage Structure

Base Inf Coefficient (m/hr)	0.00504	Porosity	0.95	Main Channel Length (m)	9.500
Side Inf Coefficient (m/hr)	0.00504	Invert Level (m)	9.800	Main Channel Slope (1:X)	1000.0
Safety Factor	2.0	Time to half empty (mins)	88	Main Channel n	0.600

Inlets

63

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	19.0	19.0	0.400	19.0	19.0	0.401	0.0	19.0

Node 35 Flow through Pond Storage Structure

Base Inf Coefficient (m/hr)	0.00504	Porosity	0.95	Main Channel Length (m)	10.000
Side Inf Coefficient (m/hr)	0.00504	Invert Level (m)	9.960	Main Channel Slope (1:X)	1000.0
Safety Factor	2.0	Time to half empty (mins)		Main Channel n	0.600

Inlets

56



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	52.0	52.0	0.400	52.0	72.8	0.401	0.0	72.8

Node 34 Flow through Pond Storage Structure

Base Inf Coefficient (m/hr)	0.00504	Porosity	0.95	Main Channel Length (m)	16.000
Side Inf Coefficient (m/hr)	0.00504	Invert Level (m)	9.800	Main Channel Slope (1:X)	1000.0
Safety Factor	2.0	Time to half empty (mins)		Main Channel n	0.600

Inlets
68

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	32.0	32.0	0.400	32.0	44.8	0.401	0.0	44.8

Node 85 Flow through Pond Storage Structure

Base Inf Coefficient (m/hr)	0.00504	Porosity	0.95	Main Channel Length (m)	9.500
Side Inf Coefficient (m/hr)	0.00504	Invert Level (m)	9.900	Main Channel Slope (1:X)	1000.0
Safety Factor	2.0	Time to half empty (mins)		Main Channel n	0.600

Inlets
93

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	19.0	19.0	0.400	19.0	28.5	0.401	0.0	28.5

Node 50 Flow through Pond Storage Structure

Base Inf Coefficient (m/hr)	0.00504	Porosity	0.95	Main Channel Length (m)	10.000
Side Inf Coefficient (m/hr)	0.00504	Invert Level (m)	9.800	Main Channel Slope (1:X)	1000.0
Safety Factor	2.0	Time to half empty (mins)		Main Channel n	0.600

Inlets
78

Depth (m)	Area (m ²)	Inf Area (m ²)
0.000	47.1	0.0

Node 29 Flow through Pond Storage Structure

Base Inf Coefficient (m/hr)	0.00504	Porosity	0.95	Main Channel Length (m)	8.500
Side Inf Coefficient (m/hr)	0.00504	Invert Level (m)	9.790	Main Channel Slope (1:X)	1000.0
Safety Factor	2.0	Time to half empty (mins)		Main Channel n	0.600

Inlets
48

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	47.0	47.0	0.400	47.0	65.8	0.401	0.0	65.8



Node 8 Flow through Pond Storage Structure

Base Inf Coefficient (m/hr)	0.00504	Porosity	0.95	Main Channel Length (m)	9.500
Side Inf Coefficient (m/hr)	0.00504	Invert Level (m)	9.780	Main Channel Slope (1:X)	1000.0
Safety Factor	2.0	Time to half empty (mins)		Main Channel n	0.600

Inlets

22

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	47.5	47.5	0.400	47.5	66.5	0.401	0.0	66.5

Node 105 Flow through Pond Storage Structure

Base Inf Coefficient (m/hr)	0.00504	Porosity	0.95	Main Channel Length (m)	10.000
Side Inf Coefficient (m/hr)	0.00504	Invert Level (m)	9.770	Main Channel Slope (1:X)	1000.0
Safety Factor	2.0	Time to half empty (mins)	288	Main Channel n	0.600

Inlets

110

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	52.5	52.5	0.400	52.5	73.5	0.401	0.0	73.5

Node 109 Flow through Pond Storage Structure

Base Inf Coefficient (m/hr)	0.00504	Porosity	0.95	Main Channel Length (m)	6.500
Side Inf Coefficient (m/hr)	0.00504	Invert Level (m)	9.750	Main Channel Slope (1:X)	1000.0
Safety Factor	2.0	Time to half empty (mins)		Main Channel n	0.600

Inlets

120

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	17.5	17.5	0.400	17.5	24.5	0.401	0.0	24.5

Node 113 Flow through Pond Storage Structure

Base Inf Coefficient (m/hr)	0.00504	Porosity	0.95	Main Channel Length (m)	8.650
Side Inf Coefficient (m/hr)	0.00504	Invert Level (m)	9.750	Main Channel Slope (1:X)	1000.0
Safety Factor	2.0	Time to half empty (mins)		Main Channel n	0.600

Inlets

125

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	17.5	17.5	0.400	17.5	24.5	0.401	0.0	24.5

Node 107 Flow through Pond Storage Structure

Base Inf Coefficient (m/hr)	0.00504	Porosity	0.95	Main Channel Length (m)	11.000
Side Inf Coefficient (m/hr)	0.00504	Invert Level (m)	9.750	Main Channel Slope (1:X)	1000.0
Safety Factor	2.0	Time to half empty (mins)		Main Channel n	0.600

Inlets
116 | 114

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	42.0	42.0	0.400	42.0	58.8	0.401	0.0	58.8

Node 10 Flow through Pond Storage Structure

Base Inf Coefficient (m/hr)	0.00504	Porosity	0.95	Main Channel Length (m)	16.000
Side Inf Coefficient (m/hr)	0.00504	Invert Level (m)	9.730	Main Channel Slope (1:X)	1000.0
Safety Factor	2.0	Time to half empty (mins)		Main Channel n	0.600

Inlets
18 | 14

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	56.0	56.0	0.330	56.0	78.4	0.331	0.0	78.4

Node 21 Flow through Pond Storage Structure

Base Inf Coefficient (m/hr)	0.00504	Porosity	0.95	Main Channel Length (m)	7.000
Side Inf Coefficient (m/hr)	0.00504	Invert Level (m)	9.730	Main Channel Slope (1:X)	1000.0
Safety Factor	2.0	Time to half empty (mins)		Main Channel n	0.600

Inlets
39 | 42

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	42.0	42.0	0.350	42.0	58.8	0.351	0.0	58.8

Node 41 Flow through Pond Storage Structure

Base Inf Coefficient (m/hr)	0.00504	Porosity	0.95	Main Channel Length (m)	7.000
Side Inf Coefficient (m/hr)	0.00504	Invert Level (m)	9.730	Main Channel Slope (1:X)	1000.0
Safety Factor	2.0	Time to half empty (mins)		Main Channel n	0.600

Inlets
71

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	42.0	42.0	0.360	42.0	58.8	0.361	0.0	58.8

Node 73 Flow through Pond Storage Structure

Base Inf Coefficient (m/hr)	0.00504	Porosity	0.95	Main Channel Length (m)	7.000
Side Inf Coefficient (m/hr)	0.00504	Invert Level (m)	9.730	Main Channel Slope (1:X)	1000.0
Safety Factor	2.0	Time to half empty (mins)		Main Channel n	0.600

Inlets
86



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	42.0	42.0	0.370	42.0	58.8	0.371	0.0	58.8

Node 88 Flow through Pond Storage Structure

Base Inf Coefficient (m/hr)	0.00504	Porosity	0.95	Main Channel Length (m)	7.000
Side Inf Coefficient (m/hr)	0.00504	Invert Level (m)	9.730	Main Channel Slope (1:X)	1000.0
Safety Factor	2.0	Time to half empty (mins)		Main Channel n	0.600

Inlets

97

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	42.0	42.0	0.380	42.0	58.8	0.381	0.0	58.8

Approval Settings

Node Size	✓	Maximum Full Bore Velocity (m/s)	3.000
Node Losses	✓	Proportional Velocity	✓
Link Size	✓	Return Period (years)	
Minimum Diameter (mm)	150	Minimum Proportional Velocity (m/s)	0.750
Link Length	✓	Maximum Proportional Velocity (m/s)	3.000
Maximum Length (m)	100.000	Surcharged Depth	✓
Coordinates	✓	Return Period (years)	
Accuracy (m)	1.000	Maximum Surcharged Depth (m)	0.100
Crossings	✓	Flooding	✓
Cover Depth	✓	Return Period (years)	30
Minimum Cover Depth (m)		Time to Half Empty	x
Maximum Cover Depth (m)	3.000	Discharge Rates	✓
Backdrops	✓	1 year (l/s)	
Minimum Backdrop Height (m)		30 year (l/s)	
Maximum Backdrop Height (m)	1.500	100 year (l/s)	
Full Bore Velocity	✓	Discharge Volume	✓
Minimum Full Bore Velocity (m/s)		100 year 360 minute (m ³)	

Rainfall

Event	Peak Intensity (mm/hr)	Average Intensity (mm/hr)
30 year 15 minute summer	268.706	76.035
30 year 30 minute summer	174.929	49.499
30 year 60 minute summer	116.589	30.811
30 year 120 minute summer	70.438	18.615
30 year 180 minute summer	53.298	13.715
30 year 240 minute summer	41.604	10.995
30 year 360 minute summer	31.221	8.034
30 year 480 minute summer	24.324	6.428
30 year 600 minute summer	19.756	5.404
30 year 720 minute summer	17.490	4.687
30 year 960 minute summer	14.215	3.743
30 year 1440 minute summer	10.161	2.723
100 year 15 minute summer	348.738	98.681
100 year 30 minute summer	228.965	64.789
100 year 60 minute summer	153.288	40.510



Rainfall

Event	Peak Intensity (mm/hr)	Average Intensity (mm/hr)
100 year 120 minute summer	92.562	24.461
100 year 180 minute summer	69.806	17.964
100 year 240 minute summer	54.269	14.342
100 year 360 minute summer	40.484	10.418
100 year 480 minute summer	31.414	8.302
100 year 600 minute summer	25.431	6.956
100 year 720 minute summer	22.452	6.017
100 year 960 minute summer	18.166	4.784
100 year 1440 minute summer	12.896	3.456
100 year +40% CC +10% A 15 minute summer	488.233	138.153
100 year +40% CC +10% A 30 minute summer	320.551	90.705
100 year +40% CC +10% A 60 minute summer	214.603	56.713
100 year +40% CC +10% A 120 minute summer	129.587	34.246
100 year +40% CC +10% A 180 minute summer	97.729	25.149
100 year +40% CC +10% A 240 minute summer	75.977	20.078
100 year +40% CC +10% A 360 minute summer	56.677	14.585
100 year +40% CC +10% A 480 minute summer	43.979	11.622
100 year +40% CC +10% A 600 minute summer	35.604	9.738
100 year +40% CC +10% A 720 minute summer	31.433	8.424
100 year +40% CC +10% A 960 minute summer	25.432	6.697
100 year +40% CC +10% A 1440 minute summer	18.055	4.839

Results for 30 year Critical Storm Duration. Lowest mass balance: 95.69%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	130	10	10.077	0.027	1.0	0.0071	0.0000	OK
15 minute summer	129	10	10.188	0.028	1.0	0.0083	0.0000	OK
15 minute summer	128	11	10.170	0.030	1.3	0.0122	0.0000	OK
15 minute summer	127	10	10.143	0.043	3.3	0.0119	0.0000	OK
15 minute summer	126	11	10.042	0.062	5.2	0.0159	0.0000	OK
120 minute summer	125	104	10.012	0.253	2.2	0.0402	0.0000	OK
15 minute summer	124	10	10.121	0.021	0.7	0.0050	0.0000	OK
15 minute summer	123	10	10.175	0.025	0.7	0.0061	0.0000	OK
15 minute summer	122	11	10.127	0.027	1.0	0.0053	0.0000	OK
15 minute summer	121	11	10.032	0.042	1.9	0.0081	0.0000	OK
240 minute summer	120	172	9.825	0.069	0.6	0.0004	0.0000	OK
15 minute summer	119	11	10.181	0.031	1.3	0.0105	0.0000	OK
15 minute summer	118	11	10.180	0.030	1.3	0.0100	0.0000	OK
15 minute summer	117	11	10.061	0.061	3.9	0.0178	0.0000	OK
120 minute summer	116	132	9.864	0.103	1.8	0.0164	0.0000	OK
15 minute summer	115	11	10.083	0.033	1.3	0.0100	0.0000	OK
120 minute summer	114	132	9.864	0.103	0.6	0.0163	0.0000	OK
120 minute summer	113	104	10.012	0.012	1.5	0.0020	0.0000	OK
15 minute summer	112	10	10.069	0.089	6.6	0.0766	0.0000	OK
15 minute summer	111	10	10.052	0.082	6.6	0.0130	0.0000	OK
960 minute summer	110	990	9.950	0.170	1.7	0.0270	0.0000	OK
240 minute summer	109	172	9.826	-0.174	0.4	0.0000	0.0000	OK
15 minute summer	108	13	10.026	0.086	3.6	0.0137	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 summer	130	41.000	126	1.0	0.291	0.156	0.0222	
15 minute summer	129	39.000	127	1.0	0.391	0.171	0.0170	
15 minute summer	128	40.000	127	1.3	0.401	0.086	0.0180	
15 minute summer	127	39.001	126	3.2	0.587	0.178	0.0642	
15 minute summer	126	39.002	125	5.1	0.797	0.293	0.0200	
120 minute summer	125	Flow through pond	113	0.8	0.008	0.072	4.2826	
15 minute summer	124	38.000	121	0.7	0.336	0.094	0.0172	
15 minute summer	123	37.000	122	0.7	0.421	0.125	0.0103	
15 minute summer	122	37.001	121	1.0	0.397	0.158	0.0266	
15 minute summer	121	37.002	120	1.9	0.626	0.333	0.0137	
240 minute summer	120	Flow through pond	109	0.4	0.006	0.027	1.2012	
15 minute summer	119	43.000	117	1.3	0.380	0.212	0.0513	
15 minute summer	118	44.000	117	1.3	0.392	0.193	0.0418	
15 minute summer	117	43.001	116	3.9	0.823	0.593	0.0201	
120 minute summer	116	Flow through pond	107	1.4	0.007	0.060	4.3190	
15 minute summer	115	47.000	114	1.3	0.600	0.213	0.0106	
120 minute summer	114	Flow through pond	107	1.4	0.007	0.060	4.3190	
120 minute summer	113	45.000	111	-0.7	-0.196	-0.033	0.0079	
120 minute summer	113	Infiltration		0.0				
15 minute summer	112	46.000	111	6.6	0.633	0.453	0.0155	
15 minute summer	111	45.001	110	4.4	0.537	0.334	0.0285	
960 minute summer	110	Flow through pond	105	0.8	0.003	0.025	8.7048	
240 minute summer	109	22.000	108	0.0	0.000	0.000	0.0024	
240 minute summer	109	Infiltration		0.0				
15 minute summer	108	22.001	106	2.0	-0.284	0.189	0.0300	

Results for 30 year Critical Storm Duration. Lowest mass balance: 95.69%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
120 minute summer	107	130	9.864	-0.136	1.4	0.0000	0.0000	OK
15 minute summer	106	14	10.020	0.090	4.9	0.0144	0.0000	OK
960 minute summer	105	975	9.950	-0.070	0.8	0.0000	0.0000	OK
15 minute summer	104	14	10.015	0.095	3.2	0.0151	0.0000	OK
15 minute summer	103	10	10.043	0.028	1.0	0.0069	0.0000	OK
15 minute summer	102	10	10.158	0.033	1.3	0.0099	0.0000	OK
15 minute summer	101	11	10.120	0.045	2.6	0.0122	0.0000	OK
15 minute summer	100	11	10.026	0.091	4.8	0.0243	0.0000	OK
15 minute summer	99	14	10.014	0.104	5.1	0.0166	0.0000	OK
15 minute summer	98	14	9.997	0.087	5.3	0.0138	0.0000	OK
120 minute summer	97	140	9.835	0.098	2.1	0.0156	0.0000	OK
15 minute summer	96	10	10.445	0.025	0.7	0.0069	0.0000	OK
15 minute summer	95	11	10.382	0.037	1.3	0.0095	0.0000	OK
15 minute summer	94	11	10.301	0.026	2.2	0.0074	0.0000	OK
720 minute summer	93	450	9.999	0.089	0.3	0.0142	0.0000	OK
15 minute summer	92	10	10.061	0.026	1.0	0.0066	0.0000	OK
15 minute summer	91	10	10.158	0.033	1.3	0.0098	0.0000	OK
15 minute summer	90	11	10.120	0.045	2.6	0.0123	0.0000	OK
15 minute summer	89	11	10.035	0.100	4.9	0.0263	0.0000	OK
120 minute summer	88	140	9.835	-0.125	1.1	0.0000	0.0000	OK
15 minute summer	87	11	9.978	0.078	4.8	0.0124	0.0000	OK
120 minute summer	86	134	9.836	0.099	2.2	0.0157	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)
120 minute summer	107	23.000	106	0.0	0.000	0.000	0.0036	
120 minute summer	107	Infiltration		0.0				
15 minute summer	106	22.002	104	3.2	0.288	0.401	0.0538	
960 minute summer	105	24.000	104	0.0	0.000	0.000	0.0019	
960 minute summer	105	Infiltration		0.0				
15 minute summer	104	22.003	99	3.0	0.238	0.502	0.1077	
15 minute summer	103	21.000	100	1.0	0.231	0.169	0.0411	
15 minute summer	102	20.000	101	1.3	0.463	0.227	0.0156	
15 minute summer	101	20.001	100	2.6	0.484	0.423	0.0741	
15 minute summer	100	20.002	99	4.8	0.676	0.976	0.0287	
15 minute summer	99	20.003	98	5.3	0.449	0.400	0.0598	
15 minute summer	98	20.004	97	5.5	0.599	0.411	0.0186	
120 minute summer	97	Flow through pond	88	1.1	0.004	0.033	4.0648	
15 minute summer	96	34.000	95	0.6	0.324	0.133	0.0231	
15 minute summer	95	34.001	94	1.3	0.617	0.264	0.0224	
15 minute summer	94	34.002	93	2.2	1.486	0.118	0.0028	
720 minute summer	93	Flow through pond	85	0.3	0.005	0.025	1.7020	
15 minute summer	92	28.000	89	1.0	0.228	0.151	0.0419	
15 minute summer	91	27.000	90	1.3	0.463	0.227	0.0156	
15 minute summer	90	27.001	89	2.6	0.463	0.423	0.0762	
15 minute summer	89	27.002	87	4.8	0.648	1.131	0.0510	
120 minute summer	88	29.000	87	0.0	0.000	0.000	0.0136	
120 minute summer	88	Infiltration		0.0				
15 minute summer	87	27.003	86	4.3	0.546	0.324	0.0188	
120 minute summer	86	Flow through pond	73	1.2	0.004	0.036	4.0871	

Results for 30 year Critical Storm Duration. Lowest mass balance: 95.69%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
720 minute summer	85	450	9.999	-0.151	0.3	0.0000	0.0000	OK
15 minute summer	84	10	10.148	0.028	1.0	0.0071	0.0000	OK
15 minute summer	83	10	10.278	0.028	1.0	0.0079	0.0000	OK
15 minute summer	82	11	10.229	0.042	2.3	0.0128	0.0000	OK
15 minute summer	81	11	10.210	0.074	3.5	0.0208	0.0000	OK
15 minute summer	80	11	10.144	0.084	5.4	0.0208	0.0000	OK
15 minute summer	79	11	10.084	0.084	5.3	0.0133	0.0000	OK
960 minute summer	78	780	9.909	0.099	0.5	0.0157	0.0000	OK
15 minute summer	77	10	10.075	0.025	1.0	0.0068	0.0000	OK
15 minute summer	76	10	10.142	0.032	1.3	0.0105	0.0000	OK
15 minute summer	75	11	10.106	0.046	2.6	0.0132	0.0000	OK
15 minute summer	74	11	10.021	0.091	4.9	0.0253	0.0000	OK
120 minute summer	73	132	9.836	-0.114	1.2	0.0000	0.0000	OK
15 minute summer	72	11	9.969	0.079	4.8	0.0126	0.0000	OK
120 minute summer	71	132	9.836	0.099	2.2	0.0157	0.0000	OK
15 minute summer	70	11	10.103	0.053	1.3	0.0161	0.0000	OK
15 minute summer	69	11	10.093	0.068	2.6	0.0203	0.0000	OK
120 minute summer	68	128	9.880	0.064	1.2	0.0102	0.0000	OK
15 minute summer	67	11	10.236	0.036	1.6	0.0130	0.0000	OK
15 minute summer	66	11	10.232	0.032	1.3	0.0101	0.0000	OK
15 minute summer	65	11	10.202	0.085	2.6	0.0252	0.0000	OK
15 minute summer	64	11	10.181	0.081	5.4	0.0237	0.0000	OK
120 minute summer	63	84	10.029	0.220	2.5	0.0349	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)
720 minute summer	85	9.000	79	0.0	0.000	0.000	0.0052	
720 minute summer	85	Infiltration		0.0				
15 minute summer	84	8.000	80	1.0	0.254	0.171	0.0298	
15 minute summer	83	7.000	82	1.0	0.392	0.176	0.0187	
15 minute summer	82	7.001	81	2.2	0.489	0.373	0.0240	
15 minute summer	81	7.002	80	3.5	0.536	0.874	0.1107	
15 minute summer	80	7.003	79	5.3	0.761	0.896	0.0432	
15 minute summer	79	7.004	78	5.3	0.603	0.400	0.0122	
960 minute summer	78	Flow through pond	50	0.5	0.005	0.004	4.6500	
15 minute summer	77	32.000	74	1.0	0.247	0.138	0.0399	
15 minute summer	76	31.000	75	1.3	0.458	0.227	0.0158	
15 minute summer	75	31.001	74	2.6	0.481	0.439	0.0745	
15 minute summer	74	31.002	72	4.8	0.674	0.998	0.0445	
120 minute summer	73	33.000	72	0.0	0.000	0.000	0.0221	
120 minute summer	73	Infiltration		0.0				
15 minute summer	72	31.003	71	4.3	0.540	0.326	0.0232	
120 minute summer	71	Flow through pond	41	1.2	0.004	0.037	4.0862	
15 minute summer	70	42.000	69	1.3	0.260	0.437	0.0521	
15 minute summer	69	42.001	68	2.5	0.516	0.800	0.0438	
120 minute summer	68	Flow through pond	34	0.8	0.009	0.076	2.1993	
15 minute summer	67	36.000	64	1.6	0.373	0.281	0.0525	
15 minute summer	66	35.000	65	1.3	0.303	0.220	0.0399	
15 minute summer	65	35.001	64	2.5	0.364	1.034	0.0687	
15 minute summer	64	35.002	63	5.3	0.828	0.878	0.0316	
120 minute summer	63	Flow through pond	36	1.0	0.007	0.098	4.0527	

Results for 30 year Critical Storm Duration. Lowest mass balance: 95.69%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	62	10	10.414	0.044	2.0	0.0261	0.0000	OK
15 minute summer	61	12	10.362	0.062	2.0	0.0098	0.0000	OK
15 minute summer	60	11	10.412	0.032	1.3	0.0132	0.0000	OK
15 minute summer	59	12	10.370	0.050	2.6	0.0184	0.0000	OK
15 minute summer	58	12	10.351	0.171	5.4	0.0537	0.0000	SURCHARGED
15 minute summer	57	11	10.286	0.106	6.3	0.0332	0.0000	SURCHARGED
360 minute summer	56	296	10.089	0.119	1.5	0.0189	0.0000	OK
15 minute summer	55	12	10.137	0.037	1.0	0.0094	0.0000	OK
15 minute summer	54	10	10.278	0.028	1.0	0.0079	0.0000	OK
15 minute summer	53	10	10.231	0.044	2.3	0.0132	0.0000	OK
15 minute summer	52	11	10.201	0.065	3.6	0.0182	0.0000	OK
15 minute summer	51	11	10.137	0.101	5.3	0.0247	0.0000	SURCHARGED
720 minute summer	50	735	9.909	-0.241	0.5	0.0000	0.0000	OK
15 minute summer	49	12	10.077	0.087	5.1	0.0139	0.0000	OK
120 minute summer	48	132	9.938	0.140	2.4	0.0222	0.0000	OK
15 minute summer	47	10	10.027	0.027	1.0	0.0070	0.0000	OK
15 minute summer	46	10	10.187	0.027	1.0	0.0080	0.0000	OK
15 minute summer	45	10	10.132	0.042	2.0	0.0117	0.0000	OK
15 minute summer	44	11	10.089	0.049	2.9	0.0123	0.0000	OK
15 minute summer	43	11	9.973	0.063	4.8	0.0154	0.0000	OK
720 minute summer	42	465	9.831	0.094	0.5	0.0149	0.0000	OK
120 minute summer	41	132	9.836	-0.364	1.2	0.0000	0.0000	OK
15 minute summer	40	1	9.880	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)
15 minute summer	62	17.000	61	2.0	0.627	0.380	0.0373	
15 minute summer	61	17.001	58	1.9	0.277	0.324	0.0854	
15 minute summer	60	18.000	59	1.3	0.459	0.226	0.0196	
15 minute summer	59	18.001	58	2.6	0.393	0.434	0.0850	
15 minute summer	58	17.002	57	5.1	0.658	0.874	0.0559	
15 minute summer	57	17.003	56	6.2	0.821	1.070	0.0156	
360 minute summer	56	Flow through pond	35	0.8	0.005	0.024	6.1190	
15 minute summer	55	5.000	51	0.9	0.233	0.161	0.0356	
15 minute summer	54	4.000	53	1.0	0.380	0.176	0.0194	
15 minute summer	53	4.001	52	2.3	0.522	0.375	0.0222	
15 minute summer	52	4.002	51	3.6	0.528	0.764	0.1102	
15 minute summer	51	4.003	49	5.1	0.671	1.066	0.0543	
720 minute summer	50	6.000	49	0.0	0.000	0.000	0.0061	
720 minute summer	50	Infiltration		0.0				
15 minute summer	49	4.004	48	5.1	0.570	0.387	0.0285	
120 minute summer	48	Flow through pond	29	0.7	0.004	0.020	6.4338	
15 minute summer	47	26.000	43	1.0	0.290	0.159	0.0303	
15 minute summer	46	25.000	45	1.0	0.405	0.159	0.0165	
15 minute summer	45	25.001	44	1.9	0.549	0.330	0.0190	
15 minute summer	44	25.002	43	2.9	0.636	0.482	0.0606	
15 minute summer	43	25.003	42	4.8	0.726	0.310	0.0263	
720 minute summer	42	Flow through pond	21	0.4	0.005	0.013	3.8827	
120 minute summer	41	48.000	40	0.0	0.000	0.000	0.0000	
120 minute summer	41	Infiltration		0.0				
15 minute summer	40	48.001	39	0.0	0.000	0.000	0.0000	

Results for 30 year Critical Storm Duration. Lowest mass balance: 95.69%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
720 minute summer	39	465	9.831	0.094	0.0	0.0149	0.0000	OK
15 minute summer	38	10	10.150	0.050	3.3	0.0244	0.0000	OK
15 minute summer	37	11	10.039	0.039	3.2	0.0062	0.0000	OK
120 minute summer	36	84	10.030	0.029	1.5	0.0048	0.0000	OK
360 minute summer	35	296	10.089	-0.121	0.8	0.0000	0.0000	OK
120 minute summer	34	130	9.880	-0.170	0.8	0.0000	0.0000	OK
15 minute summer	33	1	9.950	0.000	0.0	0.0000	0.0000	OK
15 minute summer	32	13	9.942	0.042	0.5	0.0067	0.0000	OK
30 minute summer	31	20	9.941	0.051	2.0	0.0081	0.0000	OK
720 minute summer	30	720	9.916	0.100	1.4	0.0159	0.0000	OK
120 minute summer	29	132	9.939	-0.041	1.8	0.0000	0.0000	OK
15 minute summer	28	10	10.320	0.020	1.0	0.0057	0.0000	OK
15 minute summer	27	10	10.325	0.025	1.0	0.0072	0.0000	OK
15 minute summer	26	10	10.232	0.045	2.3	0.0135	0.0000	OK
15 minute summer	25	11	10.196	0.060	3.6	0.0169	0.0000	OK
15 minute summer	24	11	10.128	0.118	5.4	0.0283	0.0000	SURCHARGED
15 minute summer	23	11	10.041	0.061	5.4	0.0096	0.0000	OK
120 minute summer	22	128	9.839	0.049	1.3	0.0078	0.0000	OK
720 minute summer	21	465	9.831	-0.099	0.4	0.0000	0.0000	OK
15 minute summer	20	11	9.930	0.060	2.0	0.0196	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)
720 minute summer	39	Flow through pond	21	0.4	0.005	0.013	3.8827	
15 minute summer	38	13.000	37	3.2	0.750	0.216	0.0602	
15 minute summer	37	13.001	31	2.2	0.521	0.149	0.0696	
120 minute summer	36	14.000	37	0.5	-0.263	0.039	0.0032	
120 minute summer	36	Infiltration		0.0				
360 minute summer	35	16.000	32	0.0	0.000	0.000	0.0033	
360 minute summer	35	Infiltration		0.0				
120 minute summer	34	15.000	33	0.0	0.000	0.000	0.0000	
120 minute summer	34	Infiltration		0.0				
15 minute summer	33	15.001	32	0.0	0.000	0.000	0.0076	
15 minute summer	32	15.002	31	-0.5	-0.164	-0.130	0.0917	
30 minute summer	31	13.002	30	1.8	0.408	0.134	0.0112	
720 minute summer	30	Flow through pond	13	-1.1	-0.002	-0.017	27.8505	
120 minute summer	29	12.000	23	-1.1	-0.345	-0.082	0.0065	
120 minute summer	29	Infiltration		0.0				
15 minute summer	28	11.000	24	1.0	0.309	0.083	0.0342	
15 minute summer	27	10.000	26	1.0	0.404	0.131	0.0184	
15 minute summer	26	10.001	25	2.3	0.544	0.374	0.0213	
15 minute summer	25	10.002	24	3.6	0.501	0.682	0.1072	
15 minute summer	24	10.003	23	5.4	0.711	1.859	0.0298	
15 minute summer	23	10.004	22	2.9	0.499	0.217	0.0069	
120 minute summer	22	Flow through pond	8	1.0	0.007	0.032	2.4491	
720 minute summer	21	19.000	20	0.0	0.000	0.000	0.0116	
720 minute summer	21	Infiltration		0.0				
15 minute summer	20	19.001	19	1.9	0.304	0.347	0.0638	

Results for 30 year Critical Storm Duration. Lowest mass balance: 95.69%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	19	11	9.916	0.056	1.9	0.0089	0.0000	OK
240 minute summer	18	224	9.878	0.132	0.5	0.0211	0.0000	OK
15 minute summer	17	10	10.240	0.040	2.0	0.0158	0.0000	OK
15 minute summer	16	11	10.158	0.065	4.0	0.0296	0.0000	OK
15 minute summer	15	11	10.071	0.086	5.9	0.0308	0.0000	OK
240 minute summer	14	228	9.879	0.133	1.5	0.0211	0.0000	OK
720 minute summer	13	720	9.916	-0.159	2.6	0.0000	0.0000	OK
15 minute summer	12	1	9.880	0.000	0.0	0.0000	0.0000	OK
15 minute summer	11	1	9.860	0.000	0.0	0.0000	0.0000	OK
240 minute summer	10	228	9.877	-0.323	1.1	0.0000	0.0000	OK
15 minute summer	9	1	9.850	0.000	0.0	0.0000	0.0000	OK
120 minute summer	8	130	9.839	-0.191	1.0	0.0000	0.0000	OK
15 minute summer	7	1	9.970	0.000	0.0	0.0000	0.0000	OK
15 minute summer	6	1	9.850	0.000	0.0	0.0000	0.0000	OK
15 minute summer	5	1	9.840	0.000	0.0	0.0000	0.0000	OK
960 minute summer	4	765	9.686	0.052	0.5	0.0584	0.0000	OK
960 minute summer	3	765	9.686	-0.044	1.2	0.0000	0.0000	OK
15 minute summer	2	1	9.730	0.000	0.0	0.0000	0.0000	OK
15 minute summer	1	1	9.700	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)
15 minute summer	19	19.002	18	1.9	0.389	0.140	0.0219	
240 minute summer	18	Flow through pond	10	1.1	0.005	0.074	7.4201	
15 minute summer	17	30.000	16	2.0	0.475	0.334	0.0463	
15 minute summer	16	30.001	15	3.9	0.619	0.766	0.0957	
15 minute summer	15	30.002	14	5.8	0.874	0.879	0.0138	
240 minute summer	14	Flow through pond	10	1.1	0.005	0.074	7.4201	
720 minute summer	13	1.000	12	0.0	0.000	0.000	0.0000	
720 minute summer	13	Infiltration		0.2				
15 minute summer	12	1.001	11	0.0	0.000	0.000	0.0000	
15 minute summer	11	1.002	9	0.0	0.000	0.000	0.0000	
240 minute summer	10	2.000	9	0.0	0.000	0.000	0.0000	
240 minute summer	10	Infiltration		0.0				
15 minute summer	9	1.003	6	0.0	0.000	0.000	0.0000	
120 minute summer	8	3.000	7	0.0	0.000	0.000	0.0000	
120 minute summer	8	Infiltration		0.0				
15 minute summer	7	3.001	6	0.0	0.000	0.000	0.0000	
15 minute summer	6	1.004	5	0.0	0.000	0.000	0.0000	
15 minute summer	5	1.005	4	0.0	0.000	0.000	0.0000	
960 minute summer	4	Flow through pond	3	-0.5	-0.001	-0.003	12.7499	
960 minute summer	3	49.000	2	0.0	0.000	0.000	0.0000	
960 minute summer	3	Infiltration		0.2				
15 minute summer	2	Hydro-Brake®	1	0.0				0.0

Results for 100 year Critical Storm Duration. Lowest mass balance: 95.69%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	130	10	10.081	0.031	1.3	0.0082	0.0000	OK
15 minute summer	129	10	10.192	0.032	1.3	0.0095	0.0000	OK
15 minute summer	128	10	10.174	0.034	1.7	0.0139	0.0000	OK
15 minute summer	127	10	10.149	0.049	4.2	0.0137	0.0000	OK
15 minute summer	126	11	10.052	0.072	6.7	0.0185	0.0000	OK
120 minute summer	125	76	10.036	0.277	3.1	0.0441	0.0000	OK
15 minute summer	124	10	10.124	0.024	0.9	0.0057	0.0000	OK
15 minute summer	123	10	10.178	0.028	0.9	0.0070	0.0000	OK
15 minute summer	122	11	10.131	0.031	1.3	0.0062	0.0000	OK
15 minute summer	121	11	10.040	0.050	2.5	0.0096	0.0000	OK
120 minute summer	120	112	9.851	0.094	1.2	0.0008	0.0000	OK
15 minute summer	119	10	10.186	0.036	1.7	0.0120	0.0000	OK
15 minute summer	118	10	10.184	0.034	1.7	0.0114	0.0000	OK
15 minute summer	117	11	10.072	0.072	5.0	0.0211	0.0000	OK
180 minute summer	116	184	9.912	0.151	1.5	0.0240	0.0000	OK
15 minute summer	115	10	10.088	0.038	1.7	0.0115	0.0000	OK
180 minute summer	114	184	9.912	0.151	0.5	0.0240	0.0000	OK
120 minute summer	113	76	10.036	0.036	2.1	0.0059	0.0000	OK
15 minute summer	112	10	10.082	0.102	8.5	0.0881	0.0000	OK
15 minute summer	111	10	10.062	0.092	8.4	0.0146	0.0000	OK
1440 minute summer	110	900	10.022	0.242	1.8	0.0385	0.0000	OK
120 minute summer	109	110	9.851	-0.149	0.7	0.0000	0.0000	OK
15 minute summer	108	12	10.010	0.070	0.7	0.0111	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 summer	130	41.000	126	1.3	0.314	0.204	0.0266	
15 minute summer	129	39.000	127	1.3	0.426	0.225	0.0205	
15 minute summer	128	40.000	127	1.7	0.425	0.111	0.0217	
15 minute summer	127	39.001	126	4.2	0.625	0.231	0.0783	
15 minute summer	126	39.002	125	6.6	0.852	0.383	0.0245	
120 minute summer	125	Flow through pond	113	1.4	0.008	0.133	4.6871	
15 minute summer	124	38.000	121	0.9	0.415	0.123	0.0211	
15 minute summer	123	37.000	122	0.9	0.451	0.164	0.0126	
15 minute summer	122	37.001	121	1.3	0.426	0.208	0.0327	
15 minute summer	121	37.002	120	2.5	0.671	0.440	0.0169	
120 minute summer	120	Flow through pond	109	0.7	0.008	0.046	1.6278	
15 minute summer	119	43.000	117	1.7	0.395	0.271	0.0616	
15 minute summer	118	44.000	117	1.7	0.407	0.247	0.0501	
15 minute summer	117	43.001	116	4.9	0.865	0.753	0.0243	
180 minute summer	116	Flow through pond	107	1.0	0.005	0.045	6.2394	
15 minute summer	115	47.000	114	1.7	0.639	0.273	0.0128	
180 minute summer	114	Flow through pond	107	1.0	0.005	0.045	6.2394	
120 minute summer	113	45.000	111	1.6	0.316	0.074	0.0117	
120 minute summer	113	Infiltration		0.0				
15 minute summer	112	46.000	111	8.4	0.701	0.583	0.0180	
15 minute summer	111	45.001	110	5.5	0.579	0.415	0.0329	
1440 minute summer	110	Flow through pond	105	0.9	0.002	0.028	12.3119	
120 minute summer	109	22.000	108	0.0	0.000	0.000	0.0074	
120 minute summer	109	Infiltration		0.0				
15 minute summer	108	22.001	106	-0.7	-0.273	-0.066	0.0245	

Results for 100 year Critical Storm Duration. Lowest mass balance: 95.69%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
180 minute summer	107	188	9.912	-0.088	1.0	0.0000	0.0000	OK
15 minute summer	106	12	10.010	0.080	1.4	0.0127	0.0000	OK
1440 minute summer	105	900	10.022	0.002	0.9	0.0004	0.0000	OK
15 minute summer	104	12	10.010	0.090	1.9	0.0143	0.0000	OK
15 minute summer	103	12	10.057	0.042	1.3	0.0105	0.0000	OK
15 minute summer	102	10	10.163	0.038	1.7	0.0114	0.0000	OK
15 minute summer	101	10	10.127	0.052	3.4	0.0140	0.0000	OK
15 minute summer	100	11	10.055	0.120	6.1	0.0319	0.0000	SURCHARGED
15 minute summer	99	12	10.010	0.100	5.8	0.0159	0.0000	OK
15 minute summer	98	12	9.992	0.082	4.9	0.0130	0.0000	OK
180 minute summer	97	204	9.880	0.143	1.9	0.0228	0.0000	OK
15 minute summer	96	10	10.448	0.028	0.9	0.0080	0.0000	OK
15 minute summer	95	11	10.387	0.042	1.8	0.0110	0.0000	OK
15 minute summer	94	11	10.305	0.030	2.9	0.0087	0.0000	OK
120 minute summer	93	128	10.029	0.120	1.4	0.0190	0.0000	OK
15 minute summer	92	11	10.072	0.037	1.3	0.0092	0.0000	OK
15 minute summer	91	10	10.163	0.038	1.7	0.0113	0.0000	OK
15 minute summer	90	10	10.127	0.052	3.4	0.0141	0.0000	OK
15 minute summer	89	11	10.068	0.133	6.3	0.0351	0.0000	SURCHARGED
180 minute summer	88	196	9.880	-0.080	1.0	0.0000	0.0000	OK
15 minute summer	87	11	9.985	0.085	5.9	0.0136	0.0000	OK
180 minute summer	86	200	9.881	0.144	1.9	0.0229	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)
180 minute summer	107	23.000	106	0.0	0.000	0.000	0.0033	
180 minute summer	107	Infiltration		0.0				
15 minute summer	106	22.002	104	-1.4	-0.236	-0.172	0.0485	
1440 minute summer	105	24.000	104	0.0	0.000	0.000	0.0019	
1440 minute summer	105	Infiltration		0.0				
15 minute summer	104	22.003	99	-1.9	-0.220	-0.317	0.1020	
15 minute summer	103	21.000	100	1.2	0.234	0.203	0.0488	
15 minute summer	102	20.000	101	1.7	0.491	0.291	0.0188	
15 minute summer	101	20.001	100	3.3	0.500	0.538	0.0808	
15 minute summer	100	20.002	99	5.8	0.749	1.195	0.0298	
15 minute summer	99	20.003	98	4.9	0.441	0.371	0.0565	
15 minute summer	98	20.004	97	4.9	0.576	0.368	0.0173	
180 minute summer	97	Flow through pond	88	1.0	0.004	0.028	5.8544	
15 minute summer	96	34.000	95	0.9	0.348	0.175	0.0281	
15 minute summer	95	34.001	94	1.7	0.660	0.347	0.0275	
15 minute summer	94	34.002	93	2.9	1.590	0.156	0.0034	
120 minute summer	93	Flow through pond	85	0.8	0.007	0.075	2.2524	
15 minute summer	92	28.000	89	1.3	0.230	0.202	0.0464	
15 minute summer	91	27.000	90	1.7	0.491	0.291	0.0188	
15 minute summer	90	27.001	89	3.3	0.486	0.538	0.0809	
15 minute summer	89	27.002	87	5.9	0.765	1.413	0.0531	
180 minute summer	88	29.000	87	0.0	0.000	0.000	0.0125	
180 minute summer	88	Infiltration		0.0				
15 minute summer	87	27.003	86	5.2	0.582	0.389	0.0212	
180 minute summer	86	Flow through pond	73	1.0	0.004	0.030	5.8758	

Results for 100 year Critical Storm Duration. Lowest mass balance: 95.69%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
120 minute summer	85	124	10.030	-0.120	0.8	0.0000	0.0000	OK
15 minute summer	84	11	10.168	0.048	1.3	0.0122	0.0000	OK
15 minute summer	83	10	10.283	0.033	1.3	0.0091	0.0000	OK
15 minute summer	82	12	10.255	0.068	3.0	0.0206	0.0000	OK
15 minute summer	81	12	10.247	0.111	4.5	0.0312	0.0000	SURCHARGED
15 minute summer	80	11	10.166	0.106	6.2	0.0262	0.0000	SURCHARGED
15 minute summer	79	12	10.090	0.090	6.1	0.0143	0.0000	OK
180 minute summer	78	400	9.952	0.142	2.2	0.0225	0.0000	OK
15 minute summer	77	10	10.079	0.029	1.3	0.0078	0.0000	OK
15 minute summer	76	10	10.148	0.038	1.7	0.0122	0.0000	OK
15 minute summer	75	10	10.113	0.053	3.4	0.0152	0.0000	OK
15 minute summer	74	11	10.057	0.127	6.3	0.0353	0.0000	SURCHARGED
180 minute summer	73	188	9.881	-0.069	1.0	0.0000	0.0000	OK
15 minute summer	72	11	9.978	0.088	6.1	0.0140	0.0000	OK
180 minute summer	71	192	9.881	0.144	1.9	0.0229	0.0000	OK
15 minute summer	70	11	10.115	0.065	1.7	0.0197	0.0000	OK
15 minute summer	69	11	10.105	0.080	3.2	0.0239	0.0000	OK
180 minute summer	68	188	9.912	0.096	1.0	0.0153	0.0000	OK
15 minute summer	67	10	10.242	0.042	2.1	0.0149	0.0000	OK
15 minute summer	66	11	10.242	0.042	1.7	0.0135	0.0000	OK
15 minute summer	65	11	10.238	0.121	3.4	0.0358	0.0000	SURCHARGED
15 minute summer	64	11	10.210	0.110	6.6	0.0321	0.0000	SURCHARGED
180 minute summer	63	104	10.050	0.240	2.2	0.0382	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)
120 minute summer	85	9.000	79	0.0	0.000	0.000	0.0175	
120 minute summer	85	Infiltration		0.0				
15 minute summer	84	8.000	80	1.1	0.260	0.200	0.0391	
15 minute summer	83	7.000	82	1.3	0.403	0.230	0.0289	
15 minute summer	82	7.001	81	2.8	0.502	0.467	0.0346	
15 minute summer	81	7.002	80	4.1	0.542	1.001	0.1305	
15 minute summer	80	7.003	79	6.1	0.786	1.027	0.0469	
15 minute summer	79	7.004	78	6.1	0.632	0.462	0.0135	
180 minute summer	78	Flow through pond	50	1.1	0.005	0.010	6.5688	
15 minute summer	77	32.000	74	1.3	0.248	0.181	0.0432	
15 minute summer	76	31.000	75	1.7	0.485	0.291	0.0190	
15 minute summer	75	31.001	74	3.3	0.494	0.558	0.0816	
15 minute summer	74	31.002	72	6.1	0.779	1.268	0.0475	
180 minute summer	73	33.000	72	0.0	0.000	0.000	0.0203	
180 minute summer	73	Infiltration		0.0				
15 minute summer	72	31.003	71	5.3	0.578	0.397	0.0263	
180 minute summer	71	Flow through pond	41	1.0	0.004	0.031	5.8746	
15 minute summer	70	42.000	69	1.6	0.265	0.550	0.0638	
15 minute summer	69	42.001	68	3.2	0.552	1.013	0.0515	
180 minute summer	68	Flow through pond	34	0.7	0.007	0.065	3.1768	
15 minute summer	67	36.000	64	2.1	0.392	0.363	0.0610	
15 minute summer	66	35.000	65	1.7	0.311	0.282	0.0474	
15 minute summer	65	35.001	64	3.0	0.388	1.239	0.0773	
15 minute summer	64	35.002	63	6.5	0.842	1.067	0.0361	
180 minute summer	63	Flow through pond	36	1.7	0.007	0.159	4.4195	

Results for 100 year Critical Storm Duration. Lowest mass balance: 95.69%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	62	12	10.421	0.051	2.6	0.0297	0.0000	OK
15 minute summer	61	12	10.412	0.112	2.6	0.0178	0.0000	FLOOD RISK
15 minute summer	60	12	10.426	0.046	1.7	0.0188	0.0000	OK
15 minute summer	59	12	10.425	0.105	3.4	0.0389	0.0000	FLOOD RISK
15 minute summer	58	12	10.393	0.213	6.2	0.0668	0.0000	SURCHARGED
15 minute summer	57	12	10.304	0.124	7.3	0.0390	0.0000	SURCHARGED
180 minute summer	56	216	10.145	0.175	2.8	0.0278	0.0000	OK
15 minute summer	55	12	10.172	0.072	1.3	0.0181	0.0000	OK
15 minute summer	54	10	10.283	0.033	1.3	0.0091	0.0000	OK
15 minute summer	53	12	10.255	0.068	3.0	0.0206	0.0000	OK
15 minute summer	52	12	10.248	0.112	4.6	0.0313	0.0000	SURCHARGED
15 minute summer	51	12	10.170	0.134	6.1	0.0327	0.0000	SURCHARGED
180 minute summer	50	404	9.952	-0.198	1.1	0.0000	0.0000	OK
15 minute summer	49	12	10.084	0.094	5.9	0.0150	0.0000	OK
180 minute summer	48	180	9.997	0.198	2.2	0.0316	0.0000	OK
15 minute summer	47	10	10.031	0.031	1.3	0.0081	0.0000	OK
15 minute summer	46	10	10.191	0.031	1.3	0.0092	0.0000	OK
15 minute summer	45	10	10.140	0.050	2.6	0.0138	0.0000	OK
15 minute summer	44	11	10.098	0.058	3.8	0.0146	0.0000	OK
15 minute summer	43	11	9.983	0.073	6.2	0.0181	0.0000	OK
120 minute summer	42	148	9.870	0.133	3.0	0.0212	0.0000	OK
180 minute summer	41	188	9.881	-0.319	1.0	0.0000	0.0000	OK
15 minute summer	40	1	9.880	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)
15 minute summer	62	17.000	61	2.6	0.657	0.500	0.0555	
15 minute summer	61	17.001	58	2.1	0.310	0.369	0.1038	
15 minute summer	60	18.000	59	1.7	0.483	0.291	0.0374	
15 minute summer	59	18.001	58	2.9	0.431	0.486	0.1136	
15 minute summer	58	17.002	57	5.9	0.756	1.004	0.0559	
15 minute summer	57	17.003	56	7.3	0.935	1.248	0.0161	
180 minute summer	56	Flow through pond	35	1.4	0.005	0.045	8.8805	
15 minute summer	55	5.000	51	1.1	0.236	0.181	0.0470	
15 minute summer	54	4.000	53	1.3	0.403	0.230	0.0288	
15 minute summer	53	4.001	52	2.9	0.544	0.484	0.0346	
15 minute summer	52	4.002	51	3.9	0.544	0.837	0.1305	
15 minute summer	51	4.003	49	5.9	0.755	1.230	0.0557	
180 minute summer	50	6.000	49	0.0	0.000	0.000	0.0151	
180 minute summer	50	Infiltration		0.0				
15 minute summer	49	4.004	48	5.9	0.599	0.447	0.0312	
180 minute summer	48	Flow through pond	29	0.6	0.003	0.018	9.0631	
15 minute summer	47	26.000	43	1.3	0.312	0.209	0.0364	
15 minute summer	46	25.000	45	1.3	0.431	0.208	0.0203	
15 minute summer	45	25.001	44	2.5	0.581	0.434	0.0236	
15 minute summer	44	25.002	43	3.8	0.686	0.634	0.0737	
15 minute summer	43	25.003	42	6.3	0.778	0.408	0.0323	
120 minute summer	42	Flow through pond	21	1.5	0.005	0.050	5.4118	
180 minute summer	41	48.000	40	0.0	0.000	0.000	0.0000	
180 minute summer	41	Infiltration		0.0				
15 minute summer	40	48.001	39	0.0	0.000	0.000	0.0000	

Results for 100 year Critical Storm Duration. Lowest mass balance: 95.69%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
120 minute summer	39	148	9.870	0.133	0.1	0.0212	0.0000	OK
15 minute summer	38	10	10.157	0.057	4.3	0.0281	0.0000	OK
15 minute summer	37	10	10.045	0.045	4.3	0.0071	0.0000	OK
180 minute summer	36	104	10.050	0.050	1.7	0.0080	0.0000	OK
180 minute summer	35	196	10.145	-0.065	1.4	0.0000	0.0000	OK
180 minute summer	34	188	9.912	-0.138	0.7	0.0000	0.0000	OK
720 minute summer	33	720	9.960	0.010	0.0	0.0016	0.0000	OK
720 minute summer	32	735	9.960	0.060	0.0	0.0096	0.0000	OK
720 minute summer	31	735	9.960	0.070	1.1	0.0111	0.0000	OK
720 minute summer	30	735	9.960	0.144	1.8	0.0229	0.0000	OK
180 minute summer	29	180	9.997	0.017	1.6	0.0029	0.0000	OK
15 minute summer	28	10	10.322	0.022	1.3	0.0066	0.0000	OK
15 minute summer	27	10	10.328	0.028	1.3	0.0083	0.0000	OK
15 minute summer	26	12	10.241	0.054	3.0	0.0162	0.0000	OK
15 minute summer	25	11	10.235	0.099	4.6	0.0278	0.0000	OK
15 minute summer	24	11	10.151	0.141	6.6	0.0340	0.0000	SURCHARGED
15 minute summer	23	11	10.046	0.066	6.4	0.0105	0.0000	OK
180 minute summer	22	244	9.866	0.076	1.2	0.0121	0.0000	OK
120 minute summer	21	134	9.869	-0.061	1.5	0.0000	0.0000	OK
15 minute summer	20	11	9.938	0.068	2.6	0.0220	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)
120 minute summer	39	Flow through pond	21	1.5	0.005	0.050	5.4118	
15 minute summer	38	13.000	37	4.3	0.807	0.283	0.0732	
15 minute summer	37	13.001	31	2.8	0.564	0.193	0.0841	
180 minute summer	36	14.000	37	1.6	0.354	0.120	0.0069	
180 minute summer	36	Infiltration		0.0				
180 minute summer	35	16.000	32	0.0	0.000	0.000	0.0092	
180 minute summer	35	Infiltration		0.0				
180 minute summer	34	15.000	33	0.0	0.000	0.000	0.0000	
180 minute summer	34	Infiltration		0.0				
720 minute summer	33	15.001	32	0.0	-0.008	-0.001	0.0132	
720 minute summer	32	15.002	31	0.0	-0.014	-0.011	0.1446	
720 minute summer	31	13.002	30	1.0	0.342	0.078	0.0206	
720 minute summer	30	Flow through pond	13	-1.4	-0.002	-0.022	38.7502	
180 minute summer	29	12.000	23	-1.0	-0.335	-0.075	0.0062	
180 minute summer	29	Infiltration		0.0				
15 minute summer	28	11.000	24	1.3	0.279	0.108	0.0351	
15 minute summer	27	10.000	26	1.3	0.432	0.172	0.0226	
15 minute summer	26	10.001	25	2.9	0.567	0.488	0.0309	
15 minute summer	25	10.002	24	4.1	0.557	0.793	0.1313	
15 minute summer	24	10.003	23	6.4	0.835	2.227	0.0309	
15 minute summer	23	10.004	22	3.4	0.528	0.260	0.0078	
180 minute summer	22	Flow through pond	8	0.7	0.005	0.024	3.6707	
120 minute summer	21	19.000	20	0.0	0.000	0.000	0.0390	
120 minute summer	21	Infiltration		0.0				
15 minute summer	20	19.001	19	2.4	0.325	0.432	0.0738	

Results for 100 year Critical Storm Duration. Lowest mass balance: 95.69%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	19	11	9.922	0.062	2.4	0.0099	0.0000	OK
480 minute summer	18	432	9.921	0.175	0.6	0.0278	0.0000	OK
15 minute summer	17	10	10.246	0.046	2.6	0.0183	0.0000	OK
15 minute summer	16	11	10.198	0.105	5.1	0.0479	0.0000	SURCHARGED
15 minute summer	15	10	10.098	0.113	7.1	0.0406	0.0000	SURCHARGED
480 minute summer	14	392	9.919	0.173	1.2	0.0275	0.0000	OK
720 minute summer	13	735	9.960	-0.115	3.3	0.0000	0.0000	OK
15 minute summer	12	1	9.880	0.000	0.0	0.0000	0.0000	OK
15 minute summer	11	1	9.860	0.000	0.0	0.0000	0.0000	OK
480 minute summer	10	392	9.919	-0.281	0.8	0.0000	0.0000	OK
15 minute summer	9	1	9.850	0.000	0.0	0.0000	0.0000	OK
180 minute summer	8	244	9.866	-0.164	0.7	0.0000	0.0000	OK
15 minute summer	7	1	9.970	0.000	0.0	0.0000	0.0000	OK
15 minute summer	6	1	9.850	0.000	0.0	0.0000	0.0000	OK
15 minute summer	5	1	9.840	0.000	0.0	0.0000	0.0000	OK
720 minute summer	4	720	9.707	0.073	0.9	0.0828	0.0000	OK
720 minute summer	3	720	9.707	-0.023	1.9	0.0000	0.0000	OK
15 minute summer	2	1	9.730	0.000	0.0	0.0000	0.0000	OK
15 minute summer	1	1	9.700	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)
15 minute summer	19	19.002	18	2.3	0.421	0.175	0.0254	
480 minute summer	18	Flow through pond	10	0.8	0.005	0.054	9.6303	
15 minute summer	17	30.000	16	2.5	0.495	0.431	0.0627	
15 minute summer	16	30.001	15	4.6	0.631	0.907	0.1192	
15 minute summer	15	30.002	14	6.9	0.894	1.050	0.0155	
480 minute summer	14	Flow through pond	10	0.8	0.005	0.054	9.6303	
720 minute summer	13	1.000	12	0.0	0.000	0.000	0.0000	
720 minute summer	13	Infiltration		0.2				
15 minute summer	12	1.001	11	0.0	0.000	0.000	0.0000	
15 minute summer	11	1.002	9	0.0	0.000	0.000	0.0000	
480 minute summer	10	2.000	9	0.0	0.000	0.000	0.0000	
480 minute summer	10	Infiltration		0.0				
15 minute summer	9	1.003	6	0.0	0.000	0.000	0.0000	
180 minute summer	8	3.000	7	0.0	0.000	0.000	0.0000	
180 minute summer	8	Infiltration		0.0				
15 minute summer	7	3.001	6	0.0	0.000	0.000	0.0000	
15 minute summer	6	1.004	5	0.0	0.000	0.000	0.0000	
15 minute summer	5	1.005	4	0.0	0.000	0.000	0.0000	
720 minute summer	4	Flow through pond	3	-0.9	-0.001	-0.004	17.6011	
720 minute summer	3	49.000	2	0.0	0.000	0.000	0.0000	
720 minute summer	3	Infiltration		0.2				
15 minute summer	2	Hydro-Brake®	1	0.0				0.0

Results for 100 year +40% CC +10% A Critical Storm Duration. Lowest mass balance: 95.69%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute summer	130	38	10.093	0.043	1.3	0.0121	0.0000	OK
15 minute summer	129	10	10.201	0.041	2.0	0.0126	0.0000	OK
15 minute summer	128	10	10.183	0.043	2.6	0.0190	0.0000	OK
15 minute summer	127	10	10.162	0.062	6.5	0.0181	0.0000	OK
60 minute summer	126	38	10.093	0.113	7.0	0.0299	0.0000	OK
60 minute summer	125	38	10.091	0.332	7.0	0.0528	0.0000	OK
15 minute summer	124	11	10.129	0.029	1.3	0.0072	0.0000	OK
15 minute summer	123	10	10.185	0.035	1.3	0.0090	0.0000	OK
15 minute summer	122	10	10.139	0.039	2.0	0.0079	0.0000	OK
15 minute summer	121	11	10.056	0.066	3.9	0.0129	0.0000	OK
360 minute summer	120	592	10.042	0.285	1.4	0.0077	0.0000	OK
15 minute summer	119	10	10.195	0.045	2.6	0.0160	0.0000	OK
15 minute summer	118	10	10.193	0.043	2.6	0.0152	0.0000	OK
15 minute summer	117	11	10.130	0.130	7.7	0.0398	0.0000	SURCHARGED
240 minute summer	116	476	10.055	0.294	2.1	0.0467	0.0000	OK
15 minute summer	115	10	10.099	0.049	2.6	0.0155	0.0000	OK
240 minute summer	114	476	10.055	0.294	0.7	0.0467	0.0000	OK
60 minute summer	113	38	10.090	0.090	5.0	0.0144	0.0000	OK
15 minute summer	112	10	10.114	0.134	13.2	0.1247	0.0000	OK
60 minute summer	111	38	10.089	0.119	8.8	0.0189	0.0000	OK
240 minute summer	110	168	10.039	0.259	5.8	0.0412	0.0000	OK
360 minute summer	109	592	10.042	0.042	2.7	0.0068	0.0000	OK
240 minute summer	108	476	10.057	0.117	4.1	0.0186	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	130	41.000	126	1.3	0.315	0.209	0.0365	
15 minute summer	129	39.000	127	2.0	0.486	0.349	0.0277	
15 minute summer	128	40.000	127	2.6	0.466	0.170	0.0304	
15 minute summer	127	39.001	126	6.5	0.693	0.361	0.1096	
60 minute summer	126	39.002	125	7.0	0.862	0.403	0.0492	
60 minute summer	125	Flow through pond	113	4.1	0.010	0.379	5.5867	
15 minute summer	124	38.000	121	1.3	0.387	0.184	0.0296	
15 minute summer	123	37.000	122	1.3	0.495	0.248	0.0174	
15 minute summer	122	37.001	121	1.9	0.474	0.322	0.0457	
15 minute summer	121	37.002	120	3.9	0.741	0.684	0.0237	
360 minute summer	120	Flow through pond	109	1.9	0.010	0.127	4.7982	
15 minute summer	119	43.000	117	2.6	0.425	0.418	0.0815	
15 minute summer	118	44.000	117	2.6	0.440	0.381	0.0663	
15 minute summer	117	43.001	116	7.6	0.968	1.154	0.0321	
240 minute summer	116	Flow through pond	107	1.4	0.005	0.060	11.9529	
15 minute summer	115	47.000	114	2.6	0.713	0.421	0.0176	
240 minute summer	114	Flow through pond	107	1.4	0.005	0.060	11.9529	
60 minute summer	113	45.000	111	4.6	-0.410	0.218	0.0277	
60 minute summer	113	Infiltration		0.0				
15 minute summer	112	46.000	111	13.1	0.849	0.906	0.0230	
60 minute summer	111	45.001	110	8.8	0.688	0.668	0.0442	
240 minute summer	110	Flow through pond	105	3.7	0.010	0.113	13.1865	
360 minute summer	109	22.000	108	3.9	0.527	0.169	0.0310	
360 minute summer	109	Infiltration		0.0				
240 minute summer	108	22.001	106	4.0	0.348	0.383	0.0429	

Results for 100 year +40% CC +10% A Critical Storm Duration. Lowest mass balance: 95.69%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
240 minute summer	107	476	10.055	0.055	2.0	0.0088	0.0000	OK
240 minute summer	106	476	10.059	0.129	4.2	0.0205	0.0000	OK
240 minute summer	105	168	10.039	0.019	3.7	0.0032	0.0000	OK
240 minute summer	104	476	10.063	0.143	9.0	0.0228	0.0000	OK
15 minute summer	103	12	10.135	0.120	2.0	0.0309	0.0000	SURCHARGED
15 minute summer	102	12	10.217	0.092	2.6	0.0292	0.0000	OK
15 minute summer	101	12	10.209	0.134	5.0	0.0374	0.0000	SURCHARGED
15 minute summer	100	12	10.127	0.192	8.3	0.0530	0.0000	SURCHARGED
240 minute summer	99	476	10.059	0.149	6.5	0.0238	0.0000	OK
240 minute summer	98	476	10.057	0.147	5.0	0.0234	0.0000	OK
240 minute summer	97	476	10.055	0.318	4.8	0.0506	0.0000	OK
15 minute summer	96	11	10.455	0.035	1.3	0.0103	0.0000	OK
15 minute summer	95	11	10.399	0.054	2.6	0.0145	0.0000	OK
15 minute summer	94	10	10.314	0.039	4.5	0.0117	0.0000	OK
360 minute summer	93	304	10.113	0.203	1.0	0.0323	0.0000	OK
15 minute summer	92	12	10.159	0.124	2.0	0.0321	0.0000	SURCHARGED
15 minute summer	91	12	10.240	0.115	2.6	0.0360	0.0000	SURCHARGED
15 minute summer	90	12	10.231	0.156	4.9	0.0439	0.0000	SURCHARGED
15 minute summer	89	12	10.152	0.217	8.1	0.0596	0.0000	SURCHARGED
240 minute summer	88	476	10.055	0.095	3.6	0.0153	0.0000	OK
240 minute summer	87	476	10.055	0.155	3.0	0.0246	0.0000	SURCHARGED
240 minute summer	86	476	10.054	0.317	2.9	0.0504	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)
240 minute summer	107	23.000	106	-2.0	-0.349	-0.181	0.0127	
240 minute summer	107	Infiltration		0.0				
240 minute summer	106	22.002	104	-4.2	0.268	-0.523	0.0788	
240 minute summer	105	24.000	104	7.6	0.671	0.211	0.0267	
240 minute summer	105	Infiltration		0.0				
240 minute summer	104	22.003	99	6.5	0.418	1.106	0.1519	
15 minute summer	103	21.000	100	1.7	0.237	0.294	0.0697	
15 minute summer	102	20.000	101	2.4	0.525	0.419	0.0423	
15 minute summer	101	20.001	100	4.4	0.600	0.713	0.1058	
15 minute summer	100	20.002	99	8.1	1.035	1.662	0.0298	
240 minute summer	99	20.003	98	5.0	0.351	0.378	0.0890	
240 minute summer	98	20.004	97	4.8	0.468	0.363	0.0358	
240 minute summer	97	Flow through pond	88	3.6	0.004	0.105	12.8482	
15 minute summer	96	34.000	95	1.3	0.387	0.266	0.0385	
15 minute summer	95	34.001	94	2.6	0.727	0.533	0.0382	
15 minute summer	94	34.002	93	4.5	1.758	0.240	0.0048	
360 minute summer	93	Flow through pond	85	0.5	0.006	0.046	3.7634	
15 minute summer	92	28.000	89	1.6	0.244	0.254	0.0697	
15 minute summer	91	27.000	90	2.4	0.510	0.424	0.0430	
15 minute summer	90	27.001	89	4.2	0.555	0.688	0.1059	
15 minute summer	89	27.002	87	8.0	1.019	1.895	0.0554	
240 minute summer	88	29.000	87	3.0	0.280	0.149	0.0670	
240 minute summer	88	Infiltration		0.0				
240 minute summer	87	27.003	86	2.9	0.463	0.221	0.0421	
240 minute summer	86	Flow through pond	73	2.1	0.004	0.064	12.7967	

Results for 100 year +40% CC +10% A Critical Storm Duration. Lowest mass balance: 95.69%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
360 minute summer	85	288	10.113	-0.037	0.5	0.0000	0.0000	OK
15 minute summer	84	12	10.256	0.136	2.0	0.0360	0.0000	SURCHARGED
15 minute summer	83	12	10.415	0.165	2.0	0.0482	0.0000	SURCHARGED
15 minute summer	82	12	10.411	0.224	4.3	0.0709	0.0000	SURCHARGED
15 minute summer	81	12	10.391	0.255	5.5	0.0744	0.0000	SURCHARGED
15 minute summer	80	12	10.250	0.190	8.3	0.0486	0.0000	SURCHARGED
15 minute summer	79	12	10.105	0.105	8.1	0.0167	0.0000	OK
240 minute summer	78	480	10.059	0.249	2.9	0.0396	0.0000	OK
15 minute summer	77	12	10.139	0.089	2.0	0.0250	0.0000	OK
15 minute summer	76	12	10.224	0.114	2.6	0.0387	0.0000	SURCHARGED
15 minute summer	75	12	10.214	0.154	5.0	0.0460	0.0000	SURCHARGED
15 minute summer	74	12	10.133	0.203	8.2	0.0590	0.0000	SURCHARGED
240 minute summer	73	476	10.054	0.104	2.1	0.0167	0.0000	OK
240 minute summer	72	476	10.054	0.164	2.6	0.0261	0.0000	SURCHARGED
240 minute summer	71	476	10.054	0.317	2.6	0.0504	0.0000	OK
15 minute summer	70	11	10.166	0.116	2.6	0.0370	0.0000	SURCHARGED
15 minute summer	69	11	10.145	0.120	4.9	0.0374	0.0000	SURCHARGED
960 minute summer	68	1080	10.057	0.241	0.4	0.0383	0.0000	OK
15 minute summer	67	12	10.324	0.124	3.3	0.0469	0.0000	SURCHARGED
15 minute summer	66	12	10.371	0.171	2.6	0.0573	0.0000	SURCHARGED
15 minute summer	65	12	10.357	0.240	4.5	0.0745	0.0000	SURCHARGED
15 minute summer	64	12	10.296	0.196	9.3	0.0601	0.0000	SURCHARGED
60 minute summer	63	38	10.090	0.280	7.1	0.0446	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)
360 minute summer	85	9.000	79	0.0	0.000	0.000	0.0133	
360 minute summer	85	Infiltration		0.0				
15 minute summer	84	8.000	80	1.5	0.269	0.273	0.0531	
15 minute summer	83	7.000	82	1.8	0.411	0.325	0.0592	
15 minute summer	82	7.001	81	3.3	0.512	0.549	0.0401	
15 minute summer	81	7.002	80	5.1	0.655	1.267	0.1305	
15 minute summer	80	7.003	79	8.1	1.038	1.363	0.0482	
15 minute summer	79	7.004	78	8.1	0.698	0.612	0.0161	
240 minute summer	78	Flow through pond	50	1.5	0.005	0.013	11.3731	
15 minute summer	77	32.000	74	1.7	0.246	0.235	0.0677	
15 minute summer	76	31.000	75	2.5	0.504	0.427	0.0430	
15 minute summer	75	31.001	74	4.3	0.550	0.727	0.1058	
15 minute summer	74	31.002	72	8.1	1.030	1.681	0.0492	
240 minute summer	73	33.000	72	1.9	0.208	0.116	0.1107	
240 minute summer	73	Infiltration		0.0				
240 minute summer	72	31.003	71	2.6	0.455	0.195	0.0510	
240 minute summer	71	Flow through pond	41	1.3	0.004	0.042	12.7792	
15 minute summer	70	42.000	69	2.4	0.310	0.839	0.0826	
15 minute summer	69	42.001	68	4.9	0.650	1.549	0.0625	
960 minute summer	68	Flow through pond	34	0.5	0.005	0.049	7.5742	
15 minute summer	67	36.000	64	2.7	0.411	0.478	0.0876	
15 minute summer	66	35.000	65	2.1	0.335	0.360	0.0676	
15 minute summer	65	35.001	64	4.3	0.545	1.740	0.0773	
15 minute summer	64	35.002	63	9.2	1.171	1.503	0.0378	
60 minute summer	63	Flow through pond	36	5.1	0.010	0.477	5.1291	

Results for 100 year +40% CC +10% A Critical Storm Duration. Lowest mass balance: 95.69%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	62	12	10.580	0.210	3.9	0.1321	0.0000	FLOOD RISK
15 minute summer	61	12	10.554	0.254	3.0	0.0403	0.0000	FLOOD RISK
15 minute summer	60	12	10.593	0.213	2.6	0.0926	0.0000	FLOOD RISK
15 minute summer	59	12	10.586	0.266	4.2	0.1039	0.0000	FLOOD RISK
15 minute summer	58	12	10.525	0.345	8.2	0.1130	0.0000	FLOOD RISK
15 minute summer	57	12	10.361	0.181	10.1	0.0595	0.0000	SURCHARGED
360 minute summer	56	264	10.220	0.250	2.7	0.0398	0.0000	OK
15 minute summer	55	12	10.266	0.166	2.0	0.0432	0.0000	SURCHARGED
15 minute summer	54	12	10.417	0.167	2.0	0.0489	0.0000	SURCHARGED
15 minute summer	53	12	10.413	0.226	4.3	0.0717	0.0000	SURCHARGED
15 minute summer	52	12	10.394	0.258	5.4	0.0754	0.0000	SURCHARGED
15 minute summer	51	12	10.261	0.225	8.1	0.0566	0.0000	SURCHARGED
240 minute summer	50	480	10.059	-0.091	1.5	0.0000	0.0000	OK
15 minute summer	49	12	10.100	0.110	7.9	0.0175	0.0000	OK
240 minute summer	48	148	10.041	0.242	2.9	0.0385	0.0000	OK
15 minute summer	47	10	10.039	0.039	2.0	0.0106	0.0000	OK
15 minute summer	46	10	10.199	0.039	2.0	0.0121	0.0000	OK
15 minute summer	45	11	10.158	0.068	4.0	0.0196	0.0000	OK
15 minute summer	44	11	10.127	0.087	5.9	0.0226	0.0000	OK
15 minute summer	43	11	10.006	0.096	9.6	0.0246	0.0000	OK
480 minute summer	42	496	10.004	0.267	1.5	0.0424	0.0000	OK
240 minute summer	41	476	10.054	-0.146	1.3	0.0000	0.0000	OK
480 minute summer	40	496	10.003	0.123	0.1	0.0195	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 summer	62	17.000	61	3.0	0.676	0.582	0.0737	
15 minute summer	61	17.001	58	2.8	0.356	0.485	0.1038	
15 minute summer	60	18.000	59	1.9	0.505	0.330	0.0517	
15 minute summer	59	18.001	58	3.6	0.461	0.608	0.1136	
15 minute summer	58	17.002	57	8.1	1.036	1.376	0.0559	
15 minute summer	57	17.003	56	10.1	1.290	1.730	0.0166	
360 minute summer	56	Flow through pond	35	1.4	0.005	0.043	12.6033	
15 minute summer	55	5.000	51	1.5	0.233	0.257	0.0531	
15 minute summer	54	4.000	53	1.8	0.404	0.325	0.0592	
15 minute summer	53	4.001	52	3.2	0.562	0.537	0.0401	
15 minute summer	52	4.002	51	5.0	0.641	1.078	0.1305	
15 minute summer	51	4.003	49	7.9	1.013	1.649	0.0564	
240 minute summer	50	6.000	49	0.0	0.000	0.000	0.0180	
240 minute summer	50	Infiltration		0.0				
15 minute summer	49	4.004	48	7.9	0.664	0.596	0.0375	
240 minute summer	48	Flow through pond	29	1.4	0.004	0.040	11.0161	
15 minute summer	47	26.000	43	2.0	0.354	0.325	0.0469	
15 minute summer	46	25.000	45	2.0	0.468	0.323	0.0289	
15 minute summer	45	25.001	44	3.9	0.616	0.674	0.0354	
15 minute summer	44	25.002	43	5.8	0.771	0.980	0.1013	
15 minute summer	43	25.003	42	9.7	0.862	0.630	0.0449	
480 minute summer	42	Flow through pond	21	0.7	0.005	0.024	10.7367	
240 minute summer	41	48.000	40	0.0	0.000	0.000	0.0134	
240 minute summer	41	Infiltration		0.0				
480 minute summer	40	48.001	39	-0.1	-0.093	-0.006	0.0373	

Results for 100 year +40% CC +10% A Critical Storm Duration. Lowest mass balance: 95.69%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
480 minute summer	39	496	10.004	0.267	0.3	0.0424	0.0000	OK
15 minute summer	38	10	10.173	0.073	6.6	0.0382	0.0000	OK
60 minute summer	37	38	10.075	0.075	7.2	0.0119	0.0000	OK
60 minute summer	36	38	10.088	0.088	5.1	0.0141	0.0000	OK
360 minute summer	35	264	10.220	0.010	1.4	0.0017	0.0000	OK
960 minute summer	34	1080	10.057	0.007	0.5	0.0012	0.0000	OK
480 minute summer	33	424	10.106	0.156	0.3	0.0248	0.0000	SURCHARGED
480 minute summer	32	424	10.118	0.218	2.2	0.0347	0.0000	SURCHARGED
360 minute summer	31	352	10.067	0.177	5.4	0.0281	0.0000	SURCHARGED
720 minute summer	30	705	10.062	0.246	3.3	0.0391	0.0000	OK
240 minute summer	29	148	10.041	0.061	2.1	0.0098	0.0000	OK
15 minute summer	28	10	10.328	0.028	2.0	0.0085	0.0000	OK
15 minute summer	27	12	10.404	0.104	2.0	0.0320	0.0000	SURCHARGED
15 minute summer	26	12	10.399	0.212	4.3	0.0672	0.0000	SURCHARGED
15 minute summer	25	12	10.376	0.240	5.7	0.0702	0.0000	SURCHARGED
15 minute summer	24	11	10.217	0.207	8.9	0.0516	0.0000	SURCHARGED
15 minute summer	23	12	10.057	0.077	8.7	0.0123	0.0000	OK
240 minute summer	22	248	10.033	0.244	2.7	0.0387	0.0000	OK
480 minute summer	21	488	10.003	0.073	0.9	0.0116	0.0000	OK
480 minute summer	20	488	10.003	0.133	0.8	0.0452	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)
480 minute summer	39	Flow through pond	21	0.7	0.005	0.024	10.7367	
15 minute summer	38	13.000	37	6.5	0.905	0.434	0.1002	
60 minute summer	37	13.001	31	7.2	0.696	0.491	0.1710	
60 minute summer	36	14.000	37	4.9	0.509	0.371	0.0149	
60 minute summer	36	Infiltration		0.0				
360 minute summer	35	16.000	32	0.5	0.063	0.009	0.0326	
360 minute summer	35	Infiltration		0.0				
960 minute summer	34	15.000	33	-0.4	-0.056	-0.011	0.0187	
960 minute summer	34	Infiltration		0.0				
480 minute summer	33	15.001	32	2.1	0.120	0.102	0.0652	
480 minute summer	32	15.002	31	4.3	0.246	1.124	0.3476	
360 minute summer	31	13.002	30	5.5	0.490	0.413	0.0451	
720 minute summer	30	Flow through pond	13	-1.6	-0.002	-0.024	63.9400	
240 minute summer	29	12.000	23	1.4	-0.368	0.109	0.0136	
240 minute summer	29	Infiltration		0.0				
15 minute summer	28	11.000	24	2.0	0.345	0.168	0.0369	
15 minute summer	27	10.000	26	1.8	0.435	0.245	0.0592	
15 minute summer	26	10.001	25	3.6	0.586	0.597	0.0401	
15 minute summer	25	10.002	24	5.5	0.701	1.052	0.1314	
15 minute summer	24	10.003	23	8.7	1.119	3.022	0.0323	
15 minute summer	23	10.004	22	4.6	0.581	0.350	0.0096	
240 minute summer	22	Flow through pond	8	1.4	0.004	0.045	11.2223	
480 minute summer	21	19.000	20	-0.9	-0.131	-0.081	0.2128	
480 minute summer	21	Infiltration		0.0				
480 minute summer	20	19.001	19	-0.6	0.184	-0.119	0.1705	

Results for 100 year +40% CC +10% A Critical Storm Duration. Lowest mass balance: 95.69%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
480 minute summer	19	488	10.002	0.142	0.6	0.0226	0.0000	OK
480 minute summer	18	496	10.003	0.257	0.6	0.0408	0.0000	OK
15 minute summer	17	12	10.406	0.206	3.9	0.0872	0.0000	FLOOD RISK
15 minute summer	16	12	10.366	0.273	6.9	0.1320	0.0000	FLOOD RISK
15 minute summer	15	11	10.157	0.172	10.1	0.0653	0.0000	SURCHARGED
480 minute summer	14	520	10.003	0.257	1.8	0.0409	0.0000	OK
720 minute summer	13	705	10.062	-0.013	5.0	0.0000	0.0000	OK
15 minute summer	12	1	9.880	0.000	0.0	0.0000	0.0000	OK
15 minute summer	11	1	9.860	0.000	0.0	0.0000	0.0000	OK
480 minute summer	10	488	10.003	-0.197	1.1	0.0000	0.0000	OK
240 minute summer	9	264	9.857	0.007	0.0	0.0011	0.0000	OK
240 minute summer	8	248	10.034	0.004	1.4	0.0007	0.0000	OK
240 minute summer	7	248	9.974	0.004	0.0	0.0006	0.0000	OK
240 minute summer	6	248	9.858	0.008	0.0	0.0013	0.0000	OK
240 minute summer	5	256	9.846	0.006	0.0	0.0009	0.0000	OK
720 minute summer	4	720	9.747	0.113	1.4	0.1279	0.0000	OK
720 minute summer	3	720	9.747	0.017	2.9	0.0552	0.0000	OK
720 minute summer	2	720	9.745	0.015	0.1	0.0167	0.0000	OK
15 minute summer	1	1	9.700	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)
480 minute summer	19	19.002	18	-0.6	0.245	-0.049	0.0790	
480 minute summer	18	Flow through pond	10	1.1	0.005	0.076	14.0712	
15 minute summer	17	30.000	16	3.3	0.525	0.554	0.0875	
15 minute summer	16	30.001	15	6.6	0.838	1.293	0.1192	
15 minute summer	15	30.002	14	10.0	1.273	1.504	0.0161	
480 minute summer	14	Flow through pond	10	1.1	0.005	0.076	14.0712	
720 minute summer	13	1.000	12	0.0	0.000	0.000	0.0000	
720 minute summer	13	Infiltration		0.2				
15 minute summer	12	1.001	11	0.0	0.000	0.000	0.0000	
15 minute summer	11	1.002	9	0.0	0.000	0.000	0.0000	
480 minute summer	10	2.000	9	0.0	0.000	0.000	0.0000	
480 minute summer	10	Infiltration		0.1				
240 minute summer	9	1.003	6	0.0	-0.069	-0.001	0.0012	
240 minute summer	8	3.000	7	0.0	0.316	0.001	0.0002	
240 minute summer	8	Infiltration		0.0				
240 minute summer	7	3.001	6	0.0	0.183	0.001	0.0008	
240 minute summer	6	1.004	5	0.0	0.094	0.004	0.0018	
240 minute summer	5	1.005	4	0.0	0.170	0.002	0.0004	
720 minute summer	4	Flow through pond	3	-1.4	-0.001	-0.007	26.7652	
720 minute summer	3	49.000	2	0.1	0.115	0.009	0.0023	
720 minute summer	3	Infiltration		0.2				
720 minute summer	2	Hydro-Brake®	1	0.1				2.0