

Design Settings

Rainfall Methodology	FEH-13	Minimum Velocity (m/s)	1.00
Return Period (years)	2	Connection Type	Level Soffits
Additional Flow (%)	0	Minimum Backdrop Height (m)	0.200
CV	0.750	Preferred Cover Depth (m)	1.200
Time of Entry (mins)	5.00	Include Intermediate Ground	✓
Maximum Time of Concentration (mins)	30.00	Enforce best practice design rules	✓
Maximum Rainfall (mm/hr)	50.0		

Nodes

Name	Area (ha)	T of E (mins)	Cover Level (m)	Diameter (mm)	Easting (m)	Northing (m)	Depth (m)
S8001	0.076	5.00	57.846	1200	476745.809	165540.634	2.296
SSTUB 1	0.087	5.00	57.400	1200	476767.315	165458.009	2.340
S8002	0.002	5.00	57.293	1200	476758.024	165456.813	2.469
S4	0.018	5.00	57.307	1350	476753.572	165453.360	2.501
SPARCEL-L S4 S1	0.091	5.00	57.000	1350	476745.971	165444.962	1.700
SSTUB2	0.010	5.00	57.606	1350	476751.127	165423.634	2.662
S8003	0.020	5.00	57.321	1350	476757.771	165424.274	2.585
SPARCEL-M S1 S1	0.192	5.00	56.900	1200	476839.979	165478.064	1.610
SPARCEL-M S3 S1	0.083	5.00	57.140	1200	476848.540	165386.583	2.010
SPARCEL-M S1 S2	0.068	5.00	57.140	1200	476841.636	165414.376	2.140
SSTUB3	0.230	5.00	57.220	1200	476778.561	165397.719	2.725
S8004	0.061	5.00	57.569	1500	476761.541	165395.239	3.269
S13	0.025	5.00	57.912	1500	476766.484	165365.779	3.673
SPARCEL L NET L-1 S1	0.040	5.00	58.010	1200	476651.637	165433.827	2.110
S16	0.034	5.00	58.100	1350	476700.519	165454.592	2.400
SPARCEL L NET L-1 S2	0.094	5.00	58.150	1200	476679.923	165446.879	2.650
SPARCEL L NET L-1 S3	0.068	5.00	58.040	1200	476694.021	165412.131	2.790
SPARCEL L NET L-1 S4	0.042	5.00	58.130	1200	476692.608	165398.143	2.980
SPARCEL L NET L-1 S5	0.000		57.860	1200	476680.993	165389.679	2.910
SPARCEL L NET L-1 S6	0.000		58.320	1200	476691.139	165366.734	3.460
SPARCEL L NET L-1 S7	0.026	5.00	58.100	1200	476709.735	165373.173	3.390
SPARCEL L NET L-3 S1	0.047	5.00	58.000	1200	476718.371	165389.412	3.100
SPARCEL L NET L-3 S2	0.034	5.00	58.000	1200	476723.444	165374.204	3.210
SPARCEL L NET L-1 S8	0.005	5.00	58.160	1200	476716.903	165371.673	3.550
SPARCEL P (NET)	0.071	5.00	59.190	1200	476693.284	165297.159	3.760
SSTUB5	0.050	5.00	58.980	1200	476707.158	165307.697	3.800
S29	0.131	5.00	59.000	1350	476672.196	165374.951	2.835
SSTUB9	0.000		58.882	1350	476690.128	165337.711	3.382
S8011	0.019	5.00	59.155	1200	476667.779	165300.255	1.425
S8010	0.045	5.00	59.198	1200	476663.693	165313.183	1.548
S8009	0.025	5.00	59.310	1200	476691.912	165335.278	4.310
S8008	0.020	5.00	58.778	1500	476724.718	165351.262	4.298
S8007	0.000		58.286	1500	476749.235	165363.164	3.867
S8006	0.008	5.00	58.099	1500	476756.957	165361.136	3.699
S8005	0.043	5.00	57.880	1500	476771.257	165354.262	3.667
S7012	0.000	5.00	58.264	1500	476776.271	165322.795	4.116
S36	0.000	5.00	58.347	1500	476784.150	165324.238	4.558
STABLE STUB 1	0.000	5.00	58.450	1200	476803.655	165335.744	4.450
S7013	0.000		58.430	1500	476802.784	165327.921	4.801
S7014	0.000		57.570	1500	476832.071	165304.379	4.091
S7015	0.000		57.230	1500	476872.990	165334.710	3.960
S7016	0.000		56.310	1500	476916.091	165346.906	3.220

Nodes

Name	Area (ha)	T of E (mins)	Cover Level (m)	Diameter (mm)	Easting (m)	Northing (m)	Depth (m)
S7017	0.000		54.130	1500	476990.206	165319.672	2.100
P-N 100	0.170	5.00	55.944	1350	476943.186	165399.326	1.425
P-N 101	0.049	5.00	55.818	1350	476950.384	165390.787	1.932
P-N 102	0.060	5.00	55.352	1350	476976.922	165359.310	1.822
P-N 103	0.028	5.00	55.124	1350	476991.555	165344.271	1.681
P-N 104	0.052	5.00	54.925	1350	477005.296	165333.114	1.659
P-N 200	0.065	5.00	54.574	1350	477028.217	165321.076	1.425
P-N 105	0.000		54.784	1350	477010.811	165327.408	2.119
S7018	0.000		53.870	1500	477000.292	165316.129	1.950
DUMMY PIPE	0.000		53.760	1500	476998.301	165307.428	1.890
P-N 300	0.048	5.00	54.805	1200	477000.469	165428.229	1.425
P-N 301	0.021	5.00	54.919	1200	476993.583	165422.218	1.593
P-N 302	0.047	5.00	54.561	1200	477008.280	165404.900	1.433
P-N 303	0.017	5.00	54.422	1200	477017.608	165398.077	1.438
P-N 304	0.070	5.00	54.172	1200	477033.024	165391.163	1.545
P-N 400	0.118	5.00	53.475	1200	477062.705	165388.988	1.186
P-N 305	0.032	5.00	53.742	1350	477049.391	165388.564	1.757
P-N 306	0.118	5.00	53.493	1500	477049.953	165370.877	1.630
P-N 307	0.020	5.00	53.597	1500	477050.515	165353.189	1.773
P-N 308	0.010	5.00	53.922	1500	477051.328	165327.644	2.155
P-N 500	0.056	5.00	53.732	1200	477075.632	165322.098	1.425
P-N 309	0.074	5.00	54.139	1500	477050.965	165317.985	2.468
S7030	0.000	5.00	54.270	1350	477040.684	165318.371	2.620
POND C70 S	0.000		53.650 53.650	2100 1500	477030.330 477032.782	165297.400 165283.600	2.050 2.100

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)
1.000	S8001	S8002	84.706	0.600	55.550	55.049	0.501	169.1	225	6.41	49.2
2.000	SSTUB 1	S8002	9.368	0.600	55.060	54.824	0.236	39.7	450	5.05	50.0
1.001	S8002	S4	5.634	0.600	54.824	54.806	0.018	313.0	450	6.49	48.9
1.002	S4	S8003	29.388	0.600	54.806	54.736	0.070	419.8	450	6.99	47.1
3.000	SPARCEL-L S4 S1	SSTUB2	21.942	0.600	55.300	54.944	0.356	61.6	450	5.14	50.0
3.001	SSTUB2	S8003	6.675	0.600	54.944	54.736	0.208	32.1	450	5.17	50.0

Name	Vel (m/s)	Cap (l/s)	Flow (l/s)	US Depth (m)	DS Depth (m)	Σ Area (ha)	Σ Add Inflow (l/s)	Pro Depth (mm)	Pro Velocity (m/s)
1.000	1.002	39.9	10.1	2.071	2.019	0.076	0.0	77	0.839
2.000	3.234	514.3	11.8	1.890	2.019	0.087	0.0	46	1.362
1.001	1.143	181.9	21.9	2.019	2.051	0.165	0.0	104	0.779
1.002	0.986	156.8	23.4	2.051	2.135	0.183	0.0	116	0.714
3.000	2.593	412.4	12.3	1.250	2.212	0.091	0.0	52	1.179
3.001	3.598	572.3	13.7	2.212	2.135	0.101	0.0	47	1.534

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)
1.003	S8003	S8004	29.279	0.600	54.736	54.375	0.361	81.1	450	7.20	46.5
4.000	SPARCEL-M S1 S1	SPARCEL-M S1 S2	63.710	0.600	55.290	55.000	0.290	219.7	375	5.87	50.0
5.000	SPARCEL-M S3 S1	SPARCEL-M S1 S2	28.638	0.600	55.130	55.075	0.055	520.7	300	5.70	50.0
4.001	SPARCEL-M S1 S2	SSTUB3	65.237	0.600	55.000	54.495	0.505	129.2	375	6.55	48.7
4.002	SSTUB3	S8004	17.200	0.600	54.495	54.450	0.045	382.2	375	6.87	47.6
1.004	S8004	S13	29.872	0.600	54.300	54.239	0.061	489.7	525	7.70	45.0
1.005	S13	S8005	12.467	0.600	54.239	54.213	0.026	479.5	525	7.90	44.3
6.000	SPARCEL L NET L-1 S1	SPARCEL L NET L-1 S2	31.152	0.600	55.900	55.500	0.400	77.9	525	5.20	50.0
7.000	S16	SPARCEL L NET L-1 S2	21.993	0.600	55.700	55.500	0.200	110.0	375	5.21	50.0
6.001	SPARCEL L NET L-1 S2	SPARCEL L NET L-1 S3	37.499	0.600	55.500	55.250	0.250	150.0	525	5.55	50.0
6.002	SPARCEL L NET L-1 S3	SPARCEL L NET L-1 S4	14.059	0.600	55.250	55.150	0.100	140.6	525	5.68	50.0
6.003	SPARCEL L NET L-1 S4	SPARCEL L NET L-1 S5	14.372	0.600	55.150	54.950	0.200	71.9	525	5.77	50.0
6.004	SPARCEL L NET L-1 S5	SPARCEL L NET L-1 S6	25.088	0.600	54.950	54.860	0.090	278.8	525	6.08	50.0
6.005	SPARCEL L NET L-1 S6	SPARCEL L NET L-1 S7	19.679	0.600	54.860	54.710	0.150	131.2	525	6.25	49.8
6.006	SPARCEL L NET L-1 S7	SPARCEL L NET L-1 S8	7.323	0.600	54.710	54.610	0.100	73.2	525	6.30	49.6
8.000	SPARCEL L NET L-3 S1	SPARCEL L NET L-3 S2	16.032	0.600	54.900	54.790	0.110	145.7	450	5.16	50.0
8.001	SPARCEL L NET L-3 S2	SPARCEL L NET L-1 S8	7.014	0.600	54.790	54.685	0.105	66.8	450	5.21	50.0
6.007	SPARCEL L NET L-1 S8	S8008	21.856	0.600	54.610	54.480	0.130	168.1	525	6.51	48.9
9.000	SPARCEL P (NET)	SSTUB5	17.422	0.600	55.430	55.255	0.175	99.6	300	5.18	50.0
9.001	SSTUB5	S8009	31.514	0.600	55.180	55.000	0.180	175.1	375	5.57	50.0
10.000	S29	SSTUB9	41.332	0.600	56.165	56.000	0.165	250.5	375	5.60	50.0
10.001	SSTUB9	S8009	3.017	0.600	55.500	55.000	0.500	6.0	375	5.61	50.0
11.000	S8011	S8010	13.558	0.600	57.730	57.650	0.080	169.5	225	5.23	50.0
11.001	S8010	S8009	35.840	0.600	57.650	55.150	2.500	14.3	225	5.40	50.0

Name	Vel (m/s)	Cap (l/s)	Flow (l/s)	US Depth (m)	DS Depth (m)	Σ Area (ha)	Σ Add Inflow (l/s)	Pro Depth (mm)	Pro Velocity (m/s)
1.003	2.259	359.2	38.3	2.135	2.744	0.304	0.0	98	1.490
4.000	1.218	134.5	26.0	1.235	1.765	0.192	0.0	111	0.948
5.000	0.682	48.2	11.2	1.710	1.765	0.083	0.0	98	0.558
4.001	1.592	175.9	45.3	1.765	2.350	0.343	0.0	129	1.342
4.002	0.921	101.7	73.9	2.350	2.744	0.573	0.0	238	1.001
1.004	1.005	217.6	114.4	2.744	3.148	0.938	0.0	270	1.017
1.005	1.016	219.9	115.7	3.148	3.142	0.963	0.0	270	1.028
6.000	2.540	549.7	5.4	1.585	2.125	0.040	0.0	36	0.833
7.000	1.727	190.7	4.6	2.025	2.275	0.034	0.0	40	0.738
6.001	1.826	395.3	22.8	2.125	2.265	0.168	0.0	84	1.011
6.002	1.887	408.4	32.0	2.265	2.455	0.236	0.0	98	1.142
6.003	2.644	572.4	37.7	2.455	2.385	0.278	0.0	90	1.524
6.004	1.336	289.3	37.7	2.385	2.935	0.278	0.0	127	0.935
6.005	1.954	422.9	37.5	2.935	2.865	0.278	0.0	104	1.225
6.006	2.619	567.0	40.9	2.865	3.025	0.304	0.0	94	1.549
8.000	1.682	267.4	6.4	2.650	2.760	0.047	0.0	47	0.713
8.001	2.490	396.0	11.0	2.760	3.025	0.081	0.0	51	1.108
6.007	1.724	373.3	51.7	3.025	3.773	0.390	0.0	131	1.228
9.000	1.575	111.4	9.6	3.460	3.425	0.071	0.0	59	0.973
9.001	1.366	150.9	16.4	3.425	3.935	0.121	0.0	83	0.907
10.000	1.140	125.9	17.8	2.460	2.507	0.131	0.0	95	0.815
10.001	7.415	818.9	17.8	3.007	3.935	0.131	0.0	38	3.080
11.000	1.001	39.8	2.6	1.200	1.323	0.019	0.0	38	0.563
11.001	3.473	138.1	8.7	1.323	3.935	0.064	0.0	38	1.965

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)
9.002	S8009	S8008	36.493	0.600	55.000	54.630	0.370	98.6	375	5.94	50.0
6.008	S8008	S8007	27.253	0.600	54.480	54.419	0.061	446.8	525	6.94	47.3
6.009	S8007	S8006	7.984	0.600	54.419	54.400	0.019	420.2	525	7.06	46.9
6.010	S8006	S8005	15.866	0.600	54.400	54.213	0.187	84.8	525	7.17	46.6
1.006	S8005	S7012	31.864	0.600	54.213	54.149	0.064	497.9	525	8.44	42.9
1.007	S7012	S36	8.010	0.600	54.148	53.789	0.359	22.3	525	8.46	0.0
12.000	STABLE STUB 1	S7013	7.871	0.600	54.000	53.930	0.070	112.4	225	5.11	0.0
1.008	S36	S7013	18.994	0.600	53.789	53.629	0.160	118.7	525	8.62	0.0
1.009	S7013	S7014	37.576	0.600	53.629	53.479	0.150	250.5	525	9.06	0.0
1.010	S7014	S7015	50.935	0.600	53.479	53.270	0.209	243.7	525	9.66	0.0
1.011	S7015	S7016	44.793	0.600	53.270	53.090	0.180	248.9	525	10.18	0.0
1.012	S7016	S7017	78.960	0.600	53.090	52.105	0.985	80.2	525	10.71	0.0
1.013	S7017	S7018	10.690	0.600	52.030	51.920	0.110	97.2	600	10.78	37.4
13.000	P-N 100	P-N 101	11.168	0.600	54.519	53.961	0.558	20.0	225	5.06	50.0
13.001	P-N 101	P-N 102	41.171	0.600	53.886	53.680	0.206	200.0	300	5.68	50.0
13.002	P-N 102	P-N 103	20.983	0.600	53.530	53.443	0.087	240.0	450	5.95	50.0
13.003	P-N 103	P-N 104	17.700	0.600	53.443	53.266	0.177	100.0	450	6.10	50.0
13.004	P-N 104	P-N 105	7.936	0.600	53.266	53.094	0.172	46.1	450	6.14	50.0
14.000	P-N 200	P-N 105	18.522	0.600	53.149	52.965	0.184	100.7	225	5.24	50.0
13.005	P-N 105	S7018	15.423	0.600	52.665	51.995	0.670	23.0	525	6.19	50.0
1.014	S7018	DUMMY PIPE	8.926	0.600	51.920	51.870	0.050	178.5	600	10.86	37.3
1.015	DUMMY PIPE	POND C70	33.562	0.600	51.870	51.600	0.270	124.3	600	11.12	36.8

Name	Vel (m/s)	Cap (l/s)	Flow (l/s)	US Depth (m)	DS Depth (m)	Σ Area (ha)	Σ Add Inflow (l/s)	Pro Depth (mm)	Pro Velocity (m/s)
9.002	1.824	201.5	46.2	3.935	3.773	0.341	0.0	121	1.488
6.008	1.053	227.9	96.3	3.773	3.342	0.751	0.0	238	1.010
6.009	1.086	235.1	95.5	3.342	3.174	0.751	0.0	233	1.032
6.010	2.433	526.6	95.9	3.174	3.142	0.759	0.0	150	1.869
1.006	0.997	215.8	205.2	3.142	3.590	1.765	0.0	412	1.127
1.007	4.756	1029.5	0.0	3.591	4.033	1.765	0.0	0	0.000
12.000	1.232	49.0	0.0	4.225	4.275	0.000	0.0	0	0.000
1.008	2.054	444.7	0.0	4.033	4.276	1.765	0.0	0	0.000
1.009	1.410	305.3	0.0	4.276	3.566	1.765	0.0	0	0.000
1.010	1.430	309.6	0.0	3.566	3.435	1.765	0.0	0	0.000
1.011	1.415	306.3	0.0	3.435	2.695	1.765	0.0	0	0.000
1.012	2.503	541.8	0.0	2.695	1.500	1.765	0.0	0	0.000
1.013	2.470	698.4	178.9	1.500	1.350	1.765	0.0	206	2.083
13.000	2.939	116.8	23.0	1.200	1.632	0.170	0.0	67	2.295
13.001	1.108	78.3	29.7	1.632	1.372	0.219	0.0	128	1.034
13.002	1.308	208.0	37.8	1.372	1.231	0.279	0.0	129	1.001
13.003	2.033	323.3	41.6	1.231	1.209	0.307	0.0	108	1.414
13.004	2.999	476.9	48.7	1.209	1.240	0.359	0.0	96	1.960
14.000	1.303	51.8	8.8	1.200	1.594	0.065	0.0	63	0.979
13.005	4.682	1013.6	57.4	1.594	1.350	0.424	0.0	84	2.592
1.014	1.819	514.4	221.3	1.350	1.290	2.189	0.0	275	1.753
1.015	2.183	617.1	218.3	1.290	1.450	2.189	0.0	246	2.003

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)
1.016	POND C70	S	14.016	0.600	51.600	51.550	0.050	280.3	600	11.28	0.0
15.000	P-N 300	P-N 301	9.141	0.600	53.380	53.326	0.054	168.0	225	5.15	50.0
15.001	P-N 301	P-N 302	22.714	0.600	53.326	53.128	0.198	115.0	225	5.46	50.0
15.002	P-N 302	P-N 303	11.557	0.600	53.128	52.984	0.144	80.0	225	5.59	50.0
15.003	P-N 303	P-N 304	16.895	0.600	52.984	52.702	0.282	60.0	225	5.76	50.0
15.004	P-N 304	P-N 305	16.572	0.600	52.627	52.135	0.492	33.7	300	5.86	50.0
16.000	P-N 400	P-N 305	13.321	0.600	52.289	52.210	0.079	168.0	225	5.22	50.0
15.005	P-N 305	P-N 306	17.696	0.600	51.985	51.938	0.047	380.0	450	6.15	50.0
15.006	P-N 306	P-N 307	17.697	0.600	51.863	51.824	0.039	450.0	525	6.43	49.1
15.007	P-N 307	P-N 308	25.558	0.600	51.824	51.767	0.057	450.0	525	6.83	47.7
15.008	P-N 308	P-N 309	9.666	0.600	51.767	51.746	0.021	450.0	525	6.99	47.1
17.000	P-N 500	P-N 309	25.008	0.600	52.307	52.046	0.261	95.8	225	5.31	50.0
15.009	P-N 309	S7030	10.288	0.600	51.671	51.650	0.021	500.0	600	7.15	46.7
14.005	S7030	POND C70	27.342	0.600	51.650	51.600	0.050	546.8	600	7.59	50.0

Name	Vel (m/s)	Cap (l/s)	Flow (l/s)	US Depth (m)	DS Depth (m)	Σ Area (ha)	Σ Add Inflow (l/s)	Pro Depth (mm)	Pro Velocity (m/s)
1.016	1.449	409.7	0.0	1.450	1.500	2.820	0.0	0	0.000
15.000	1.006	40.0	6.5	1.200	1.368	0.048	0.0	61	0.743
15.001	1.218	48.4	9.4	1.368	1.208	0.069	0.0	66	0.943
15.002	1.463	58.2	15.7	1.208	1.213	0.116	0.0	80	1.246
15.003	1.691	67.2	18.0	1.213	1.245	0.133	0.0	80	1.441
15.004	2.718	192.1	27.5	1.245	1.307	0.203	0.0	76	1.951
16.000	1.006	40.0	16.0	0.961	1.307	0.118	0.0	99	0.951
15.005	1.037	164.9	47.8	1.307	1.105	0.353	0.0	166	0.903
15.006	1.049	227.1	62.7	1.105	1.248	0.471	0.0	188	0.902
15.007	1.049	227.1	63.5	1.248	1.630	0.491	0.0	189	0.904
15.008	1.049	227.1	64.0	1.630	1.868	0.501	0.0	190	0.907
17.000	1.336	53.1	7.6	1.200	1.868	0.056	0.0	58	0.956
15.009	1.082	305.9	79.8	1.868	2.020	0.631	0.0	208	0.917
14.005	1.034	292.4	85.5	2.020	1.450	0.631	0.0	221	0.902

Pipeline Schedule

Link	Length (m)	Slope (1:X)	Dia (mm)	Link Type	US CL (m)	US IL (m)	US Depth (m)	DS CL (m)	DS IL (m)	DS Depth (m)
1.000	84.706	169.1	225	Circular_Default Sewer Type	57.846	55.550	2.071	57.293	55.049	2.019
2.000	9.368	39.7	450	Circular_Default Sewer Type	57.400	55.060	1.890	57.293	54.824	2.019
1.001	5.634	313.0	450	Circular_Default Sewer Type	57.293	54.824	2.019	57.307	54.806	2.051
1.002	29.388	419.8	450	Circular_Default Sewer Type	57.307	54.806	2.051	57.321	54.736	2.135
		Link	US Node	Dia (mm)	Node Type	MH Type	DS Node	Dia (mm)	Node Type	MH Type
		1.000	S8001	1200	Manhole	Adoptable	S8002	1200	Manhole	Adoptable
		2.000	SSTUB 1	1200	Manhole	Adoptable	S8002	1200	Manhole	Adoptable
		1.001	S8002	1200	Manhole	Adoptable	S4	1350	Manhole	Adoptable
		1.002	S4	1350	Manhole	Adoptable	S8003	1350	Manhole	Adoptable

Pipeline Schedule

Link	Length (m)	Slope (1:X)	Dia (mm)	Link Type	US CL (m)	US IL (m)	US Depth (m)	DS CL (m)	DS IL (m)	DS Depth (m)
3.000	21.942	61.6	450	Circular_Default Sewer Type	57.000	55.300	1.250	57.606	54.944	2.212
3.001	6.675	32.1	450	Circular_Default Sewer Type	57.606	54.944	2.212	57.321	54.736	2.135
1.003	29.279	81.1	450	Circular_Default Sewer Type	57.321	54.736	2.135	57.569	54.375	2.744
4.000	63.710	219.7	375	Circular_Default Sewer Type	56.900	55.290	1.235	57.140	55.000	1.765
5.000	28.638	520.7	300	Circular_Default Sewer Type	57.140	55.130	1.710	57.140	55.075	1.765
4.001	65.237	129.2	375	Circular_Default Sewer Type	57.140	55.000	1.765	57.220	54.495	2.350
4.002	17.200	382.2	375	Circular_Default Sewer Type	57.220	54.495	2.350	57.569	54.450	2.744
1.004	29.872	489.7	525	Circular_Default Sewer Type	57.569	54.300	2.744	57.912	54.239	3.148
1.005	12.467	479.5	525	Circular_Default Sewer Type	57.912	54.239	3.148	57.880	54.213	3.142
6.000	31.152	77.9	525	Circular_Default Sewer Type	58.010	55.900	1.585	58.150	55.500	2.125
7.000	21.993	110.0	375	Circular_Default Sewer Type	58.100	55.700	2.025	58.150	55.500	2.275
6.001	37.499	150.0	525	Circular_Default Sewer Type	58.150	55.500	2.125	58.040	55.250	2.265
6.002	14.059	140.6	525	Circular_Default Sewer Type	58.040	55.250	2.265	58.130	55.150	2.455
6.003	14.372	71.9	525	Circular_Default Sewer Type	58.130	55.150	2.455	57.860	54.950	2.385
6.004	25.088	278.8	525	Circular_Default Sewer Type	57.860	54.950	2.385	58.320	54.860	2.935
6.005	19.679	131.2	525	Circular_Default Sewer Type	58.320	54.860	2.935	58.100	54.710	2.865
6.006	7.323	73.2	525	Circular_Default Sewer Type	58.100	54.710	2.865	58.160	54.610	3.025
8.000	16.032	145.7	450	Circular_Default Sewer Type	58.000	54.900	2.650	58.000	54.790	2.760
8.001	7.014	66.8	450	Circular_Default Sewer Type	58.000	54.790	2.760	58.160	54.685	3.025
6.007	21.856	168.1	525	Circular_Default Sewer Type	58.160	54.610	3.025	58.778	54.480	3.773
9.000	17.422	99.6	300	Circular_Default Sewer Type	59.190	55.430	3.460	58.980	55.255	3.425
9.001	31.514	175.1	375	Circular_Default Sewer Type	58.980	55.180	3.425	59.310	55.000	3.935
10.000	41.332	250.5	375	Circular_Default Sewer Type	59.000	56.165	2.460	58.882	56.000	2.507
10.001	3.017	6.0	375	Circular_Default Sewer Type	58.882	55.500	3.007	59.310	55.000	3.935
11.000	13.558	169.5	225	Circular_Default Sewer Type	59.155	57.730	1.200	59.198	57.650	1.323

Link	US Node	Dia (mm)	Node Type	MH Type	DS Node	Dia (mm)	Node Type	MH Type
3.000	SPARCEL-L S4 S1	1350	Manhole	Adoptable	SSTUB2	1350	Manhole	Adoptable
3.001	SSTUB2	1350	Manhole	Adoptable	S8003	1350	Manhole	Adoptable
1.003	S8003	1350	Manhole	Adoptable	S8004	1500	Manhole	Adoptable
4.000	SPARCEL-M S1 S1	1200	Manhole	Adoptable	SPARCEL-M S1 S2	1200	Manhole	Adoptable
5.000	SPARCEL-M S3 S1	1200	Manhole	Adoptable	SPARCEL-M S1 S2	1200	Manhole	Adoptable
4.001	SPARCEL-M S1 S2	1200	Manhole	Adoptable	SSTUB3	1200	Manhole	Adoptable
4.002	SSTUB3	1200	Manhole	Adoptable	S8004	1500	Manhole	Adoptable
1.004	S8004	1500	Manhole	Adoptable	S13	1500	Manhole	Adoptable
1.005	S13	1500	Manhole	Adoptable	S8005	1500	Manhole	Adoptable
6.000	SPARCEL L NET L-1 S1	1200	Manhole	Adoptable	SPARCEL L NET L-1 S2	1200	Manhole	Adoptable
7.000	S16	1350	Manhole	Adoptable	SPARCEL L NET L-1 S2	1200	Manhole	Adoptable
6.001	SPARCEL L NET L-1 S2	1200	Manhole	Adoptable	SPARCEL L NET L-1 S3	1200	Manhole	Adoptable
6.002	SPARCEL L NET L-1 S3	1200	Manhole	Adoptable	SPARCEL L NET L-1 S4	1200	Manhole	Adoptable
6.003	SPARCEL L NET L-1 S4	1200	Manhole	Adoptable	SPARCEL L NET L-1 S5	1200	Manhole	Adoptable
6.004	SPARCEL L NET L-1 S5	1200	Manhole	Adoptable	SPARCEL L NET L-1 S6	1200	Manhole	Adoptable
6.005	SPARCEL L NET L-1 S6	1200	Manhole	Adoptable	SPARCEL L NET L-1 S7	1200	Manhole	Adoptable
6.006	SPARCEL L NET L-1 S7	1200	Manhole	Adoptable	SPARCEL L NET L-1 S8	1200	Manhole	Adoptable
8.000	SPARCEL L NET L-3 S1	1200	Manhole	Adoptable	SPARCEL L NET L-3 S2	1200	Manhole	Adoptable
8.001	SPARCEL L NET L-3 S2	1200	Manhole	Adoptable	SPARCEL L NET L-1 S8	1200	Manhole	Adoptable
6.007	SPARCEL L NET L-1 S8	1200	Manhole	Adoptable	S8008	1500	Manhole	Adoptable
9.000	SPARCEL P (NET)	1200	Manhole	Adoptable	SSTUB5	1200	Manhole	Adoptable
9.001	SSTUB5	1200	Manhole	Adoptable	S8009	1200	Manhole	Adoptable
10.000	S29	1350	Manhole	Adoptable	SSTUB9	1350	Manhole	Adoptable
10.001	SSTUB9	1350	Manhole	Adoptable	S8009	1200	Manhole	Adoptable
11.000	S8011	1200	Manhole	Adoptable	S8010	1200	Manhole	Adoptable

Pipeline Schedule

Link	Length (m)	Slope (1:X)	Dia (mm)	Link Type	US CL (m)	US IL (m)	US Depth (m)	DS CL (m)	DS IL (m)	DS Depth (m)
11.001	35.840	14.3	225	Circular_Default Sewer Type	59.198	57.650	1.323	59.310	55.150	3.935
9.002	36.493	98.6	375	Circular_Default Sewer Type	59.310	55.000	3.935	58.778	54.630	3.773
6.008	27.253	446.8	525	Circular_Default Sewer Type	58.778	54.480	3.773	58.286	54.419	3.342
6.009	7.984	420.2	525	Circular_Default Sewer Type	58.286	54.419	3.342	58.099	54.400	3.174
6.010	15.866	84.8	525	Circular_Default Sewer Type	58.099	54.400	3.174	57.880	54.213	3.142
1.006	31.864	497.9	525	Circular_Default Sewer Type	57.880	54.213	3.142	58.264	54.149	3.590
1.007	8.010	22.3	525	Circular_Default Sewer Type	58.264	54.148	3.591	58.347	53.789	4.033
12.000	7.871	112.4	225	Circular_Default Sewer Type	58.450	54.000	4.225	58.430	53.930	4.275
1.008	18.994	118.7	525	Circular_Default Sewer Type	58.347	53.789	4.033	58.430	53.629	4.276
1.009	37.576	250.5	525	Circular_Default Sewer Type	58.430	53.629	4.276	57.570	53.479	3.566
1.010	50.935	243.7	525	Circular_Default Sewer Type	57.570	53.479	3.566	57.230	53.270	3.435
1.011	44.793	248.9	525	Circular_Default Sewer Type	57.230	53.270	3.435	56.310	53.090	2.695
1.012	78.960	80.2	525	Circular_Default Sewer Type	56.310	53.090	2.695	54.130	52.105	1.500
1.013	10.690	97.2	600	Circular_Default Sewer Type	54.130	52.030	1.500	53.870	51.920	1.350
13.000	11.168	20.0	225	Circular_Default Sewer Type	55.944	54.519	1.200	55.818	53.961	1.632
13.001	41.171	200.0	300	Circular_Default Sewer Type	55.818	53.886	1.632	55.352	53.680	1.372
13.002	20.983	240.0	450	Circular_Default Sewer Type	55.352	53.530	1.372	55.124	53.443	1.231
13.003	17.700	100.0	450	Circular_Default Sewer Type	55.124	53.443	1.231	54.925	53.266	1.209
13.004	7.936	46.1	450	Circular_Default Sewer Type	54.925	53.266	1.209	54.784	53.094	1.240
14.000	18.522	100.7	225	Circular_Default Sewer Type	54.574	53.149	1.200	54.784	52.965	1.594
13.005	15.423	23.0	525	Circular_Default Sewer Type	54.784	52.665	1.594	53.870	51.995	1.350
1.014	8.926	178.5	600	Circular_Default Sewer Type	53.870	51.920	1.350	53.760	51.870	1.290
1.015	33.562	124.3	600	Circular_Default Sewer Type	53.760	51.870	1.290	53.650	51.600	1.450

Link	US Node	Dia (mm)	Node Type	MH Type	DS Node	Dia (mm)	Node Type	MH Type
11.001	S8010	1200	Manhole	Adoptable	S8009	1200	Manhole	Adoptable
9.002	S8009	1200	Manhole	Adoptable	S8008	1500	Manhole	Adoptable
6.008	S8008	1500	Manhole	Adoptable	S8007	1500	Manhole	Adoptable
6.009	S8007	1500	Manhole	Adoptable	S8006	1500	Manhole	Adoptable
6.010	S8006	1500	Manhole	Adoptable	S8005	1500	Manhole	Adoptable
1.006	S8005	1500	Manhole	Adoptable	S7012	1500	Manhole	Adoptable
1.007	S7012	1500	Manhole	Adoptable	S36	1500	Manhole	Adoptable
12.000	STABLE STUB 1	1200	Manhole	Adoptable	S7013	1500	Manhole	Adoptable
1.008	S36	1500	Manhole	Adoptable	S7013	1500	Manhole	Adoptable
1.009	S7013	1500	Manhole	Adoptable	S7014	1500	Manhole	Adoptable
1.010	S7014	1500	Manhole	Adoptable	S7015	1500	Manhole	Adoptable
1.011	S7015	1500	Manhole	Adoptable	S7016	1500	Manhole	Adoptable
1.012	S7016	1500	Manhole	Adoptable	S7017	1500	Manhole	Adoptable
1.013	S7017	1500	Manhole	Adoptable	S7018	1500	Manhole	Adoptable
13.000	P-N 100	1350	Manhole	Adoptable	P-N 101	1350	Manhole	Adoptable
13.001	P-N 101	1350	Manhole	Adoptable	P-N 102	1350	Manhole	Adoptable
13.002	P-N 102	1350	Manhole	Adoptable	P-N 103	1350	Manhole	Adoptable
13.003	P-N 103	1350	Manhole	Adoptable	P-N 104	1350	Manhole	Adoptable
13.004	P-N 104	1350	Manhole	Adoptable	P-N 105	1350	Manhole	Adoptable
14.000	P-N 200	1350	Manhole	Adoptable	P-N 105	1350	Manhole	Adoptable
13.005	P-N 105	1350	Manhole	Adoptable	S7018	1500	Manhole	Adoptable
1.014	S7018	1500	Manhole	Adoptable	DUMMY PIPE	1500	Manhole	Adoptable
1.015	DUMMY PIPE	1500	Manhole	Adoptable	POND C70	2100	Manhole	Adoptable

Pipeline Schedule

Link	Length (m)	Slope (1:X)	Dia (mm)	Link Type	US CL (m)	US IL (m)	US Depth (m)	DS CL (m)	DS IL (m)	DS Depth (m)
1.016	14.016	280.3	600	Circular_Default Sewer Type	53.650	51.600	1.450	53.650	51.550	1.500
15.000	9.141	168.0	225	Circular_Default Sewer Type	54.805	53.380	1.200	54.919	53.326	1.368
15.001	22.714	115.0	225	Circular_Default Sewer Type	54.919	53.326	1.368	54.561	53.128	1.208
15.002	11.557	80.0	225	Circular_Default Sewer Type	54.561	53.128	1.208	54.422	52.984	1.213
15.003	16.895	60.0	225	Circular_Default Sewer Type	54.422	52.984	1.213	54.172	52.702	1.245
15.004	16.572	33.7	300	Circular_Default Sewer Type	54.172	52.627	1.245	53.742	52.135	1.307
16.000	13.321	168.0	225	Circular_Default Sewer Type	53.475	52.289	0.961	53.742	52.210	1.307
15.005	17.696	380.0	450	Circular_Default Sewer Type	53.742	51.985	1.307	53.493	51.938	1.105
15.006	17.697	450.0	525	Circular_Default Sewer Type	53.493	51.863	1.105	53.597	51.824	1.248
15.007	25.558	450.0	525	Circular_Default Sewer Type	53.597	51.824	1.248	53.922	51.767	1.630
15.008	9.666	450.0	525	Circular_Default Sewer Type	53.922	51.767	1.630	54.139	51.746	1.868
17.000	25.008	95.8	225	Circular_Default Sewer Type	53.732	52.307	1.200	54.139	52.046	1.868
15.009	10.288	500.0	600	Circular_Default Sewer Type	54.139	51.671	1.868	54.270	51.650	2.020
14.005	27.342	546.8	600	Circular_Default Sewer Type	54.270	51.650	2.020	53.650	51.600	1.450

Link	US Node	Dia (mm)	Node Type	MH Type	DS Node	Dia (mm)	Node Type	MH Type
1.016	POND C70	2100	Manhole	Adoptable	S	1500	Manhole	Adoptable
15.000	P-N 300	1200	Manhole	Adoptable	P-N 301	1200	Manhole	Adoptable
15.001	P-N 301	1200	Manhole	Adoptable	P-N 302	1200	Manhole	Adoptable
15.002	P-N 302	1200	Manhole	Adoptable	P-N 303	1200	Manhole	Adoptable
15.003	P-N 303	1200	Manhole	Adoptable	P-N 304	1200	Manhole	Adoptable
15.004	P-N 304	1200	Manhole	Adoptable	P-N 305	1350	Manhole	Adoptable
16.000	P-N 400	1200	Manhole	Adoptable	P-N 305	1350	Manhole	Adoptable
15.005	P-N 305	1350	Manhole	Adoptable	P-N 306	1500	Manhole	Adoptable
15.006	P-N 306	1500	Manhole	Adoptable	P-N 307	1500	Manhole	Adoptable
15.007	P-N 307	1500	Manhole	Adoptable	P-N 308	1500	Manhole	Adoptable
15.008	P-N 308	1500	Manhole	Adoptable	P-N 309	1500	Manhole	Adoptable
17.000	P-N 500	1200	Manhole	Adoptable	P-N 309	1500	Manhole	Adoptable
15.009	P-N 309	1500	Manhole	Adoptable	S7030	1350	Manhole	Adoptable
14.005	S7030	1350	Manhole	Adoptable	POND C70	2100	Manhole	Adoptable

Simulation Settings

Rainfall Methodology	FEH-13	Analysis Speed	Normal	Starting Level (m)	
Rainfall Events	Singular	Skip Steady State	x	Check Discharge Rate(s)	x
Summer CV	0.750	Drain Down Time (mins)	240	Check Discharge Volume	x
Winter CV	0.840	Additional Storage (m ³ /ha)	20.0		

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 %)
2	0	0	0
30	0	0	0
100	30	0	0

Node POND C70 Online Hydro-Brake® Control

Flap Valve	x	Objective	(HE) Minimise upstream storage
Replaces Downstream Link	✓	Sump Available	✓
Invert Level (m)	51.600	Product Number	CTL-SHE-0202-2440-1991-2440
Design Depth (m)	1.991	Min Outlet Diameter (m)	0.225
Design Flow (l/s)	24.4	Min Node Diameter (mm)	2100

Node POND C70 Depth/Area Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Safety Factor	2.0	Invert Level (m)	51.600
Side Inf Coefficient (m/hr)	0.00000	Porosity	1.00	Time to half empty (mins)	

Depth (m)	Area (m²)	Inf Area (m²)	Depth (m)	Area (m²)	Inf Area (m²)
0.000	720.0	0.0	1.991	1400.0	0.0

Results for 2 year Critical Storm Duration. Lowest mass balance: 99.63%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	S8001	11	55.626	0.076	10.7	0.1361	0.0000	OK
15 minute winter	SSTUB 1	10	55.107	0.047	12.2	0.0887	0.0000	OK
15 minute winter	S8002	11	54.946	0.122	21.5	0.1404	0.0000	OK
15 minute winter	S4	11	54.927	0.121	24.0	0.1902	0.0000	OK
15 minute winter	SPARCEL-L S4 S1	10	55.356	0.056	12.8	0.1403	0.0000	OK
15 minute winter	SSTUB2	10	54.992	0.048	14.0	0.0723	0.0000	OK
15 minute winter	S8003	11	54.836	0.100	40.2	0.1588	0.0000	OK
15 minute winter	SPARCEL-M S1 S1	10	55.402	0.112	26.9	0.3945	0.0000	OK
15 minute winter	SPARCEL-M S3 S1	11	55.231	0.101	11.6	0.1971	0.0000	OK
15 minute winter	SPARCEL-M S1 S2	11	55.129	0.129	46.5	0.2281	0.0000	OK
15 minute winter	SSTUB3	11	54.737	0.242	76.4	0.6825	0.0000	OK
15 minute winter	S8004	12	54.657	0.357	122.8	0.7642	0.0000	OK
15 minute winter	S13	12	54.630	0.391	118.6	0.7448	0.0000	OK
15 minute winter	SPARCEL L NET L-1 S1	10	55.937	0.037	5.6	0.0557	0.0000	OK
15 minute winter	S16	10	55.740	0.040	4.8	0.0692	0.0000	OK
15 minute winter	SPARCEL L NET L-1 S2	11	55.585	0.085	23.4	0.1558	0.0000	OK
15 minute winter	SPARCEL L NET L-1 S3	11	55.355	0.105	31.9	0.1701	0.0000	OK
15 minute winter	SPARCEL L NET L-1 S4	11	55.245	0.095	37.7	0.1348	0.0000	OK
15 minute winter	SPARCEL L NET L-1 S5	11	55.081	0.131	37.8	0.1478	0.0000	OK
15 minute winter	SPARCEL L NET L-1 S6	11	54.970	0.110	37.8	0.1250	0.0000	OK
15 minute winter	SPARCEL L NET L-1 S7	11	54.821	0.111	40.7	0.1419	0.0000	OK
15 minute winter	SPARCEL L NET L-3 S1	10	54.949	0.049	6.6	0.0703	0.0000	OK
15 minute winter	SPARCEL L NET L-3 S2	10	54.845	0.055	11.3	0.0743	0.0000	OK
15 minute winter	SPARCEL L NET L-1 S8	12	54.743	0.133	51.9	0.1545	0.0000	OK
15 minute winter	SPARCEL P (NET)	10	55.492	0.062	9.9	0.0934	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute winter	S8001	1.000	S8002	9.7	0.830	0.243	0.9868	
15 minute winter	SSTUB 1	2.000	S8002	12.1	0.676	0.024	0.2030	
15 minute winter	S8002	1.001	S4	21.6	0.626	0.119	0.1943	
15 minute winter	S4	1.002	S8003	24.0	0.798	0.153	0.8872	
15 minute winter	SPARCEL-L S4 S1	3.000	SSTUB2	12.6	1.246	0.031	0.2231	
15 minute winter	SSTUB2	3.001	S8003	13.9	0.855	0.024	0.1170	
15 minute winter	S8003	1.003	S8004	40.2	0.963	0.112	1.9014	
15 minute winter	SPARCEL-M S1 S1	4.000	SPARCEL-M S1 S2	26.2	0.879	0.195	1.9320	
15 minute winter	SPARCEL-M S3 S1	5.000	SPARCEL-M S1 S2	11.2	0.629	0.233	0.5118	
15 minute winter	SPARCEL-M S1 S2	4.001	SSTUB3	46.1	0.848	0.262	3.5497	
15 minute winter	SSTUB3	4.002	S8004	74.6	1.106	0.734	1.1713	
15 minute winter	S8004	1.004	S13	115.9	0.771	0.533	4.9152	
15 minute winter	S13	1.005	S8005	117.3	0.673	0.533	2.1739	
15 minute winter	SPARCEL L NET L-1 S1	6.000	SPARCEL L NET L-1 S2	5.5	0.399	0.010	0.4511	
15 minute winter	S16	7.000	SPARCEL L NET L-1 S2	4.7	0.392	0.025	0.2732	
15 minute winter	SPARCEL L NET L-1 S2	6.001	SPARCEL L NET L-1 S3	22.9	0.866	0.058	0.9971	
15 minute winter	SPARCEL L NET L-1 S3	6.002	SPARCEL L NET L-1 S4	32.2	1.122	0.079	0.4035	
15 minute winter	SPARCEL L NET L-1 S4	6.003	SPARCEL L NET L-1 S5	37.8	1.110	0.066	0.4927	
15 minute winter	SPARCEL L NET L-1 S5	6.004	SPARCEL L NET L-1 S6	37.8	1.011	0.131	0.9388	
15 minute winter	SPARCEL L NET L-1 S6	6.005	SPARCEL L NET L-1 S7	37.3	1.138	0.088	0.6492	
15 minute winter	SPARCEL L NET L-1 S7	6.006	SPARCEL L NET L-1 S8	40.6	1.078	0.072	0.2784	
15 minute winter	SPARCEL L NET L-3 S1	8.000	SPARCEL L NET L-3 S2	6.5	0.639	0.024	0.1635	
15 minute winter	SPARCEL L NET L-3 S2	8.001	SPARCEL L NET L-1 S8	11.1	1.058	0.028	0.0793	
15 minute winter	SPARCEL L NET L-1 S8	6.007	S8008	51.3	0.719	0.137	1.5909	
15 minute winter	SPARCEL P (NET)	9.000	SSTUB5	9.7	0.958	0.088	0.1772	

Results for 2 year Critical Storm Duration. Lowest mass balance: 99.63%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	SSTUB5	10	55.263	0.083	16.7	0.1151	0.0000	OK
15 minute winter	S29	11	56.261	0.096	18.4	0.2268	0.0000	OK
15 minute winter	SSTUB9	11	55.538	0.038	17.8	0.0543	0.0000	OK
15 minute winter	S8011	10	57.770	0.040	2.7	0.0562	0.0000	OK
15 minute winter	S8010	10	57.689	0.039	8.9	0.0664	0.0000	OK
15 minute winter	S8009	11	55.126	0.126	46.1	0.1574	0.0000	OK
15 minute winter	S8008	12	54.732	0.252	99.8	0.4691	0.0000	OK
15 minute winter	S8007	12	54.653	0.234	98.4	0.4127	0.0000	OK
15 minute winter	S8006	12	54.597	0.197	97.0	0.3563	0.0000	OK
15 minute winter	S8005	12	54.612	0.399	216.4	0.7987	0.0000	OK
15 minute winter	S7012	13	54.355	0.207	215.3	0.3653	0.0000	OK
15 minute winter	S36	13	54.105	0.316	215.6	0.5584	0.0000	OK
15 minute summer	STABLE STUB 1	1	54.000	0.000	0.0	0.0000	0.0000	OK
15 minute winter	S7013	13	53.985	0.356	216.2	0.6291	0.0000	OK
15 minute winter	S7014	13	53.820	0.341	215.9	0.6029	0.0000	OK
15 minute winter	S7015	14	53.596	0.326	214.2	0.5762	0.0000	OK
15 minute winter	S7016	14	53.326	0.236	215.7	0.4166	0.0000	OK
15 minute winter	S7017	14	52.339	0.309	215.7	0.5456	0.0000	OK
15 minute winter	P-N 100	10	54.592	0.073	23.8	0.2804	0.0000	OK
15 minute winter	P-N 101	11	54.017	0.131	30.4	0.2549	0.0000	OK
15 minute winter	P-N 102	11	53.664	0.134	37.9	0.2810	0.0000	OK
15 minute winter	P-N 103	11	53.559	0.116	41.8	0.2045	0.0000	OK
15 minute winter	P-N 104	11	53.376	0.110	48.9	0.2259	0.0000	OK
15 minute winter	P-N 200	10	53.214	0.065	9.1	0.1529	0.0000	OK
Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute winter	SSTUB5	9.001	S8009	16.5	0.675	0.109	0.7938	
15 minute winter	S29	10.000	SSTUB9	17.8	0.813	0.142	0.9063	
15 minute winter	SSTUB9	10.001	S8009	17.8	1.003	0.022	0.0578	
15 minute winter	S8011	11.000	S8010	2.6	0.565	0.066	0.0633	
15 minute winter	S8010	11.001	S8009	8.7	1.937	0.063	0.1613	
15 minute winter	S8009	9.002	S8008	46.4	1.469	0.230	1.1521	
15 minute winter	S8008	6.008	S8007	98.4	1.053	0.432	2.6613	
15 minute winter	S8007	6.009	S8006	96.1	1.392	0.409	0.6653	
15 minute winter	S8006	6.010	S8005	96.5	0.859	0.183	1.9829	
15 minute winter	S8005	1.006	S7012	215.3	1.384	0.998	4.9351	
15 minute winter	S7012	1.007	S36	215.6	2.015	0.209	0.8597	
15 minute winter	S36	1.008	S7013	216.2	1.488	0.486	2.7697	
15 minute summer	STABLE STUB 1	12.000	S7013	0.0	0.000	0.000	0.0216	
15 minute winter	S7013	1.009	S7014	215.9	1.418	0.707	5.7195	
15 minute winter	S7014	1.010	S7015	214.2	1.486	0.692	7.3474	
15 minute winter	S7015	1.011	S7016	215.7	1.835	0.704	5.2597	
15 minute winter	S7016	1.012	S7017	215.7	2.312	0.398	7.3761	
15 minute winter	S7017	1.013	S7018	216.3	1.414	0.310	1.6865	
15 minute winter	P-N 100	13.000	P-N 101	23.6	2.203	0.202	0.1194	
15 minute winter	P-N 101	13.001	P-N 102	30.0	1.032	0.382	1.1951	
15 minute winter	P-N 102	13.002	P-N 103	38.1	1.061	0.183	0.7548	
15 minute winter	P-N 103	13.003	P-N 104	42.0	1.352	0.130	0.5495	
15 minute winter	P-N 104	13.004	P-N 105	48.9	1.796	0.103	0.2164	
15 minute winter	P-N 200	14.000	P-N 105	8.9	0.960	0.172	0.1717	

Results for 2 year Critical Storm Duration. Lowest mass balance: 99.63%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	P-N 105	11	52.749	0.084	57.7	0.1198	0.0000	OK
15 minute winter	S7018	14	52.268	0.348	246.6	0.6148	0.0000	OK
15 minute winter	DUMMY PIPE	13	52.178	0.308	246.6	0.5450	0.0000	OK
15 minute winter	P-N 300	10	53.446	0.066	6.7	0.1191	0.0000	OK
15 minute winter	P-N 301	10	53.393	0.067	9.5	0.0940	0.0000	OK
15 minute winter	P-N 302	10	53.213	0.085	15.9	0.1525	0.0000	OK
15 minute winter	P-N 303	11	53.068	0.084	18.0	0.1143	0.0000	OK
15 minute winter	P-N 304	11	52.707	0.080	27.4	0.1639	0.0000	OK
15 minute winter	P-N 400	10	52.395	0.106	16.5	0.3304	0.0000	OK
15 minute winter	P-N 305	11	52.160	0.175	47.6	0.3135	0.0000	OK
15 minute winter	P-N 306	11	52.102	0.239	62.8	0.7684	0.0000	OK
15 minute winter	P-N 307	11	52.079	0.255	64.9	0.5081	0.0000	OK
15 minute winter	P-N 308	10	52.045	0.278	73.1	0.5167	0.0000	OK
15 minute winter	P-N 500	10	52.366	0.059	7.8	0.1127	0.0000	OK
15 minute winter	P-N 309	10	52.039	0.368	97.8	0.8705	0.0000	OK
15 minute winter	S7030	10	52.034	0.384	106.0	0.5498	0.0000	OK
240 minute winter	POND C70	188	51.997	0.397	88.3	314.1076	0.0000	OK
15 minute summer	S	1	51.550	0.000	17.6	0.0000	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute winter	P-N 105	13.005	S7018	57.7	2.023	0.057	0.9938	
15 minute winter	S7018	1.014	DUMMY PIPE	246.6	1.622	0.479	1.4067	
15 minute winter	DUMMY PIPE	1.015	POND C70	249.3	2.972	0.404	2.9929	
15 minute winter	P-N 300	15.000	P-N 301	6.6	0.672	0.165	0.0898	
15 minute winter	P-N 301	15.001	P-N 302	9.4	0.793	0.193	0.2699	
15 minute winter	P-N 302	15.002	P-N 303	15.8	1.160	0.271	0.1571	
15 minute winter	P-N 303	15.003	P-N 304	18.1	1.400	0.270	0.2189	
15 minute winter	P-N 304	15.004	P-N 305	27.5	1.883	0.143	0.2421	
15 minute winter	P-N 400	16.000	P-N 305	16.1	0.922	0.404	0.2336	
15 minute winter	P-N 305	15.005	P-N 306	47.1	0.936	0.286	0.9644	
15 minute winter	P-N 306	15.006	P-N 307	62.7	0.777	0.276	1.7657	
15 minute winter	P-N 307	15.007	P-N 308	72.0	0.823	0.317	2.7223	
15 minute winter	P-N 308	15.008	P-N 309	81.9	1.019	0.361	1.1583	
15 minute winter	P-N 500	17.000	P-N 309	7.6	0.942	0.143	0.2020	
15 minute winter	P-N 309	15.009	S7030	106.0	0.903	0.347	1.9116	
15 minute winter	S7030	14.005	POND C70	123.3	2.094	0.422	2.6224	
240 minute winter	POND C70	Hydro-Brake®	S	23.8				447.7

Results for 30 year Critical Storm Duration. Lowest mass balance: 99.63%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	S8001	11	55.685	0.135	28.0	0.2424	0.0000	OK
15 minute winter	SSTUB 1	13	55.349	0.289	32.1	0.5412	0.0000	OK
15 minute winter	S8002	13	55.329	0.505	57.3	0.5787	0.0000	SURCHARGED
15 minute winter	S4	13	55.313	0.507	59.9	0.7991	0.0000	SURCHARGED
15 minute winter	SPARCEL-L S4 S1	10	55.391	0.091	33.6	0.2278	0.0000	OK
15 minute winter	SSTUB2	13	55.322	0.378	37.5	0.5694	0.0000	OK
15 minute winter	S8003	13	55.316	0.580	128.5	0.9195	0.0000	SURCHARGED
15 minute winter	SPARCEL-M S1 S1	13	55.546	0.256	70.8	0.9011	0.0000	OK
15 minute winter	SPARCEL-M S3 S1	12	55.543	0.413	30.6	0.8079	0.0000	SURCHARGED
15 minute winter	SPARCEL-M S1 S2	12	55.517	0.517	125.9	0.9134	0.0000	SURCHARGED
15 minute winter	SSTUB3	13	55.403	0.908	178.5	2.5591	0.0000	SURCHARGED
15 minute winter	S8004	13	55.312	1.012	232.1	2.1663	0.0000	SURCHARGED
15 minute winter	S13	13	55.231	0.992	232.8	1.8873	0.0000	SURCHARGED
15 minute winter	SPARCEL L NET L-1 S1	10	55.958	0.058	14.8	0.0879	0.0000	OK
15 minute winter	S16	10	55.764	0.064	12.5	0.1097	0.0000	OK
15 minute winter	SPARCEL L NET L-1 S2	10	55.643	0.143	61.6	0.2623	0.0000	OK
15 minute winter	SPARCEL L NET L-1 S3	11	55.430	0.180	84.9	0.2906	0.0000	OK
15 minute winter	SPARCEL L NET L-1 S4	11	55.320	0.170	99.6	0.2407	0.0000	OK
15 minute winter	SPARCEL L NET L-1 S5	13	55.300	0.350	99.9	0.3960	0.0000	OK
15 minute winter	SPARCEL L NET L-1 S6	13	55.306	0.446	97.3	0.5047	0.0000	OK
15 minute winter	SPARCEL L NET L-1 S7	13	55.294	0.584	101.6	0.7495	0.0000	SURCHARGED
15 minute winter	SPARCEL L NET L-3 S1	13	55.289	0.389	17.3	0.5585	0.0000	OK
15 minute winter	SPARCEL L NET L-3 S2	13	55.283	0.493	37.7	0.6626	0.0000	SURCHARGED
15 minute winter	SPARCEL L NET L-1 S8	13	55.289	0.679	107.5	0.7868	0.0000	SURCHARGED
15 minute winter	SPARCEL P (NET)	10	55.534	0.104	26.2	0.1571	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute winter	S8001	1.000	S8002	26.4	1.073	0.662	2.6493	
15 minute winter	SSTUB 1	2.000	S8002	32.0	0.758	0.062	1.2453	
15 minute winter	S8002	1.001	S4	53.3	0.775	0.293	0.8927	
15 minute winter	S4	1.002	S8003	61.5	0.962	0.392	4.6563	
15 minute winter	SPARCEL-L S4 S1	3.000	SSTUB2	33.8	1.514	0.082	1.7209	
15 minute winter	SSTUB2	3.001	S8003	60.2	1.028	0.105	1.0032	
15 minute winter	S8003	1.003	S8004	83.1	0.981	0.231	4.6391	
15 minute winter	SPARCEL-M S1 S1	4.000	SPARCEL-M S1 S2	71.2	1.092	0.529	6.0700	
15 minute winter	SPARCEL-M S3 S1	5.000	SPARCEL-M S1 S2	29.6	0.786	0.614	2.0167	
15 minute winter	SPARCEL-M S1 S2	4.001	SSTUB3	98.6	1.025	0.561	7.1955	
15 minute winter	SSTUB3	4.002	S8004	157.7	1.430	1.551	1.8971	
15 minute winter	S8004	1.004	S13	223.6	1.035	1.027	6.4533	
15 minute winter	S13	1.005	S8005	229.4	1.062	1.043	2.6933	
15 minute winter	SPARCEL L NET L-1 S1	6.000	SPARCEL L NET L-1 S2	14.6	0.508	0.027	0.9386	
15 minute winter	S16	7.000	SPARCEL L NET L-1 S2	12.3	0.502	0.065	0.5590	
15 minute winter	SPARCEL L NET L-1 S2	6.001	SPARCEL L NET L-1 S3	60.3	1.081	0.153	2.0997	
15 minute winter	SPARCEL L NET L-1 S3	6.002	SPARCEL L NET L-1 S4	85.0	1.392	0.208	0.8845	
15 minute winter	SPARCEL L NET L-1 S4	6.003	SPARCEL L NET L-1 S5	99.9	1.358	0.174	1.4024	
15 minute winter	SPARCEL L NET L-1 S5	6.004	SPARCEL L NET L-1 S6	97.3	1.234	0.336	4.3730	
15 minute winter	SPARCEL L NET L-1 S6	6.005	SPARCEL L NET L-1 S7	92.0	1.224	0.218	4.0504	
15 minute winter	SPARCEL L NET L-1 S7	6.006	SPARCEL L NET L-1 S8	77.9	1.012	0.137	1.5820	
15 minute winter	SPARCEL L NET L-3 S1	8.000	SPARCEL L NET L-3 S2	25.4	0.801	0.095	2.4384	
15 minute winter	SPARCEL L NET L-3 S2	8.001	SPARCEL L NET L-1 S8	28.4	1.145	0.072	1.1113	
15 minute winter	SPARCEL L NET L-1 S8	6.007	S8008	114.8	0.715	0.307	4.7216	
15 minute winter	SPARCEL P (NET)	9.000	SSTUB5	25.8	1.246	0.232	0.3615	

Results for 30 year Critical Storm Duration. Lowest mass balance: 99.63%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	SSTUB5	14	55.325	0.145	44.2	0.2023	0.0000	OK
15 minute winter	S29	10	56.329	0.164	48.3	0.3857	0.0000	OK
15 minute winter	SSTUB9	11	55.564	0.064	47.0	0.0916	0.0000	OK
15 minute winter	S8011	10	57.796	0.066	7.0	0.0922	0.0000	OK
15 minute winter	S8010	10	57.712	0.062	23.5	0.1068	0.0000	OK
15 minute winter	S8009	13	55.326	0.326	122.5	0.4064	0.0000	OK
15 minute winter	S8008	13	55.297	0.817	198.5	1.5190	0.0000	SURCHARGED
15 minute winter	S8007	13	55.242	0.823	173.2	1.4543	0.0000	SURCHARGED
15 minute winter	S8006	13	55.215	0.815	174.0	1.4757	0.0000	SURCHARGED
15 minute winter	S8005	13	55.181	0.968	405.5	1.9373	0.0000	SURCHARGED
15 minute winter	S7012	13	54.896	0.748	394.0	1.3223	0.0000	SURCHARGED
15 minute winter	S36	13	54.763	0.974	389.2	1.7210	0.0000	SURCHARGED
15 minute winter	STABLE STUB 1	14	54.562	0.562	10.3	0.6356	0.0000	SURCHARGED
15 minute winter	S7013	14	54.561	0.932	386.7	1.6468	0.0000	SURCHARGED
15 minute winter	S7014	14	54.246	0.767	384.5	1.3556	0.0000	SURCHARGED
15 minute winter	S7015	14	53.848	0.578	384.5	1.0217	0.0000	SURCHARGED
15 minute winter	S7016	14	53.425	0.335	384.5	0.5922	0.0000	OK
15 minute winter	S7017	12	52.575	0.545	384.8	0.9629	0.0000	OK
15 minute winter	P-N 100	10	54.645	0.126	62.7	0.4798	0.0000	OK
15 minute winter	P-N 101	11	54.147	0.261	80.4	0.5052	0.0000	OK
15 minute winter	P-N 102	11	53.760	0.230	99.2	0.4807	0.0000	OK
15 minute winter	P-N 103	11	53.643	0.200	109.5	0.3539	0.0000	OK
15 minute winter	P-N 104	11	53.459	0.193	128.1	0.3965	0.0000	OK
15 minute winter	P-N 200	10	53.262	0.113	24.0	0.2649	0.0000	OK
Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute winter	SSTUB5	9.001	S8009	43.8	0.856	0.290	2.1735	
15 minute winter	S29	10.000	SSTUB9	47.0	1.056	0.373	1.8423	
15 minute winter	SSTUB9	10.001	S8009	47.1	1.229	0.057	0.1671	
15 minute winter	S8011	11.000	S8010	6.9	0.741	0.174	0.1264	
15 minute winter	S8010	11.001	S8009	23.2	2.488	0.168	0.7123	
15 minute winter	S8009	9.002	S8008	124.8	1.624	0.619	3.8685	
15 minute winter	S8008	6.008	S8007	173.2	1.134	0.760	5.8875	
15 minute winter	S8007	6.009	S8006	173.2	1.382	0.737	1.7248	
15 minute winter	S8006	6.010	S8005	176.8	0.887	0.336	3.4276	
15 minute winter	S8005	1.006	S7012	394.0	1.855	1.826	6.8837	
15 minute winter	S7012	1.007	S36	389.2	2.077	0.378	1.7304	
15 minute winter	S36	1.008	S7013	386.7	1.790	0.870	4.1033	
15 minute winter	STABLE STUB 1	12.000	S7013	-10.3	0.305	-0.210	0.3130	
15 minute winter	S7013	1.009	S7014	384.5	1.780	1.259	8.1176	
15 minute winter	S7014	1.010	S7015	384.5	1.780	1.242	11.0036	
15 minute winter	S7015	1.011	S7016	384.5	2.063	1.255	8.0972	
15 minute winter	S7016	1.012	S7017	384.8	2.416	0.710	13.6848	
15 minute winter	S7017	1.013	S7018	391.4	1.605	0.560	2.9365	
15 minute winter	P-N 100	13.000	P-N 101	62.3	2.402	0.533	0.3198	
15 minute winter	P-N 101	13.001	P-N 102	78.5	1.301	1.002	2.4702	
15 minute winter	P-N 102	13.002	P-N 103	99.8	1.334	0.480	1.5709	
15 minute winter	P-N 103	13.003	P-N 104	110.0	1.655	0.340	1.1773	
15 minute winter	P-N 104	13.004	P-N 105	128.4	2.258	0.269	0.4521	
15 minute winter	P-N 200	14.000	P-N 105	23.6	1.233	0.455	0.3541	

Results for 30 year Critical Storm Duration. Lowest mass balance: 99.63%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	P-N 105	11	52.800	0.135	151.5	0.1929	0.0000	OK
15 minute winter	S7018	12	52.509	0.589	513.4	1.0414	0.0000	OK
240 minute winter	DUMMY PIPE	232	52.490	0.620	146.2	1.0962	0.0000	SURCHARGED
15 minute winter	P-N 300	10	53.497	0.117	17.7	0.2115	0.0000	OK
15 minute winter	P-N 301	10	53.444	0.118	25.2	0.1644	0.0000	OK
15 minute winter	P-N 302	10	53.288	0.160	42.2	0.2861	0.0000	OK
15 minute winter	P-N 303	11	53.138	0.154	47.8	0.2099	0.0000	OK
15 minute winter	P-N 304	10	52.760	0.133	72.8	0.2709	0.0000	OK
15 minute winter	P-N 400	10	52.506	0.217	43.5	0.6778	0.0000	OK
240 minute winter	P-N 305	240	52.491	0.506	24.0	0.9085	0.0000	SURCHARGED
240 minute winter	P-N 306	240	52.491	0.628	31.7	2.0203	0.0000	SURCHARGED
240 minute winter	P-N 307	240	52.491	0.667	31.3	1.3301	0.0000	SURCHARGED
240 minute winter	P-N 308	240	52.491	0.724	29.8	1.3462	0.0000	SURCHARGED
240 minute winter	P-N 500	240	52.492	0.185	3.8	0.3545	0.0000	OK
240 minute winter	P-N 309	240	52.490	0.819	36.8	1.9388	0.0000	SURCHARGED
240 minute winter	S7030	240	52.491	0.841	35.6	1.2034	0.0000	SURCHARGED
240 minute winter	POND C70	236	52.490	0.890	176.1	779.1112	0.0000	SURCHARGED
15 minute summer	S	1	51.550	0.000	24.2	0.0000	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute winter	P-N 105	13.005	S7018	151.6	2.061	0.150	1.9765	
15 minute winter	S7018	1.014	DUMMY PIPE	513.0	1.998	0.997	2.3070	
240 minute winter	DUMMY PIPE	1.015	POND C70	142.9	1.695	0.232	9.4537	
15 minute winter	P-N 300	15.000	P-N 301	17.5	0.835	0.438	0.1916	
15 minute winter	P-N 301	15.001	P-N 302	24.9	0.969	0.515	0.5821	
15 minute winter	P-N 302	15.002	P-N 303	41.5	1.411	0.714	0.3401	
15 minute winter	P-N 303	15.003	P-N 304	47.9	1.753	0.712	0.4614	
15 minute winter	P-N 304	15.004	P-N 305	72.4	2.164	0.377	0.7012	
15 minute winter	P-N 400	16.000	P-N 305	42.1	1.157	1.052	0.4785	
240 minute winter	P-N 305	15.005	P-N 306	23.7	0.767	0.144	2.8038	
240 minute winter	P-N 306	15.006	P-N 307	29.9	0.636	0.131	3.8231	
240 minute winter	P-N 307	15.007	P-N 308	29.1	0.626	0.128	5.5214	
240 minute winter	P-N 308	15.008	P-N 309	28.0	0.696	0.123	2.0882	
240 minute winter	P-N 500	17.000	P-N 309	3.8	0.773	0.071	0.9340	
240 minute winter	P-N 309	15.009	S7030	35.6	0.488	0.116	2.8979	
240 minute winter	S7030	14.005	POND C70	33.7	0.887	0.115	7.7016	
240 minute winter	POND C70	Hydro-Brake®	S	24.4				586.8

Results for 100 year +30% CC Critical Storm Duration. Lowest mass balance: 99.63%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	S8001	12	57.010	1.460	46.6	2.6172	0.0000	SURCHARGED
15 minute winter	SSTUB 1	13	56.663	1.603	53.3	3.0059	0.0000	SURCHARGED
15 minute winter	S8002	13	56.662	1.838	76.0	2.1079	0.0000	SURCHARGED
15 minute winter	S4	13	56.657	1.851	77.0	2.9148	0.0000	SURCHARGED
15 minute winter	SPARCEL-L S4 S1	13	56.641	1.341	85.8	3.3557	0.0000	SURCHARGED
15 minute winter	SSTUB2	13	56.646	1.702	57.3	2.5651	0.0000	SURCHARGED
15 minute winter	S8003	13	56.645	1.909	137.1	3.0283	0.0000	SURCHARGED
15 minute winter	SPARCEL-M S1 S1	11	56.900	1.610	117.7	5.6608	11.7526	FLOOD
15 minute winter	SPARCEL-M S3 S1	11	57.005	1.875	50.9	3.6687	0.0000	FLOOD RISK
15 minute winter	SPARCEL-M S1 S2	11	56.919	1.919	151.9	3.3894	0.0000	FLOOD RISK
15 minute winter	SSTUB3	13	56.777	2.282	261.0	6.4325	0.0000	SURCHARGED
15 minute winter	S8004	13	56.613	2.313	361.7	4.9490	0.0000	SURCHARGED
15 minute winter	S13	13	56.499	2.260	368.8	4.3009	0.0000	SURCHARGED
15 minute winter	SPARCEL L NET L-1 S1	12	56.730	0.830	37.9	1.2532	0.0000	SURCHARGED
15 minute winter	S16	14	56.714	1.014	37.7	1.7391	0.0000	SURCHARGED
15 minute winter	SPARCEL L NET L-1 S2	13	56.702	1.202	196.2	2.2111	0.0000	SURCHARGED
15 minute winter	SPARCEL L NET L-1 S3	13	56.660	1.410	143.0	2.2820	0.0000	SURCHARGED
15 minute winter	SPARCEL L NET L-1 S4	14	56.659	1.509	144.8	2.1320	0.0000	SURCHARGED
15 minute winter	SPARCEL L NET L-1 S5	14	56.658	1.708	140.1	1.9317	0.0000	SURCHARGED
15 minute winter	SPARCEL L NET L-1 S6	14	56.649	1.789	140.6	2.0238	0.0000	SURCHARGED
15 minute winter	SPARCEL L NET L-1 S7	13	56.642	1.932	144.7	2.4813	0.0000	SURCHARGED
15 minute winter	SPARCEL L NET L-3 S1	13	56.668	1.768	46.5	2.5350	0.0000	SURCHARGED
15 minute winter	SPARCEL L NET L-3 S2	13	56.655	1.865	38.0	2.5048	0.0000	SURCHARGED
15 minute winter	SPARCEL L NET L-1 S8	13	56.639	2.029	158.5	2.3514	0.0000	SURCHARGED
15 minute winter	SPARCEL P (NET)	14	56.748	1.318	43.5	1.9889	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)
15 minute winter	S8001	1.000	S8002	36.7	1.044	0.920	3.3688	
15 minute winter	SSTUB 1	2.000	S8002	48.7	0.837	0.095	1.4843	
15 minute winter	S8002	1.001	S4	66.6	0.838	0.366	0.8927	
15 minute winter	S4	1.002	S8003	90.5	0.926	0.578	4.6563	
15 minute winter	SPARCEL-L S4 S1	3.000	SSTUB2	51.5	1.700	0.125	3.4766	
15 minute winter	SSTUB2	3.001	S8003	60.5	1.077	0.106	1.0576	
15 minute winter	S8003	1.003	S8004	139.9	1.010	0.389	4.6391	
15 minute winter	SPARCEL-M S1 S1	4.000	SPARCEL-M S1 S2	88.2	1.116	0.656	7.0270	
15 minute winter	SPARCEL-M S3 S1	5.000	SPARCEL-M S1 S2	45.0	0.772	0.934	2.0167	
15 minute winter	SPARCEL-M S1 S2	4.001	SSTUB3	125.7	1.140	0.715	7.1955	
15 minute winter	SSTUB3	4.002	S8004	236.0	2.140	2.321	1.8971	
15 minute winter	S8004	1.004	S13	356.8	1.652	1.640	6.4533	
15 minute winter	S13	1.005	S8005	356.2	1.649	1.620	2.6933	
15 minute winter	SPARCEL L NET L-1 S1	6.000	SPARCEL L NET L-1 S2	40.9	0.574	0.074	6.7299	
15 minute winter	S16	7.000	SPARCEL L NET L-1 S2	50.5	0.573	0.265	2.4258	
15 minute winter	SPARCEL L NET L-1 S2	6.001	SPARCEL L NET L-1 S3	-104.6	1.153	-0.265	8.1010	
15 minute winter	SPARCEL L NET L-1 S3	6.002	SPARCEL L NET L-1 S4	131.6	1.398	0.322	3.0372	
15 minute winter	SPARCEL L NET L-1 S4	6.003	SPARCEL L NET L-1 S5	140.1	1.446	0.245	3.1048	
15 minute winter	SPARCEL L NET L-1 S5	6.004	SPARCEL L NET L-1 S6	140.6	1.252	0.486	5.4198	
15 minute winter	SPARCEL L NET L-1 S6	6.005	SPARCEL L NET L-1 S7	144.7	1.191	0.342	4.2513	
15 minute winter	SPARCEL L NET L-1 S7	6.006	SPARCEL L NET L-1 S8	149.2	1.009	0.263	1.5820	
15 minute winter	SPARCEL L NET L-3 S1	8.000	SPARCEL L NET L-3 S2	21.6	0.826	0.081	2.5402	
15 minute winter	SPARCEL L NET L-3 S2	8.001	SPARCEL L NET L-1 S8	50.1	1.188	0.126	1.1113	
15 minute winter	SPARCEL L NET L-1 S8	6.007	S8008	162.4	0.752	0.435	4.7216	
15 minute winter	SPARCEL P (NET)	9.000	SSTUB5	39.5	1.379	0.354	1.2268	

Results for 100 year +30% CC Critical Storm Duration. Lowest mass balance: 99.63%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	SSTUB5	14	56.737	1.557	68.3	2.1699	0.0000	SURCHARGED
15 minute winter	S29	14	56.756	0.591	80.3	1.3915	0.0000	SURCHARGED
15 minute winter	SSTUB9	14	56.732	1.232	79.1	1.7631	0.0000	SURCHARGED
15 minute winter	S8011	10	57.817	0.087	11.6	0.1216	0.0000	OK
15 minute winter	S8010	10	57.731	0.081	39.1	0.1390	0.0000	OK
15 minute winter	S8009	14	56.727	1.727	185.5	2.1534	0.0000	SURCHARGED
15 minute winter	S8008	14	56.613	2.133	239.0	3.9669	0.0000	SURCHARGED
15 minute winter	S8007	13	56.527	2.108	219.0	3.7253	0.0000	SURCHARGED
15 minute winter	S8006	13	56.488	2.088	226.5	3.7798	0.0000	SURCHARGED
15 minute winter	S8005	14	56.424	2.211	523.8	4.4270	0.0000	SURCHARGED
15 minute winter	S7012	14	55.969	1.821	517.4	3.2186	0.0000	SURCHARGED
15 minute winter	S36	14	55.756	1.967	510.9	3.4754	0.0000	SURCHARGED
15 minute winter	STABLE STUB 1	14	55.434	1.434	10.4	1.6220	0.0000	SURCHARGED
15 minute winter	S7013	14	55.433	1.804	505.4	3.1884	0.0000	SURCHARGED
15 minute winter	S7014	14	54.934	1.455	497.3	2.5704	0.0000	SURCHARGED
15 minute winter	S7015	14	54.288	1.018	494.1	1.7984	0.0000	SURCHARGED
30 minute winter	S7016	24	53.715	0.625	486.5	1.1046	0.0000	SURCHARGED
360 minute winter	S7017	352	53.087	1.057	139.8	1.8681	0.0000	SURCHARGED
15 minute winter	P-N 100	11	55.061	0.542	104.2	2.0688	0.0000	SURCHARGED
15 minute winter	P-N 101	11	54.510	0.624	124.6	1.2097	0.0000	SURCHARGED
15 minute winter	P-N 102	11	53.845	0.315	158.2	0.6578	0.0000	OK
15 minute winter	P-N 103	11	53.714	0.271	174.4	0.4781	0.0000	OK
15 minute winter	P-N 104	11	53.525	0.259	204.3	0.5323	0.0000	OK
15 minute winter	P-N 200	10	53.308	0.159	39.8	0.3716	0.0000	OK
Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute winter	SSTUB5	9.001	S8009	67.1	0.889	0.445	3.4759	
15 minute winter	S29	10.000	SSTUB9	79.1	1.197	0.628	4.5588	
15 minute winter	SSTUB9	10.001	S8009	68.2	1.199	0.083	0.3328	
15 minute winter	S8011	11.000	S8010	11.5	0.849	0.288	0.1833	
15 minute winter	S8010	11.001	S8009	38.8	2.454	0.281	0.9438	
15 minute winter	S8009	9.002	S8008	134.6	1.657	0.668	4.0251	
15 minute winter	S8008	6.008	S8007	219.0	1.144	0.961	5.8875	
15 minute winter	S8007	6.009	S8006	225.9	1.396	0.961	1.7248	
15 minute winter	S8006	6.010	S8005	234.8	1.087	0.446	3.4276	
15 minute winter	S8005	1.006	S7012	517.4	2.395	2.398	6.8837	
15 minute winter	S7012	1.007	S36	510.9	2.365	0.496	1.7304	
15 minute winter	S36	1.008	S7013	505.4	2.339	1.136	4.1033	
15 minute winter	STABLE STUB 1	12.000	S7013	-10.4	-0.464	-0.213	0.3130	
15 minute winter	S7013	1.009	S7014	497.3	2.302	1.629	8.1176	
15 minute winter	S7014	1.010	S7015	494.1	2.287	1.596	11.0036	
15 minute winter	S7015	1.011	S7016	491.2	2.284	1.604	9.6768	
30 minute winter	S7016	1.012	S7017	469.1	2.241	0.866	17.0579	
360 minute winter	S7017	1.013	S7018	135.8	1.149	0.194	3.0111	
15 minute winter	P-N 100	13.000	P-N 101	96.3	2.453	0.824	0.4442	
15 minute winter	P-N 101	13.001	P-N 102	123.6	1.757	1.578	2.8123	
15 minute winter	P-N 102	13.002	P-N 103	158.2	1.456	0.761	2.2882	
15 minute winter	P-N 103	13.003	P-N 104	174.4	1.806	0.539	1.7164	
15 minute winter	P-N 104	13.004	P-N 105	204.4	2.503	0.428	0.6479	
15 minute winter	P-N 200	14.000	P-N 105	39.1	1.377	0.754	0.5262	

Results for 100 year +30% CC Critical Storm Duration. Lowest mass balance: 99.63%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
360 minute winter	P-N 105	360	53.088	0.423	33.8	0.6046	0.0000	OK
360 minute winter	S7018	360	53.087	1.167	169.1	2.0625	0.0000	SURCHARGED
360 minute winter	DUMMY PIPE	352	53.088	1.218	168.2	2.1526	0.0000	SURCHARGED
15 minute winter	P-N 300	11	53.735	0.355	29.4	0.6400	0.0000	SURCHARGED
15 minute winter	P-N 301	11	53.700	0.374	38.9	0.5211	0.0000	SURCHARGED
15 minute winter	P-N 302	11	53.558	0.430	63.7	0.7686	0.0000	SURCHARGED
15 minute winter	P-N 303	11	53.320	0.336	72.2	0.4593	0.0000	SURCHARGED
360 minute winter	P-N 304	360	53.087	0.460	16.3	0.9367	0.0000	SURCHARGED
360 minute winter	P-N 400	352	53.087	0.798	9.5	2.4906	0.0000	SURCHARGED
360 minute winter	P-N 305	360	53.087	1.102	27.5	1.9792	0.0000	SURCHARGED
360 minute winter	P-N 306	360	53.087	1.224	35.8	3.9348	0.0000	SURCHARGED
360 minute winter	P-N 307	360	53.087	1.263	36.8	2.5168	0.0000	SURCHARGED
360 minute winter	P-N 308	360	53.088	1.321	37.2	2.4580	0.0000	SURCHARGED
360 minute winter	P-N 500	360	53.087	0.780	4.5	1.4947	0.0000	SURCHARGED
360 minute winter	P-N 309	360	53.086	1.415	46.3	3.3494	0.0000	SURCHARGED
360 minute winter	S7030	352	53.086	1.436	45.8	2.0544	0.0000	SURCHARGED
360 minute winter	POND C70	360	53.087	1.487	213.4	1453.6450	0.0000	SURCHARGED
15 minute summer	S	1	51.550	0.000	24.4	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)
360 minute winter	P-N 105	13.005	S7018	33.8	1.276	0.033	3.1021	
360 minute winter	S7018	1.014	DUMMY PIPE	168.2	1.475	0.327	2.5143	
360 minute winter	DUMMY PIPE	1.015	POND C70	167.9	1.704	0.272	9.4537	
15 minute winter	P-N 300	15.000	P-N 301	26.8	0.904	0.669	0.3635	
15 minute winter	P-N 301	15.001	P-N 302	37.4	0.996	0.772	0.9034	
15 minute winter	P-N 302	15.002	P-N 303	62.4	1.568	1.072	0.4596	
15 minute winter	P-N 303	15.003	P-N 304	71.5	1.836	1.063	0.6620	
360 minute winter	P-N 304	15.004	P-N 305	16.3	1.556	0.085	1.1670	
360 minute winter	P-N 400	16.000	P-N 305	9.2	0.785	0.231	0.5298	
360 minute winter	P-N 305	15.005	P-N 306	26.4	0.731	0.160	2.8038	
360 minute winter	P-N 306	15.006	P-N 307	35.2	0.590	0.155	3.8231	
360 minute winter	P-N 307	15.007	P-N 308	36.4	0.545	0.160	5.5214	
360 minute winter	P-N 308	15.008	P-N 309	36.8	0.604	0.162	2.0882	
360 minute winter	P-N 500	17.000	P-N 309	4.4	0.747	0.083	0.9946	
360 minute winter	P-N 309	15.009	S7030	45.8	0.472	0.150	2.8979	
360 minute winter	S7030	14.005	POND C70	45.5	0.867	0.156	7.7016	
360 minute winter	POND C70	Hydro-Brake®	S	24.4				671.4