

Design Settings

Rainfall Methodology	FSR	Maximum Time of Concentration (mins)	30.00
Return Period (years)	10	Maximum Rainfall (mm/hr)	50.0
Additional Flow (%)	0	Minimum Velocity (m/s)	1.00
FSR Region	England and Wales	Connection Type	Level Soffits
M5-60 (mm)	20.000	Minimum Backdrop Height (m)	0.200
Ratio-R	0.400	Preferred Cover Depth (m)	1.200
CV	0.750	Include Intermediate Ground	✓
Time of Entry (mins)	5.00	Enforce best practice design rules	x

Nodes

Name	Area (ha)	T of E (mins)	Cover Level (m)	Diameter (mm)	Easting (m)	Northing (m)	Depth (m)
SW1	0.028	5.00	144.419	1350	538333.349	236219.566	1.425
SW2	0.028	5.00	143.846	1350	538336.790	236190.866	1.905
SW3	0.087	5.00	143.292	1350	538339.400	236168.581	1.616
SW4	0.049	5.00	143.647	1350	538337.711	236182.844	2.019
SW5	0.067	5.00	143.841	1350	538368.937	236218.514	1.378
SW6	0.050	5.00	143.500	1350	538369.376	236203.718	1.680
SW7	0.120	5.00	143.116	1350	538371.451	236186.870	1.676
SW8	0.134	5.00	143.338	1350	538419.482	236240.399	1.635
SW9	0.053	5.00	142.548	1350	538425.401	236193.121	1.851
SW10	0.181	5.00	142.446	1350	538442.783	236194.715	1.912
SW11		5.00	141.580	1350	538484.286	236165.432	1.350
SW12	0.023	5.00	141.877	1350	538492.419	236206.897	1.648
SW13	0.040	5.00	141.729	1350	538488.346	236186.195	1.781
SW14	0.025	5.00	141.263	1350	538519.408	236180.332	1.473
SW15			141.500	1350	538530.025	236192.450	1.995
SW16	0.122	5.00	145.103	1350	538372.108	236316.954	1.500
SW17	0.037	5.00	144.790	1350	538364.187	236278.217	1.775
SW18	0.027	5.00	144.697	1350	538363.508	236266.107	1.722
SW19	0.064	5.00	144.703	1350	538302.113	236237.897	1.417
SW20			144.772	1350	538314.309	236238.786	1.542
SW21	0.041	5.00	145.234	1350	538331.617	236266.797	1.682
SW22	0.081	5.00	144.928	1350	538333.978	236245.836	1.802
SW23	0.173	5.00	144.628	1350	538365.281	236250.111	1.735
SW24	0.043	5.00	143.403	1350	538435.913	236258.827	1.850
SW25	0.142	5.00	143.185	1350	538448.739	236258.753	1.950
SW26	0.037	5.00	142.092	1350	538497.148	236223.123	1.273
SW27	0.021	5.00	142.255	1350	538502.074	236248.663	1.791
SW28	0.044	5.00	142.238	1350	538527.265	236266.016	1.575
SW29	0.018	5.00	141.888	1350	538522.922	236244.738	2.088
SW30			141.500	1350	538536.553	236234.025	1.995
SW31A		5.00	141.500	1350	538539.041	236235.435	2.000
SW31B			141.500	1350	538543.019	236264.503	2.000
SW32A	0.069	5.00	144.781	1350	538408.700	236313.408	1.726
SW32B	0.018	5.00	144.449	1200	538428.041	236309.734	1.795
SW33	0.082	5.00	144.135	1200	538446.366	236308.463	1.924
SW34	0.032	5.00	143.304	1200	538495.148	236306.861	1.775
SW35	0.008	5.00	143.075	1350	538508.640	236303.967	1.700
SW36	0.016	5.00	142.821	1350	538522.029	236297.134	1.500
SW37	0.014	5.00	142.635	1350	538528.491	236288.597	1.425
SW38			142.439	1200	538530.402	236279.174	1.725
SW39			141.500	1200	538543.070	236281.181	1.999

Nodes

Name	Area (ha)	T of E (mins)	Cover Level (m)	Diameter (mm)	Easting (m)	Northing (m)	Depth (m)
SW40	0.041	5.00	141.673	1350	538583.453	236298.561	1.200
SW41			141.500	1350	538577.763	236301.813	1.100
SW42	0.039	5.00	141.888	1350	538576.067	236267.231	1.300
SW43			141.500	1350	538568.727	236267.842	1.100
SW44		5.00	141.500	1350	538566.280	236258.214	1.100
SW45			141.525	1350	538560.662	236254.565	1.335
SW46			141.611	1350	538549.147	236255.444	1.777
SW47			141.500	1350	538544.968	236264.490	1.999
SW48		5.00	141.500	1200	538517.970	236310.818	2.000
SW49			143.006	1350	538499.738	236312.764	3.566

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	SW1	SW2	28.906	0.600	142.994	141.941	1.053	27.5	225	5.19	50.0
1.001	SW2	SW4	8.075	0.600	141.941	141.839	0.102	79.2	225	5.28	50.0
2.000	SW3	SW4	14.362	0.600	141.676	141.628	0.048	299.2	300	5.26	50.0
1.002	SW4	SW7	33.979	0.600	141.628	141.515	0.113	300.7	300	5.91	50.0
3.000	SW5	SW6	14.803	0.600	142.463	141.820	0.643	23.0	300	5.07	50.0
3.001	SW6	SW7	16.975	0.600	141.820	141.515	0.305	55.7	300	5.21	50.0
1.003	SW7	SW9	54.311	0.600	141.440	140.697	0.743	73.1	375	6.34	50.0
4.000	SW8	SW9	47.647	0.600	141.703	140.772	0.931	51.2	375	5.31	50.0
1.004	SW9	SW10	17.455	0.600	140.697	140.609	0.088	198.4	450	6.54	50.0
1.005	SW10	SW13	46.353	0.600	140.534	139.948	0.586	79.1	450	6.88	50.0
5.000	SW11	SW13	21.156	0.600	140.230	140.124	0.106	199.6	225	5.38	50.0
6.000	SW12	SW13	21.098	0.600	140.229	140.124	0.105	200.9	225	5.38	50.0
1.006	SW13	SW14	31.610	0.600	139.948	139.790	0.158	200.1	450	7.25	50.0
1.007	SW14	SW15	16.111	0.600	139.790	139.540	0.250	64.4	450	7.35	50.0
7.000	SW16	SW17	39.539	0.600	143.603	143.090	0.513	77.1	300	5.37	50.0
7.001	SW17	SW18	12.129	0.600	143.015	142.975	0.040	303.2	375	5.56	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	2.506	99.7	3.8	1.200	1.680	0.028	0.0	29	1.206
1.001	1.471	58.5	7.6	1.680	1.583	0.056	0.0	55	1.026
2.000	0.904	63.9	11.7	1.316	1.719	0.087	0.0	87	0.694
1.002	0.901	63.7	26.0	1.719	1.301	0.192	0.0	133	0.857
3.000	3.290	232.6	9.1	1.078	1.380	0.067	0.0	40	1.618
3.001	2.111	149.2	16.0	1.380	1.301	0.118	0.0	66	1.393
1.003	2.121	234.3	58.2	1.301	1.476	0.429	0.0	127	1.773
4.000	2.537	280.2	18.2	1.260	1.401	0.134	0.0	64	1.452
1.004	1.440	229.0	83.6	1.401	1.387	0.617	0.0	188	1.331
1.005	2.287	363.8	108.1	1.462	1.331	0.798	0.0	167	2.004
5.000	0.922	36.6	0.0	1.125	1.380	0.000	0.0	0	0.000
6.000	0.919	36.5	3.1	1.423	1.380	0.023	0.0	44	0.564
1.006	1.433	228.0	116.7	1.331	1.023	0.861	0.0	228	1.441
1.007	2.535	403.2	120.1	1.023	1.510	0.886	0.0	167	2.222
7.000	1.792	126.7	16.5	1.200	1.400	0.122	0.0	73	1.252
7.001	1.035	114.3	21.6	1.400	1.347	0.159	0.0	110	0.802

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)
7.002	SW18	SW23	16.094	0.600	142.975	142.928	0.047	342.4	375	5.84	50.0
8.000	SW19	SW20	12.228	0.600	143.286	143.230	0.056	218.4	300	5.19	50.0
8.001	SW20	SW22	20.894	0.600	143.230	143.126	0.104	200.9	300	5.51	50.0
9.000	SW21	SW22	21.093	0.600	143.552	143.482	0.070	301.3	300	5.39	50.0
8.002	SW22	SW23	31.594	0.600	143.126	142.968	0.158	200.0	300	5.98	50.0
7.003	SW23	SW24	71.168	0.600	142.893	141.553	1.340	53.1	450	6.41	50.0
7.004	SW24	SW25	12.826	0.600	141.553	141.235	0.318	40.3	450	6.47	50.0
7.005	SW25	SW27	54.281	0.600	141.235	140.539	0.696	78.0	450	6.87	50.0
10.000	SW26	SW27	26.011	0.600	140.819	140.689	0.130	200.1	225	5.47	50.0
7.006	SW27	SW29	21.214	0.600	140.464	139.800	0.664	31.9	450	6.96	50.0
11.000	SW28	SW29	21.717	0.600	140.663	140.025	0.638	34.0	225	5.16	50.0
7.007	SW29	SW30	17.337	0.600	139.800	139.540	0.260	66.7	450	7.08	50.0
1.009	SW31A	SW31B	29.339	0.600	139.500	139.500	0.000	0.0	450	5.49	50.0
12.000	SW32A	SW32B	19.687	0.600	143.055	142.654	0.401	49.1	225	5.18	50.0
12.001	SW32B	SW33	18.369	0.600	142.654	142.211	0.443	41.5	225	5.33	50.0
12.002	SW33	SW34	48.808	0.600	142.211	141.529	0.682	71.6	225	5.85	50.0
12.003	SW34	SW35	13.799	0.600	141.529	141.450	0.079	174.7	225	6.08	50.0
12.004	SW35	SW36	15.032	0.600	141.375	141.321	0.054	278.4	300	6.35	50.0
12.005	SW36	SW37	10.707	0.600	141.321	141.210	0.111	96.5	300	6.46	50.0
12.006	SW37	SW38	9.615	0.600	141.210	140.714	0.496	19.4	300	6.51	50.0
12.007	SW38	SW39	12.826	0.600	140.714	139.575	1.139	11.3	300	6.55	50.0
13.000	SW40	SW41	6.554	0.600	140.473	140.420	0.053	123.7	150	5.12	50.0
14.000	SW42	SW43	7.365	0.600	140.588	140.410	0.178	41.4	150	5.08	50.0
13.002	SW44	SW45	6.699	0.600	140.400	140.190	0.210	31.9	375	5.03	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)
7.002	0.973	107.5	25.3	1.347	1.325	0.187	0.0	123	0.801
8.000	1.060	74.9	8.7	1.117	1.242	0.064	0.0	68	0.711
8.001	1.105	78.1	8.7	1.242	1.502	0.064	0.0	67	0.735
9.000	0.900	63.6	5.5	1.382	1.146	0.041	0.0	59	0.557
8.002	1.108	78.3	25.1	1.502	1.360	0.185	0.0	116	0.988
7.003	2.794	444.4	73.8	1.285	1.400	0.545	0.0	123	2.095
7.004	3.208	510.2	79.6	1.400	1.500	0.587	0.0	119	2.360
7.005	2.303	366.4	98.8	1.500	1.266	0.729	0.0	159	1.966
10.000	0.920	36.6	5.0	1.048	1.341	0.037	0.0	56	0.647
7.006	3.606	573.5	106.8	1.341	1.638	0.788	0.0	131	2.786
11.000	2.250	89.4	5.9	1.350	1.638	0.044	0.0	39	1.288
7.007	2.492	396.4	115.1	1.638	1.510	0.849	0.0	166	2.173
1.009	1.000	159.0	0.0	1.550	1.550	0.000	0.0	0	0.000
12.000	1.871	74.4	9.4	1.501	1.570	0.069	0.0	54	1.294
12.001	2.037	81.0	11.8	1.570	1.699	0.087	0.0	58	1.460
12.002	1.547	61.5	22.8	1.699	1.550	0.168	0.0	94	1.433
12.003	0.986	39.2	27.1	1.550	1.400	0.200	0.0	138	1.061
12.004	0.937	66.2	28.2	1.400	1.200	0.208	0.0	137	0.901
12.005	1.601	113.2	30.3	1.200	1.125	0.224	0.0	106	1.363
12.006	3.587	253.5	32.3	1.125	1.425	0.238	0.0	72	2.487
12.007	4.710	332.9	32.3	1.425	1.625	0.238	0.0	62	3.017
13.000	0.902	15.9	5.6	1.050	0.930	0.041	0.0	61	0.823
14.000	1.569	27.7	5.3	1.150	0.940	0.039	0.0	44	1.211
13.002	3.217	355.3	0.0	0.725	0.960	0.000	0.0	0	0.000

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)
13.003	SW45	SW46	11.548	0.600	140.190	139.834	0.356	32.4	375	5.10	50.0
13.004	SW46	SW47	9.965	0.600	139.834	139.520	0.314	31.7	375	5.15	50.0
1.011	SW48	SW49	18.336	0.600	139.500	139.440	0.060	305.6	300	5.34	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)
13.003	3.190	352.4	0.0	0.960	1.402	0.000	0.0	0	0.000
13.004	3.226	356.3	0.0	1.402	1.605	0.000	0.0	0	0.000
1.011	0.894	63.2	0.0	1.700	3.266	0.000	0.0	0	0.000

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	28.906	27.5	225	Circular	144.419	142.994	1.200	143.846	141.941	1.680
1.001	8.075	79.2	225	Circular	143.846	141.941	1.680	143.647	141.839	1.583
2.000	14.362	299.2	300	Circular	143.292	141.676	1.316	143.647	141.628	1.719
1.002	33.979	300.7	300	Circular	143.647	141.628	1.719	143.116	141.515	1.301
3.000	14.803	23.0	300	Circular	143.841	142.463	1.078	143.500	141.820	1.380
3.001	16.975	55.7	300	Circular	143.500	141.820	1.380	143.116	141.515	1.301
1.003	54.311	73.1	375	Circular	143.116	141.440	1.301	142.548	140.697	1.476
4.000	47.647	51.2	375	Circular	143.338	141.703	1.260	142.548	140.772	1.401
1.004	17.455	198.4	450	Circular	142.548	140.697	1.401	142.446	140.609	1.387
1.005	46.353	79.1	450	Circular	142.446	140.534	1.462	141.729	139.948	1.331
5.000	21.156	199.6	225	Circular	141.580	140.230	1.125	141.729	140.124	1.380
6.000	21.098	200.9	225	Circular	141.877	140.229	1.423	141.729	140.124	1.380
1.006	31.610	200.1	450	Circular	141.729	139.948	1.331	141.263	139.790	1.023
1.007	16.111	64.4	450	Circular	141.263	139.790	1.023	141.500	139.540	1.510
7.000	39.539	77.1	300	Circular	145.103	143.603	1.200	144.790	143.090	1.400
7.001	12.129	303.2	375	Circular	144.790	143.015	1.400	144.697	142.975	1.347
7.002	16.094	342.4	375	Circular	144.697	142.975	1.347	144.628	142.928	1.325

Link	US Node	Dia (mm)	Node Type	MH Type	DS Node	Dia (mm)	Node Type	MH Type
1.000	SW1	1350	Manhole	Adoptable	SW2	1350	Manhole	Adoptable
1.001	SW2	1350	Manhole	Adoptable	SW4	1350	Manhole	Adoptable
2.000	SW3	1350	Manhole	Adoptable	SW4	1350	Manhole	Adoptable
1.002	SW4	1350	Manhole	Adoptable	SW7	1350	Manhole	Adoptable
3.000	SW5	1350	Manhole	Adoptable	SW6	1350	Manhole	Adoptable
3.001	SW6	1350	Manhole	Adoptable	SW7	1350	Manhole	Adoptable
1.003	SW7	1350	Manhole	Adoptable	SW9	1350	Manhole	Adoptable
4.000	SW8	1350	Manhole	Adoptable	SW9	1350	Manhole	Adoptable
1.004	SW9	1350	Manhole	Adoptable	SW10	1350	Manhole	Adoptable
1.005	SW10	1350	Manhole	Adoptable	SW13	1350	Manhole	Adoptable
5.000	SW11	1350	Manhole	Adoptable	SW13	1350	Manhole	Adoptable
6.000	SW12	1350	Manhole	Adoptable	SW13	1350	Manhole	Adoptable
1.006	SW13	1350	Manhole	Adoptable	SW14	1350	Manhole	Adoptable
1.007	SW14	1350	Manhole	Adoptable	SW15	1350	Manhole	Adoptable
7.000	SW16	1350	Manhole	Adoptable	SW17	1350	Manhole	Adoptable
7.001	SW17	1350	Manhole	Adoptable	SW18	1350	Manhole	Adoptable
7.002	SW18	1350	Manhole	Adoptable	SW23	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)
8.000	12.228	218.4	300	Circular	144.703	143.286	1.117	144.772	143.230	1.242
8.001	20.894	200.9	300	Circular	144.772	143.230	1.242	144.928	143.126	1.502
9.000	21.093	301.3	300	Circular	145.234	143.552	1.382	144.928	143.482	1.146
8.002	31.594	200.0	300	Circular	144.928	143.126	1.502	144.628	142.968	1.360
7.003	71.168	53.1	450	Circular	144.628	142.893	1.285	143.403	141.553	1.400
7.004	12.826	40.3	450	Circular	143.403	141.553	1.400	143.185	141.235	1.500
7.005	54.281	78.0	450	Circular	143.185	141.235	1.500	142.255	140.539	1.266
10.000	26.011	200.1	225	Circular	142.092	140.819	1.048	142.255	140.689	1.341
7.006	21.214	31.9	450	Circular	142.255	140.464	1.341	141.888	139.800	1.638
11.000	21.717	34.0	225	Circular	142.238	140.663	1.350	141.888	140.025	1.638
7.007	17.337	66.7	450	Circular	141.888	139.800	1.638	141.500	139.540	1.510
1.009	29.339	0.0	450	Circular	141.500	139.500	1.550	141.500	139.500	1.550
12.000	19.687	49.1	225	Circular	144.781	143.055	1.501	144.449	142.654	1.570
12.001	18.369	41.5	225	Circular	144.449	142.654	1.570	144.135	142.211	1.699
12.002	48.808	71.6	225	Circular	144.135	142.211	1.699	143.304	141.529	1.550
12.003	13.799	174.7	225	Circular	143.304	141.529	1.550	143.075	141.450	1.400
12.004	15.032	278.4	300	Circular	143.075	141.375	1.400	142.821	141.321	1.200
12.005	10.707	96.5	300	Circular	142.821	141.321	1.200	142.635	141.210	1.125
12.006	9.615	19.4	300	Circular	142.635	141.210	1.125	142.439	140.714	1.425
12.007	12.826	11.3	300	Circular	142.439	140.714	1.425	141.500	139.575	1.625
13.000	6.554	123.7	150	Circular	141.673	140.473	1.050	141.500	140.420	0.930
14.000	7.365	41.4	150	Circular	141.888	140.588	1.150	141.500	140.410	0.940
13.002	6.699	31.9	375	Circular	141.500	140.400	0.725	141.525	140.190	0.960
13.003	11.548	32.4	375	Circular	141.525	140.190	0.960	141.611	139.834	1.402
13.004	9.965	31.7	375	Circular	141.611	139.834	1.402	141.500	139.520	1.605

Link	US Node	Dia (mm)	Node Type	MH Type	DS Node	Dia (mm)	Node Type	MH Type
8.000	SW19	1350	Manhole	Adoptable	SW20	1350	Manhole	Adoptable
8.001	SW20	1350	Manhole	Adoptable	SW22	1350	Manhole	Adoptable
9.000	SW21	1350	Manhole	Adoptable	SW22	1350	Manhole	Adoptable
8.002	SW22	1350	Manhole	Adoptable	SW23	1350	Manhole	Adoptable
7.003	SW23	1350	Manhole	Adoptable	SW24	1350	Manhole	Adoptable
7.004	SW24	1350	Manhole	Adoptable	SW25	1350	Manhole	Adoptable
7.005	SW25	1350	Manhole	Adoptable	SW27	1350	Manhole	Adoptable
10.000	SW26	1350	Manhole	Adoptable	SW27	1350	Manhole	Adoptable
7.006	SW27	1350	Manhole	Adoptable	SW29	1350	Manhole	Adoptable
11.000	SW28	1350	Manhole	Adoptable	SW29	1350	Manhole	Adoptable
7.007	SW29	1350	Manhole	Adoptable	SW30	1350	Manhole	Adoptable
1.009	SW31A	1350	Manhole	Adoptable	SW31B	1350	Manhole	Adoptable
12.000	SW32A	1350	Manhole	Adoptable	SW32B	1200	Manhole	Adoptable
12.001	SW32B	1200	Manhole	Adoptable	SW33	1200	Manhole	Adoptable
12.002	SW33	1200	Manhole	Adoptable	SW34	1200	Manhole	Adoptable
12.003	SW34	1200	Manhole	Adoptable	SW35	1350	Manhole	Adoptable
12.004	SW35	1350	Manhole	Adoptable	SW36	1350	Manhole	Adoptable
12.005	SW36	1350	Manhole	Adoptable	SW37	1350	Manhole	Adoptable
12.006	SW37	1350	Manhole	Adoptable	SW38	1200	Manhole	Adoptable
12.007	SW38	1200	Manhole	Adoptable	SW39	1200	Manhole	Adoptable
13.000	SW40	1350	Manhole	Adoptable	SW41	1350	Manhole	Adoptable
14.000	SW42	1350	Manhole	Adoptable	SW43	1350	Manhole	Adoptable
13.002	SW44	1350	Manhole	Adoptable	SW45	1350	Manhole	Adoptable
13.003	SW45	1350	Manhole	Adoptable	SW46	1350	Manhole	Adoptable
13.004	SW46	1350	Manhole	Adoptable	SW47	1350	Manhole	Adoptable

Pipeline Schedule

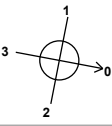
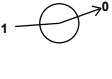
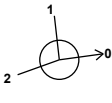
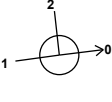
Link	Length (m)	Slope (1:X)	Dia (mm)	Link Type	US CL (m)	US IL (m)	US Depth (m)	DS CL (m)	DS IL (m)	DS Depth (m)
1.011	18.336	305.6	300	Circular	141.500	139.500	1.700	143.006	139.440	3.266

Link	US Node	Dia (mm)	Node Type	MH Type	DS Node	Dia (mm)	Node Type	MH Type
1.011	SW48	1200	Manhole	Adoptable	SW49	1350	Manhole	Adoptable

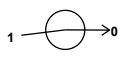
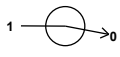
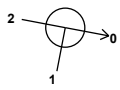
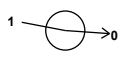
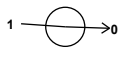
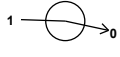
Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)
SW1	538333.349	236219.566	144.419	1.425	1350	 0	1.000	142.994	225
SW2	538336.790	236190.866	143.846	1.905	1350	1  0	1.000	141.941	225
SW3	538339.400	236168.581	143.292	1.616	1350	0  0	1.001	141.941	225
SW4	538337.711	236182.844	143.647	2.019	1350	2  1	2.000	141.628	300
SW5	538368.937	236218.514	143.841	1.378	1350	2  2	1.001	141.839	225
SW6	538369.376	236203.718	143.500	1.680	1350	1  0	1.002	141.628	300
SW7	538371.451	236186.870	143.116	1.676	1350	 0			
SW8	538369.376	236203.718	143.500	1.680	1350	1  0	3.000	142.463	300
SW9	538371.451	236186.870	143.116	1.676	1350	1  0	3.000	141.820	300
SW10	538371.451	236186.870	143.116	1.676	1350	1  0	3.001	141.515	300
						2  2	1.002	141.515	300
						0  0	1.003	141.440	375
SW8	538419.482	236240.399	143.338	1.635	1350	 0			
SW9	538425.401	236193.121	142.548	1.851	1350	1  1	4.000	141.703	375
						2  2	1.003	140.697	375
						0  0	1.004	140.697	450
SW10	538442.783	236194.715	142.446	1.912	1350	1  1	1.004	140.609	450
						0  0	1.005	140.534	450

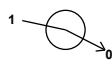
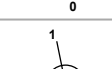
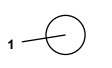
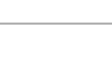
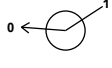
Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)
SW11	538484.286	236165.432	141.580	1.350	1350				
						0	5.000	140.230	225
SW12	538492.419	236206.897	141.877	1.648	1350				
						0	6.000	140.229	225
SW13	538488.346	236186.195	141.729	1.781	1350				
						1	6.000	140.124	225
						2	5.000	140.124	225
						3	1.005	139.948	450
						0	1.006	139.948	450
SW14	538519.408	236180.332	141.263	1.473	1350				
						1	1.006	139.790	450
						0	1.007	139.790	450
SW15	538530.025	236192.450	141.500	1.995	1350				
						1	1.007	139.540	450
SW16	538372.108	236316.954	145.103	1.500	1350				
						0	7.000	143.603	300
SW17	538364.187	236278.217	144.790	1.775	1350				
						1	7.000	143.090	300
						0	7.001	143.015	375
SW18	538363.508	236266.107	144.697	1.722	1350				
						1	7.001	142.975	375
						0	7.002	142.975	375
SW19	538302.113	236237.897	144.703	1.417	1350				
						0	8.000	143.286	300
SW20	538314.309	236238.786	144.772	1.542	1350				
						1	8.000	143.230	300
						0	8.001	143.230	300
SW21	538331.617	236266.797	145.234	1.682	1350				
						0	9.000	143.552	300
SW22	538333.978	236245.836	144.928	1.802	1350				
						1	9.000	143.482	300
						2	8.001	143.126	300
						0	8.002	143.126	300
SW23	538365.281	236250.111	144.628	1.735	1350				
						2	8.002	142.968	300
						1	7.002	142.928	375
						0	7.003	142.893	450

Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)
SW24	538435.913	236258.827	143.403	1.850	1350		1 7.003	141.553	450
							0 7.004	141.553	450
SW25	538448.739	236258.753	143.185	1.950	1350		1 7.004	141.235	450
							0 7.005	141.235	450
SW26	538497.148	236223.123	142.092	1.273	1350		0 10.000	140.819	225
SW27	538502.074	236248.663	142.255	1.791	1350		1 10.000	140.689	225
							2 7.005	140.539	450
							0 7.006	140.464	450
SW28	538527.265	236266.016	142.238	1.575	1350		0 11.000	140.663	225
SW29	538522.922	236244.738	141.888	2.088	1350		1 11.000	140.025	225
							2 7.006	139.800	450
							0 7.007	139.800	450
SW30	538536.553	236234.025	141.500	1.995	1350		1 7.007	139.540	450
SW31A	538539.041	236235.435	141.500	2.000	1350		0 1.009	139.500	450
SW31B	538543.019	236264.503	141.500	2.000	1350		1 1.009	139.500	450
SW32A	538408.700	236313.408	144.781	1.726	1350		0 12.000	143.055	225
SW32B	538428.041	236309.734	144.449	1.795	1200		1 12.000	142.654	225
							0 12.001	142.654	225
SW33	538446.366	236308.463	144.135	1.924	1200		1 12.001	142.211	225
							0 12.002	142.211	225
SW34	538495.148	236306.861	143.304	1.775	1200		1 12.002	141.529	225
							0 12.003	141.529	225

Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)
SW35	538508.640	236303.967	143.075	1.700	1350		1 12.003	141.450	225
						0	12.004	141.375	300
SW36	538522.029	236297.134	142.821	1.500	1350		1 12.004	141.321	300
						0	12.005	141.321	300
SW37	538528.491	236288.597	142.635	1.425	1350		1 12.005	141.210	300
						0	12.006	141.210	300
SW38	538530.402	236279.174	142.439	1.725	1200		1 12.006	140.714	300
						0	12.007	140.714	300
SW39	538543.070	236281.181	141.500	1.999	1200		1 12.007	139.575	300
SW40	538583.453	236298.561	141.673	1.200	1350		0 13.000	140.473	150
SW41	538577.763	236301.813	141.500	1.100	1350		1 13.000	140.420	150
SW42	538576.067	236267.231	141.888	1.300	1350		0 14.000	140.588	150
SW43	538568.727	236267.842	141.500	1.100	1350		1 14.000	140.410	150
SW44	538566.280	236258.214	141.500	1.100	1350		0 13.002	140.400	375
SW45	538560.662	236254.565	141.525	1.335	1350		1 13.002	140.190	375
						0	13.003	140.190	375
SW46	538549.147	236255.444	141.611	1.777	1350		1 13.003	139.834	375
						0	13.004	139.834	375
SW47	538544.968	236264.490	141.500	1.999	1350		1 13.004	139.520	375

Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)
SW48	538517.970	236310.818	141.500	2.000	1200				
							0	1.011	139.500
SW49	538499.738	236312.764	143.006	3.566	1350				
							1	1.011	139.440

Simulation Settings

Rainfall Methodology	FSR	Analysis Speed	Detailed
Rainfall Events	Singular	Skip Steady State	x
FSR Region	England and Wales	Drain Down Time (mins)	2000
M5-60 (mm)	20.000	Additional Storage (m³/ha)	0.0
Ratio-R	0.400	Starting Level (m)	
Summer CV	0.750	Check Discharge Rate(s)	x
Winter CV	0.840	Check Discharge Volume	x

Storm Durations

15	30	60	120	180	240	360	480	600	720	960	1440
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Return Period (years)	Climate Change (CC %)	Additional Area (A %)	Additional Flow (Q %)
10	0	0	0
30	0	0	0
100	0	0	0
100	40	0	0

Node SW48 Flow through Pond Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Porosity	1.00	Main Channel Length (m)	65.000
Side Inf Coefficient (m/hr)	0.00000	Invert Level (m)	139.500	Main Channel Slope (1:X)	99999.0
Safety Factor	2.0	Time to half empty (mins)	1740	Main Channel n	0.050

Inlets

SW47	SW31B	SW39
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Depth (m)	Area (m²)	Inf Area (m²)	Depth (m)	Area (m²)	Inf Area (m²)	Depth (m)	Area (m²)	Inf Area (m²)	Depth (m)	Area (m²)	Inf Area (m²)
0.000	454.6	0.0	0.600	715.4	0.0	1.200	1002.7	0.0	1.800	1315.6	0.0
0.100	495.6	0.0	0.700	761.5	0.0	1.300	1053.1	0.0	1.900	1370.3	0.0
0.200	538.1	0.0	0.800	808.3	0.0	1.400	1104.2	0.0	2.000	1425.6	0.0
0.300	581.4	0.0	0.900	855.9	0.0	1.500	1156.0	0.0			
0.400	625.4	0.0	1.000	904.1	0.0	1.600	1208.5	0.0			
0.500	670.0	0.0	1.100	953.0	0.0	1.700	1261.7	0.0			

Node SW44 Flow through Pond Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Porosity	1.00	Main Channel Length (m)	49.000
Side Inf Coefficient (m/hr)	0.00000	Invert Level (m)	140.400	Main Channel Slope (1:X)	99999.0
Safety Factor	2.0	Time to half empty (mins)	0	Main Channel n	0.050

Inlets

SW41 | SW43

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)	Depth (m)	Area (m ²)	Inf Area (m ²)
0.000	153.2	0.0	0.300	253.9	0.0	0.600	361.2	0.0	0.900	474.4	0.0
0.100	185.6	0.0	0.400	289.0	0.0	0.700	398.2	0.0	1.000	513.4	0.0
0.200	219.4	0.0	0.500	324.8	0.0	0.800	436.0	0.0	1.100	553.1	0.0

Node SW31A Flow through Pond Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Porosity	1.00	Main Channel Length (m)	45.000
Side Inf Coefficient (m/hr)	0.00000	Invert Level (m)	139.500	Main Channel Slope (1:X)	9999.0
Safety Factor	2.0	Time to half empty (mins)	1620	Main Channel n	0.050

Inlets

SW15 | SW30

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)	Depth (m)	Area (m ²)	Inf Area (m ²)
0.000	309.7	0.0	0.600	503.3	0.0	1.200	725.4	0.0	1.800	975.5	0.0
0.100	339.5	0.0	0.700	538.3	0.0	1.300	765.1	0.0	1.900	1019.9	0.0
0.200	370.7	0.0	0.800	574.2	0.0	1.400	805.7	0.0	2.000	1065.1	0.0
0.300	402.7	0.0	0.900	610.8	0.0	1.500	847.0	0.0			
0.400	435.4	0.0	1.000	648.2	0.0	1.600	889.0	0.0			
0.500	469.0	0.0	1.100	686.4	0.0	1.700	931.9	0.0			

Node SW49 Deep Bore Soakaway Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Invert Level (m)	139.343	Borehole Diameter	0.300
Side Inf Coefficient (m/hr)	0.09000	Time to half empty (mins)	459	Borehole Depth (m)	21.500
Safety Factor	3.0	Diameter (m)	1.800	Inf Depth (m)	19.800
Porosity	1.00	Depth (m)		Number Required	22

Results for 10 year Critical Storm Duration. Lowest mass balance: 99.85%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	SW1	10	143.036	0.042	7.6	0.0597	0.0000	OK
15 minute winter	SW2	10	142.026	0.085	15.2	0.1211	0.0000	OK
15 minute winter	SW3	11	141.848	0.172	23.6	0.2458	0.0000	OK
15 minute winter	SW4	11	141.837	0.209	51.0	0.2985	0.0000	OK
15 minute winter	SW5	10	142.520	0.057	18.4	0.0810	0.0000	OK
15 minute winter	SW6	10	141.919	0.099	32.0	0.1411	0.0000	OK
15 minute winter	SW7	11	141.620	0.180	112.3	0.2580	0.0000	OK
15 minute winter	SW8	10	141.793	0.090	36.6	0.1287	0.0000	OK
15 minute winter	SW9	11	141.005	0.308	161.2	0.4402	0.0000	OK
15 minute winter	SW10	11	140.791	0.257	207.7	0.3674	0.0000	OK
15 minute winter	SW11	11	140.319	0.089	3.8	0.1277	0.0000	OK
15 minute winter	SW12	12	140.317	0.088	6.3	0.1258	0.0000	OK
15 minute winter	SW13	12	140.311	0.363	221.9	0.5188	0.0000	OK
1440 minute winter	SW14	1380	140.095	0.305	11.3	0.4360	0.0000	OK
1440 minute winter	SW15	1380	140.094	0.590	11.3	0.8438	0.0000	OK
15 minute winter	SW16	10	143.710	0.107	33.3	0.1532	0.0000	OK
15 minute winter	SW17	11	143.197	0.182	43.2	0.2604	0.0000	OK
15 minute winter	SW18	11	143.161	0.186	49.1	0.2667	0.0000	OK
15 minute winter	SW19	10	143.389	0.103	17.4	0.1475	0.0000	OK
15 minute winter	SW20	10	143.324	0.094	17.2	0.1340	0.0000	OK
15 minute winter	SW21	10	143.639	0.087	11.2	0.1239	0.0000	OK
15 minute winter	SW22	11	143.307	0.181	49.7	0.2585	0.0000	OK
15 minute winter	SW23	11	143.069	0.176	143.5	0.2518	0.0000	OK
15 minute winter	SW24	11	141.751	0.198	155.3	0.2829	0.0000	OK
15 minute winter	SW25	11	141.478	0.243	192.0	0.3471	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)
15 minute winter	SW1	1.000	SW2	7.5	0.825	0.075	0.2701
15 minute winter	SW2	1.001	SW4	14.9	1.167	0.255	0.1035
15 minute winter	SW3	2.000	SW4	22.7	0.522	0.355	0.6750
15 minute winter	SW4	1.002	SW7	50.5	1.064	0.793	1.6098
15 minute winter	SW5	3.000	SW6	18.3	1.269	0.079	0.2172
15 minute winter	SW6	3.001	SW7	31.7	1.560	0.213	0.3547
15 minute winter	SW7	1.003	SW9	112.5	1.505	0.480	4.0500
15 minute winter	SW8	4.000	SW9	36.1	1.208	0.129	2.1816
15 minute winter	SW9	1.004	SW10	161.2	1.494	0.704	1.8816
15 minute winter	SW10	1.005	SW13	207.8	1.793	0.571	5.3222
15 minute winter	SW11	5.000	SW13	-3.8	0.234	-0.105	0.5240
15 minute winter	SW12	6.000	SW13	6.3	0.539	0.173	0.5228
15 minute winter	SW13	1.006	SW14	217.1	1.770	0.952	3.9477
1440 minute winter	SW14	1.007	SW15	11.3	0.678	0.028	2.1965
1440 minute winter	SW15	Flow through Pond	SW31A	17.6	0.019	0.004	238.0979
15 minute winter	SW16	7.000	SW17	33.0	1.469	0.260	0.8878
15 minute winter	SW17	7.001	SW18	42.1	0.785	0.368	0.6529
15 minute winter	SW18	7.002	SW23	49.8	0.997	0.464	0.8051
15 minute winter	SW19	8.000	SW20	17.2	0.857	0.230	0.2455
15 minute winter	SW20	8.001	SW22	16.9	0.545	0.216	0.6584
15 minute winter	SW21	9.000	SW22	10.8	0.694	0.170	0.3315
15 minute winter	SW22	8.002	SW23	49.3	1.153	0.629	1.3506
15 minute winter	SW23	7.003	SW24	144.3	2.322	0.325	4.4264
15 minute winter	SW24	7.004	SW25	155.5	2.019	0.305	0.9882
15 minute winter	SW25	7.005	SW27	191.5	2.293	0.523	4.5335

Results for 10 year Critical Storm Duration. Lowest mass balance: 99.85%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	SW26	10	140.901	0.081	10.1	0.1166	0.0000	OK
15 minute winter	SW27	11	140.664	0.200	206.8	0.2858	0.0000	OK
15 minute winter	SW28	10	140.720	0.057	11.9	0.0809	0.0000	OK
1440 minute winter	SW29	1380	140.095	0.295	10.8	0.4216	0.0000	OK
1440 minute winter	SW30	1380	140.094	0.590	10.8	0.8438	0.0000	OK
1440 minute winter	SW31A	1380	140.094	0.594	17.6	0.8499	0.0000	SURCHARGED
1440 minute winter	SW31B	1410	140.095	0.595	13.2	0.8514	0.0000	OK
15 minute winter	SW32A	10	143.135	0.079	18.9	0.1137	0.0000	OK
15 minute winter	SW32B	10	142.736	0.082	23.5	0.0930	0.0000	OK
15 minute winter	SW33	10	142.352	0.141	45.5	0.1594	0.0000	OK
15 minute winter	SW34	11	141.830	0.301	53.3	0.3408	0.0000	SURCHARGED
15 minute winter	SW35	11	141.586	0.211	55.2	0.3024	0.0000	OK
15 minute winter	SW36	11	141.492	0.171	59.3	0.2440	0.0000	OK
15 minute winter	SW37	11	141.326	0.116	63.0	0.1663	0.0000	OK
15 minute winter	SW38	11	140.810	0.096	62.9	0.1084	0.0000	OK
1440 minute winter	SW39	1380	140.094	0.593	3.0	0.6707	0.0000	OK
15 minute winter	SW40	10	140.579	0.106	11.3	0.1512	0.0000	OK
15 minute winter	SW41	11	140.528	0.127	11.1	0.1817	0.0000	OK
15 minute winter	SW42	10	140.657	0.069	10.7	0.0988	0.0000	OK
15 minute winter	SW43	12	140.509	0.108	10.6	0.1550	0.0000	OK
30 minute winter	SW44	25	140.444	0.044	12.7	0.0630	0.0000	OK
30 minute winter	SW45	25	140.233	0.043	9.4	0.0622	0.0000	OK
1440 minute winter	SW46	1380	140.094	0.260	1.0	0.3718	0.0000	OK
1440 minute winter	SW47	1380	140.094	0.593	1.0	0.8484	0.0000	OK
1440 minute winter	SW48	1380	140.094	0.594	10.8	0.6713	0.0000	SURCHARGED

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)
15 minute winter	SW26	10.000	SW27	9.8	0.776	0.267	0.3284
15 minute winter	SW27	7.006	SW29	206.7	2.359	0.360	1.8552
15 minute winter	SW28	11.000	SW29	11.7	1.537	0.131	0.1782
1440 minute winter	SW29	7.007	SW30	10.8	0.647	0.027	2.3267
1440 minute winter	SW30	Flow through Pond	SW31A	17.6	0.019	0.004	238.0979
1440 minute winter	SW31A	1.009	SW31B	13.2	0.317	0.083	4.6486
1440 minute winter	SW31B	Flow through Pond	SW48	10.8	0.017	0.008	344.6661
15 minute winter	SW32A	12.000	SW32B	18.7	1.461	0.252	0.2523
15 minute winter	SW32B	12.001	SW33	23.3	1.188	0.288	0.3608
15 minute winter	SW33	12.002	SW34	44.7	1.225	0.727	1.6092
15 minute winter	SW34	12.003	SW35	53.1	1.344	1.353	0.5221
15 minute winter	SW35	12.004	SW36	55.3	1.170	0.835	0.7092
15 minute winter	SW36	12.005	SW37	59.4	1.787	0.525	0.3561
15 minute winter	SW37	12.006	SW38	62.9	2.831	0.248	0.2142
15 minute winter	SW38	12.007	SW39	62.9	3.449	0.189	0.2405
1440 minute winter	SW39	Flow through Pond	SW48	10.8	0.017	0.008	344.6661
15 minute winter	SW40	13.000	SW41	11.1	0.859	0.696	0.0866
15 minute winter	SW41	Flow through Pond	SW44	12.8	0.079	0.053	8.3838
15 minute winter	SW42	14.000	SW43	10.6	1.285	0.383	0.0719
15 minute winter	SW43	Flow through Pond	SW44	12.8	0.079	0.053	8.3838
30 minute winter	SW44	13.002	SW45	9.4	1.310	0.026	0.0479
30 minute winter	SW45	13.003	SW46	9.3	1.366	0.027	0.0790
1440 minute winter	SW46	13.004	SW47	1.0	0.437	0.003	0.9556
1440 minute winter	SW47	Flow through Pond	SW48	10.8	0.017	0.008	344.6661
1440 minute winter	SW48	1.011	SW49	7.9	0.631	0.125	1.2912

Results for 10 year Critical Storm Duration. Lowest mass balance: 99.85%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
1440 minute winter	SW49	1380	140.093	0.653	7.9	76.7092	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)
1440 minute winter	SW49	Infiltration		3.4			

Results for 30 year Critical Storm Duration. Lowest mass balance: 99.85%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	SW1	10	143.041	0.047	9.7	0.0672	0.0000	OK
15 minute winter	SW2	10	142.038	0.097	19.4	0.1393	0.0000	OK
15 minute winter	SW3	11	141.892	0.216	30.0	0.3088	0.0000	OK
15 minute winter	SW4	11	141.879	0.251	64.8	0.3596	0.0000	OK
15 minute winter	SW5	10	142.527	0.064	23.3	0.0909	0.0000	OK
15 minute winter	SW6	10	141.932	0.112	40.6	0.1599	0.0000	OK
15 minute winter	SW7	10	141.649	0.209	142.5	0.2992	0.0000	OK
15 minute winter	SW8	10	141.805	0.101	46.5	0.1452	0.0000	OK
15 minute winter	SW9	11	141.071	0.374	206.2	0.5346	0.0000	OK
15 minute winter	SW10	10	140.834	0.300	264.3	0.4293	0.0000	OK
15 minute winter	SW11	11	140.497	0.267	4.8	0.3821	0.0000	SURCHARGED
15 minute winter	SW12	11	140.490	0.261	7.9	0.3734	0.0000	SURCHARGED
15 minute winter	SW13	12	140.466	0.518	283.4	0.7414	0.0000	SURCHARGED
1440 minute winter	SW14	1410	140.242	0.452	14.2	0.6465	0.0000	SURCHARGED
1440 minute winter	SW15	1410	140.241	0.737	13.9	1.0544	0.0000	OK
15 minute winter	SW16	10	143.723	0.120	42.2	0.1718	0.0000	OK
15 minute winter	SW17	10	143.227	0.212	54.7	0.3038	0.0000	OK
15 minute winter	SW18	11	143.189	0.214	63.0	0.3060	0.0000	OK
15 minute winter	SW19	10	143.405	0.119	22.1	0.1701	0.0000	OK
15 minute winter	SW20	11	143.348	0.118	21.7	0.1695	0.0000	OK
15 minute winter	SW21	10	143.650	0.098	14.2	0.1406	0.0000	OK
15 minute winter	SW22	11	143.339	0.213	61.8	0.3041	0.0000	OK
15 minute winter	SW23	11	143.093	0.200	181.2	0.2865	0.0000	OK
15 minute winter	SW24	11	141.786	0.233	196.3	0.3336	0.0000	OK
15 minute winter	SW25	11	141.519	0.284	243.2	0.4067	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)
15 minute winter	SW1	1.000	SW2	9.6	0.874	0.096	0.3243
15 minute winter	SW2	1.001	SW4	19.0	1.237	0.324	0.1240
15 minute winter	SW3	2.000	SW4	28.8	0.531	0.452	0.8422
15 minute winter	SW4	1.002	SW7	63.9	1.131	1.003	1.9051
15 minute winter	SW5	3.000	SW6	23.2	1.356	0.100	0.2572
15 minute winter	SW6	3.001	SW7	40.2	1.562	0.269	0.4613
15 minute winter	SW7	1.003	SW9	142.5	1.591	0.608	4.6916
15 minute winter	SW8	4.000	SW9	45.9	1.200	0.164	2.7992
15 minute winter	SW9	1.004	SW10	205.3	1.567	0.896	2.2787
15 minute winter	SW10	1.005	SW13	264.3	1.864	0.727	6.2217
15 minute winter	SW11	5.000	SW13	4.8	-0.272	0.130	0.8414
15 minute winter	SW12	6.000	SW13	9.3	0.559	0.255	0.8391
15 minute winter	SW13	1.006	SW14	274.9	1.776	1.206	4.7174
1440 minute winter	SW14	1.007	SW15	13.9	0.699	0.035	2.5520
1440 minute winter	SW15	Flow through Pond	SW31A	21.5	0.019	0.005	315.6459
15 minute winter	SW16	7.000	SW17	41.8	1.488	0.330	1.1413
15 minute winter	SW17	7.001	SW18	53.6	0.833	0.469	0.7821
15 minute winter	SW18	7.002	SW23	63.2	1.068	0.588	0.9522
15 minute winter	SW19	8.000	SW20	21.7	0.902	0.290	0.3150
15 minute winter	SW20	8.001	SW22	21.4	0.566	0.273	0.8275
15 minute winter	SW21	9.000	SW22	13.8	0.741	0.216	0.3945
15 minute winter	SW22	8.002	SW23	61.7	1.217	0.788	1.6025
15 minute winter	SW23	7.003	SW24	182.4	2.416	0.410	5.3734
15 minute winter	SW24	7.004	SW25	196.9	2.089	0.386	1.2080
15 minute winter	SW25	7.005	SW27	243.2	2.415	0.664	5.4657

Results for 30 year Critical Storm Duration. Lowest mass balance: 99.85%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	SW26	10	140.912	0.093	12.8	0.1331	0.0000	OK
15 minute winter	SW27	11	140.700	0.236	262.6	0.3374	0.0000	OK
15 minute winter	SW28	10	140.725	0.062	15.1	0.0888	0.0000	OK
1440 minute winter	SW29	1410	140.242	0.442	13.5	0.6322	0.0000	OK
1440 minute winter	SW30	1410	140.241	0.737	13.3	1.0544	0.0000	OK
1440 minute winter	SW31A	1410	140.241	0.741	21.5	1.0605	0.0000	SURCHARGED
1440 minute winter	SW31B	1410	140.242	0.742	15.9	1.0616	0.0000	OK
15 minute winter	SW32A	10	143.146	0.091	23.9	0.1299	0.0000	OK
15 minute winter	SW32B	10	142.748	0.093	29.8	0.1057	0.0000	OK
15 minute winter	SW33	11	142.486	0.275	57.7	0.3113	0.0000	SURCHARGED
15 minute summer	SW34	11	141.923	0.394	63.3	0.4453	0.0000	SURCHARGED
15 minute summer	SW35	11	141.617	0.242	65.8	0.3465	0.0000	OK
15 minute summer	SW36	11	141.511	0.190	70.7	0.2721	0.0000	OK
15 minute winter	SW37	11	141.340	0.130	75.2	0.1862	0.0000	OK
15 minute summer	SW38	11	140.819	0.105	74.8	0.1188	0.0000	OK
1440 minute winter	SW39	1410	140.241	0.740	3.7	0.8372	0.0000	OK
15 minute winter	SW40	10	140.604	0.131	14.3	0.1878	0.0000	OK
15 minute winter	SW41	11	140.550	0.150	14.0	0.2144	0.0000	OK
15 minute winter	SW42	10	140.669	0.081	13.6	0.1160	0.0000	OK
15 minute winter	SW43	12	140.533	0.132	13.5	0.1890	0.0000	OK
30 minute winter	SW44	24	140.453	0.053	17.2	0.0755	0.0000	OK
30 minute winter	SW45	24	140.242	0.052	13.3	0.0742	0.0000	OK
1440 minute winter	SW46	1410	140.241	0.407	1.3	0.5826	0.0000	SURCHARGED
1440 minute winter	SW47	1410	140.241	0.740	1.2	1.0591	0.0000	OK
1440 minute winter	SW48	1410	140.241	0.741	12.7	0.8379	0.0000	SURCHARGED

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)
15 minute winter	SW26	10.000	SW27	12.4	0.826	0.338	0.3916
15 minute winter	SW27	7.006	SW29	262.4	2.404	0.458	2.3200
15 minute winter	SW28	11.000	SW29	15.0	1.598	0.167	0.3546
1440 minute winter	SW29	7.007	SW30	13.3	0.683	0.034	2.7411
1440 minute winter	SW30	Flow through Pond	SW31A	21.5	0.019	0.005	315.6459
1440 minute winter	SW31A	1.009	SW31B	15.9	0.314	0.100	4.6486
1440 minute winter	SW31B	Flow through Pond	SW48	12.7	0.017	0.010	454.7019
15 minute winter	SW32A	12.000	SW32B	23.7	1.550	0.318	0.3009
15 minute winter	SW32B	12.001	SW33	29.5	1.229	0.365	0.5055
15 minute winter	SW33	12.002	SW34	53.8	1.368	0.875	1.9411
15 minute summer	SW34	12.003	SW35	63.2	1.592	1.613	0.5350
15 minute summer	SW35	12.004	SW36	65.8	1.213	0.993	0.8117
15 minute summer	SW36	12.005	SW37	70.6	1.853	0.624	0.4072
15 minute winter	SW37	12.006	SW38	75.6	3.029	0.298	0.2437
15 minute summer	SW38	12.007	SW39	75.3	3.539	0.226	0.3156
1440 minute winter	SW39	Flow through Pond	SW48	12.7	0.017	0.010	454.7019
15 minute winter	SW40	13.000	SW41	14.0	0.878	0.878	0.1062
15 minute winter	SW41	Flow through Pond	SW44	17.9	0.093	0.075	10.1774
15 minute winter	SW42	14.000	SW43	13.5	1.328	0.486	0.0909
15 minute winter	SW43	Flow through Pond	SW44	17.9	0.093	0.075	10.1774
30 minute winter	SW44	13.002	SW45	13.3	1.436	0.038	0.0622
30 minute winter	SW45	13.003	SW46	13.3	1.512	0.038	0.1017
1440 minute winter	SW46	13.004	SW47	1.2	0.414	0.003	1.0991
1440 minute winter	SW47	Flow through Pond	SW48	12.7	0.017	0.010	454.7019
1440 minute winter	SW48	1.011	SW49	7.4	0.620	0.117	1.2912

Results for 30 year Critical Storm Duration. Lowest mass balance: 99.85%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
1440 minute winter	SW49	1410	140.241	0.801	7.4	85.1646	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)
1440 minute winter	SW49	Infiltration		3.4			

Results for 100 year Critical Storm Duration. Lowest mass balance: 99.76%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	SW1	10	143.047	0.053	12.5	0.0764	0.0000	OK
15 minute winter	SW2	11	142.058	0.117	25.1	0.1673	0.0000	OK
15 minute winter	SW3	12	142.001	0.324	38.9	0.4644	0.0000	SURCHARGED
15 minute winter	SW4	12	141.983	0.354	84.0	0.5072	0.0000	SURCHARGED
15 minute winter	SW5	10	142.536	0.072	30.3	0.1037	0.0000	OK
15 minute winter	SW6	10	141.951	0.131	52.7	0.1871	0.0000	OK
15 minute winter	SW7	12	141.812	0.372	185.7	0.5318	0.0000	OK
15 minute winter	SW8	10	141.819	0.116	60.2	0.1661	0.0000	OK
15 minute winter	SW9	12	141.420	0.722	261.5	1.0338	0.0000	SURCHARGED
15 minute winter	SW10	12	141.274	0.739	310.0	1.0582	0.0000	SURCHARGED
15 minute winter	SW11	12	140.790	0.560	9.7	0.8017	0.0000	SURCHARGED
15 minute winter	SW12	12	140.798	0.569	11.2	0.8148	0.0000	SURCHARGED
15 minute winter	SW13	12	140.792	0.844	329.1	1.2076	0.0000	SURCHARGED
1440 minute winter	SW14	1410	140.436	0.646	18.0	0.9245	0.0000	SURCHARGED
1440 minute winter	SW15	1410	140.436	0.931	17.7	1.3324	0.0000	OK
15 minute winter	SW16	10	143.741	0.138	54.7	0.1978	0.0000	OK
15 minute winter	SW17	10	143.270	0.255	71.0	0.3644	0.0000	OK
15 minute winter	SW18	11	143.226	0.251	82.5	0.3590	0.0000	OK
15 minute winter	SW19	11	143.432	0.146	28.7	0.2086	0.0000	OK
15 minute winter	SW20	11	143.403	0.173	28.2	0.2480	0.0000	OK
15 minute winter	SW21	10	143.665	0.113	18.4	0.1621	0.0000	OK
15 minute winter	SW22	11	143.392	0.266	80.0	0.3802	0.0000	OK
15 minute winter	SW23	10	143.126	0.233	234.3	0.3327	0.0000	OK
15 minute winter	SW24	11	141.839	0.286	253.9	0.4086	0.0000	OK
15 minute winter	SW25	11	141.582	0.347	314.6	0.4962	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)
15 minute winter	SW1	1.000	SW2	12.4	0.918	0.124	0.4020
15 minute winter	SW2	1.001	SW4	24.4	1.277	0.417	0.1835
15 minute winter	SW3	2.000	SW4	37.7	0.543	0.590	1.0114
15 minute winter	SW4	1.002	SW7	83.3	1.207	1.307	2.3905
15 minute winter	SW5	3.000	SW6	30.1	1.436	0.130	0.3151
15 minute winter	SW6	3.001	SW7	52.2	1.548	0.350	0.7923
15 minute winter	SW7	1.003	SW9	177.9	1.722	0.759	5.9855
15 minute winter	SW8	4.000	SW9	59.7	1.218	0.213	3.3179
15 minute winter	SW9	1.004	SW10	233.4	1.556	1.019	2.7656
15 minute winter	SW10	1.005	SW13	308.1	1.945	0.847	7.3443
15 minute winter	SW11	5.000	SW13	-9.7	-0.260	-0.263	0.8414
15 minute winter	SW12	6.000	SW13	10.0	0.559	0.273	0.8391
15 minute winter	SW13	1.006	SW14	321.1	2.027	1.408	5.0084
1440 minute winter	SW14	1.007	SW15	17.7	0.742	0.044	2.5527
1440 minute winter	SW15	Flow through Pond	SW31A	27.1	0.015	0.006	429.4960
15 minute winter	SW16	7.000	SW17	54.2	1.510	0.428	1.4971
15 minute winter	SW17	7.001	SW18	70.2	0.889	0.614	0.9579
15 minute winter	SW18	7.002	SW23	82.2	1.158	0.765	1.1411
15 minute winter	SW19	8.000	SW20	28.2	0.922	0.376	0.4653
15 minute winter	SW20	8.001	SW22	27.1	0.575	0.347	1.1297
15 minute winter	SW21	9.000	SW22	17.9	0.796	0.281	0.4776
15 minute winter	SW22	8.002	SW23	79.1	1.296	1.010	1.9151
15 minute winter	SW23	7.003	SW24	235.8	2.502	0.531	6.7118
15 minute winter	SW24	7.004	SW25	254.6	2.140	0.499	1.5209
15 minute winter	SW25	7.005	SW27	314.1	2.533	0.857	6.7506

Results for 100 year Critical Storm Duration. Lowest mass balance: 99.76%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	SW26	10	140.927	0.108	16.6	0.1552	0.0000	OK
15 minute winter	SW27	12	140.781	0.317	339.3	0.4534	0.0000	OK
15 minute winter	SW28	10	140.734	0.071	19.6	0.1015	0.0000	OK
1440 minute winter	SW29	1410	140.436	0.636	17.3	0.9102	0.0000	SURCHARGED
1440 minute winter	SW30	1410	140.436	0.931	17.0	1.3323	0.0000	OK
1440 minute winter	SW31A	1410	140.435	0.935	27.1	1.3383	0.0000	SURCHARGED
1440 minute winter	SW31B	1440	140.436	0.936	19.8	1.3399	0.0000	OK
15 minute winter	SW32A	9	143.157	0.102	31.1	0.1457	0.0000	OK
15 minute winter	SW32B	12	143.066	0.412	39.2	0.4664	0.0000	SURCHARGED
15 minute winter	SW33	11	142.964	0.753	69.5	0.8518	0.0000	SURCHARGED
15 minute winter	SW34	11	142.085	0.556	78.6	0.6286	0.0000	SURCHARGED
15 minute winter	SW35	12	141.675	0.300	81.3	0.4293	0.0000	SURCHARGED
15 minute winter	SW36	11	141.540	0.219	87.2	0.3131	0.0000	OK
15 minute winter	SW37	12	141.360	0.149	92.7	0.2139	0.0000	OK
15 minute winter	SW38	10	140.827	0.113	92.4	0.1280	0.0000	OK
1440 minute winter	SW39	1410	140.435	0.934	4.8	1.0569	0.0000	OK
15 minute winter	SW40	11	140.673	0.200	18.6	0.2867	0.0000	SURCHARGED
15 minute winter	SW41	11	140.579	0.179	17.9	0.2558	0.0000	OK
15 minute winter	SW42	10	140.688	0.100	17.6	0.1433	0.0000	OK
15 minute winter	SW43	11	140.566	0.166	17.4	0.2368	0.0000	OK
30 minute winter	SW44	23	140.464	0.064	23.5	0.0915	0.0000	OK
1440 minute winter	SW45	1410	140.435	0.245	1.6	0.3505	0.0000	OK
1440 minute winter	SW46	1410	140.435	0.601	1.6	0.8599	0.0000	SURCHARGED
1440 minute winter	SW47	1410	140.435	0.934	1.5	1.3365	0.0000	OK
1440 minute winter	SW48	1410	140.435	0.935	15.6	1.0573	0.0000	SURCHARGED

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)
15 minute winter	SW26	10.000	SW27	16.1	0.882	0.439	0.4770
15 minute winter	SW27	7.006	SW29	336.9	2.419	0.587	2.9460
15 minute winter	SW28	11.000	SW29	19.4	1.616	0.217	0.5443
1440 minute winter	SW29	7.007	SW30	17.0	0.720	0.043	2.7469
1440 minute winter	SW30	Flow through Pond	SW31A	27.1	0.015	0.006	429.4960
1440 minute winter	SW31A	1.009	SW31B	19.8	0.313	0.125	4.6486
1440 minute winter	SW31B	Flow through Pond	SW48	15.6	0.020	0.012	614.7970
15 minute winter	SW32A	12.000	SW32B	31.2	1.622	0.420	0.5541
15 minute winter	SW32B	12.001	SW33	35.3	1.244	0.436	0.7306
15 minute winter	SW33	12.002	SW34	65.6	1.648	1.065	1.9411
15 minute winter	SW34	12.003	SW35	77.8	1.956	1.984	0.5486
15 minute winter	SW35	12.004	SW36	81.1	1.254	1.223	0.9426
15 minute winter	SW36	12.005	SW37	87.0	1.922	0.769	0.4820
15 minute winter	SW37	12.006	SW38	92.4	3.210	0.364	0.2810
15 minute winter	SW38	12.007	SW39	92.5	3.621	0.278	0.4916
1440 minute winter	SW39	Flow through Pond	SW48	15.6	0.020	0.012	614.7970
15 minute winter	SW40	13.000	SW41	17.9	1.019	1.125	0.1154
15 minute winter	SW41	Flow through Pond	SW44	26.0	0.109	0.108	12.4774
15 minute winter	SW42	14.000	SW43	17.4	1.341	0.626	0.1097
15 minute winter	SW43	Flow through Pond	SW44	26.0	0.109	0.108	12.4774
30 minute winter	SW44	13.002	SW45	19.2	1.569	0.054	0.0819
1440 minute winter	SW45	13.003	SW46	1.6	0.761	0.005	1.0770
1440 minute winter	SW46	13.004	SW47	1.5	0.224	0.004	1.0991
1440 minute winter	SW47	Flow through Pond	SW48	15.6	0.020	0.012	614.7970
1440 minute winter	SW48	1.011	SW49	7.8	0.629	0.123	1.2912

Results for 100 year Critical Storm Duration. Lowest mass balance: 99.76%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
1440 minute winter	SW49	1410	140.435	0.995	7.8	96.3024	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)
1440 minute winter	SW49	Infiltration		3.4			

Results for 100 year +40% CC Critical Storm Duration. Lowest mass balance: 99.74%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	SW1	12	143.312	0.318	17.5	0.4545	0.0000	SURCHARGED
15 minute winter	SW2	12	143.210	1.269	35.1	1.8159	0.0000	SURCHARGED
15 minute winter	SW3	12	143.214	1.538	54.3	2.2002	0.0000	FLOOD RISK
15 minute winter	SW4	12	143.189	1.560	95.9	2.2331	0.0000	SURCHARGED
15 minute winter	SW5	12	143.096	0.633	42.4	0.9054	0.0000	SURCHARGED
15 minute winter	SW6	12	143.072	1.252	73.8	1.7913	0.0000	SURCHARGED
15 minute winter	SW7	12	142.999	1.559	220.0	2.2303	0.0000	FLOOD RISK
15 minute winter	SW8	12	142.469	0.766	84.3	1.0964	0.0000	SURCHARGED
15 minute winter	SW9	12	142.398	1.701	295.9	2.4337	0.0000	FLOOD RISK
15 minute winter	SW10	12	142.171	1.637	391.9	2.3425	0.0000	FLOOD RISK
15 minute winter	SW11	12	141.387	1.157	13.7	1.6561	0.0000	FLOOD RISK
15 minute winter	SW12	12	141.402	1.173	15.1	1.6779	0.0000	SURCHARGED
15 minute winter	SW13	12	141.385	1.437	409.8	2.0557	0.0000	SURCHARGED
30 minute winter	SW14	22	140.726	0.936	361.4	1.3398	0.0000	SURCHARGED
1440 minute winter	SW15	1410	140.722	1.217	23.8	1.7417	0.0000	OK
15 minute winter	SW16	10	143.775	0.172	76.6	0.2455	0.0000	OK
15 minute winter	SW17	11	143.344	0.328	99.2	0.4701	0.0000	OK
15 minute winter	SW18	11	143.297	0.322	113.7	0.4611	0.0000	OK
15 minute winter	SW19	11	143.646	0.360	40.2	0.5152	0.0000	SURCHARGED
15 minute winter	SW20	11	143.624	0.394	37.8	0.5634	0.0000	SURCHARGED
15 minute winter	SW21	10	143.689	0.137	25.7	0.1957	0.0000	OK
15 minute winter	SW22	11	143.589	0.463	111.0	0.6630	0.0000	SURCHARGED
15 minute winter	SW23	12	143.205	0.312	324.6	0.4468	0.0000	OK
15 minute winter	SW24	12	142.533	0.980	343.4	1.4019	0.0000	SURCHARGED
15 minute winter	SW25	12	142.298	1.063	391.8	1.5214	0.0000	SURCHARGED

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)
15 minute winter	SW1	1.000	SW2	17.3	0.953	0.174	1.1496
15 minute winter	SW2	1.001	SW4	46.2	1.306	0.790	0.3212
15 minute winter	SW3	2.000	SW4	44.8	0.637	0.702	1.0114
15 minute winter	SW4	1.002	SW7	97.5	1.385	1.530	2.3928
15 minute winter	SW5	3.000	SW6	42.2	1.549	0.182	1.0424
15 minute winter	SW6	3.001	SW7	66.7	1.536	0.447	1.1954
15 minute winter	SW7	1.003	SW9	200.7	1.820	0.857	5.9903
15 minute winter	SW8	4.000	SW9	81.2	1.229	0.290	5.2553
15 minute winter	SW9	1.004	SW10	288.2	1.819	1.259	2.7656
15 minute winter	SW10	1.005	SW13	379.1	2.393	1.042	7.3443
15 minute winter	SW11	5.000	SW13	-13.7	-0.363	-0.374	0.8414
15 minute winter	SW12	6.000	SW13	12.7	0.544	0.348	0.8391
15 minute winter	SW13	1.006	SW14	408.4	2.578	1.792	5.0084
30 minute winter	SW14	1.007	SW15	359.9	2.272	0.893	2.5527
1440 minute winter	SW15	Flow through Pond	SW31A	37.1	0.021	0.009	623.1161
15 minute winter	SW16	7.000	SW17	75.8	1.520	0.598	2.0653
15 minute winter	SW17	7.001	SW18	96.6	0.966	0.845	1.2321
15 minute winter	SW18	7.002	SW23	112.1	1.264	1.043	1.5107
15 minute winter	SW19	8.000	SW20	37.8	0.930	0.505	0.8611
15 minute winter	SW20	8.001	SW22	38.4	0.578	0.492	1.4713
15 minute winter	SW21	9.000	SW22	25.1	0.872	0.394	0.6101
15 minute winter	SW22	8.002	SW23	111.0	1.586	1.417	2.1250
15 minute winter	SW23	7.003	SW24	316.6	2.553	0.712	9.8150
15 minute winter	SW24	7.004	SW25	321.8	2.138	0.631	2.0322
15 minute winter	SW25	7.005	SW27	392.2	2.495	1.071	8.6005

Results for 100 year +40% CC Critical Storm Duration. Lowest mass balance: 99.74%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	SW26	12	141.370	0.551	23.2	0.7886	0.0000	SURCHARGED
15 minute winter	SW27	12	141.334	0.870	420.6	1.2451	0.0000	SURCHARGED
15 minute winter	SW28	13	140.834	0.171	27.4	0.2446	0.0000	OK
15 minute winter	SW29	13	140.812	1.012	445.3	1.4481	0.0000	SURCHARGED
1440 minute winter	SW30	1410	140.722	1.217	23.9	1.7416	0.0000	OK
1440 minute winter	SW31A	1440	140.721	1.221	37.1	1.7473	0.0000	SURCHARGED
1440 minute winter	SW31B	1440	140.723	1.223	26.6	1.7498	0.0000	OK
15 minute winter	SW32A	12	144.263	1.208	43.5	1.7286	0.0000	SURCHARGED
15 minute winter	SW32B	12	144.152	1.498	44.4	1.6937	0.0000	FLOOD RISK
15 minute winter	SW33	12	143.981	1.770	87.4	2.0013	0.0000	FLOOD RISK
15 minute winter	SW34	12	142.499	0.970	101.3	1.0975	0.0000	SURCHARGED
15 minute winter	SW35	12	141.788	0.413	105.1	0.5911	0.0000	SURCHARGED
15 minute winter	SW36	12	141.592	0.271	113.2	0.3884	0.0000	OK
15 minute winter	SW37	12	141.389	0.179	120.6	0.2564	0.0000	OK
15 minute winter	SW38	11	140.839	0.125	120.8	0.1411	0.0000	OK
1440 minute winter	SW39	1410	140.721	1.220	6.7	1.3801	0.0000	OK
15 minute winter	SW40	11	140.809	0.336	26.0	0.4804	0.0000	SURCHARGED
1440 minute winter	SW41	1440	140.722	0.321	1.2	0.4593	0.0000	OK
15 minute winter	SW42	11	140.799	0.211	24.7	0.3023	0.0000	SURCHARGED
1440 minute winter	SW43	1440	140.722	0.321	1.1	0.4594	0.0000	OK
1440 minute winter	SW44	1440	140.721	0.321	2.6	0.4593	0.0000	OK
1440 minute winter	SW45	1440	140.721	0.531	2.7	0.7598	0.0000	SURCHARGED
1440 minute winter	SW46	1440	140.721	0.887	2.7	1.2693	0.0000	SURCHARGED
1440 minute winter	SW47	1440	140.721	1.220	2.7	1.7458	0.0000	OK
1440 minute winter	SW48	1440	140.721	1.221	20.4	1.3807	0.0000	SURCHARGED

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)
15 minute winter	SW26	10.000	SW27	20.0	0.916	0.545	1.0345
15 minute winter	SW27	7.006	SW29	419.8	2.650	0.732	3.3612
15 minute winter	SW28	11.000	SW29	27.2	1.621	0.304	0.7834
15 minute winter	SW29	7.007	SW30	442.9	2.796	1.117	2.7469
1440 minute winter	SW30	Flow through Pond	SW31A	37.1	0.021	0.009	623.1161
1440 minute winter	SW31A	1.009	SW31B	26.6	0.341	0.167	4.6486
1440 minute winter	SW31B	Flow through Pond	SW48	20.4	0.020	0.015	884.1190
15 minute winter	SW32A	12.000	SW32B	34.7	1.620	0.467	0.7830
15 minute winter	SW32B	12.001	SW33	46.3	1.247	0.571	0.7306
15 minute winter	SW33	12.002	SW34	84.9	2.135	1.380	1.9411
15 minute winter	SW34	12.003	SW35	101.1	2.543	2.580	0.5488
15 minute winter	SW35	12.004	SW36	105.5	1.499	1.593	1.0331
15 minute winter	SW36	12.005	SW37	113.6	2.004	1.004	0.5938
15 minute winter	SW37	12.006	SW38	120.8	3.386	0.476	0.3434
15 minute winter	SW38	12.007	SW39	120.9	3.649	0.363	0.6201
1440 minute winter	SW39	Flow through Pond	SW48	20.4	0.020	0.015	884.1190
15 minute winter	SW40	13.000	SW41	25.0	1.419	1.566	0.1154
1440 minute winter	SW41	Flow through Pond	SW44	2.3	0.026	0.010	66.3155
15 minute winter	SW42	14.000	SW43	23.4	1.332	0.844	0.1297
1440 minute winter	SW43	Flow through Pond	SW44	2.3	0.026	0.010	66.3155
1440 minute winter	SW44	13.002	SW45	-2.6	0.889	-0.007	0.7059
1440 minute winter	SW45	13.003	SW46	-2.7	0.759	-0.008	1.2737
1440 minute winter	SW46	13.004	SW47	-2.7	0.304	-0.008	1.0991
1440 minute winter	SW47	Flow through Pond	SW48	20.4	0.020	0.015	884.1190
1440 minute winter	SW48	1.011	SW49	10.0	0.657	0.158	1.2912

Results for 100 year +40% CC Critical Storm Duration. Lowest mass balance: 99.74%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
1440 minute winter	SW49	1440	140.721	1.281	10.0	112.7221	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)
1440 minute winter	SW49	Infiltration		3.4			