

Network Details

Manhole Schedule

Manhole	Catchment Area (ha)	Diameter (m)	Type	CL (m)	IL (m)	Depth To Soffit (m)	Easting (m)	Northing (m)
SC1	0.091	1.200	Type E	44.745	43.320	1.200	392667.647	164293.760
SC2	0.095	1.200	Type E	44.457	42.957	1.200	392655.247	164282.834
SC3	0.082	1.200	Type E	44.461	43.036	1.200	392596.717	164285.516
SC4	0.150	1.350	Type C	43.755	42.055	1.250	392625.350	164254.069
SC5	0.138	1.200	Type E	44.193	42.693	1.200	392698.894	164251.274
SC6	0.019	1.200	Type B	44.446	42.280	1.866	392679.158	164233.700
SC7	0.111	1.500	Type B	44.201	41.552	2.049	392661.144	164215.109
SC8	0.143	1.200	Type E	43.854	42.354	1.200	392743.826	164214.773
SC9	0.073	1.350	Type C	43.694	42.170	1.149	392730.386	164205.446
SC10	0.008	1.350	Type B	43.910	41.986	1.549	392710.260	164186.690
SC11	0.009	1.500	Type B	43.954	41.186	2.168	392698.398	164174.730
SC12	0.067	1.500	Type B	43.463	41.008	1.855	392715.434	164154.233
SC13	0.102	1.200	Type E	42.615	41.115	1.200	392742.941	164115.184
SC14	0.066	1.800	Type B	42.918	40.496	1.672	392732.374	164129.632
SC15	0.047	1.800	Type B	43.173	40.288	2.135	392706.773	164111.851
SC16	0.067	1.200	Type E	42.177	40.677	1.200	392643.709	164123.990
SC17	0.025	1.200	Type B	42.370	40.520	1.550	392649.684	164109.309
SC18	0.012	1.800	Type B	43.293	39.688	2.855	392669.998	164083.617
SC19	0.135	1.800	Type B	42.890	39.569	2.571	392655.623	164072.976
SC20	0.140	1.200	Type E	41.569	40.069	1.200	392599.997	164098.970
SC21	0.008	1.800	Type B	41.815	38.881	2.184	392616.710	164057.346
SC22	0.150	1.200	Type E	41.803	40.303	1.200	392551.621	164084.212
SC23	0.117	1.200	Type E	41.595	40.095	1.200	392538.577	164026.122
SC24	0.115	1.500	Type C	41.256	39.320	1.336	392570.214	164038.837
SC25	0.059	1.800	Type B	41.346	38.757	1.839	392599.435	164050.407
SC26	0.000	1.800	Type B	41.805	38.379	2.676	392610.755	164020.658
SC27	0.076	1.200	Type E	43.486	42.061	1.200	392832.617	164115.054
SC28	0.045	1.200	Type E	43.325	41.875	1.150	392822.988	164127.844
SC29	0.051	1.200	Type E	42.909	41.459	1.150	392787.988	164103.739
SC30	0.057	1.200	Type E	42.548	41.123	1.200	392755.692	164096.572
SC31	0.000	1.350	Type B	42.532	40.427	1.655	392763.410	164086.904
SC32	0.085	1.350	Type B	42.554	39.941	2.164	392709.872	164036.617
SC33	0.111	1.350	Type B	42.524	39.665	2.409	392677.156	164012.014
SC34	0.051	1.800	Type A	41.917	38.059	3.108	392619.189	163994.989
SC35	0.013	1.800	Type B	41.531	37.919	2.862	392599.465	163988.348
SC36	0.086	1.800	Type B	41.324	37.841	2.733	392589.536	163982.243
SC37	0.094	1.800	Type B	40.374	37.589	2.035	392554.248	163968.624
HW7	0.000	0.000	Unknown	38.800	37.331	0.719	392568.796	163932.748
HW8	0.000	0.000	Unknown	38.800	37.300	0.750	392607.385	163924.192
SC40 HB	0.000	1.800	Type C	38.800	37.263	1.312	392607.604	163918.637
HW9	0.000	0.000	Unknown	38.000	36.723	1.052	392608.247	163896.765

Pipe Schedule

Pipe Number	US Manhole	US IL (m)	DS Manhole	DS IL (m)	Shape	Dimension (m)	Length (m)	Gradient (1:x)	Roughness (mm)	US Depth To Soffit (m)	DS Depth To Soffit (m)
1.000	SC1	43.320	SC2	43.032	Circ	0.225mØ	16.527	57	0.600	1.200	1.200
1.001	SC2	42.957	SC4	42.205	Circ	0.3mØ	41.488	55	0.600	1.200	1.250
2.000	SC3	43.036	SC4	42.280	Circ	0.225mØ	42.530	56	0.600	1.200	1.250
1.002	SC4	42.055	SC7	41.702	Circ	0.45mØ	52.906	150	0.600	1.250	2.049
3.000	SC5	42.693	SC6	42.280	Circ	0.3mØ	26.426	64	0.600	1.200	1.866
3.001	SC6	42.280	SC7	41.852	Circ	0.3mØ	25.887	60	0.600	1.866	2.049
1.003	SC7	41.552	SC11	41.186	Circ	0.6mØ	54.939	150	0.600	2.049	2.168
4.000	SC8	42.354	SC9	42.245	Circ	0.3mØ	16.359	150	0.600	1.200	1.149
4.001	SC9	42.170	SC10	41.986	Circ	0.375mØ	27.511	150	0.600	1.149	1.549
4.002	SC10	41.986	SC11	41.411	Circ	0.375mØ	16.845	29	0.600	1.549	2.168
1.004	SC11	41.186	SC12	41.008	Circ	0.6mØ	26.652	150	0.600	2.168	1.855
1.005	SC12	41.008	SC14	40.646	Circ	0.6mØ	29.869	83	0.600	1.855	1.672
5.000	SC13	41.115	SC14	40.946	Circ	0.3mØ	17.900	106	0.600	1.200	1.672
1.006	SC14	40.496	SC15	40.288	Circ	0.75mØ	31.170	150	0.600	1.672	2.135
1.007	SC15	40.288	SC18	39.688	Circ	0.75mØ	46.363	77	0.600	2.135	2.855
6.000	SC16	40.677	SC17	40.520	Circ	0.3mØ	15.850	101	0.600	1.200	1.550

Pipe Schedule

Pipe Number	US Manhole	US IL (m)	DS Manhole	DS IL (m)	Shape	Dimension (m)	Length (m)	Gradient (1:x)	Roughness (mm)	US Depth To Soffit (m)	DS Depth To Soffit (m)
6.001	SC17	40.520	SC18	40.138	Circ	0.3mØ	32.753	86	0.600	1.550	2.855
1.008	SC18	39.688	SC19	39.569	Circ	0.75mØ	17.885	150	0.600	2.855	2.571
1.009	SC19	39.569	SC21	38.881	Circ	0.75mØ	41.935	61	0.600	2.571	2.184
7.000	SC20	40.069	SC21	39.331	Circ	0.3mØ	44.854	61	0.600	1.200	2.184
1.010	SC21	38.881	SC25	38.757	Circ	0.75mØ	18.617	150	0.600	2.184	1.839
8.000	SC22	40.303	SC24	39.620	Circ	0.3mØ	49.037	72	0.600	1.200	1.336
9.000	SC23	40.095	SC24	39.620	Circ	0.3mØ	34.096	72	0.600	1.200	1.336
8.001	SC24	39.320	SC25	38.907	Circ	0.6mØ	31.428	76	0.600	1.336	1.839
1.011	SC25	38.757	SC26	38.379	Circ	0.75mØ	31.830	84	0.600	1.839	2.676
1.012	SC26	38.379	SC34	38.059	Circ	0.75mØ	27.019	84	0.600	2.676	3.108
10.000	SC27	42.061	SC28	41.950	Circ	0.225mØ	16.009	144	0.600	1.200	1.150
10.001	SC28	41.875	SC29	41.459	Circ	0.3mØ	42.498	102	0.600	1.150	1.150
10.002	SC29	41.459	SC31	40.577	Circ	0.3mØ	29.791	34	0.600	1.150	1.655
11.000	SC30	41.123	SC31	40.652	Circ	0.225mØ	12.371	26	0.600	1.200	1.655
10.003	SC31	40.427	SC32	39.941	Circ	0.45mØ	73.452	151	0.600	1.655	2.164
10.004	SC32	39.941	SC33	39.665	Circ	0.45mØ	40.934	148	0.600	2.164	2.409
10.005	SC33	39.665	SC34	38.359	Circ	0.45mØ	60.416	46	0.600	2.409	3.108
1.013	SC34	38.059	SC35	37.919	Circ	0.75mØ	20.812	149	0.600	3.108	2.862
1.014	SC35	37.919	SC36	37.841	Circ	0.75mØ	11.656	149	0.600	2.862	2.733
1.015	SC36	37.841	SC37	37.589	Circ	0.75mØ	37.825	150	0.600	2.733	2.035
1.016	SC37	37.589	HW7	37.331	Circ	0.75mØ	38.713	150	0.600	2.035	0.719
1.017	HW7	37.331	HW8	37.300	Circ	0.75mØ	39.526	1275	0.600	0.719	0.750
1.018	HW8	37.300	SC40 HB	37.263	Circ	0.75mØ	5.559	150	0.600	0.750	0.787
1.019	SC40 HB	37.263	HW9	36.723	Circ	0.225mØ	21.881	41	0.600	1.312	1.052

Outfall Details

Outfall Manhole HW9 : Free Discharge

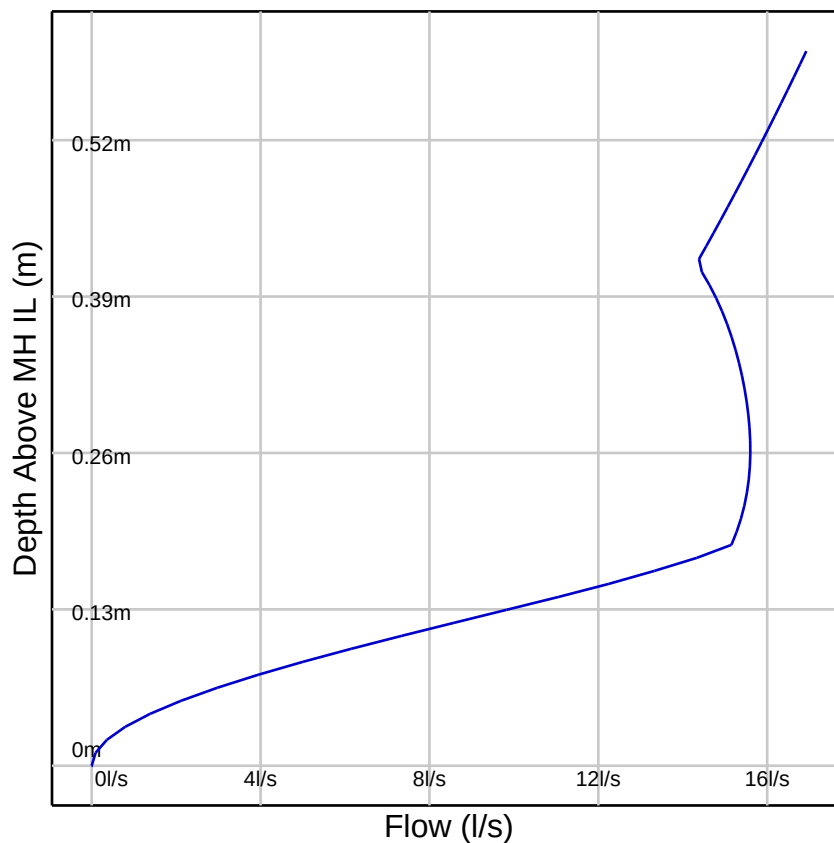
Flow Control Details

Controls within Manhole SC40 HB

Hydro-Brake® Optimum Control

Model Ref	Design Depth (m)	Design Flow (l/s)	Invert Offset (m)	FF Head (m)	FF Flow (l/s)	KF Head (m)	KF Flow (l/s)
SHE-0184-1560-0500-1560	0.500	15.600	0.000	0.262	15.601	0.417	14.321

Hydro-Brake® Optimum Control from SC40 HB to HW9



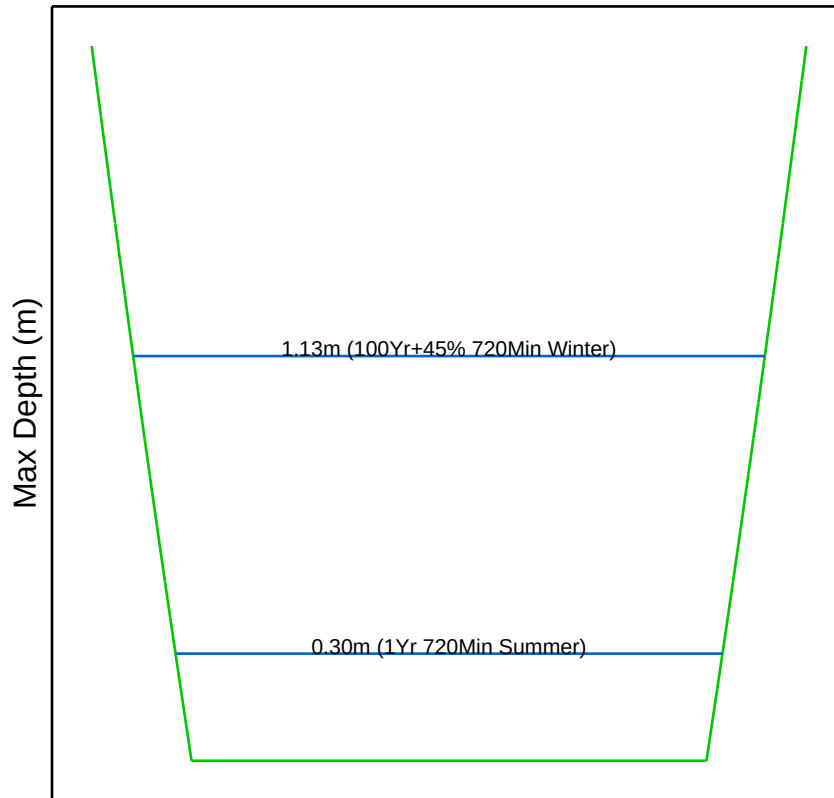
Orifice Control

Invert Offset (m)	Orifice Diameter (m)	Discharge Coeff
0.787	0.100	0.600

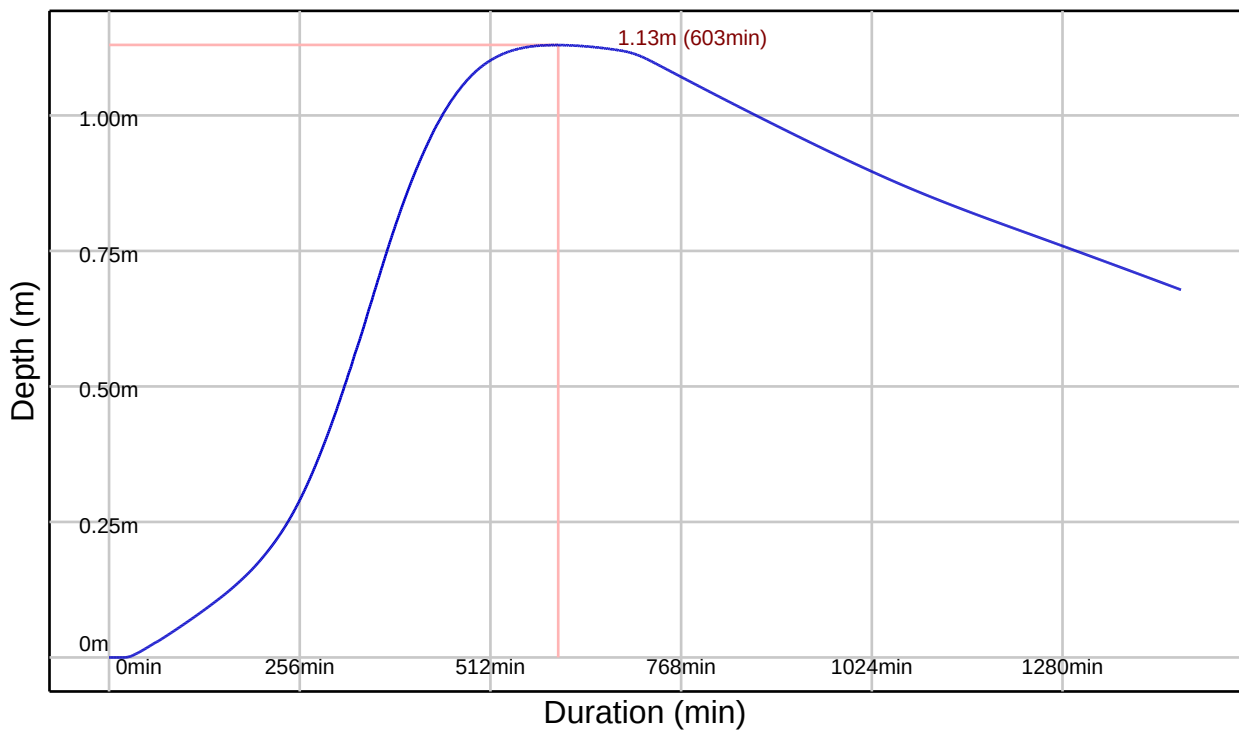
Pond Structure at Manhole SC40 HB

Pond Invert (m)	Max Depth (m)	Volume To Water Level (m3)	Water Level (m)	Freeboard (m)	Infil Base (m/hr)	Infil Side (m/hr)	Safety Factor
37.400	1.996	3391.493	39.096	0.300	0.00000000	0.00000000	2.00

Pond Depth/Area Diagram at SC40 HB



Pond 6 at SC40 HB (100Yr+45% 720Min Winter)



Simulation Settings

FSR: M5-60=20.00, R=0.40, Locale=England and Wales

Summer (Cv: 1.00), Winter (Cv: 1.00)

Global Time of Entry: 5.0 mins

Durations (mins): 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440

Return Periods (yrs) + Climate Change: (1, +0%), (100, +45%)

Manhole Flood Risk Freeboard: 0.300m

Simulated Rainfall Events

Storm	Average Intensity (mm/hr)	Runoff Continuity %	Flow Continuity %	Storm	Average Intensity (mm/hr)	Runoff Continuity %	Flow Continuity %
1Yr 15Min Winter	36.405	0.00	-0.16	100Yr+45% 15Min Summer	143.087	0.00	-0.51
1Yr 15Min Summer	36.405	0.00	-0.16	100Yr+45% 15Min Winter	143.087	0.00	-0.41
1Yr 30Min Winter	23.138	0.00	-0.13	100Yr+45% 30Min Summer	93.944	0.00	-0.17
1Yr 30Min Summer	23.138	0.00	-0.14	100Yr+45% 30Min Winter	93.944	0.00	-0.04
1Yr 60Min Winter	14.222	0.00	-0.11	100Yr+45% 60Min Summer	58.739	0.00	0.16
1Yr 60Min Summer	14.222	0.00	-0.11	100Yr+45% 60Min Winter	58.739	0.00	0.20
1Yr 120Min Winter	8.605	0.00	-0.08	100Yr+45% 120Min Summer	35.469	0.00	0.24
1Yr 120Min Summer	8.605	0.00	-0.08	100Yr+45% 120Min Winter	35.469	0.00	0.26
1Yr 180Min Summer	6.400	0.00	-0.08	100Yr+45% 180Min Summer	26.047	0.00	0.23
1Yr 180Min Winter	6.400	0.00	-0.07	100Yr+45% 180Min Winter	26.047	0.00	0.22
1Yr 240Min Summer	5.190	0.00	-0.07	100Yr+45% 240Min Summer	20.795	0.00	0.20
1Yr 240Min Winter	5.190	0.00	-0.06	100Yr+45% 240Min Winter	20.795	0.00	0.19
1Yr 360Min Summer	3.857	0.00	-0.05	100Yr+45% 360Min Summer	15.106	0.00	0.14
1Yr 360Min Winter	3.857	0.00	-0.05	100Yr+45% 360Min Winter	15.106	0.00	0.14
1Yr 480Min Winter	3.121	0.00	-0.04	100Yr+45% 480Min Summer	12.038	0.00	0.09
1Yr 480Min Summer	3.121	0.00	-0.04	100Yr+45% 480Min Winter	12.038	0.00	0.07
1Yr 600Min Summer	2.648	0.00	-0.03	100Yr+45% 600Min Summer	10.086	0.00	0.04
1Yr 600Min Winter	2.648	0.00	-0.03	100Yr+45% 600Min Winter	10.086	0.00	0.03
1Yr 720Min Summer	2.315	0.00	-0.03	100Yr+45% 720Min Summer	8.725	0.00	-0.01
1Yr 720Min Winter	2.315	0.00	-0.03	100Yr+45% 720Min Winter	8.725	0.00	-0.07
1Yr 960Min Winter	1.872	0.00	-0.02	100Yr+45% 960Min Summer	6.936	0.00	-0.08
1Yr 960Min Summer	1.872	0.00	-0.02	100Yr+45% 960Min Winter	6.936	0.00	-0.10
1Yr 1440Min Summer	1.389	0.00	-0.02	100Yr+45% 1440Min Winter	5.012	0.00	-0.14
1Yr 1440Min Winter	1.389	0.00	-0.02	100Yr+45% 1440Min Summer	5.012	0.00	-0.09

Simulation Results

Return Period (yrs) + Climate Change (%):

1yr+0%

Manholes

Manhole	Critical Storm	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Flood (m3)	Status
SC1	15 min Summer	8	43.400	0.080	19.648		OK
SC2	15 min Summer	8	43.060	0.103	39.905		OK
SC3	15 min Summer	8	43.111	0.075	17.557		OK
SC4	15 min Summer	8	42.229	0.174	88.950		OK
SC5	15 min Summer	8	42.785	0.092	29.793		OK
SC6	15 min Summer	8	42.376	0.096	33.713		OK
SC7	15 min Summer	9	41.753	0.201	144.544		OK
SC8	15 min Summer	8	42.470	0.116	30.748		OK
SC9	15 min Summer	8	42.303	0.133	46.181		OK
SC10	15 min Summer	8	42.073	0.087	47.526		OK
SC11	15 min Summer	9	41.419	0.233	194.039		OK
SC12	15 min Summer	9	41.215	0.207	208.658		OK
SC13	15 min Summer	8	41.203	0.088	21.872		OK
SC14	15 min Summer	9	40.735	0.239	243.930		OK
SC15	15 min Summer	9	40.495	0.207	253.610		OK
SC16	15 min Summer	8	40.748	0.071	14.467		OK
SC17	15 min Summer	8	40.600	0.080	19.787		OK
SC18	15 min Summer	9	39.939	0.251	274.826		OK
SC19	15 min Summer	9	39.781	0.212	301.286		OK
SC20	15 min Summer	8	40.160	0.091	30.084		OK
SC21	15 min Summer	9	39.159	0.278	331.012		OK
SC22	15 min Summer	8	40.402	0.099	32.254		OK
SC23	15 min Summer	8	40.182	0.087	25.286		OK
SC24	15 min Summer	8	39.445	0.125	81.465		OK
SC25	15 min Summer	9	39.033	0.276	423.341		OK
SC26	15 min Summer	9	38.664	0.285	423.532		OK
SC27	15 min Summer	8	42.154	0.093	16.424		OK
SC28	15 min Summer	8	41.974	0.099	26.022		OK
SC29	15 min Summer	8	41.546	0.087	36.852		OK
SC30	15 min Summer	8	41.174	0.051	12.177		OK
SC31	15 min Summer	9	40.555	0.128	48.254		OK
SC32	15 min Summer	9	40.091	0.150	65.955		OK
SC33	15 min Summer	9	39.793	0.128	89.071		OK
SC34	15 min Summer	9	38.427	0.368	523.819		OK
SC35	15 min Summer	9	38.295	0.376	526.178		OK
SC36	15 min Summer	9	38.230	0.389	540.979		OK
SC37	15 min Summer	10	38.007	0.418	557.765		OK
HW7	15 min Summer	10	37.836	0.505	572.407		OK
HW8	720 min Summer	480	37.704	0.404	13.052		OK
SC40 HB	720 min Summer	481	37.699	0.299	5.778		Surcharged
HW9	720 min Summer	481	36.785	0.062	15.562		Outfall

Conduits

Pipe No.	Critical Storm	Peak (mins)	US Manhole	DS Manhole	Flow Depth (m)	Max Velocity (m/s)	Max Flow (l/s)	Flow / Capacity	Status
1.000	15 min Summer	8	SC1	SC2	0.080	1.546	19.510	0.284	OK
1.001	15 min Summer	8	SC2	SC4	0.103	1.837	39.419	0.263	OK
2.000	15 min Summer	8	SC3	SC4	0.075	1.480	17.243	0.248	OK
1.002	15 min Summer	9	SC4	SC7	0.174	1.558	88.598	0.336	OK
3.000	15 min Summer	8	SC5	SC6	0.094	1.566	29.635	0.213	OK
3.001	15 min Summer	8	SC6	SC7	0.096	1.710	33.293	0.233	OK
1.003	15 min Summer	9	SC7	SC11	0.217	1.573	145.282	0.259	OK
4.000	15 min Summer	8	SC8	SC9	0.116	1.211	30.487	0.337	OK
4.001	15 min Summer	8	SC9	SC10	0.110	1.693	45.904	0.281	OK
4.002	15 min Summer	8	SC10	SC11	0.087	2.427	47.306	0.128	OK
1.004	15 min Summer	9	SC11	SC12	0.220	2.073	194.756	0.347	OK
1.005	15 min Summer	9	SC12	SC14	0.207	2.424	209.220	0.276	OK
5.000	15 min Summer	8	SC13	SC14	0.088	1.252	21.684	0.201	OK

Conduits

Pipe No.	Critical Storm	Peak (mins)	US Manhole	DS Manhole	Flow Depth (m)	Max Velocity (m/s)	Max Flow (l/s)	Flow / Capacity	Status
1.006	15 min Summer	9	SC14	SC15	0.223	2.213	243.831	0.242	OK
1.007	15 min Summer	9	SC15	SC18	0.229	2.212	252.830	0.180	OK
6.000	15 min Summer	8	SC16	SC17	0.075	1.036	14.390	0.130	OK
6.001	15 min Summer	9	SC17	SC18	0.080	1.294	19.417	0.162	OK
1.008	15 min Summer	9	SC18	SC19	0.232	2.354	273.429	0.272	OK
1.009	15 min Summer	9	SC19	SC21	0.245	2.389	300.055	0.189	OK
7.000	15 min Summer	8	SC20	SC21	0.091	1.638	29.622	0.208	OK
1.010	15 min Summer	9	SC21	SC25	0.277	2.231	330.965	0.329	OK
8.000	15 min Summer	8	SC22	SC24	0.098	1.571	31.672	0.241	OK
9.000	15 min Summer	8	SC23	SC24	0.087	1.473	24.966	0.190	OK
8.001	15 min Summer	9	SC24	SC25	0.125	1.894	80.753	0.102	OK
1.011	15 min Summer	9	SC25	SC26	0.281	2.806	423.532	0.314	OK
1.012	15 min Summer	9	SC26	SC34	0.327	2.334	425.095	0.316	OK
10.000	15 min Summer	8	SC27	SC28	0.093	1.052	16.263	0.377	OK
10.001	15 min Summer	8	SC28	SC29	0.093	1.392	25.820	0.235	OK
10.002	15 min Summer	9	SC29	SC31	0.087	2.158	36.532	0.190	OK
11.000	15 min Summer	8	SC30	SC31	0.051	1.808	12.118	0.119	OK
10.003	15 min Summer	9	SC31	SC32	0.139	1.163	48.498	0.185	OK
10.004	15 min Summer	9	SC32	SC33	0.139	1.582	66.090	0.249	OK
10.005	15 min Summer	9	SC33	SC34	0.128	2.367	88.211	0.185	OK
1.013	15 min Summer	9	SC34	SC35	0.372	2.446	523.432	0.517	OK
1.014	15 min Summer	9	SC35	SC36	0.382	2.381	523.274	0.518	OK
1.015	15 min Summer	10	SC36	SC37	0.403	2.271	541.624	0.538	OK
1.016	15 min Summer	10	SC37	HW7	0.461	2.007	572.407	0.568	OK
1.017	15 min Summer	10	HW7	HW8	0.450	2.113	585.138	1.713	OK
1.018	720 min Summer	480	HW8	SC40 HB	0.351	0.492	66.815	0.066	OK
1.019	720 min Summer	481	SC40 HB	HW9	0.062	1.763	15.562	0.190	OK

Return Period (yrs) + Climate Change (%):

100yr+45%

Manholes

Manhole	Critical Storm	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Flood (m3)	Status
SC1	15 min Summer	8	43.523	0.203	77.241		OK
SC2	15 min Summer	9	43.229	0.272	151.397		OK
SC3	15 min Summer	9	43.219	0.183	66.079		OK
SC4	15 min Summer	9	42.620	0.565	340.887		Surcharged
SC5	15 min Summer	8	42.896	0.203	117.122		OK
SC6	15 min Summer	8	42.498	0.218	132.681		OK
SC7	15 min Summer	9	42.034	0.482	560.091		OK
SC8	15 min Summer	8	42.679	0.325	120.880		Surcharged
SC9	15 min Summer	8	42.485	0.315	181.796		OK
SC10	15 min Summer	8	42.166	0.180	187.032		OK
SC11	15 min Summer	9	41.742	0.556	752.368		OK
SC12	15 min Summer	9	41.492	0.484	809.668		OK
SC13	15 min Summer	8	41.307	0.192	85.985		OK
SC14	15 min Summer	10	41.060	0.564	884.586		OK
SC15	15 min Summer	11	40.943	0.655	753.109		OK
SC16	15 min Summer	11	40.896	0.219	26.617		OK
SC17	15 min Summer	11	40.882	0.362	35.788		Surcharged
SC18	15 min Summer	11	40.831	1.143	849.376		Surcharged
SC19	15 min Summer	11	40.765	1.196	920.475		Surcharged
SC20	15 min Summer	10	40.776	0.707	94.029		Surcharged
SC21	15 min Summer	11	40.563	1.682	1005.745		Surcharged
SC22	15 min Summer	10	40.768	0.465	100.808		Surcharged
SC23	15 min Summer	10	40.577	0.482	79.030		Surcharged
SC24	15 min Summer	11	40.472	1.152	176.362		Surcharged
SC25	15 min Summer	11	40.462	1.705	1231.649		Surcharged
SC26	15 min Summer	11	40.198	1.819	1245.582		Surcharged
SC27	15 min Summer	8	42.365	0.304	64.565		Surcharged
SC28	15 min Summer	8	42.096	0.221	102.091		OK
SC29	15 min Summer	8	41.647	0.188	144.725		OK
SC30	15 min Summer	8	41.227	0.104	47.871		OK
SC31	15 min Summer	8	40.704	0.277	191.116		OK
SC32	15 min Summer	11	40.397	0.456	164.484		Surcharged
SC33	15 min Summer	11	40.280	0.616	235.583		Surcharged
SC34	15 min Summer	11	39.970	1.911	1518.611		Surcharged
SC35	15 min Summer	11	39.715	1.796	1527.709		Surcharged
SC36	15 min Summer	11	39.580	1.739	1563.164		Surcharged
SC37	15 min Summer	11	39.068	1.479	1602.546		Surcharged
HW7	600 min Winter	445	38.574	1.243	69.859		Flood Risk
HW8	720 min Winter	589	38.533	1.233	46.633		Flood Risk
SC40 HB	720 min Winter	598	38.530	1.130	25.563		Surcharged
HW9	720 min Winter	598	36.807	0.084	28.229		Outfall

Conduits

Pipe No.	Critical Storm	Peak (mins)	US Manhole	DS Manhole	Flow Depth (m)	Max Velocity (m/s)	Max Flow (l/s)	Flow / Capacity	Status
1.000	15 min Summer	8	SC1	SC2	0.208	2.072	76.501	1.113	OK
1.001	15 min Summer	9	SC2	SC4	0.286	2.323	153.101	1.022	OK
2.000	15 min Summer	9	SC3	SC4	0.204	1.896	67.294	0.969	OK
1.002	15 min Summer	9	SC4	SC7	0.425	2.190	340.556	1.292	OK
3.000	15 min Summer	8	SC5	SC6	0.211	2.201	116.648	0.839	OK
3.001	15 min Summer	8	SC6	SC7	0.217	2.400	131.268	0.918	OK
1.003	15 min Summer	9	SC7	SC11	0.519	2.165	562.306	1.002	OK
4.000	15 min Summer	8	SC8	SC9	0.282	1.741	120.097	1.328	OK
4.001	15 min Summer	8	SC9	SC10	0.248	2.344	180.655	1.107	OK
4.002	15 min Summer	9	SC10	SC11	0.255	3.125	186.352	0.503	OK
1.004	15 min Summer	9	SC11	SC12	0.520	2.901	755.035	1.344	OK
1.005	15 min Summer	9	SC12	SC14	0.484	3.335	807.207	1.065	OK
5.000	15 min Summer	8	SC13	SC14	0.192	1.787	85.396	0.792	OK
1.006	15 min Summer	10	SC14	SC15	0.601	3.041	943.733	0.936	OK
1.007	15 min Summer	11	SC15	SC18	0.703	3.007	949.530	0.675	OK
6.000	15 min Summer	11	SC16	SC17	0.260	1.482	56.679	0.513	OK
6.001	15 min Summer	10	SC17	SC18	0.300	1.867	76.971	0.641	Surcharged

Conduits

Pipe No.	Critical Storm	Peak (mins)	US Manhole	DS Manhole	Flow Depth (m)	Max Velocity (m/s)	Max Flow (l/s)	Flow / Capacity	Status
1.008	15 min Winter	10	SC18	SC19	0.750	3.001	920.276	0.914	Surcharged
1.009	30 min Summer	17	SC19	SC21	0.750	2.843	962.480	0.607	Surcharged
7.000	30 min Summer	17	SC20	SC21	0.300	2.174	101.797	0.713	Surcharged
1.010	30 min Summer	16	SC21	SC25	0.750	2.540	998.863	0.992	Surcharged
8.000	15 min Summer	9	SC22	SC24	0.300	2.183	125.042	0.953	Surcharged
9.000	15 min Winter	11	SC23	SC24	0.300	2.071	91.172	0.695	Surcharged
8.001	30 min Summer	16	SC24	SC25	0.600	2.024	277.243	0.351	Surcharged
1.011	15 min Winter	11	SC25	SC26	0.750	3.043	1202.602	0.893	Surcharged
1.012	15 min Winter	11	SC26	SC34	0.750	2.728	1205.408	0.896	Surcharged
10.000	15 min Summer	8	SC27	SC28	0.214	1.632	63.725	1.477	OK
10.001	15 min Summer	8	SC28	SC29	0.205	1.976	101.357	0.923	OK
10.002	15 min Summer	8	SC29	SC31	0.188	3.086	143.403	0.748	OK
11.000	15 min Summer	8	SC30	SC31	0.104	2.649	47.713	0.468	OK
10.003	15 min Summer	10	SC31	SC32	0.351	1.642	191.242	0.729	OK
10.004	15 min Summer	11	SC32	SC33	0.450	2.117	257.948	0.973	OK
10.005	15 min Winter	10	SC33	SC34	0.450	2.561	298.118	0.626	OK
1.013	15 min Winter	11	SC34	SC35	0.750	3.338	1474.660	1.457	Surcharged
1.014	15 min Winter	11	SC35	SC36	0.750	3.351	1480.388	1.466	Surcharged
1.015	15 min Winter	11	SC36	SC37	0.750	3.438	1518.693	1.507	Surcharged
1.016	15 min Winter	11	SC37	HW7	0.750	3.528	1558.591	1.547	Surcharged
1.017	30 min Winter	23	HW7	HW8	0.750	3.369	1399.038	4.095	Surcharged
1.018	60 min Winter	44	HW8	SC40 HB	0.750	4.029	1007.467	1.000	Surcharged
1.019	720 min Winter	598	SC40 HB	HW9	0.084	2.084	28.229	0.345	OK