

Network Details

Manhole Schedule

Manhole	Catchment Area (ha)	Size (mm)	Type	CL (m)	IL (m)	Depth To Soffit (m)	Easting (m)	Northing (m)
S1	0.128	1350	Type C	122.908	121.400	1.283	442714.321	296258.794
S2	0.149	1350	Type C	122.266	120.745	1.221	442754.065	296291.326
S3	0.122	1350	Type C	121.764	120.312	1.227	442809.135	296309.191
S4	0.296	1350	Type C	121.630	120.000	1.255	442795.820	296325.675
S5	0.210	1350	Type C	120.869	119.270	1.224	442853.250	296373.494
S6	0.131	1350	Type C	120.552	118.885	1.217	442881.088	296389.899
S7	0.083	1350	Type C	120.224	118.415	1.359	442913.733	296394.225
S8	0.121	1500	Type C	119.866	118.090	1.251	442917.382	296423.207
S9	0.327	1350	Type C	119.435	117.775	1.060	442932.128	296464.597
S10	0.044	1500	Type C	119.020	117.455	0.965	442989.051	296455.047
S11	0.181	1350	Type C	123.389	121.970	1.194	442835.256	296210.986
S12	0.086	1350	Type C	123.289	121.820	1.244	442779.778	296231.440
S13	0.134	1350	Type C	123.004	121.395	1.309	442803.282	296250.419
S14	0.146	1350	Type C	122.134	120.530	1.229	442842.793	296282.868
S15	0.193	1350	Type C	121.835	120.359	1.176	442905.116	296260.631
S16	0.093	1350	Type C	121.726	119.845	1.431	442868.562	296304.574
S17	0.105	1350	Type C	121.351	119.515	1.386	442887.971	296320.117
S18	0.162	1350	Type C	120.652	118.885	1.317	442931.188	296329.289
S19	0.259	1350	Type C	120.363	118.705	1.208	442947.573	296339.281
HD01	0.000	1350	Type C	120.690	119.265	1.200	442986.592	296316.443
HD02	0.000	1350	Type C	120.630	119.170	1.235	442988.624	296331.940
HD03	0.000	1350	Type C	120.605	119.025	1.355	443000.288	296350.187
HD04	0.079	1350	Type C	119.670	118.245	1.200	443018.907	296392.474
HD05	0.000	1200	Type B	120.064	118.115	1.724	443005.471	296376.334
HD06	0.051	1200	Type B	120.400	117.805	2.370	442986.353	296361.474
HD 07	0.085	1350	Type C	119.545	118.120	1.200	442939.536	296386.557
S20	0.109	1500	Type B	120.050	117.395	2.130	442971.226	296370.897
S21	0.000	1500	Type B	120.135	117.315	2.295	442982.489	296394.623
S22	0.000	---	Type C	118.690	117.200	0.965	442999.495	296422.484
S23	0.000	---	Type C	118.690	117.100	0.840	443003.184	296447.570
S24	0.000	---	Type C	118.500	117.006	0.744	443004.765	296460.692
S25	0.000	1800	Type C	118.500	116.999	0.601	443005.819	296467.438
S26	0.000	1800	Type C	118.500	116.937	0.663	443007.453	296485.910
S27	0.000	1800	Type C	118.500	116.900	0.700	443001.708	296506.464
S28	0.000	2100	Type C	118.500	116.870	1.180	442991.379	296517.109
S29	0.000	---	Type C	117.800	115.810	1.540	442976.569	296530.229
S30	0.153	1350	Type C	122.393	120.890	1.278	442689.173	296328.741
S31	0.036	1350	Type C	121.934	120.460	1.249	442719.504	296339.090
S32	0.180	1350	Type C	121.282	119.745	1.237	442755.689	296368.065
S33	0.026	1350	Type C	121.117	119.595	1.222	442759.251	296377.613
S34	0.163	1350	Type C	120.471	118.880	1.216	442794.356	296406.819
S35	0.000	1350	Type C	120.267	118.650	1.242	442805.825	296415.935
S36	0.149	1350	Type C	120.090	118.435	1.205	442818.364	296418.821
S37	0.038	1350	Type C	120.256	118.780	1.251	442835.833	296396.018
S38	0.000	1350	Type C	119.997	118.315	1.232	442829.827	296412.289
S39	0.000	1350	Type C	119.867	118.117	1.301	442847.930	296440.011
S40	0.306	1350	Type C	119.834	117.995	1.389	442857.858	296456.738
S41	0.102	1350	Type B	118.881	116.697	1.734	442890.042	296498.149
S42	0.088	1350	Type B	118.597	116.596	1.551	442872.122	296511.987
S43	0.048	1500	Type C	118.262	116.270	1.467	442889.237	296534.807
S44	0.218	1500	Type C	117.909	116.070	1.314	442904.545	296553.956
S45	0.000	---	Unknown	117.800	115.890	1.385	442912.453	296566.947
S46	0.000	---	Type B	117.800	115.510	1.615	442903.451	296574.209
S47	0.000	3000	Type C	116.774	115.258	0.841	442897.863	296583.951
S48	0.000	1500	Type C	116.671	114.960	1.036	442895.164	296590.435
S49	0.000	1500	Type C	116.304	114.875	0.754	442859.421	296599.162
S50	0.000	---	Type B	116.300	114.826	0.799	442836.888	296590.619
S51	0.018	1350	Type C	121.809	120.384	1.200	442709.900	296352.628
S52	0.070	1350	Type C	121.525	120.100	1.200	442697.054	296367.884
S53	0.093	1350	Type C	121.105	119.625	1.255	442675.657	296387.055
S54	0.093	1350	Type C	120.471	118.921	1.250	442713.095	296425.580
S55	0.167	1350	Type C	120.232	118.745	1.262	442777.550	296427.330
S56	0.138	1350	Type C	119.722	118.085	1.262	442744.654	296458.037
S57	0.000	1350	Type B	118.932	117.023	1.534	442778.050	296497.351

Manhole Schedule

Manhole	Catchment Area (ha)	Size (mm)	Type	CL (m)	IL (m)	Depth To Soffit (m)	Easting (m)	Northing (m)
S58	0.079	1350	Type C	118.209	116.750	1.234	442856.446	296524.613
S59	0.294	1350	Type C	117.180	115.396	1.409	442823.667	296549.564
S60	0.000	---	Type B	116.300	114.940	0.685	442817.969	296562.779
S61	0.000	---	Unknown	116.300	114.800	1.275	442823.703	296591.404
S62	0.000	3000	Type B	116.300	114.520	1.555	442820.162	296598.370
S63	0.000	1350	Type C	115.004	114.330	0.449	442812.214	296614.112

Pipe Schedule

Pipe Number	US Manhole	US IL (m)	DS Manhole	DS IL (m)	Shape	Dimension (mm)	Length (m)	Gradient (1:x)	Roughness (mm)	US Depth To Soffit (m)	DS Depth To Soffit (m)
1.000	S1	121.400	S2	120.820	Circ	225	51.360	89	0.600	1.283	1.221
1.001	S2	120.745	S4	120.075	Circ	300	54.068	81	0.600	1.221	1.255
2.000	S3	120.312	S4	120.150	Circ	225	21.189	131	0.600	1.227	1.255
1.002	S4	120.000	S5	119.270	Circ	375	74.732	102	0.600	1.255	1.224
1.003	S5	119.270	S6	118.960	Circ	375	32.312	104	0.600	1.224	1.217
1.004	S6	118.885	S7	118.415	Circ	450	32.930	70	0.600	1.217	1.359
1.005	S7	118.415	S8	118.165	Circ	450	29.211	117	0.600	1.359	1.251
1.006	S8	118.090	S9	117.850	Circ	525	43.938	183	0.600	1.251	1.060
1.007	S9	117.775	S10	117.455	Circ	600	57.719	180	0.600	1.060	0.965
1.008	S10	117.455	S25	117.340	Circ	600	20.850	181	0.600	0.965	0.560
3.000	S11	121.970	S13	121.470	Circ	225	50.767	102	0.600	1.194	1.309
4.000	S12	121.820	S13	121.470	Circ	225	30.210	86	0.600	1.244	1.309
3.001	S13	121.395	S14	120.605	Circ	300	51.127	65	0.600	1.309	1.229
3.002	S14	120.530	S16	119.920	Circ	375	33.693	55	0.600	1.229	1.431
5.000	S15	120.359	S16	119.995	Circ	300	57.160	157	0.600	1.176	1.431
3.003	S16	119.845	S17	119.515	Circ	450	24.866	75	0.600	1.431	1.386
3.004	S17	119.515	S18	118.885	Circ	450	44.180	70	0.600	1.386	1.317
3.005	S18	118.885	S19	118.705	Circ	450	19.191	107	0.600	1.317	1.208
3.006	S19	118.705	S20	117.470	Circ	450	39.485	32	0.600	1.208	2.130
6.000	HD01	119.265	HD02	119.245	Circ	225	15.629	781	0.600	1.200	1.160
6.001	HD02	119.170	HD03	119.025	Circ	225	21.657	149	0.600	1.235	1.355
6.002	HD03	119.025	HD06	117.805	Circ	225	17.933	15	0.600	1.355	2.370
7.000	HD04	118.245	HD05	118.115	Circ	225	21.001	162	0.600	1.200	1.724
7.001	HD05	118.115	HD06	117.805	Circ	225	24.214	78	0.600	1.724	2.370
6.003	HD06	117.805	S20	117.695	Circ	225	17.822	162	0.600	2.370	2.130
8.000	HD 07	118.120	S20	117.695	Circ	225	35.348	83	0.600	1.200	2.130
3.007	S20	117.395	S21	117.315	Circ	525	26.264	330	0.600	2.130	2.295
3.008	S21	117.315	S22	117.200	Circ	525	32.641	283	0.600	2.295	0.965
3.009	S22	117.200	S23	117.100	Circ	900	25.356	254	0.600	0.590	0.690
3.010	S23	117.100	S24	117.006	Circ	750	13.218	140	0.600	0.840	0.744
3.011	S24	117.006	S25	116.999	Circ	900	6.828	948	0.600	0.594	0.601
1.009	S25	116.999	S26	116.937	Circ	900	18.544	303	0.600	0.601	0.663
1.010	S26	116.937	S27	116.900	Circ	900	21.341	569	0.600	0.663	0.700
1.011	S27	116.900	S28	116.870	Circ	900	14.833	497	0.600	0.700	0.730
1.012	S28	116.870	S29	115.810	Circ	450	19.784	19	0.600	1.180	1.540
1.013	S29	115.810	S46	115.510	Circ	675	85.326	284	0.600	1.315	1.615
9.000	S30	120.890	S31	120.460	Circ	225	32.048	75	0.600	1.278	1.249
9.001	S31	120.460	S32	119.820	Circ	225	46.356	72	0.600	1.249	1.237
9.002	S32	119.745	S33	119.595	Circ	300	10.191	68	0.600	1.237	1.222
9.003	S33	119.595	S34	118.955	Circ	300	45.666	71	0.600	1.222	1.216
9.004	S34	118.880	S35	118.650	Circ	375	14.651	64	0.600	1.216	1.242
9.005	S35	118.650	S36	118.510	Circ	375	12.867	92	0.600	1.242	1.205
9.006	S36	118.435	S38	118.315	Circ	450	13.193	110	0.600	1.205	1.232
10.000	S37	118.780	S38	118.540	Circ	225	17.344	72	0.600	1.251	1.232
9.007	S38	118.315	S39	118.117	Circ	450	33.110	167	0.600	1.232	1.301
9.008	S39	118.117	S40	117.995	Circ	450	19.451	160	0.600	1.301	1.389
9.009	S40	117.995	S41	116.697	Circ	450	52.447	40	0.600	1.389	1.734
9.010	S41	116.697	S42	116.596	Circ	450	22.641	224	0.600	1.734	1.551
9.011	S42	116.596	S43	116.345	Circ	450	28.525	114	0.600	1.551	1.467
9.012	S43	116.270	S44	116.070	Circ	525	24.515	123	0.600	1.467	1.314
9.013	S44	116.070	S45	115.890	Circ	525	15.209	84	0.600	1.314	1.385
9.014	S45	115.890	S46	115.660	Circ	525	11.566	50	0.600	1.385	1.615
1.014	S46	115.510	S47	115.258	Circ	675	11.230	45	0.600	1.615	0.841
1.015	S47	115.258	S48	114.960	Circ	675	7.024	24	0.600	0.841	1.036
1.016	S48	114.960	S49	114.875	Circ	675	36.793	431	0.600	1.036	0.754

Pipe Schedule

Pipe Number	US Manhole	US IL (m)	DS Manhole	DS IL (m)	Shape	Dimension (mm)	Length (m)	Gradient (1:x)	Roughness (mm)	US Depth To Soffit (m)	DS Depth To Soffit (m)
1.017	S49	114.875	S50	114.826	Circ	675	24.098	500	0.600	0.754	0.799
1.018	S50	114.826	S61	114.800	Circ	675	13.208	500	0.600	0.799	0.825
11.000	S51	120.384	S52	120.100	Circ	225	19.944	70	0.600	1.200	1.200
11.001	S52	120.100	S53	119.625	Circ	225	28.729	60	0.600	1.200	1.255
11.002	S53	119.625	S54	118.996	Circ	225	53.719	85	0.600	1.255	1.250
11.003	S54	118.921	S56	118.160	Circ	300	45.271	59	0.600	1.250	1.262
12.000	S55	118.745	S56	118.235	Circ	225	45.001	88	0.600	1.262	1.262
11.004	S56	118.085	S57	117.023	Circ	375	51.584	49	0.600	1.262	1.534
11.005	S57	117.023	S59	115.396	Circ	375	69.333	43	0.600	1.534	1.409
13.000	S58	116.750	S59	115.546	Circ	225	41.195	34	0.600	1.234	1.409
11.006	S59	115.396	S60	115.240	Circ	375	14.392	92	0.600	1.409	0.685
11.007	S60	114.940	S61	114.800	Circ	675	29.193	209	0.600	0.685	0.825
1.019	S61	114.800	S62	114.520	Circ	225	7.815	28	0.600	1.275	1.555
1.020	S62	114.520	S63	114.330	Circ	225	17.635	93	0.600	1.555	0.449

Outfall Details

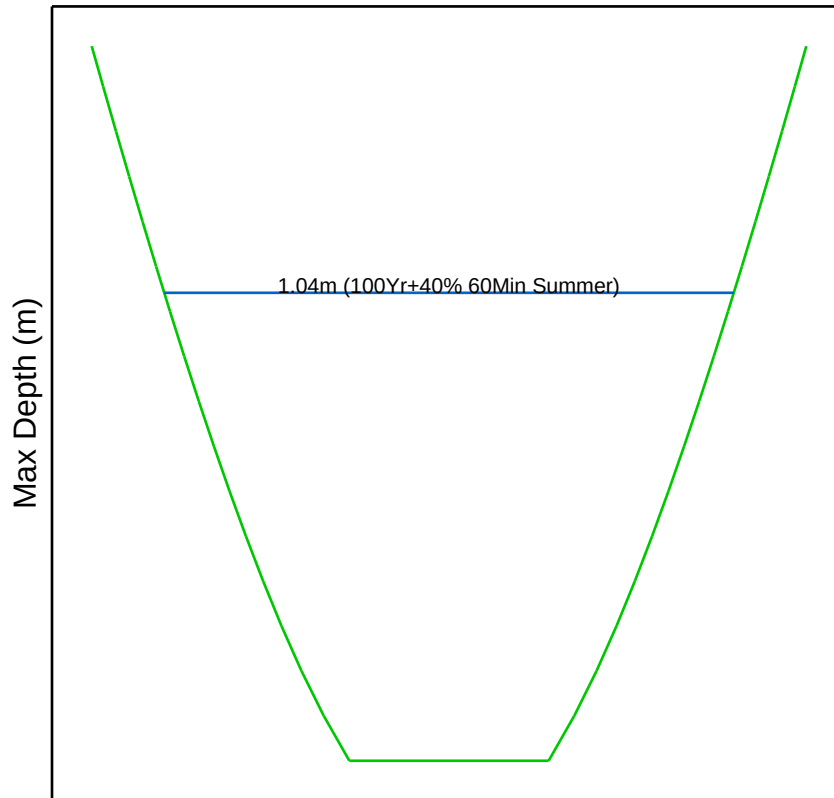
Outfall Manhole S63 : Free Discharge

Flow Control Details

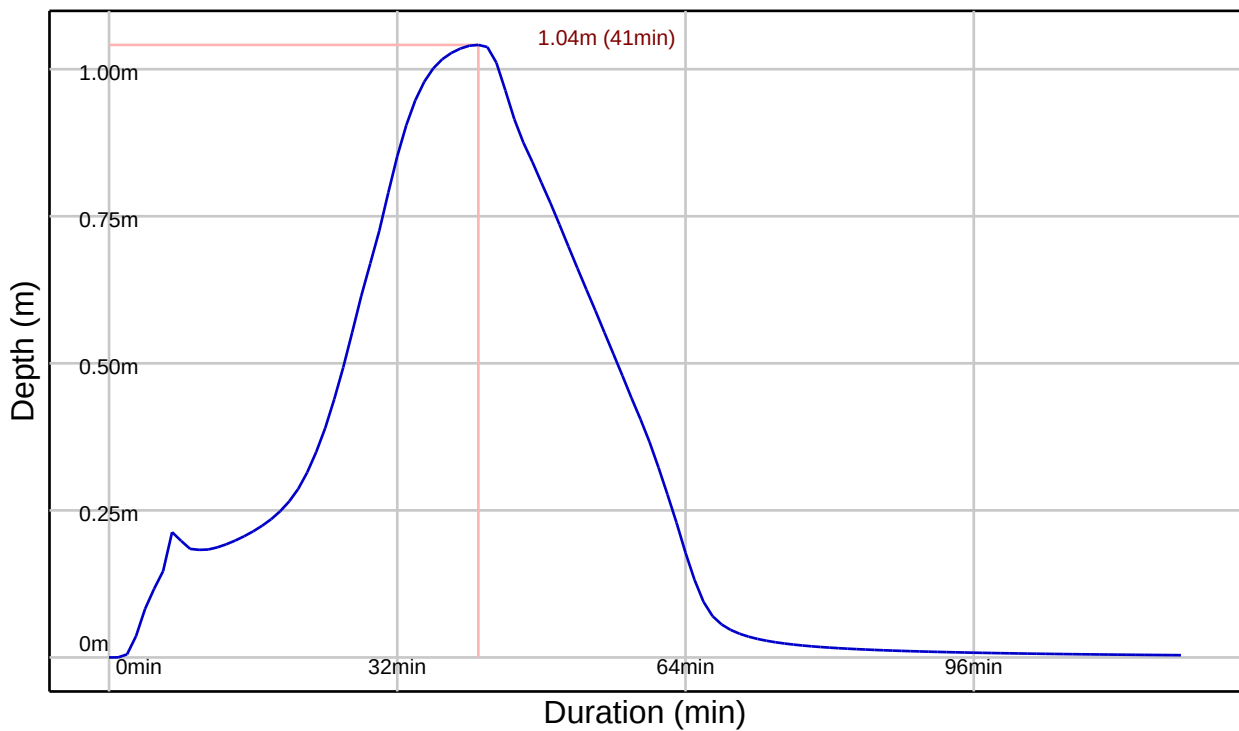
Pond Structure at Manhole S23

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
117.100	1.590	187.057	118.390	0.300	0.00000000	0.00000000	2.00

Pond Depth/Area Diagram at S23



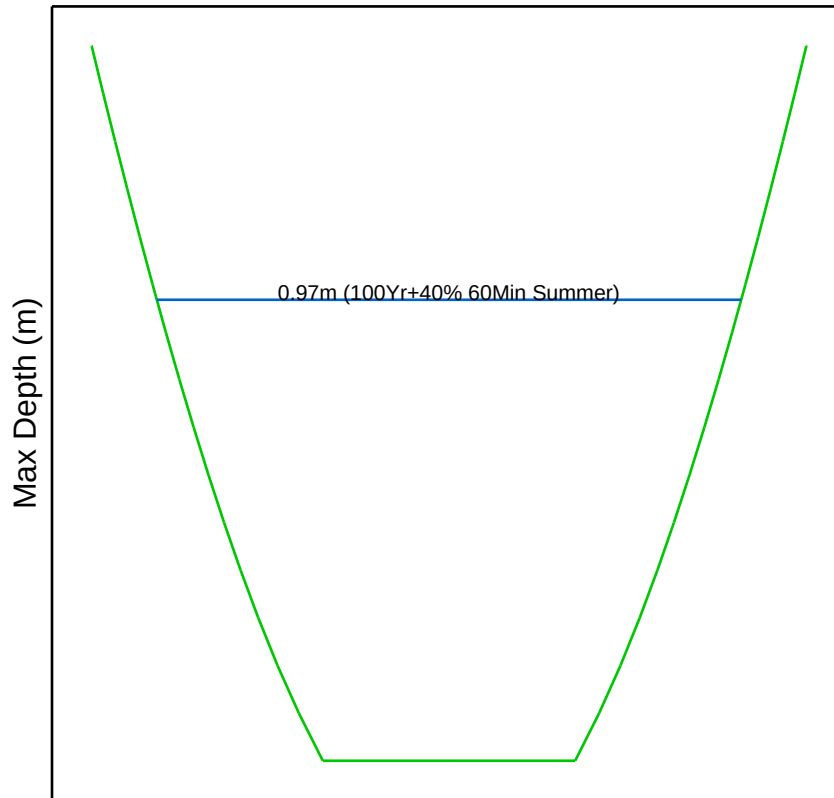
Pond 6 at S23 (100Yr+40% 60Min Summer)



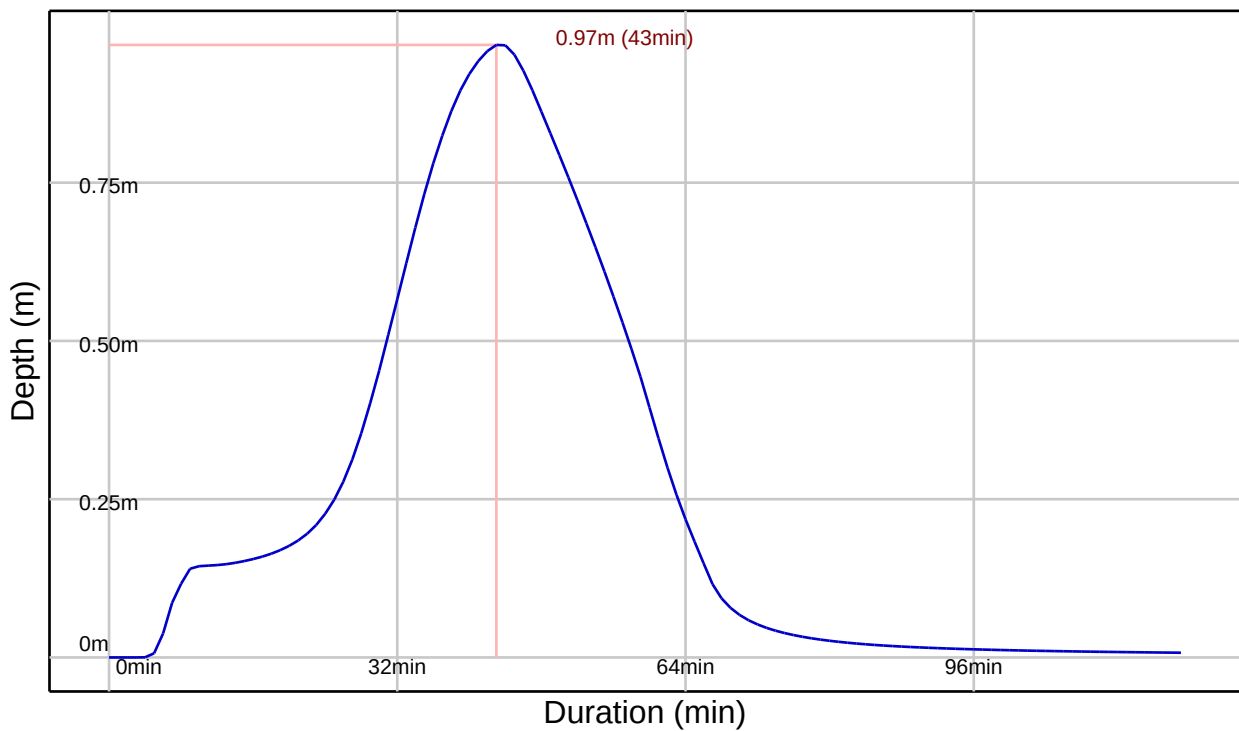
Pond Structure at Manhole S28

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
117.000	1.500	398.995	118.200	0.300	0.00000000	0.00000000	2.00

Pond Depth/Area Diagram at S28



Pond 5 at S28 (100Yr+40% 60Min Summer)

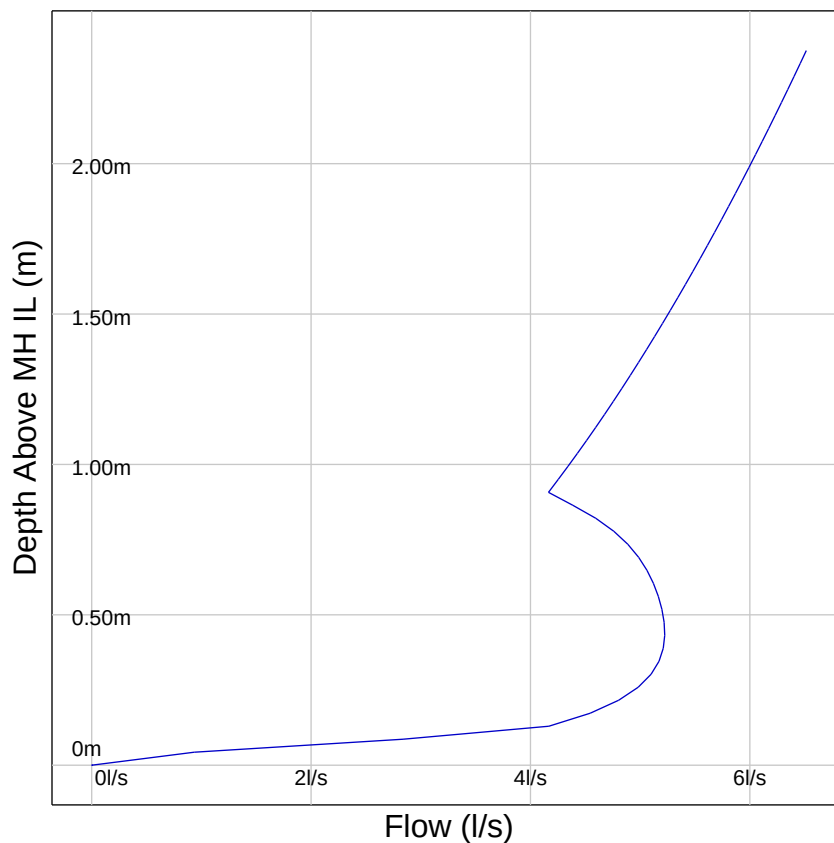


Controls within Manhole S46

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-0101-6000-2000-6000	2.000	6.000	0.000	0.439	5.224	0.902	4.152

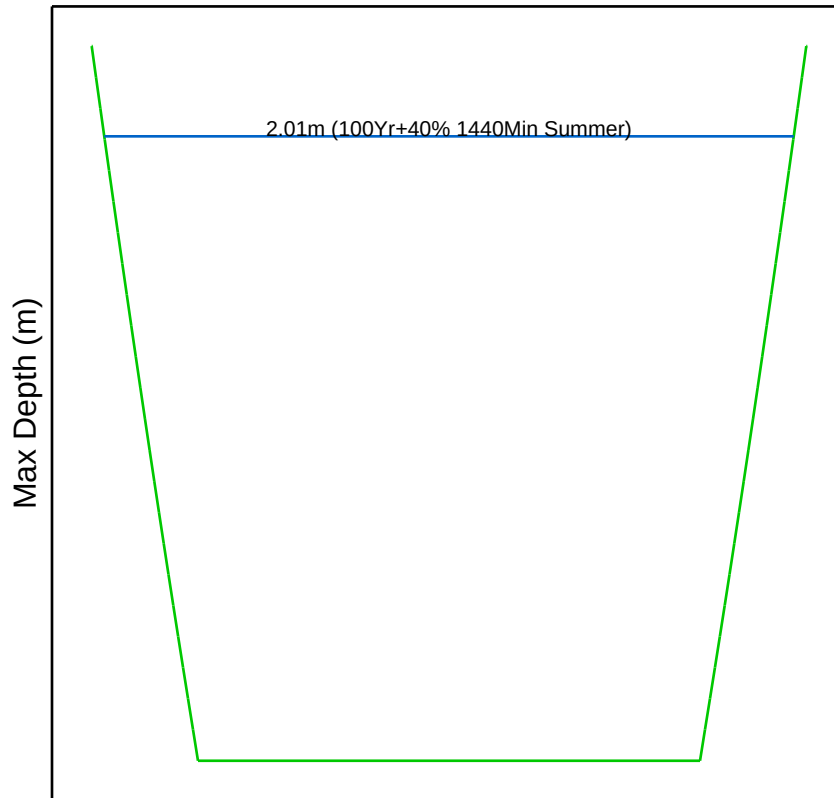
Hydro-Brake® Optimum Control from S46 to S47



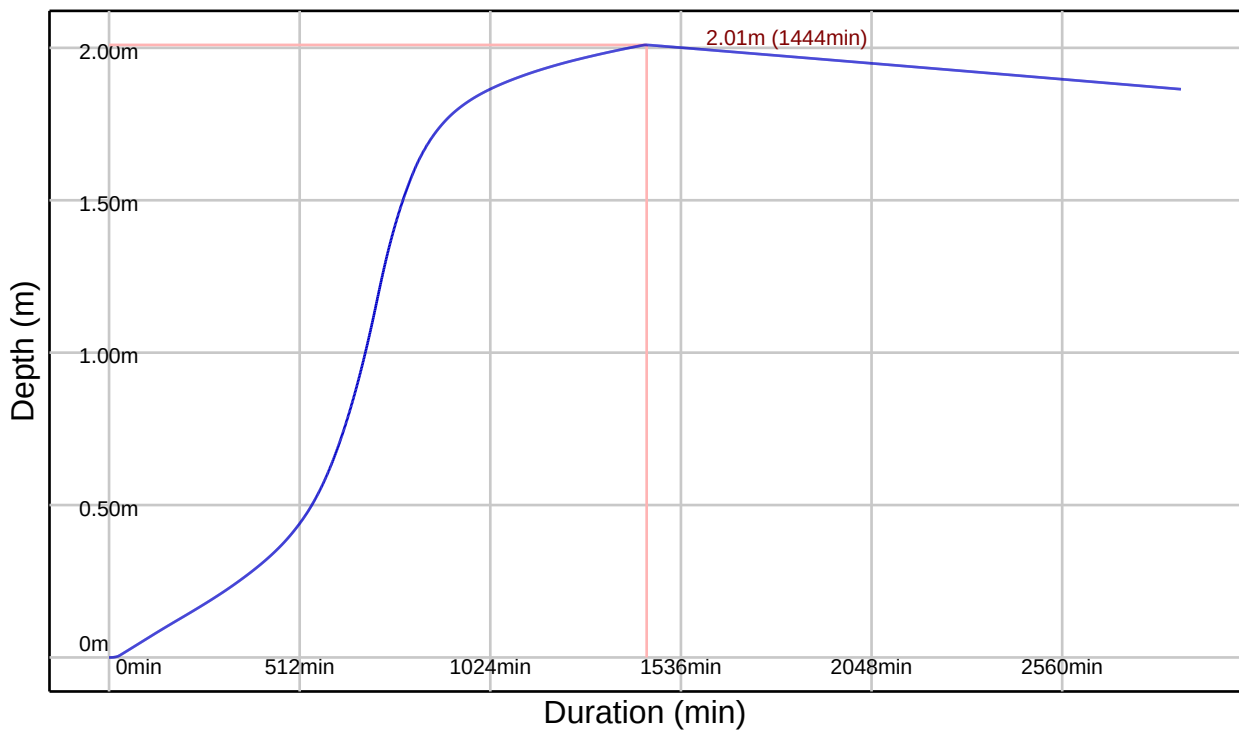
Pond Structure at Manhole S46

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
115.500	2.300	4534.000	117.500	0.300	0.00000000	0.00000000	2.00

Pond Depth/Area Diagram at S46



Pond 3 at S46 (100Yr+40% 1440Min Summer)

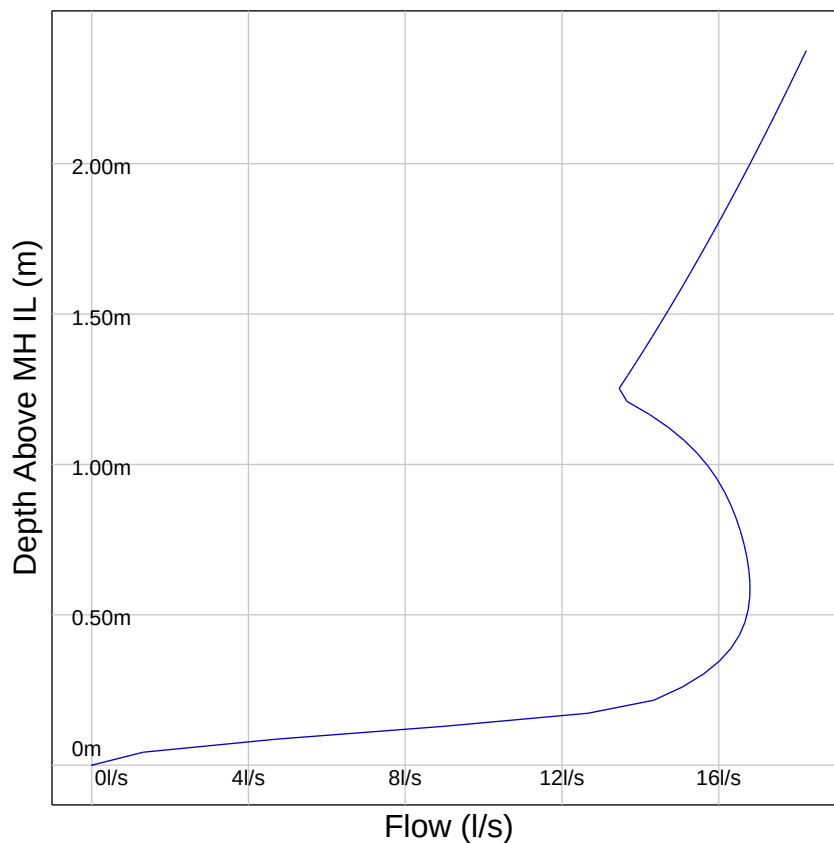


Controls within Manhole S61

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-0169-1680-2000-1680	2.000	16.800	0.000	0.587	16.800	1.229	13.339

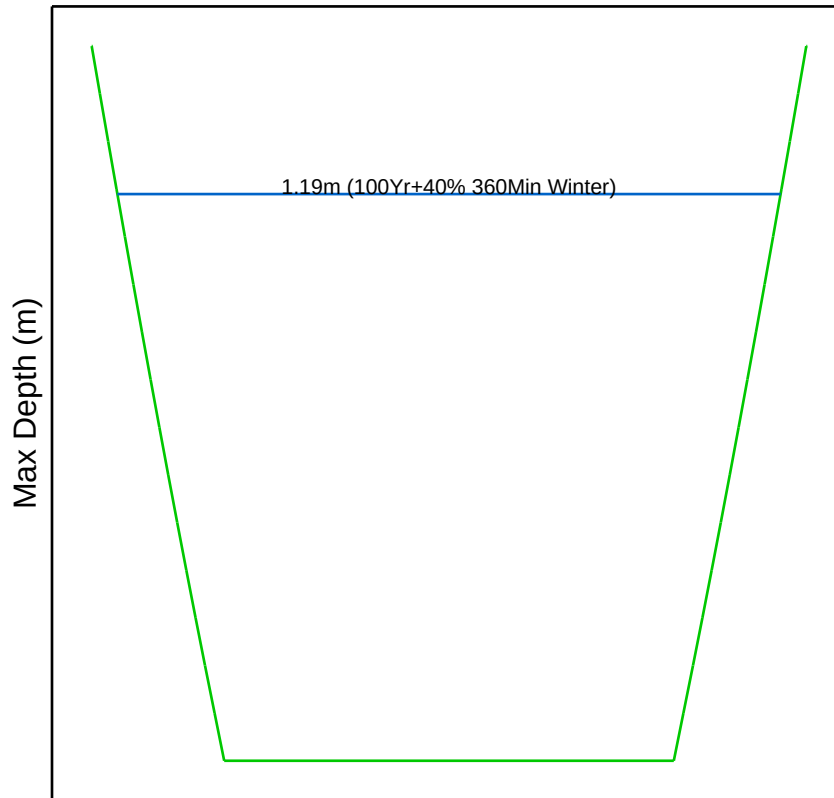
Hydro-Brake® Optimum Control from S61 to S62



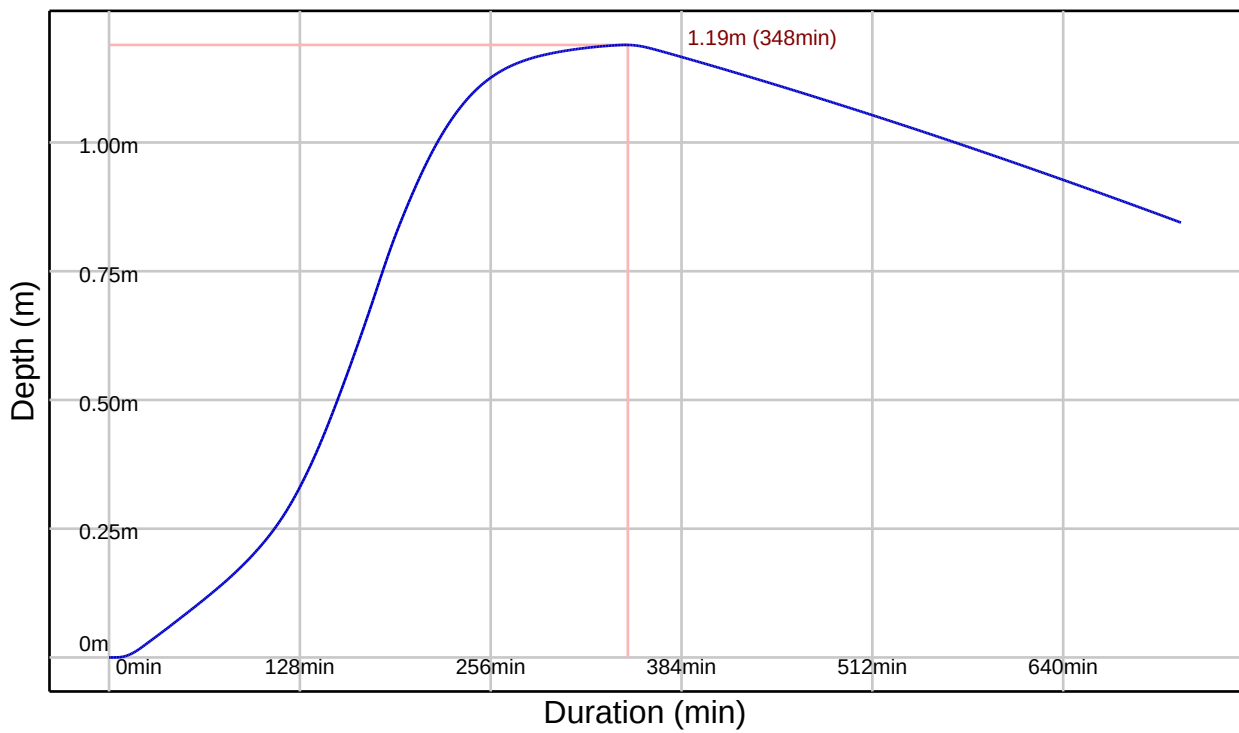
Pond Structure at Manhole S61

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
114.800	1.500	577.684	116.000	0.300	0.00000000	0.00000000	2.00

Pond Depth/Area Diagram at S61



Pond 2 at S61 (100Yr+40% 360Min Winter)



Simulation Settings

FEH2022 (point): Filename=FEH_Point_Descriptors_442861_296095_v5_1_0.xml

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

Global Time of Entry: 5.0 mins

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

Return Periods (yrs) + Climate Change: (100, +40%)

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 %
100Yr+40% 60Min Winter	53.806	0.00	0.58	100Yr+40% 480Min Summer	11.426	0.00	0.71
100Yr+40% 60Min Summer	53.806	0.00	0.58	100Yr+40% 480Min Winter	11.426	0.00	0.70
100Yr+40% 120Min Winter	32.943	0.00	0.66	100Yr+40% 600Min Summer	9.514	0.00	0.70
100Yr+40% 120Min Summer	32.943	0.00	0.69	100Yr+40% 600Min Winter	9.514	0.00	0.69
100Yr+40% 180Min Winter	24.503	0.00	0.75	100Yr+40% 720Min Summer	8.166	0.00	0.69
100Yr+40% 180Min Summer	24.503	0.00	0.74	100Yr+40% 720Min Winter	8.166	0.00	0.68
100Yr+40% 240Min Winter	19.707	0.00	0.76	100Yr+40% 960Min Summer	6.409	0.00	0.66
100Yr+40% 240Min Summer	19.707	0.00	0.76	100Yr+40% 960Min Winter	6.409	0.00	0.66
100Yr+40% 360Min Winter	14.374	0.00	0.74	100Yr+40% 1440Min Winter	4.554	0.00	0.61
100Yr+40% 360Min Summer	14.374	0.00	0.74	100Yr+40% 1440Min Summer	4.554	0.00	0.63

Simulation Results

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

100yr+40%

Manholes

Manhole	Critical Storm	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Flood (m3)	Status
S1	60 min Summer	33	122.739	1.339	55.156		Flood Risk
S2	60 min Summer	33	122.216	1.471	117.092		Flood Risk
S3	60 min Summer	32	121.764	1.452	58.764	2.996	Flood
S4	60 min Summer	32	121.630	1.630	291.717	11.593	Flood
S5	60 min Summer	33	120.762	1.492	308.123		Flood Risk
S6	60 min Summer	33	119.951	1.066	365.803		Surcharged
S7	60 min Summer	33	119.499	1.084	400.776		Surcharged
S8	60 min Summer	33	119.012	0.922	451.386		Surcharged
S9	60 min Summer	34	118.615	0.840	566.961		Surcharged
S10	60 min Summer	36	118.230	0.775	530.515		Surcharged
S11	60 min Summer	32	123.389	1.419	87.273	1.161	Flood
S12	60 min Summer	34	122.648	0.828	32.134		Surcharged
S13	60 min Summer	34	122.534	1.139	149.631		Surcharged
S14	60 min Summer	34	121.628	1.098	202.251		Surcharged
S15	60 min Summer	34	121.514	1.155	71.734		Surcharged
S16	60 min Summer	34	121.274	1.429	308.340		Surcharged
S17	60 min Summer	34	121.021	1.506	345.296		Surcharged
S18	60 min Summer	34	120.499	1.614	404.214		Flood Risk
S19	60 min Summer	34	120.140	1.435	500.984		Flood Risk
HD01	60 min Summer	36	119.268	0.003	0.000		OK
HD02	60 min Summer	35	119.275	0.105	0.000		OK
HD03	60 min Summer	35	119.273	0.248	0.420		Surcharged
HD04	60 min Summer	34	119.395	1.150	29.192		Flood Risk
HD05	60 min Summer	35	119.331	1.216	25.654		Surcharged
HD06	60 min Summer	35	119.270	1.465	42.974		Surcharged
HD 07	60 min Summer	34	119.271	1.151	31.411		Flood Risk
S20	60 min Summer	35	119.141	1.746	600.511		Surcharged
S21	60 min Summer	35	118.675	1.359	602.818		Surcharged
S22	60 min Summer	40	118.160	0.960	498.320		Surcharged
S23	60 min Summer	41	118.141	1.041	467.694		Surcharged
S24	60 min Summer	41	118.125	1.119	470.039		Surcharged
S25	60 min Summer	41	118.122	1.124	858.404		Surcharged
S26	60 min Summer	42	118.072	1.135	816.334		Surcharged
S27	60 min Summer	42	118.021	1.121	817.280		Surcharged
S28	60 min Summer	43	117.968	0.968	751.685		Surcharged
S29	1440 min Summer	1449	117.509	1.699	0.479		Flood Risk
S30	60 min Summer	34	122.206	1.316	56.827		Flood Risk
S31	60 min Summer	34	121.799	1.339	72.425		Flood Risk
S32	60 min Summer	34	120.942	1.197	137.899		Surcharged
S33	60 min Summer	34	120.753	1.158	148.479		Surcharged
S34	60 min Summer	34	119.931	1.051	209.333		Surcharged
S35	60 min Summer	34	119.737	1.087	210.724		Surcharged
S36	60 min Summer	34	119.560	1.125	266.908		Surcharged
S37	60 min Summer	34	119.457	0.677	14.180		Surcharged
S38	60 min Summer	34	119.442	1.127	282.462		Surcharged
S39	60 min Summer	34	119.166	1.049	283.809		Surcharged
S40	60 min Summer	33	118.985	0.990	405.714		Surcharged
S41	60 min Summer	33	118.156	1.459	445.578		Surcharged
S42	60 min Summer	33	117.665	1.069	481.484		Surcharged
S43	1440 min Summer	1444	117.510	1.240	0.972		Surcharged
S44	1440 min Summer	1443	117.510	1.440	1.140		Surcharged
S45	1440 min Summer	1443	117.510	1.620	1.152		Flood Risk
S46	1440 min Summer	1442	117.510	2.010	6.312		Flood Risk
S47	360 min Winter	346	115.990	0.731	8.602		Surcharged
S48	360 min Winter	344	115.992	1.032	3.839		Surcharged
S49	360 min Winter	345	115.990	1.115	5.695		Surcharged
S50	360 min Winter	347	115.990	1.163	4.876		Surcharged
S51	60 min Summer	33	120.495	0.111	7.795		OK
S52	60 min Summer	33	120.494	0.394	37.092		Surcharged
S53	60 min Summer	33	120.343	0.718	77.610		Surcharged

Manholes

Manhole	Critical Storm	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Flood (m3)	Status
S54	60 min Summer	31	119.134	0.213	121.132		OK
S55	60 min Summer	32	119.464	0.719	80.738		Surcharged
S56	60 min Summer	33	118.391	0.306	256.351		OK
S57	60 min Summer	33	117.562	0.539	258.712		Surcharged
S58	60 min Summer	31	116.874	0.124	40.376		OK
S59	60 min Summer	31	116.449	1.053	436.235		Surcharged
S60	360 min Winter	347	115.989	1.049	9.456		Surcharged
S61	360 min Winter	347	115.989	1.189	14.329		Surcharged
S62	1440 min Winter	745	114.605	0.085	16.797		OK
S63	600 min Winter	1072	114.412	0.082	16.797		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	60 min Summer	29	S1	S2	0.225	1.544	52.959	0.959	OK
1.001	60 min Summer	33	S2	S4	0.300	1.635	115.565	0.934	Surcharged
2.000	60 min Summer	30	S3	S4	0.225	1.235	49.110	1.085	OK
1.002	60 min Summer	31	S4	S5	0.375	2.134	235.687	1.193	Surcharged
1.003	60 min Summer	32	S5	S6	0.375	2.828	312.293	1.595	Surcharged
1.004	60 min Summer	32	S6	S7	0.450	2.298	365.487	0.946	OK
1.005	60 min Summer	33	S7	S8	0.450	2.508	398.922	1.335	OK
1.006	60 min Summer	33	S8	S9	0.525	2.072	448.527	1.255	OK
1.007	60 min Summer	32	S9	S10	0.600	2.090	590.955	1.156	Surcharged
1.008	60 min Summer	33	S10	S25	0.600	2.168	599.863	1.176	Surcharged
3.000	60 min Summer	31	S11	S13	0.225	1.919	76.319	1.481	OK
4.000	60 min Summer	31	S12	S13	0.225	1.246	39.270	0.702	OK
3.001	60 min Summer	30	S13	S14	0.300	2.230	151.446	1.095	Surcharged
3.002	60 min Summer	30	S14	S16	0.375	2.502	205.078	0.761	Surcharged
5.000	60 min Summer	30	S15	S16	0.300	1.407	82.537	0.934	Surcharged
3.003	60 min Summer	29	S16	S17	0.450	2.290	309.884	0.832	OK
3.004	60 min Summer	35	S17	S18	0.450	2.186	347.748	0.900	OK
3.005	60 min Summer	35	S18	S19	0.450	2.552	405.923	1.297	OK
3.006	60 min Summer	33	S19	S20	0.450	3.174	504.810	0.881	OK
6.000	60 min Summer	36	HD01	HD02	0.016	0.017	0.007	0.000	OK
6.001	60 min Summer	37	HD02	HD03	0.165	0.189	2.722	0.064	OK
6.002	60 min Summer	38	HD03	HD06	0.225	0.306	7.329	0.054	OK
7.000	60 min Summer	32	HD04	HD05	0.225	1.240	34.857	0.856	OK
7.001	60 min Summer	43	HD05	HD06	0.225	0.876	31.055	0.528	OK
6.003	60 min Summer	43	HD06	S20	0.225	1.301	51.748	1.272	OK
8.000	60 min Summer	32	HD 07	S20	0.225	1.121	36.643	0.643	OK
3.007	60 min Summer	33	S20	S21	0.525	2.854	617.796	2.328	OK
3.008	60 min Summer	33	S21	S22	0.525	2.820	610.543	2.128	OK
3.009	60 min Summer	35	S22	S23	0.900	1.391	604.600	0.484	OK
3.010	60 min Summer	37	S23	S24	0.750	1.186	523.830	0.502	Surcharged
3.011	60 min Summer	37	S24	S25	0.900	0.822	523.154	0.816	OK
1.009	60 min Summer	35	S25	S26	0.900	1.658	1054.976	0.925	OK
1.010	60 min Summer	35	S26	S27	0.900	1.652	1050.857	1.266	OK
1.011	60 min Summer	40	S27	S28	0.900	2.180	1046.719	1.178	OK
1.012	60 min Summer	37	S28	S29	0.450	4.553	724.058	0.964	OK
1.013	60 min Summer	38	S29	S46	0.675	2.047	716.549	1.294	Surcharged
9.000	60 min Summer	31	S30	S31	0.225	1.668	66.319	1.101	OK
9.001	60 min Summer	36	S31	S32	0.225	1.820	72.348	1.184	OK
9.002	60 min Summer	32	S32	S33	0.300	2.037	144.020	1.067	Surcharged
9.003	60 min Summer	35	S33	S34	0.300	2.170	149.554	1.136	Surcharged
9.004	60 min Summer	33	S34	S35	0.375	2.049	212.003	0.845	Surcharged
9.005	60 min Summer	35	S35	S36	0.375	2.097	212.788	1.020	Surcharged
9.006	60 min Summer	33	S36	S38	0.450	1.716	269.697	0.875	OK
10.000	60 min Summer	30	S37	S38	0.225	1.124	18.137	0.296	OK
9.007	60 min Summer	36	S38	S39	0.450	1.805	286.996	1.150	OK
9.008	60 min Summer	37	S39	S40	0.450	2.108	299.045	1.172	OK
9.009	60 min Summer	34	S40	S41	0.450	2.541	404.127	0.793	OK
9.010	60 min Summer	34	S41	S42	0.450	2.807	446.417	2.077	OK
9.011	180 min Summer	163	S42	S43	0.450	2.211	320.772	1.058	OK
9.012	120 min Summer	90	S43	S44	0.525	2.039	425.353	0.972	OK
9.013	60 min Summer	55	S44	S45	0.525	2.864	599.083	1.136	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
9.014	60 min Summer	45	S45	S46	0.525	3.325	598.639	0.874	OK
1.014	360 min Winter	339	S46	S47	0.580	1.149	16.836	0.012	OK
1.015	600 min Winter	1133	S47	S48	0.675	0.680	40.412	0.021	Surcharged
1.016	1440 min Winter	847	S48	S49	0.675	0.396	20.732	0.046	Surcharged
1.017	720 min Summer	1278	S49	S50	0.675	0.157	22.303	0.054	Surcharged
1.018	1440 min Winter	1597	S50	S61	0.675	0.136	32.613	0.078	Surcharged
11.000	60 min Summer	33	S51	S52	0.168	0.558	9.161	0.148	OK
11.001	60 min Summer	31	S52	S53	0.225	1.136	38.852	0.580	OK
11.002	60 min Summer	33	S53	S54	0.219	1.954	77.104	1.372	OK
11.003	60 min Summer	32	S54	S56	0.221	2.257	121.635	0.843	OK
12.000	60 min Summer	32	S55	S56	0.220	2.011	79.451	1.436	OK
11.004	60 min Summer	33	S56	S57	0.340	2.876	266.962	0.928	OK
11.005	60 min Summer	34	S57	S59	0.375	2.351	259.662	0.845	Surcharged
13.000	60 min Summer	31	S58	S59	0.175	1.463	39.879	0.447	OK
11.006	60 min Summer	31	S59	S60	0.375	3.909	431.696	2.074	Surcharged
11.007	60 min Summer	39	S60	S61	0.675	1.895	428.445	0.662	Surcharged
1.019	1440 min Winter	745	S61	S62	0.072	1.526	16.797	0.170	OK
1.020	1440 min Winter	745	S62	S63	0.084	1.243	16.797	0.312	OK