

Rainfall Methodology	FSR	Maximum Time of Concentration (mins)	30.00
Return Period (years)	100	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)	17.000	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	✓

Name	Area (ha)	T of E (mins)	Cover Level (m)	Diameter (mm)	Easting (m)	Northing (m)	Depth (m)
MH596	0.270	5.00	71.250	1200	385108.565	402271.451	1.197
MH557	0.028	5.00	71.500	1350	385133.356	402301.933	1.840
MH536	0.028	5.00	72.200	1350	385129.006	402339.787	2.750
MH535	0.078	5.00	71.900	1350	385138.959	402383.361	2.750
MSCP FOUL WATER		5.00	72.010	450	385127.605	402397.784	2.350
MSCP SURFACE	0.525	5.00	71.910	1200	385129.368	402400.029	1.537
connection MSCP			71.900	300	385141.433	402397.250	2.801
MH534	0.078	5.00	70.700	1350	385145.952	402423.994	1.700
access road	0.061	5.00	71.650	450	385120.088	402445.154	1.400
car park	0.245	5.00	70.650	1200	385147.991	402444.425	1.200
connection car park			70.200	300	385141.366	402443.444	1.287
MH530	0.071	5.00	70.210	1350	385136.868	402461.908	1.380
MH528	0.218	5.00	70.350	1350	385126.400	402503.675	1.620
MH521	0.080	5.00	70.910	1350	385088.414	402539.455	2.450
RE1	0.376	5.00	71.550	150	384949.375	402529.560	1.300
MH605			71.620	1350	384962.713	402479.564	1.580
MH606			70.840	1350	384967.069	402480.671	0.875
MH504			71.810	1350	384973.583	402481.708	1.920
RE2	0.173	5.00	71.470	150	384974.670	402539.846	0.770
MH502	0.173	5.00	71.550	1350	384974.588	402507.142	1.000
temporary car park	0.262	5.00	71.852	1200	384986.004	402478.224	0.775
MH503	0.104	5.00	71.730	1350	384980.417	402483.007	1.880
MH520			71.950	1350	385005.036	402487.157	2.380
MH519			72.130	1350	385031.166	402494.082	2.730
MH540	0.057	5.00	74.570	1200	385089.520	402449.647	0.960
MH539			73.790	1200	385079.380	402445.317	2.010
MH546	0.072	5.00	74.600	1350	385062.131	402469.314	4.390
MH526	0.020	5.00	70.850	1200	385086.062	402500.858	0.830
MH524	0.020	5.00	70.930	1350	385065.263	402495.461	1.270
MH523	0.012	5.00	71.290	1350	385048.316	402499.110	2.120
MH518	0.020	5.00	71.530	1350	385035.242	402506.752	2.730
MH529		5.00	71.000	1200	385150.933	402509.282	0.560
MH517	0.020	5.00	70.730	1350	385082.797	402521.722	0.870
MH515	0.020	5.00	70.730	1350	385080.810	402522.485	1.170
MH513	0.020	5.00	70.700	1350	385066.996	402532.033	1.540
MH512	0.020	5.00	70.850	1350	385045.765	402526.787	2.020
MH511			70.660	1350	385042.060	402530.771	1.860
MH516	0.040	5.00	70.730	1200	385081.986	402523.322	1.060
MH514	0.040	5.00	70.670	1350	385068.890	402533.087	1.270
MH510	0.065	5.00	70.640	1350	385038.825	402531.999	1.960
MH522			69.820	1350	385036.396	402556.930	4.110

Nodes

Name	Area (ha)	T of E (mins)	Cover Level (m)	Diameter (mm)	Easting (m)	Northing (m)	Depth (m)
MH505	0.169	5.00	68.250	1350	385016.161	402590.248	4.590
MH506			68.450	1350	385016.304	402595.199	4.990
MH506A	0.000	5.00	68.710	1350	385029.291	402604.831	5.331
MH056B	0.000	5.00	64.500	1200	385032.085	402620.297	4.354
MH056C	0.000	5.00	57.200	1200	385057.794	402614.937	5.120
MH056D			54.140	1200	385070.279	402611.609	5.440
UU			50.500	1200	385172.538	402547.526	6.389
EXS9	0.222	5.00	63.500	1800	385017.214	402628.882	3.020
MH056E			64.850	1500	385027.980	402615.313	2.250

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	MH596	MH557	39.291	0.600	70.053	69.726	0.327	120.0	150	5.71	50.0
1.001	MH557	MH536	38.103	0.600	69.660	69.450	0.210	181.4	225	6.37	50.0
1.002	MH536	MH535	44.696	0.600	69.450	69.251	0.199	225.0	225	7.23	50.0
1.003	MH535	connection MSCP	14.108	0.600	69.150	69.099	0.051	274.9	300	7.48	50.0
2.000	MSCP FOUL WATER	connection MSCP	13.838	0.600	69.660	69.314	0.346	40.0	100	5.19	50.0
3.000	MSCP SURFACE	connection MSCP	12.381	0.600	70.373	69.249	1.124	11.0	150	5.07	50.0
1.004	connection MSCP	MH534	27.123	0.600	69.099	69.000	0.099	274.0	300	7.96	50.0
1.005	MH534	connection car park	19.983	0.600	69.000	68.913	0.087	229.0	300	8.28	50.0
4.000	access road	connection car park	21.347	0.600	70.250	69.064	1.186	18.0	150	5.15	50.0
5.000	car park	connection car park	6.697	0.600	69.450	69.063	0.387	17.3	150	5.05	50.0
1.006	connection car park	MH530	19.004	0.600	68.913	68.830	0.083	229.0	300	8.59	50.0
1.007	MH530	MH528	43.059	0.600	68.830	68.730	0.100	430.6	300	9.54	50.0
1.008	MH528	MH521	52.184	0.600	68.730	68.460	0.270	193.3	300	10.31	50.0
1.009	MH521	MH522	54.875	0.600	68.460	65.785	2.675	20.5	300	10.58	50.0
6.000	RE1	MH605	51.745	0.600	70.250	70.040	0.210	246.4	225	6.04	50.0
6.001	MH605	MH606	4.494	0.600	70.040	69.965	0.075	60.0	300	6.08	50.0
6.002	MH606	MH504	6.596	0.600	69.965	69.890	0.075	87.9	300	6.14	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)
1.000	0.916	16.2	36.6	1.047	1.624	0.270	0.0
1.001	0.967	38.5	40.4	1.615	2.525	0.298	0.0
1.002	0.867	34.5	44.2	2.525	2.424	0.326	0.0
1.003	0.943	66.7	54.8	2.450	2.501	0.404	0.0
2.000	1.223	9.6	0.0	2.250	2.486	0.000	0.0
3.000	3.053	53.9	71.2	1.387	2.501	0.525	0.0
1.004	0.945	66.8	125.9	2.501	1.400	0.929	0.0
1.005	1.035	73.1	136.5	1.400	0.987	1.007	0.0
4.000	2.385	42.1	8.3	1.250	0.986	0.061	0.0
5.000	2.433	43.0	33.2	1.050	0.987	0.245	0.0
1.006	1.035	73.1	177.9	0.987	1.080	1.313	0.0
1.007	0.751	53.1	187.6	1.080	1.320	1.384	0.0
1.008	1.127	79.7	217.1	1.320	2.150	1.602	0.0
1.009	3.486	246.4	228.0	2.150	3.735	1.682	0.0
6.000	0.828	32.9	51.0	1.075	1.355	0.376	0.0
6.001	2.033	143.7	51.0	1.280	0.575	0.376	0.0
6.002	1.677	118.5	51.0	0.575	1.620	0.376	0.0

Links

Name	US Node	DS Node	Length (m)	ks (mm) / n	US IL (m)	DS IL (m)	Fall (m)	Slope (1:X)	Dia (mm)	T of C (mins)	Rain (mm/hr)
6.003	MH504	MH503	6.956	0.600	69.890	69.850	0.040	173.9	300	6.24	50.0
7.000	RE2	MH502	32.704	0.600	70.700	70.550	0.150	218.0	225	5.62	50.0
7.001	MH502	MH503	24.829	0.600	70.550	70.053	0.497	50.0	225	5.84	50.0
8.000	temporary car park	MH503	7.355	0.600	71.077	71.003	0.074	100.0	150	5.12	50.0
6.004	MH503	MH520	24.966	0.600	69.850	69.570	0.280	89.2	375	6.46	50.0
6.005	MH520	MH519	27.032	0.600	69.570	69.400	0.170	159.0	375	6.77	50.0
6.006	MH519	MH518	13.309	0.600	69.400	68.800	0.600	22.2	375	6.83	50.0
9.000	MH540	MH539	11.026	0.600	73.610	71.780	1.830	6.0	100	5.06	50.0
9.001	MH539	MH546	29.553	0.600	71.780	70.210	1.570	18.8	100	5.33	50.0
9.002	MH546	MH523	32.843	0.600	70.210	69.170	1.040	31.6	150	5.64	50.0
10.000	MH526	MH524	21.488	0.600	70.020	69.660	0.360	59.7	100	5.36	50.0
10.001	MH524	MH523	17.335	0.600	69.660	69.313	0.347	50.0	100	5.62	50.0
9.003	MH523	MH518	15.144	0.600	69.170	68.918	0.252	60.0	225	5.79	50.0
6.007	MH518	MH522	50.191	0.600	68.800	65.710	3.090	16.2	375	7.01	50.0
11.000	MH529	MH517	69.262	0.600	70.440	69.860	0.580	119.4	100	6.64	50.0
11.001	MH517	MH515	2.128	0.600	69.860	69.560	0.300	7.1	100	6.66	50.0
11.002	MH515	MH513	16.793	0.600	69.560	69.224	0.336	50.0	100	6.91	50.0
11.003	MH513	MH512	21.870	0.600	69.160	68.830	0.330	66.3	150	7.21	50.0
11.004	MH512	MH511	5.441	0.600	68.830	68.800	0.030	181.4	150	7.33	50.0
11.005	MH511	MH510	3.460	0.600	68.800	68.680	0.120	28.8	150	7.36	50.0
12.000	MH516	MH514	16.336	0.600	69.670	69.400	0.270	60.5	150	5.21	50.0
12.001	MH514	MH510	30.085	0.600	69.400	68.680	0.720	41.8	150	5.53	50.0
11.006	MH510	MH522	25.049	0.600	68.680	66.175	2.505	10.0	100	7.53	50.0
1.010	MH522	MH505	38.981	0.600	65.710	63.660	2.050	19.0	375	10.73	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)
6.003	1.189	84.0	51.0	1.620	1.580	0.376	0.0
7.000	0.881	35.0	23.4	0.545	0.775	0.173	0.0
7.001	1.854	73.7	46.9	0.775	1.452	0.346	0.0
8.000	1.005	17.8	35.5	0.625	0.577	0.262	0.0
6.004	1.919	212.0	147.5	1.505	2.005	1.088	0.0
6.005	1.434	158.4	147.5	2.005	2.355	1.088	0.0
6.006	3.861	426.4	147.5	2.355	2.355	1.088	0.0
9.000	3.170	24.9	7.7	0.860	1.910	0.057	0.0
9.001	1.788	14.0	7.7	1.910	4.290	0.057	0.0
9.002	1.798	31.8	17.5	4.240	1.970	0.129	0.0
10.000	0.999	7.8	2.7	0.730	1.170	0.020	0.0
10.001	1.092	8.6	5.4	1.170	1.877	0.040	0.0
9.003	1.691	67.2	24.5	1.895	2.387	0.181	0.0
6.007	4.514	498.6	174.7	2.355	3.735	1.289	0.0
11.000	0.702	5.5	0.0	0.460	0.770	0.000	0.0
11.001	2.921	22.9	2.7	0.770	1.070	0.020	0.0
11.002	1.092	8.6	5.4	1.070	1.376	0.040	0.0
11.003	1.237	21.9	8.1	1.390	1.870	0.060	0.0
11.004	0.743	13.1	10.8	1.870	1.710	0.080	0.0
11.005	1.882	33.3	10.8	1.710	1.810	0.080	0.0
12.000	1.295	22.9	5.4	0.910	1.120	0.040	0.0
12.001	1.561	27.6	10.8	1.120	1.810	0.080	0.0
11.006	2.458	19.3	30.5	1.860	3.545	0.225	0.0
1.010	4.171	460.7	433.1	3.735	4.215	3.196	0.0

Links

Name	US Node	DS Node	Length (m)	ks (mm) / n	US IL (m)	DS IL (m)	Fall (m)	Slope (1:X)	Dia (mm)	T of C (mins)	Rain (mm/hr)
1.011	MH505	MH506	4.953	0.600	63.660	63.460	0.200	24.8	375	10.75	50.0
1.012	MH506	MH506A	16.169	0.600	63.460	63.379	0.081	200.0	375	10.97	50.0
1.013	MH506A	MH056E	10.564	0.600	63.379	62.602	0.777	13.6	375	11.00	50.0
1.014	MH056E	MH056B	26.262	0.600	62.600	60.146	2.454	10.7	375	11.04	50.0
1.015	MH056B	MH056C	26.262	0.600	60.150	55.100	5.050	5.2	375	11.09	50.0
1.016	MH056C	MH056D	12.921	0.600	52.080	52.010	0.070	184.6	375	11.26	50.0
1.017	MH056D	UU	120.679	0.600	48.700	44.111	4.589	26.3	375	11.82	50.0
13.000	EXS9	MH056B	17.171	0.600	60.480	60.150	0.330	52.0	225	5.16	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)
1.011	3.653	403.5	456.0	4.215	4.615	3.365	0.0
1.012	1.277	141.1	456.0	4.615	4.956	3.365	0.0
1.013	4.935	545.0	456.0	4.956	1.873	3.365	0.0
1.014	5.565	614.6	456.0	1.875	3.979	3.365	0.0
1.015	7.988	882.3	486.1	3.975	1.725	3.587	0.0
1.016	1.330	146.9	486.1	4.745	1.755	3.587	0.0
1.017	3.545	391.5	486.1	5.065	6.014	3.587	0.0
13.000	1.818	72.3	30.1	2.795	4.125	0.222	0.0

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	39.291	120.0	150	1 STANDARD	71.250	70.053	1.047	71.500	69.726	1.624
1.001	38.103	181.4	225	1 STANDARD	71.500	69.660	1.615	72.200	69.450	2.525
1.002	44.696	225.0	225	1 STANDARD	72.200	69.450	2.525	71.900	69.251	2.424
1.003	14.108	274.9	300	1 STANDARD	71.900	69.150	2.450	71.900	69.099	2.501
2.000	13.838	40.0	100	1 STANDARD	72.010	69.660	2.250	71.900	69.314	2.486
3.000	12.381	11.0	150	1 STANDARD	71.910	70.373	1.387	71.900	69.249	2.501
1.004	27.123	274.0	300	1 STANDARD	71.900	69.099	2.501	70.700	69.000	1.400
1.005	19.983	229.0	300	1 STANDARD	70.700	69.000	1.400	70.200	68.913	0.987
4.000	21.347	18.0	150	1 STANDARD	71.650	70.250	1.250	70.200	69.064	0.986
5.000	6.697	17.3	150	1 STANDARD	70.650	69.450	1.050	70.200	69.063	0.987
1.006	19.004	229.0	300	1 STANDARD	70.200	68.913	0.987	70.210	68.830	1.080
1.007	43.059	430.6	300	1 STANDARD	70.210	68.830	1.080	70.350	68.730	1.320

Link	US Node	Dia (mm)	Node Type	MH Type	DS Node	Dia (mm)	Node Type	MH Type
1.000	MH596	1200	Manhole	1 STANDARD	MH557	1350	Manhole	1 STANDARD
1.001	MH557	1350	Manhole	1 STANDARD	MH536	1350	Manhole	1 STANDARD
1.002	MH536	1350	Manhole	1 STANDARD	MH535	1350	Manhole	1 STANDARD
1.003	MH535	1350	Manhole	1 STANDARD	connection MSCP	300	Manhole	1 STANDARD
2.000	MSCP FOUL WATER	450	Manhole	1 STANDARD	connection MSCP	300	Manhole	1 STANDARD
3.000	MSCP SURFACE	1200	Manhole	1 STANDARD	connection MSCP	300	Manhole	1 STANDARD
1.004	connection MSCP	300	Manhole	1 STANDARD	MH534	1350	Manhole	1 STANDARD
1.005	MH534	1350	Manhole	1 STANDARD	connection car park	300	Manhole	1 STANDARD
4.000	access road	450	Manhole	1 STANDARD	connection car park	300	Manhole	1 STANDARD
5.000	car park	1200	Manhole	1 STANDARD	connection car park	300	Manhole	1 STANDARD
1.006	connection car park	300	Manhole	1 STANDARD	MH530	1350	Manhole	1 STANDARD
1.007	MH530	1350	Manhole	1 STANDARD	MH528	1350	Manhole	1 STANDARD

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)
1.008	52.184	193.3	300	1 STANDARD	70.350	68.730	1.320	70.910	68.460	2.150
1.009	54.875	20.5	300	1 STANDARD	70.910	68.460	2.150	69.820	65.785	3.735
6.000	51.745	246.4	225	1 STANDARD	71.550	70.250	1.075	71.620	70.040	1.355
6.001	4.494	60.0	300	1 STANDARD	71.620	70.040	1.280	70.840	69.965	0.575
6.002	6.596	87.9	300	1 STANDARD	70.840	69.965	0.575	71.810	69.890	1.620
6.003	6.956	173.9	300	1 STANDARD	71.810	69.890	1.620	71.730	69.850	1.580
7.000	32.704	218.0	225	1 STANDARD	71.470	70.700	0.545	71.550	70.550	0.775
7.001	24.829	50.0	225	1 STANDARD	71.550	70.550	0.775	71.730	70.053	1.452
8.000	7.355	100.0	150	1 STANDARD	71.852	71.077	0.625	71.730	71.003	0.577
6.004	24.966	89.2	375	1 STANDARD	71.730	69.850	1.505	71.950	69.570	2.005
6.005	27.032	159.0	375	1 STANDARD	71.950	69.570	2.005	72.130	69.400	2.355
6.006	13.309	22.2	375	1 STANDARD	72.130	69.400	2.355	71.530	68.800	2.355
9.000	11.026	6.0	100	1 STANDARD	74.570	73.610	0.860	73.790	71.780	1.910
9.001	29.553	18.8	100	1 STANDARD	73.790	71.780	1.910	74.600	70.210	4.290
9.002	32.843	31.6	150	1 STANDARD	74.600	70.210	4.240	71.290	69.170	1.970
10.000	21.488	59.7	100	1 STANDARD	70.850	70.020	0.730	70.930	69.660	1.170
10.001	17.335	50.0	100	1 STANDARD	70.930	69.660	1.170	71.290	69.313	1.877
9.003	15.144	60.0	225	1 STANDARD	71.290	69.170	1.895	71.530	68.918	2.387
6.007	50.191	16.2	375	1 STANDARD	71.530	68.800	2.355	69.820	65.710	3.735
11.000	69.262	119.4	100	1 STANDARD	71.000	70.440	0.460	70.730	69.860	0.770
11.001	2.128	7.1	100	1 STANDARD	70.730	69.860	0.770	70.730	69.560	1.070
11.002	16.793	50.0	100	1 STANDARD	70.730	69.560	1.070	70.700	69.224	1.376
11.003	21.870	66.3	150	1 STANDARD	70.700	69.160	1.390	70.850	68.830	1.870
11.004	5.441	181.4	150	1 STANDARD	70.850	68.830	1.870	70.660	68.800	1.710
11.005	3.460	28.8	150	1 STANDARD	70.660	68.800	1.710	70.640	68.680	1.810

Link	US Node	Dia (mm)	Node Type	MH Type	DS Node	Dia (mm)	Node Type	MH Type
1.008	MH528	1350	Manhole	1 STANDARD	MH521	1350	Manhole	1 STANDARD
1.009	MH521	1350	Manhole	1 STANDARD	MH522	1350	Manhole	1 STANDARD
6.000	RE1	150	Manhole	1 STANDARD	MH605	1350	Manhole	1 STANDARD
6.001	MH605	1350	Manhole	1 STANDARD	MH606	1350	Manhole	1 STANDARD
6.002	MH606	1350	Manhole	1 STANDARD	MH504	1350	Manhole	1 STANDARD
6.003	MH504	1350	Manhole	1 STANDARD	MH503	1350	Manhole	1 STANDARD
7.000	RE2	150	Manhole	1 STANDARD	MH502	1350	Manhole	1 STANDARD
7.001	MH502	1350	Manhole	1 STANDARD	MH503	1350	Manhole	1 STANDARD
8.000	temporary car park	1200	Manhole	1 STANDARD	MH503	1350	Manhole	1 STANDARD
6.004	MH503	1350	Manhole	1 STANDARD	MH520	1350	Manhole	1 STANDARD
6.005	MH520	1350	Manhole	1 STANDARD	MH519	1350	Manhole	1 STANDARD
6.006	MH519	1350	Manhole	1 STANDARD	MH518	1350	Manhole	1 STANDARD
9.000	MH540	1200	Manhole	1 STANDARD	MH539	1200	Manhole	1 STANDARD
9.001	MH539	1200	Manhole	1 STANDARD	MH546	1350	Manhole	1 STANDARD
9.002	MH546	1350	Manhole	1 STANDARD	MH523	1350	Manhole	1 STANDARD
10.000	MH526	1200	Manhole	1 STANDARD	MH524	1350	Manhole	1 STANDARD
10.001	MH524	1350	Manhole	1 STANDARD	MH523	1350	Manhole	1 STANDARD
9.003	MH523	1350	Manhole	1 STANDARD	MH518	1350	Manhole	1 STANDARD
6.007	MH518	1350	Manhole	1 STANDARD	MH522	1350	Manhole	1 STANDARD
11.000	MH529	1200	Manhole	1 STANDARD	MH517	1350	Manhole	1 STANDARD
11.001	MH517	1350	Manhole	1 STANDARD	MH515	1350	Manhole	1 STANDARD
11.002	MH515	1350	Manhole	1 STANDARD	MH513	1350	Manhole	1 STANDARD
11.003	MH513	1350	Manhole	1 STANDARD	MH512	1350	Manhole	1 STANDARD
11.004	MH512	1350	Manhole	1 STANDARD	MH511	1350	Manhole	1 STANDARD
11.005	MH511	1350	Manhole	1 STANDARD	MH510	1350	Manhole	1 STANDARD

Pipeline Schedule

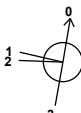
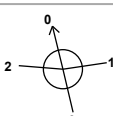
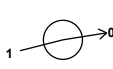
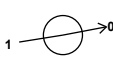
Link	Length (m)	Slope (1:X)	Dia (mm)	Link Type	US CL (m)	US IL (m)	US Depth (m)	DS CL (m)	DS IL (m)	DS Depth (m)
12.000	16.336	60.5	150	1 STANDARD	70.730	69.670	0.910	70.670	69.400	1.120
12.001	30.085	41.8	150	1 STANDARD	70.670	69.400	1.120	70.640	68.680	1.810
11.006	25.049	10.0	100	1 STANDARD	70.640	68.680	1.860	69.820	66.175	3.545
1.010	38.981	19.0	375	1 STANDARD	69.820	65.710	3.735	68.250	63.660	4.215
1.011	4.953	24.8	375	1 STANDARD	68.250	63.660	4.215	68.450	63.460	4.615
1.012	16.169	200.0	375	1 STANDARD	68.450	63.460	4.615	68.710	63.379	4.956
1.013	10.564	13.6	375	1 STANDARD	68.710	63.379	4.956	64.850	62.602	1.873
1.014	26.262	10.7	375	1 STANDARD	64.850	62.600	1.875	64.500	60.146	3.979
1.015	26.262	5.2	375	1 STANDARD	64.500	60.150	3.975	57.200	55.100	1.725
1.016	12.921	184.6	375	1 STANDARD	57.200	52.080	4.745	54.140	52.010	1.755
1.017	120.679	26.3	375	1 STANDARD	54.140	48.700	5.065	50.500	44.111	6.014
13.000	17.171	52.0	225	1 STANDARD	63.500	60.480	2.795	64.500	60.150	4.125

Link	US Node	Dia (mm)	Node Type	MH Type	DS Node	Dia (mm)	Node Type	MH Type
12.000	MH516	1200	Manhole	1 STANDARD	MH514	1350	Manhole	1 STANDARD
12.001	MH514	1350	Manhole	1 STANDARD	MH510	1350	Manhole	1 STANDARD
11.006	MH510	1350	Manhole	1 STANDARD	MH522	1350	Manhole	1 STANDARD
1.010	MH522	1350	Manhole	1 STANDARD	MH505	1350	Manhole	1 STANDARD
1.011	MH505	1350	Manhole	1 STANDARD	MH506	1350	Manhole	1 STANDARD
1.012	MH506	1350	Manhole	1 STANDARD	MH506A	1350	Manhole	1 STANDARD
1.013	MH506A	1350	Manhole	1 STANDARD	MH506E	1500	Manhole	1 STANDARD
1.014	MH506E	1500	Manhole	1 STANDARD	MH506B	1200	Manhole	1 STANDARD
1.015	MH506B	1200	Manhole	1 STANDARD	MH506C	1200	Manhole	1 STANDARD
1.016	MH506C	1200	Manhole	1 STANDARD	MH506D	1200	Manhole	1 STANDARD
1.017	MH506D	1200	Manhole	1 STANDARD	UU	1200	Manhole	1 STANDARD
13.000	EXS9	1800	Manhole	1 STANDARD	MH056B	1200	Manhole	1 STANDARD

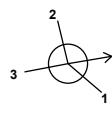
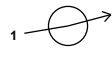
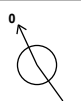
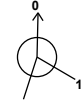
Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)
MH596	385108.565	402271.451	71.250	1.197	1200				
						0	1.000	70.053	150
MH557	385133.356	402301.933	71.500	1.840	1350				
						0	1.001	69.660	225
MH536	385129.006	402339.787	72.200	2.750	1350				
						0	1.002	69.450	225
MH535	385138.959	402383.361	71.900	2.750	1350				
						0	1.003	69.150	300
MSCP FOUL WATER	385127.605	402397.784	72.010	2.350	450				
						0	2.000	69.660	100

Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)	
MSCP SURFACE	385129.368	402400.029	71.910	1.537	1200		0	3.000	70.373	150
connection MSCP	385141.433	402397.250	71.900	2.801	300		1	3.000	69.249	150
							2	2.000	69.314	100
							3	1.003	69.099	300
							0	1.004	69.099	300
MH534	385145.952	402423.994	70.700	1.700	1350		1	1.004	69.000	300
							0	1.005	69.000	300
access road	385120.088	402445.154	71.650	1.400	450		0	4.000	70.250	150
car park	385147.991	402444.425	70.650	1.200	1200		0	5.000	69.450	150
connection car park	385141.366	402443.444	70.200	1.287	300		1	5.000	69.063	150
							2	4.000	69.064	150
							3	1.005	68.913	300
							0	1.006	68.913	300
MH530	385136.868	402461.908	70.210	1.380	1350		1	1.006	68.830	300
							0	1.007	68.830	300
MH528	385126.400	402503.675	70.350	1.620	1350		1	1.007	68.730	300
							0	1.008	68.730	300
MH521	385088.414	402539.455	70.910	2.450	1350		1	1.008	68.460	300
							0	1.009	68.460	300
RE1	384949.375	402529.560	71.550	1.300	150		0	6.000	70.250	225
MH605	384962.713	402479.564	71.620	1.580	1350		1	6.000	70.040	225
							0	6.001	70.040	300
MH606	384967.069	402480.671	70.840	0.875	1350		1	6.001	69.965	300
							0	6.002	69.965	300
MH504	384973.583	402481.708	71.810	1.920	1350		1	6.002	69.890	300
							0	6.003	69.890	300

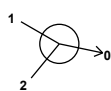
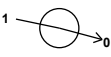
Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)	
RE2	384974.670	402539.846	71.470	0.770	150		0	7.000	70.700	225
MH502	384974.588	402507.142	71.550	1.000	1350		1	7.000	70.550	225
							0	7.001	70.550	225
temporary car park	384986.004	402478.224	71.852	0.775	1200		0	8.000	71.077	150
MH503	384980.417	402483.007	71.730	1.880	1350		1	8.000	71.003	150
							2	7.001	70.053	225
							3	6.003	69.850	300
							0	6.004	69.850	375
MH520	385005.036	402487.157	71.950	2.380	1350		1	6.004	69.570	375
							0	6.005	69.570	375
MH519	385031.166	402494.082	72.130	2.730	1350		1	6.005	69.400	375
							0	6.006	69.400	375
MH540	385089.520	402449.647	74.570	0.960	1200		0	9.000	73.610	100
MH539	385079.380	402445.317	73.790	2.010	1200		1	9.000	71.780	100
							0	9.001	71.780	100
MH546	385062.131	402469.314	74.600	4.390	1350		1	9.001	70.210	100
							0	9.002	70.210	150
MH526	385086.062	402500.858	70.850	0.830	1200		0	10.000	70.020	100
MH524	385065.263	402495.461	70.930	1.270	1350		1	10.000	69.660	100
							0	10.001	69.660	100
MH523	385048.316	402499.110	71.290	2.120	1350		1	10.001	69.313	100
							2	9.002	69.170	150
							0	9.003	69.170	225
MH518	385035.242	402506.752	71.530	2.730	1350		1	9.003	68.918	225
							2	6.006	68.800	375
							0	6.007	68.800	375

Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)	
MH529	385150.933	402509.282	71.000	0.560	1200		0	11.000	70.440	100
MH517	385082.797	402521.722	70.730	0.870	1350		1	11.000	69.860	100
MH515	385080.810	402522.485	70.730	1.170	1350		0	11.001	69.860	100
MH513	385066.996	402532.033	70.700	1.540	1350		1	11.001	69.560	100
MH512	385045.765	402526.787	70.850	2.020	1350		0	11.002	69.560	100
MH511	385042.060	402530.771	70.660	1.860	1350		1	11.002	69.224	100
MH516	385081.986	402523.322	70.730	1.060	1200		0	11.003	69.160	150
MH514	385068.890	402533.087	70.670	1.270	1350		1	11.003	68.830	150
MH510	385038.825	402531.999	70.640	1.960	1350		0	11.004	68.830	150
MH522	385036.396	402556.930	69.820	4.110	1350		1	11.004	68.800	150
MH505	385016.161	402590.248	68.250	4.590	1350		2	11.005	68.800	150
MH506	385016.304	402595.199	68.450	4.990	1350		0	11.006	68.680	100
MH506A	385029.291	402604.831	68.710	5.331	1350		1	11.006	66.175	100
							2	6.007	65.710	375
							3	1.009	65.785	300
							0	1.010	65.710	375
							1	1.010	63.660	375
							0	1.011	63.660	375
							1	1.011	63.460	375
							0	1.012	63.460	375
							1	1.012	63.379	375
							0	1.013	63.379	375

Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)	
MH056B	385032.085	402620.297	64.500	4.354	1200		1	13.000	60.150	225
							2	1.014	60.146	375
							0	1.015	60.150	375
MH056C	385057.794	402614.937	57.200	5.120	1200		1	1.015	55.100	375
							0	1.016	52.080	375
MH056D	385070.279	402611.609	54.140	5.440	1200		1	1.016	52.010	375
							0	1.017	48.700	375
UU	385172.538	402547.526	50.500	6.389	1200		1	1.017	44.111	375
EXS9	385017.214	402628.882	63.500	3.020	1800		0	13.000	60.480	225
MH056E	385027.980	402615.313	64.850	2.250	1500		1	1.013	62.602	375
							0	1.014	62.600	375

Simulation Settings

Rainfall Methodology	FSR	Analysis Speed	Normal
FSR Region	England and Wales	Skip Steady State	x
M5-60 (mm)	17.000	Drain Down Time (mins)	240
Ratio-R	0.400	Additional Storage (m³/ha)	20.0
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

Return Period (years)	Climate Change (CC %)	Additional Area (A %)	Additional Flow (Q %)
1	0	0	0
30	0	0	0
100	0	0	0
100	40	0	0

Node UU Surcharged Outfall

Overrides Design Area	x	Depression Storage Area (m²)	0	Evapo-transpiration (mm/day)	0
Overrides Design Additional Inflow	x	Depression Storage Depth (mm)	0		

Applies to 100yr, 100yr+40% CC 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440 minute storms

Time (mins)	Depth (m)	Time (mins)	Depth (m)	Time (mins)	Depth (m)	Time (mins)	Depth (m)	Time (mins)	Depth (m)
0	1.375	300	1.375	600	1.375	900	1.375	1200	1.375
60	1.375	360	1.375	660	1.375	960	1.375	1260	1.375
120	1.375	420	1.375	720	1.375	1020	1.375	1320	1.375
180	1.375	480	1.375	780	1.375	1080	1.375	1380	1.375
240	1.375	540	1.375	840	1.375	1140	1.375	1440	1.375

Node car park Online Hydro-Brake® Control

Flap Valve	x	Objective	(HE) Minimise upstream storage
Replaces Downstream Link	✓	Sump Available	✓
Invert Level (m)	69.450	Product Number	CTL-SHE-0106-5000-1000-5000
Design Depth (m)	1.000	Min Outlet Diameter (m)	0.150
Design Flow (l/s)	5.0	Min Node Diameter (mm)	1200

Node MSCP SURFACE Online Hydro-Brake® Control

Flap Valve	x	Objective	(HE) Minimise upstream storage
Replaces Downstream Link	✓	Sump Available	✓
Invert Level (m)	70.373	Product Number	CTL-SHE-0098-5000-1500-5000
Design Depth (m)	1.500	Min Outlet Diameter (m)	0.150
Design Flow (l/s)	5.0	Min Node Diameter (mm)	1200

Node temporary car park Online Hydro-Brake® Control

Flap Valve	x	Objective	(HE) Minimise upstream storage
Replaces Downstream Link	✓	Sump Available	✓
Invert Level (m)	71.077	Product Number	CTL-SHE-0110-5000-0725-5000
Design Depth (m)	0.725	Min Outlet Diameter (m)	0.150
Design Flow (l/s)	5.0	Min Node Diameter (mm)	1200

Node EXS9 Online Hydro-Brake® Control

Flap Valve	x	Objective	(HE) Minimise upstream storage
Replaces Downstream Link	✓	Sump Available	✓
Invert Level (m)	60.480	Product Number	CTL-SHE-0164-1270-0900-1270
Design Depth (m)	0.900	Min Outlet Diameter (m)	0.225
Design Flow (l/s)	12.7	Min Node Diameter (mm)	1200

Node car park Carpark Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Invert Level (m)	70.100	Slope (1:X)	1000.0
Side Inf Coefficient (m/hr)	0.00000	Time to half empty (mins)	42	Depth (m)	0.250
Safety Factor	2.0	Width (m)	17.000	Inf Depth (m)	
Porosity	0.33	Length (m)	152.000		

Node MSCP SURFACE Carpark Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Invert Level (m)	71.700	Slope (1:X)	1000.0
Side Inf Coefficient (m/hr)	0.00000	Time to half empty (mins)		Depth (m)	0.250
Safety Factor	2.0	Width (m)	50.000	Inf Depth (m)	
Porosity	0.33	Length (m)	89.000		

Node temporary car park Carpark Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Invert Level (m)	71.127	Slope (1:X)	1000.0
Side Inf Coefficient (m/hr)	0.00000	Time to half empty (mins)	0	Depth (m)	0.250
Safety Factor	2.0	Width (m)	47.000	Inf Depth (m)	
Porosity	0.33	Length (m)	65.000		

Node EXS9 Depth/Area Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Safety Factor	2.0	Invert Level (m)	60.480
Side Inf Coefficient (m/hr)	0.00000	Porosity	1.00	Time to half empty (mins)	0

Depth (m)	Area (m ²)	Inf Area (m ²)	Depth (m)	Area (m ²)	Inf Area (m ²)
0.000	53.0	0.0	0.500	387.0	0.0

Results for 1 year 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	MH596	12	70.542	0.489	32.2	2.7609	0.0000	SURCHARGED
15 minute winter	MH557	12	69.796	0.136	25.5	0.2358	0.0000	OK
15 minute winter	MH536	13	69.608	0.158	28.2	0.2579	0.0000	OK
15 minute winter	MH535	12	69.324	0.174	34.7	0.3485	0.0000	OK
15 minute summer	MSCP FOUL WATER	1	69.660	0.000	0.0	0.0000	0.0000	OK
60 minute winter	MSCP SURFACE	58	71.750	1.377	32.1	31.7448	0.0000	FLOOD RISK
15 minute winter	connection MSCP	12	69.278	0.179	39.5	0.0127	0.0000	OK
15 minute winter	MH534	13	69.210	0.210	46.8	0.4943	0.0000	OK
15 minute winter	access road	10	70.292	0.042	7.3	0.0434	0.0000	OK
30 minute winter	car park	29	70.150	0.700	22.3	10.6350	0.0000	SURCHARGED
15 minute winter	connection car park	12	69.172	0.259	55.7	0.0184	0.0000	OK
15 minute winter	MH530	12	69.123	0.293	61.1	0.7201	0.0000	OK
15 minute winter	MH528	12	68.987	0.257	82.1	1.0614	0.0000	OK
15 minute winter	MH521	12	68.587	0.127	88.4	0.2652	0.0000	OK
15 minute winter	RE1	11	70.544	0.294	44.8	1.7046	0.0000	SURCHARGED
15 minute winter	MH605	12	70.181	0.141	40.0	0.2021	0.0000	OK
15 minute winter	MH606	12	70.119	0.154	40.1	0.2202	0.0000	OK
15 minute winter	MH504	12	70.073	0.183	40.2	0.2619	0.0000	OK
15 minute winter	RE2	10	70.826	0.126	20.6	0.5688	0.0000	OK
15 minute winter	MH502	11	70.674	0.124	40.5	0.6087	0.0000	OK
60 minute winter	temporary car park	49	71.170	0.093	16.0	14.9606	0.0000	OK
15 minute winter	MH503	11	70.038	0.188	93.3	0.4779	0.0000	OK
15 minute winter	MH520	11	69.786	0.216	93.1	0.3097	0.0000	OK
15 minute winter	MH519	12	69.531	0.131	92.3	0.1877	0.0000	OK
15 minute winter	MH540	10	73.646	0.036	6.8	0.0826	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute winter	MH596	1.000	MH557	22.9	1.303	1.417	0.6746	
15 minute winter	MH557	1.001	MH536	25.6	0.945	0.665	1.0430	
15 minute winter	MH536	1.002	MH535	27.7	0.997	0.802	1.2396	
15 minute winter	MH535	1.003	connection MSCP	34.8	0.812	0.521	0.6080	
15 minute summer	MSCP FOUL WATER	2.000	connection MSCP	0.0	0.000	0.000	0.0000	
60 minute winter	MSCP SURFACE	Hydro-Brake®	connection MSCP	4.9				
15 minute winter	connection MSCP	1.004	MH534	39.4	0.843	0.590	1.3077	
15 minute winter	MH534	1.005	connection car park	45.5	0.832	0.623	1.1733	
15 minute winter	access road	4.000	connection car park	7.2	1.712	0.172	0.1825	
30 minute winter	car park	Hydro-Brake®	connection car park	5.0				
15 minute winter	connection car park	1.006	MH530	55.0	0.833	0.752	1.2799	
15 minute winter	MH530	1.007	MH528	60.9	0.921	1.146	2.8917	
15 minute winter	MH528	1.008	MH521	81.0	1.707	1.017	2.4208	
15 minute winter	MH521	1.009	MH522	88.3	3.176	0.358	1.5266	
15 minute winter	RE1	6.000	MH605	40.0	1.128	1.214	1.7076	
15 minute winter	MH605	6.001	MH606	40.1	1.162	0.279	0.1550	
15 minute winter	MH606	6.002	MH504	40.2	0.993	0.339	0.2684	
15 minute winter	MH504	6.003	MH503	40.4	0.951	0.481	0.3178	
15 minute winter	RE2	7.000	MH502	20.0	0.884	0.570	0.7389	
15 minute winter	MH502	7.001	MH503	40.0	1.841	0.542	0.5389	
60 minute winter	temporary car park	Hydro-Brake®	MH503	3.5				
15 minute winter	MH503	6.004	MH520	93.1	1.535	0.439	1.5132	
15 minute winter	MH520	6.005	MH519	92.3	1.859	0.583	1.3514	
15 minute winter	MH519	6.006	MH518	92.7	2.858	0.217	0.4318	
15 minute winter	MH540	9.000	MH539	6.7	2.155	0.271	0.0346	

Results for 1 year 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	MH539	10	71.829	0.049	6.7	0.0550	0.0000	OK
15 minute winter	MH546	10	70.283	0.073	15.3	0.1275	0.0000	OK
15 minute winter	MH526	10	70.057	0.037	2.4	0.0602	0.0000	OK
15 minute winter	MH524	11	69.714	0.054	4.7	0.0936	0.0000	OK
15 minute winter	MH523	11	69.261	0.091	20.8	0.1412	0.0000	OK
15 minute winter	MH518	11	68.921	0.121	115.0	0.1906	0.0000	OK
15 minute summer	MH529	1	70.440	0.000	0.0	0.0000	0.0000	OK
15 minute winter	MH517	10	69.882	0.022	2.4	0.0408	0.0000	OK
15 minute winter	MH515	11	69.614	0.054	4.7	0.0951	0.0000	OK
15 minute winter	MH513	11	69.218	0.058	6.9	0.0975	0.0000	OK
15 minute winter	MH512	13	68.995	0.165	9.2	0.2688	0.0000	SURCHARGED
15 minute winter	MH511	13	68.983	0.183	8.9	0.2612	0.0000	SURCHARGED
15 minute winter	MH516	10	69.716	0.046	4.8	0.0872	0.0000	OK
15 minute winter	MH514	10	69.460	0.060	9.5	0.1237	0.0000	OK
15 minute winter	MH510	13	68.972	0.292	25.7	0.6124	0.0000	SURCHARGED
15 minute winter	MH522	12	65.891	0.181	221.1	0.2584	0.0000	OK
15 minute winter	MH505	12	64.193	0.533	237.1	1.1550	0.0000	SURCHARGED
15 minute winter	MH506	12	64.006	0.546	235.7	0.7813	0.0000	SURCHARGED
15 minute winter	MH506A	12	63.589	0.210	235.0	0.3012	0.0000	OK
15 minute winter	MH056B	13	60.292	0.146	239.4	0.1653	0.0000	OK
15 minute winter	MH056C	13	52.669	0.589	239.3	0.6662	0.0000	SURCHARGED
15 minute winter	MH056D	13	48.916	0.216	239.8	0.2439	0.0000	OK
15 minute winter	UU	13	44.320	0.209	241.0	0.0000	0.0000	OK
60 minute winter	EXS9	42	60.591	0.111	13.6	10.4568	0.0000	OK
15 minute winter	MH056E	12	62.777	0.177	234.7	0.3129	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute winter	MH539	9.001	MH546	6.7	1.342	0.474	0.1456	
15 minute winter	MH546	9.002	MH523	15.0	1.537	0.472	0.3219	
15 minute winter	MH526	10.000	MH524	2.3	0.677	0.296	0.0740	
15 minute winter	MH524	10.001	MH523	4.6	1.092	0.534	0.0727	
15 minute winter	MH523	9.003	MH518	20.9	1.445	0.311	0.2196	
15 minute winter	MH518	6.007	MH522	114.5	2.805	0.230	2.0852	
15 minute summer	MH529	11.000	MH517	0.0	0.000	0.000	0.0420	
15 minute winter	MH517	11.001	MH515	2.3	0.866	0.102	0.0059	
15 minute winter	MH515	11.002	MH513	4.6	1.092	0.534	0.0705	
15 minute winter	MH513	11.003	MH512	6.9	0.792	0.314	0.2561	
15 minute winter	MH512	11.004	MH511	8.9	1.080	0.675	0.0958	
15 minute winter	MH511	11.005	MH510	8.8	0.846	0.264	0.0609	
15 minute winter	MH516	12.000	MH514	4.7	0.847	0.206	0.0913	
15 minute winter	MH514	12.001	MH510	9.3	0.968	0.337	0.3637	
15 minute winter	MH510	11.006	MH522	20.0	2.660	1.035	0.1921	
15 minute winter	MH522	1.010	MH505	221.4	2.558	0.481	3.1727	
15 minute winter	MH505	1.011	MH506	235.7	2.137	0.584	0.5463	
15 minute winter	MH506	1.012	MH506A	235.0	2.400	1.666	1.4063	
15 minute winter	MH506A	1.013	MH056E	234.7	4.114	0.431	0.6026	
15 minute winter	MH056B	1.015	MH056C	239.3	6.592	0.271	0.9535	
15 minute winter	MH056C	1.016	MH056D	239.8	2.175	1.632	1.3979	
15 minute winter	MH056D	1.017	UU	241.0	3.741	0.616	7.7735	196.3
60 minute winter	EXS9	Hydro-Brake®	MH056B	6.9				
15 minute winter	MH056E	1.014	MH056B	234.3	5.158	0.381	1.1937	

Results for 30 year 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	MH596	10	71.250	1.197	78.6	6.7535	10.2042	FLOOD
15 minute winter	MH557	13	70.581	0.921	38.3	1.5993	0.0000	SURCHARGED
15 minute winter	MH536	13	70.469	1.019	43.4	1.6665	0.0000	SURCHARGED
15 minute winter	MH535	13	70.290	1.140	56.0	2.2787	0.0000	SURCHARGED
15 minute winter	MSCP FOUL WATER	13	70.267	0.607	4.7	0.0965	0.0000	SURCHARGED
120 minute winter	MSCP SURFACE	118	71.809	1.436	48.3	106.8639	0.0000	FLOOD RISK
15 minute winter	connection MSCP	13	70.257	1.158	51.7	0.0822	0.0000	SURCHARGED
15 minute winter	MH534	13	70.187	1.187	62.0	2.7882	0.0000	SURCHARGED
15 minute winter	access road	11	70.329	0.079	17.8	0.0815	0.0000	OK
60 minute winter	car park	60	70.211	0.761	36.6	38.5832	0.0000	SURCHARGED
15 minute winter	connection car park	13	70.099	1.186	77.0	0.0842	0.0000	FLOOD RISK
15 minute winter	MH530	13	69.969	1.139	90.4	2.8022	0.0000	FLOOD RISK
15 minute winter	MH528	12	69.634	0.904	141.4	3.7279	0.0000	SURCHARGED
15 minute winter	MH521	13	68.642	0.182	151.6	0.3791	0.0000	OK
15 minute winter	RE1	11	71.550	1.300	109.5	7.5426	2.4243	FLOOD
15 minute winter	MH605	12	70.377	0.337	74.4	0.4823	0.0000	SURCHARGED
15 minute winter	MH606	12	70.329	0.364	74.2	0.5215	0.0000	SURCHARGED
15 minute winter	MH504	12	70.273	0.383	75.4	0.5480	0.0000	SURCHARGED
15 minute winter	RE2	12	71.283	0.583	50.4	2.6313	0.0000	FLOOD RISK
15 minute winter	MH502	12	71.030	0.480	88.3	2.3469	0.0000	SURCHARGED
120 minute winter	temporary car park	98	71.204	0.127	24.1	45.9307	0.0000	OK
15 minute winter	MH503	12	70.216	0.366	188.7	0.9277	0.0000	OK
15 minute winter	MH520	13	69.958	0.388	187.2	0.5559	0.0000	SURCHARGED
15 minute summer	MH519	12	69.601	0.201	183.7	0.2872	0.0000	OK
15 minute winter	MH540	10	73.670	0.060	16.6	0.1380	0.0000	OK
Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute winter	MH596	1.000	MH557	30.6	1.737	1.889	0.6917	
15 minute winter	MH557	1.001	MH536	35.7	0.988	0.929	1.5154	
15 minute winter	MH536	1.002	MH535	35.5	1.055	1.029	1.7776	
15 minute winter	MH535	1.003	connection MSCP	44.5	0.875	0.667	0.9935	
15 minute winter	MSCP FOUL WATER	2.000	connection MSCP	-4.7	-0.601	-0.490	0.1083	
120 minute winter	MSCP SURFACE	Hydro-Brake®	connection MSCP	4.9				
15 minute winter	connection MSCP	1.004	MH534	54.6	0.817	0.818	1.9100	
15 minute winter	MH534	1.005	connection car park	65.3	0.927	0.893	1.4072	
15 minute winter	access road	4.000	connection car park	17.1	1.878	0.406	0.2885	
60 minute winter	car park	Hydro-Brake®	connection car park	5.0				
15 minute winter	connection car park	1.006	MH530	79.8	1.133	1.091	1.3382	
15 minute winter	MH530	1.007	MH528	92.2	1.309	1.736	3.0322	
15 minute winter	MH528	1.008	MH521	133.6	2.106	1.677	3.0033	
15 minute winter	MH521	1.009	MH522	148.2	3.263	0.601	3.1581	
15 minute winter	RE1	6.000	MH605	74.4	1.872	2.260	2.0580	
15 minute winter	MH605	6.001	MH606	74.2	1.199	0.517	0.3165	
15 minute winter	MH606	6.002	MH504	75.4	1.103	0.636	0.4645	
15 minute winter	MH504	6.003	MH503	76.7	1.146	0.912	0.4898	
15 minute winter	RE2	7.000	MH502	42.1	1.059	1.202	1.3007	
15 minute winter	MH502	7.001	MH503	84.2	2.117	1.142	0.9823	
120 minute winter	temporary car park	Hydro-Brake®	MH503	4.7				
15 minute winter	MH503	6.004	MH520	187.2	1.745	0.883	2.7438	
15 minute winter	MH520	6.005	MH519	183.4	2.117	1.158	2.2966	
15 minute summer	MH519	6.006	MH518	183.6	3.319	0.431	0.7401	
15 minute winter	MH540	9.000	MH539	16.5	2.539	0.662	0.0699	

Results for 30 year 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	MH539	12	72.162	0.381	16.5	0.4315	0.0000	SURCHARGED
15 minute winter	MH546	11	70.470	0.260	34.2	0.4567	0.0000	SURCHARGED
15 minute winter	MH526	10	70.083	0.063	5.8	0.1020	0.0000	OK
15 minute winter	MH524	12	69.902	0.242	11.5	0.4225	0.0000	SURCHARGED
15 minute summer	MH523	11	69.319	0.149	45.1	0.2297	0.0000	OK
15 minute winter	MH518	13	68.980	0.180	232.9	0.2838	0.0000	OK
15 minute summer	MH529	1	70.440	0.000	0.0	0.0000	0.0000	OK
15 minute winter	MH517	16	70.148	0.288	5.8	0.5455	0.0000	SURCHARGED
15 minute winter	MH515	16	70.146	0.586	10.8	1.0387	0.0000	SURCHARGED
15 minute winter	MH513	15	70.121	0.961	14.1	1.6251	0.0000	SURCHARGED
15 minute winter	MH512	15	70.108	1.278	15.8	2.0815	0.0000	SURCHARGED
15 minute winter	MH511	15	70.099	1.299	10.6	1.8587	0.0000	SURCHARGED
15 minute winter	MH516	14	70.196	0.526	11.6	0.9921	0.0000	SURCHARGED
15 minute winter	MH514	14	70.183	0.783	21.7	1.6138	0.0000	SURCHARGED
15 minute winter	MH510	14	70.093	1.413	33.8	2.9600	0.0000	SURCHARGED
15 minute winter	MH522	14	67.089	1.379	399.8	1.9728	0.0000	SURCHARGED
15 minute winter	MH505	13	65.304	1.644	407.5	3.5640	0.0000	SURCHARGED
15 minute winter	MH506	13	64.748	1.288	406.7	1.8431	0.0000	SURCHARGED
15 minute winter	MH506A	14	63.714	0.335	406.6	0.4792	0.0000	OK
15 minute winter	MH056B	14	60.351	0.205	419.3	0.2316	0.0000	OK
15 minute winter	MH056C	14	53.313	1.233	419.4	1.3944	0.0000	SURCHARGED
15 minute winter	MH056D	16	49.615	0.915	419.5	1.0348	0.0000	SURCHARGED
30 minute summer	UU	21	44.491	0.380	400.7	0.0000	0.0000	OK
60 minute winter	EXS9	45	60.689	0.209	33.1	26.5875	0.0000	OK
15 minute winter	MH056E	14	62.857	0.257	406.9	0.4537	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute winter	MH539	9.001	MH546	14.4	1.865	1.027	0.2312	
15 minute winter	MH546	9.002	MH523	32.2	1.890	1.015	0.5767	
15 minute winter	MH526	10.000	MH524	5.7	0.791	0.726	0.1401	
15 minute winter	MH524	10.001	MH523	9.7	1.239	1.130	0.1339	
15 minute summer	MH523	9.003	MH518	45.1	1.719	0.670	0.3969	
15 minute winter	MH518	6.007	MH522	232.1	3.102	0.465	4.0781	
15 minute summer	MH529	11.000	MH517	0.0	0.000	0.000	0.2710	
15 minute winter	MH517	11.001	MH515	5.2	0.975	0.228	0.0167	
15 minute winter	MH515	11.002	MH513	8.6	1.190	0.998	0.1314	
15 minute winter	MH513	11.003	MH512	11.3	0.841	0.518	0.3850	
15 minute winter	MH512	11.004	MH511	10.6	1.101	0.811	0.0958	
15 minute winter	MH511	11.005	MH510	12.6	0.833	0.378	0.0609	
15 minute winter	MH516	12.000	MH514	10.7	0.990	0.470	0.2876	
15 minute winter	MH514	12.001	MH510	16.2	1.042	0.588	0.5296	
15 minute winter	MH510	11.006	MH522	22.4	2.861	1.159	0.1960	
15 minute winter	MH522	1.010	MH505	385.1	3.491	0.836	4.2995	
15 minute winter	MH505	1.011	MH506	406.7	3.688	1.008	0.5463	
15 minute winter	MH506	1.012	MH506A	406.6	3.690	2.882	1.7318	
15 minute winter	MH506A	1.013	MH056E	406.9	4.388	0.747	0.9699	
15 minute winter	MH056B	1.015	MH056C	419.4	7.503	0.475	1.4682	
15 minute winter	MH056C	1.016	MH056D	419.5	3.804	2.856	1.4107	
15 minute winter	MH056D	1.017	UU	416.5	4.112	1.064	13.3100	465.3
60 minute winter	EXS9	Hydro-Brake®	MH056B	12.4				
15 minute winter	MH056E	1.014	MH056B	407.0	5.724	0.662	1.8637	

Results for 100 year 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
30 minute winter	MH596	16	71.250	1.197	78.8	6.7535	23.2843	FLOOD
15 minute winter	MH557	12	70.827	1.167	39.0	2.0257	0.0000	SURCHARGED
15 minute winter	MH536	12	70.723	1.273	42.7	2.0813	0.0000	SURCHARGED
15 minute winter	MH535	12	70.514	1.364	56.0	2.7263	0.0000	SURCHARGED
15 minute winter	MSCP FOUL WATER	12	70.473	0.813	6.4	0.1292	0.0000	SURCHARGED
180 minute winter	MSCP SURFACE	176	71.842	1.469	47.1	154.3166	0.0000	FLOOD RISK
15 minute winter	connection MSCP	12	70.461	1.362	60.9	0.0967	0.0000	SURCHARGED
15 minute winter	MH534	12	70.355	1.355	83.7	3.1827	0.0000	SURCHARGED
15 minute winter	access road	11	70.540	0.290	22.9	0.2988	0.0000	SURCHARGED
120 minute winter	car park	116	70.236	0.786	29.7	55.6300	0.0000	SURCHARGED
15 minute winter	connection car park	11	70.200	1.287	103.3	0.0914	6.7723	FLOOD
15 minute winter	MH530	11	70.133	1.303	95.5	3.2050	0.0000	FLOOD RISK
15 minute winter	MH528	11	69.870	1.140	164.4	4.6987	0.0000	SURCHARGED
15 minute winter	MH521	13	68.973	0.513	179.1	1.0683	0.0000	SURCHARGED
15 minute winter	RE1	9	71.550	1.300	141.2	7.5426	14.4969	FLOOD
15 minute winter	MH605	12	70.511	0.471	75.4	0.6742	0.0000	SURCHARGED
15 minute winter	MH606	12	70.468	0.503	72.3	0.7193	0.0000	SURCHARGED
15 minute winter	MH504	11	70.416	0.526	74.5	0.7531	0.0000	SURCHARGED
15 minute winter	RE2	10	71.470	0.770	65.0	3.4735	3.9410	FLOOD
15 minute winter	MH502	11	71.322	0.772	108.5	3.7744	0.0000	FLOOD RISK
120 minute winter	temporary car park	116	71.223	0.146	31.7	65.4811	0.0000	OK
15 minute winter	MH503	11	70.366	0.516	200.1	1.3101	0.0000	SURCHARGED
15 minute winter	MH520	11	70.029	0.459	199.0	0.6574	0.0000	SURCHARGED
15 minute winter	MH519	11	69.609	0.209	198.7	0.2995	0.0000	OK
15 minute winter	MH540	12	73.795	0.185	21.4	0.4294	0.0000	SURCHARGED
Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
30 minute winter	MH596	1.000	MH557	31.8	1.807	1.965	0.6917	
15 minute winter	MH557	1.001	MH536	34.5	1.000	0.896	1.5154	
15 minute winter	MH536	1.002	MH535	36.5	1.054	1.059	1.7776	
15 minute winter	MH535	1.003	connection MSCP	55.8	0.864	0.837	0.9935	
15 minute winter	MSCP FOUL WATER	2.000	connection MSCP	-6.4	-0.820	-0.668	0.1083	
180 minute winter	MSCP SURFACE	Hydro-Brake®	connection MSCP	5.0				
15 minute winter	connection MSCP	1.004	MH534	60.8	0.863	0.910	1.9100	
15 minute winter	MH534	1.005	connection car park	83.8	1.190	1.146	1.4072	
15 minute winter	access road	4.000	connection car park	20.9	1.835	0.496	0.3758	
120 minute winter	car park	Hydro-Brake®	connection car park	5.0				
15 minute winter	connection car park	1.006	MH530	83.2	1.181	1.137	1.3382	
15 minute winter	MH530	1.007	MH528	94.5	1.343	1.780	3.0322	
15 minute winter	MH528	1.008	MH521	153.7	2.235	1.929	3.6748	
15 minute winter	MH521	1.009	MH522	168.2	3.209	0.682	3.8643	
15 minute winter	RE1	6.000	MH605	75.4	1.895	2.288	2.0580	
15 minute winter	MH605	6.001	MH606	72.3	1.190	0.503	0.3165	
15 minute winter	MH606	6.002	MH504	74.5	1.093	0.629	0.4645	
15 minute winter	MH504	6.003	MH503	76.7	1.140	0.912	0.4898	
15 minute winter	RE2	7.000	MH502	43.5	1.093	1.241	1.3007	
15 minute winter	MH502	7.001	MH503	92.2	2.319	1.251	0.9875	
120 minute winter	temporary car park	Hydro-Brake®	MH503	4.9				
15 minute winter	MH503	6.004	MH520	199.0	1.804	0.939	2.7537	
15 minute winter	MH520	6.005	MH519	198.7	2.101	1.254	2.3451	
15 minute winter	MH519	6.006	MH518	199.2	3.276	0.467	0.8991	
15 minute winter	MH540	9.000	MH539	20.4	2.633	0.819	0.0863	

Results for 100 year 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	MH539	13	72.878	1.098	20.4	1.2413	0.0000	SURCHARGED
15 minute winter	MH546	12	70.924	0.714	40.5	1.2556	0.0000	SURCHARGED
15 minute winter	MH526	12	70.263	0.243	7.5	0.3927	0.0000	SURCHARGED
15 minute winter	MH524	12	70.061	0.401	13.4	0.7002	0.0000	SURCHARGED
15 minute winter	MH523	12	69.334	0.164	51.1	0.2529	0.0000	OK
15 minute winter	MH518	13	69.040	0.240	256.4	0.3783	0.0000	OK
30 minute winter	MH529	27	70.637	0.197	2.4	0.2234	0.0000	SURCHARGED
30 minute winter	MH517	25	70.623	0.763	8.6	1.4423	0.0000	FLOOD RISK
30 minute winter	MH515	25	70.623	1.063	10.3	1.8842	0.0000	FLOOD RISK
30 minute winter	MH513	25	70.612	1.452	12.1	2.4550	0.0000	FLOOD RISK
30 minute winter	MH512	24	70.603	1.773	14.3	2.8883	0.0000	FLOOD RISK
30 minute winter	MH511	24	70.597	1.797	11.3	2.5715	0.0000	FLOOD RISK
15 minute winter	MH516	14	70.698	1.028	15.0	1.9390	0.0000	FLOOD RISK
15 minute winter	MH514	14	70.670	1.270	24.1	2.6175	0.1600	FLOOD
30 minute winter	MH510	24	70.593	1.913	30.0	4.0069	0.0000	FLOOD RISK
15 minute winter	MH522	13	67.835	2.125	437.8	3.0405	0.0000	SURCHARGED
15 minute winter	MH505	13	65.807	2.147	448.8	4.6549	0.0000	SURCHARGED
15 minute winter	MH506	13	65.140	1.680	445.7	2.4040	0.0000	SURCHARGED
15 minute winter	MH506A	13	63.905	0.526	445.3	0.7532	0.0000	SURCHARGED
15 minute winter	MH056B	13	60.363	0.217	457.1	0.2450	0.0000	OK
15 minute winter	MH056C	14	53.489	1.409	456.8	1.5938	0.0000	SURCHARGED
15 minute winter	MH056D	14	52.350	3.650	457.0	4.1282	0.0000	SURCHARGED
15 minute summer	UU	1	45.486	1.375	444.5	0.0000	0.0000	OK
60 minute winter	EXS9	47	60.741	0.261	43.4	37.7207	0.0000	SURCHARGED
15 minute winter	MH056E	13	62.876	0.276	444.9	0.4883	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute winter	MH539	9.001	MH546	15.6	1.993	1.110	0.2312	
15 minute winter	MH546	9.002	MH523	36.4	2.071	1.147	0.5782	
15 minute winter	MH526	10.000	MH524	6.3	0.839	0.802	0.1681	
15 minute winter	MH524	10.001	MH523	11.1	1.422	1.297	0.1343	
15 minute winter	MH523	9.003	MH518	51.2	1.760	0.762	0.4402	
15 minute winter	MH518	6.007	MH522	251.0	3.136	0.503	4.6345	
30 minute winter	MH529	11.000	MH517	-2.4	-0.358	-0.437	0.5419	
30 minute winter	MH517	11.001	MH515	4.8	0.952	0.210	0.0167	
30 minute winter	MH515	11.002	MH513	7.5	1.194	0.877	0.1314	
30 minute winter	MH513	11.003	MH512	10.1	0.812	0.462	0.3850	
30 minute winter	MH512	11.004	MH511	11.3	1.089	0.862	0.0958	
30 minute winter	MH511	11.005	MH510	13.6	0.875	0.410	0.0609	
15 minute winter	MH516	12.000	MH514	11.1	0.977	0.484	0.2876	
15 minute winter	MH514	12.001	MH510	17.2	1.003	0.622	0.5296	
30 minute winter	MH510	11.006	MH522	23.9	3.052	1.237	0.1960	
15 minute winter	MH522	1.010	MH505	412.3	3.738	0.895	4.2995	
15 minute winter	MH505	1.011	MH506	445.7	4.041	1.104	0.5463	
15 minute winter	MH506	1.012	MH506A	445.3	4.037	3.156	1.7834	
15 minute winter	MH506A	1.013	MH056E	444.9	4.388	0.816	1.0389	
15 minute winter	MH056B	1.015	MH056C	456.8	7.637	0.518	1.5710	
15 minute winter	MH056C	1.016	MH056D	457.0	4.144	3.111	1.4107	
15 minute winter	MH056D	1.017	UU	456.5	4.139	1.166	13.3105	554.2
60 minute winter	EXS9	Hydro-Brake®	MH056B	12.6				
15 minute winter	MH056E	1.014	MH056B	444.7	5.793	0.723	2.0088	

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
30 minute winter	MH596	14	71.250	1.197	110.3	6.7535	45.0924	FLOOD
15 minute winter	MH557	11	71.075	1.415	40.8	2.4561	0.0000	SURCHARGED
15 minute winter	MH536	11	70.984	1.534	42.3	2.5081	0.0000	SURCHARGED
15 minute winter	MH535	11	70.739	1.589	74.3	3.1760	0.0000	SURCHARGED
15 minute winter	MSCP FOUL WATER	11	70.651	0.991	7.8	0.1576	0.0000	SURCHARGED
240 minute winter	MSCP SURFACE	236	71.899	1.526	53.5	239.0211	0.0000	FLOOD RISK
15 minute winter	connection MSCP	11	70.648	1.549	77.3	0.1100	0.0000	SURCHARGED
15 minute winter	MH534	11	70.484	1.484	113.9	3.4867	0.0000	FLOOD RISK
15 minute winter	access road	11	70.951	0.701	32.1	0.7225	0.0000	SURCHARGED
120 minute winter	car park	118	70.275	0.825	41.5	88.7271	0.0000	SURCHARGED
30 minute winter	connection car park	16	70.200	1.287	125.7	0.0914	36.4885	FLOOD
15 minute winter	MH530	11	70.210	1.380	99.8	3.3948	1.0060	FLOOD
15 minute winter	MH528	11	70.235	1.505	190.5	6.2042	0.0000	FLOOD RISK
15 minute winter	MH521	12	69.549	1.089	199.2	2.2705	0.0000	SURCHARGED
15 minute winter	RE1	8	71.550	1.300	197.6	7.5426	35.4527	FLOOD
15 minute winter	MH605	11	70.624	0.584	75.3	0.8360	0.0000	SURCHARGED
15 minute winter	MH606	11	70.586	0.621	72.0	0.8883	0.0000	FLOOD RISK
15 minute winter	MH504	11	70.539	0.649	74.4	0.9289	0.0000	SURCHARGED
15 minute winter	RE2	9	71.470	0.770	91.0	3.4735	18.0404	FLOOD
15 minute winter	MH502	10	71.495	0.945	115.5	4.6217	0.0000	FLOOD RISK
180 minute winter	temporary car park	172	71.258	0.181	32.9	100.8419	0.0000	SURCHARGED
15 minute winter	MH503	11	70.491	0.641	216.0	1.6263	0.0000	SURCHARGED
15 minute winter	MH520	11	70.101	0.531	214.5	0.7606	0.0000	SURCHARGED
15 minute winter	MH519	13	69.709	0.309	214.9	0.4427	0.0000	OK
15 minute winter	MH540	12	74.570	0.960	30.0	2.2253	0.3728	FLOOD
Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
30 minute winter	MH596	1.000	MH557	30.4	1.730	1.881	0.6917	
15 minute winter	MH557	1.001	MH536	33.9	1.038	0.881	1.5154	
15 minute winter	MH536	1.002	MH535	37.2	1.045	1.078	1.7776	
15 minute winter	MH535	1.003	connection MSCP	72.9	1.035	1.093	0.9935	
15 minute winter	MSCP FOUL WATER	2.000	connection MSCP	-7.8	-1.000	-0.815	0.1083	
240 minute winter	MSCP SURFACE	Hydro-Brake®	connection MSCP	5.0				
15 minute winter	connection MSCP	1.004	MH534	77.5	1.100	1.160	1.9100	
15 minute winter	MH534	1.005	connection car park	113.1	1.606	1.547	1.4072	
15 minute winter	access road	4.000	connection car park	30.5	1.802	0.723	0.3758	
120 minute winter	car park	Hydro-Brake®	connection car park	5.0				
30 minute winter	connection car park	1.006	MH530	81.5	1.158	1.115	1.3382	
15 minute winter	MH530	1.007	MH528	94.1	1.336	1.771	3.0322	
15 minute winter	MH528	1.008	MH521	157.1	2.231	1.972	3.6748	
15 minute winter	MH521	1.009	MH522	169.5	3.200	0.688	3.8643	
15 minute winter	RE1	6.000	MH605	75.3	1.894	2.287	2.0580	
15 minute winter	MH605	6.001	MH606	72.0	1.190	0.501	0.3165	
15 minute winter	MH606	6.002	MH504	74.4	1.093	0.627	0.4645	
15 minute winter	MH504	6.003	MH503	76.7	1.143	0.913	0.4898	
15 minute winter	RE2	7.000	MH502	42.6	1.072	1.217	1.3007	
15 minute winter	MH502	7.001	MH503	95.1	2.392	1.290	0.9875	
180 minute winter	temporary car park	Hydro-Brake®	MH503	5.0				
15 minute winter	MH503	6.004	MH520	214.5	1.945	1.012	2.7537	
15 minute winter	MH520	6.005	MH519	214.9	2.170	1.357	2.8053	
15 minute winter	MH519	6.006	MH518	214.4	3.287	0.503	1.3812	
15 minute winter	MH540	9.000	MH539	21.7	2.814	0.870	0.0863	

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	MH539	14	73.636	1.856	21.7	2.0986	0.0000	FLOOD RISK
15 minute winter	MH546	12	71.717	1.507	50.6	2.6501	0.0000	SURCHARGED
15 minute winter	MH526	13	70.705	0.685	10.5	1.1054	0.0000	FLOOD RISK
15 minute winter	MH524	13	70.469	0.809	16.2	1.4125	0.0000	SURCHARGED
15 minute winter	MH523	13	69.756	0.586	61.9	0.9053	0.0000	SURCHARGED
15 minute winter	MH518	13	69.525	0.725	285.1	1.1447	0.0000	SURCHARGED
15 minute winter	MH529	16	70.749	0.309	3.6	0.3496	0.0000	FLOOD RISK
60 minute winter	MH517	36	70.730	0.870	9.2	1.6452	1.5980	FLOOD
30 minute winter	MH515	20	70.730	1.170	12.7	2.0744	0.7037	FLOOD
15 minute winter	MH513	12	70.700	1.540	15.0	2.6041	1.2562	FLOOD
15 minute winter	MH512	12	70.693	1.863	16.3	3.0352	0.0000	FLOOD RISK
15 minute winter	MH511	11	70.660	1.860	12.9	2.6617	0.1172	FLOOD
15 minute winter	MH516	11	70.730	1.060	21.0	1.9992	1.1537	FLOOD
30 minute winter	MH514	18	70.670	1.270	25.8	2.6175	6.8180	FLOOD
30 minute winter	MH510	19	70.640	1.960	39.3	4.1062	5.4064	FLOOD
15 minute winter	MH522	12	68.470	2.760	446.3	3.9492	0.0000	SURCHARGED
15 minute winter	MH505	12	66.361	2.701	496.8	5.8566	0.0000	SURCHARGED
15 minute winter	MH506	12	65.565	2.105	486.9	3.0122	0.0000	SURCHARGED
15 minute winter	MH506A	12	64.090	0.711	486.7	1.0180	0.0000	SURCHARGED
15 minute winter	MH056B	12	60.376	0.230	498.9	0.2601	0.0000	OK
15 minute winter	MH056C	14	54.735	2.655	498.6	3.0030	0.0000	SURCHARGED
15 minute winter	MH056D	14	53.441	4.741	493.4	5.3619	0.0000	SURCHARGED
15 minute summer	UU	1	45.486	1.375	482.8	0.0000	0.0000	OK
60 minute winter	EXS9	50	60.822	0.342	60.8	58.4484	0.0000	SURCHARGED
15 minute winter	MH056E	12	62.900	0.300	486.4	0.5306	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute winter	MH539	9.001	MH546	17.7	2.258	1.258	0.2312	
15 minute winter	MH546	9.002	MH523	43.0	2.444	1.354	0.5782	
15 minute winter	MH526	10.000	MH524	6.5	0.834	0.824	0.1681	
15 minute winter	MH524	10.001	MH523	13.0	1.663	1.517	0.1356	
15 minute winter	MH523	9.003	MH518	60.8	1.783	0.903	0.6023	
15 minute winter	MH518	6.007	MH522	268.7	3.190	0.539	5.5359	
15 minute winter	MH529	11.000	MH517	-3.6	-0.488	-0.644	0.5419	
60 minute winter	MH517	11.001	MH515	4.4	0.943	0.190	0.0167	
30 minute winter	MH515	11.002	MH513	8.5	1.178	0.991	0.1314	
15 minute winter	MH513	11.003	MH512	10.3	0.833	0.470	0.3850	
15 minute winter	MH512	11.004	MH511	11.6	0.979	0.885	0.0958	
15 minute winter	MH511	11.005	MH510	13.6	0.785	0.410	0.0609	
15 minute winter	MH516	12.000	MH514	11.3	0.972	0.496	0.2876	
30 minute winter	MH514	12.001	MH510	14.9	0.942	0.540	0.5296	
30 minute winter	MH510	11.006	MH522	24.0	3.068	1.243	0.1960	
15 minute winter	MH522	1.010	MH505	427.4	3.876	0.928	4.2995	
15 minute winter	MH505	1.011	MH506	486.9	4.415	1.207	0.5463	
15 minute winter	MH506	1.012	MH506A	486.7	4.413	3.450	1.7834	
15 minute winter	MH506A	1.013	MH056E	486.4	4.499	0.893	1.0792	
15 minute winter	MH056B	1.015	MH056C	498.6	7.770	0.565	1.6850	
15 minute winter	MH056C	1.016	MH056D	493.4	4.474	3.359	1.4251	
15 minute winter	MH056D	1.017	UU	491.7	4.458	1.256	13.3105	666.6
60 minute winter	EXS9	Hydro-Brake®	MH056B	12.7				
15 minute winter	MH056E	1.014	MH056B	486.2	5.840	0.791	2.1724	