

Design Settings

Rainfall Methodology	FSR	Maximum Time of Concentration (mins)	30.00
Return Period (years)	100	Maximum Rainfall (mm/hr)	50.0
Additional Flow (%)	45	Minimum Velocity (m/s)	1.00
FSR Region	England and Wales	Connection Type	Level Soffits
M5-60 (mm)	20.000	Minimum Backdrop Height (m)	0.200
Ratio-R	0.400	Preferred Cover Depth (m)	1.200
CV	0.750	Include Intermediate Ground	✓
Time of Entry (mins)	5.00	Enforce best practice design rules	✓

Nodes

Name	Area (ha)	T of E (mins)	Cover Level (m)	Node Type	Manhole Type	Diameter (mm)	Easting (m)	Northing (m)	Depth (m)
S35	0.077	5.00	113.056	Manhole	Adoptable	1200	537221.695	133027.628	2.381
S36	0.027	5.00	112.015	Manhole	Adoptable	1350	537190.771	133030.286	1.630
S37	0.011	5.00	112.242	Manhole	Adoptable	1200	537194.323	133063.525	2.127
S38			112.188	Manhole	Adoptable	1200	537197.796	133080.226	2.253
S40	0.051	5.00	112.545	Manhole	Adoptable	1200	537221.833	133084.189	1.645
S41			112.156	Manhole	Adoptable	1200	537205.472	133085.679	2.206
S42	0.018	5.00	111.973	Manhole	Adoptable	1200	537202.101	133091.342	2.238
S43			111.751	Manhole	Adoptable	1200	537201.714	133104.018	2.256
S44	0.044	5.00	111.382	Manhole	Adoptable	1350	537204.667	133120.163	2.142
S45	0.038	5.00	110.383	Manhole	Adoptable	1350	537212.569	133144.530	2.343
S46	0.014	5.00	109.502	Manhole	Adoptable	1500	537219.251	133159.800	2.302
S80	0.059	5.00	116.900	Manhole	Adoptable	1200	537356.315	133066.410	1.775
S47	0.027	5.00	115.390	Manhole	Adoptable	1200	537328.632	133088.593	2.140
S48	0.073	5.00	113.687	Manhole	Adoptable	1350	537290.728	133097.662	1.377
S49	0.035	5.00	113.550	Manhole	Adoptable	1200	537300.132	133110.112	2.250
S50	0.013	5.00	112.161	Manhole	Adoptable	1200	537281.222	133123.952	2.599
S53			111.132	Manhole	Adoptable	1350	537267.237	133138.326	3.192
S39	0.013	5.00	113.168	Manhole	Adoptable	1350	537244.690	133072.410	1.629
S60	0.046	5.00	112.795	Manhole	Adoptable	1350	537231.842	133080.675	1.381
S61	0.005	5.00	111.995	Manhole	Adoptable	1350	537234.541	133103.313	1.718
S51	0.039	5.00	111.590	Manhole	Adoptable	1350	537238.964	133113.700	1.765
S52	0.063	5.00	111.161	Manhole	Adoptable	1350	537244.912	133125.265	1.536
S78			110.885	Manhole	Adoptable	1350	537233.546	133134.189	1.500
S79	0.013	5.00	109.931	Manhole	Adoptable	1500	537249.394	133153.723	2.316
S55	0.038	5.00	109.265	Manhole	Adoptable	1500	537236.390	133164.490	2.315
S56 - Outfall			104.360	Junction		20	537232.448	133180.054	0.810

Links (Input)

Name	US Node	DS Node	Length (m)	ks (mm) / n	US IL (m)	DS IL (m)	Fall (m)	Slope (1:X)	Dia (mm)	Link Type	T of C (mins)
1.000	S35	S36	31.038	0.600	110.675	110.385	0.290	107.0	300	1 STANDARD	5.34
1.001	S36	S37	33.428	0.600	110.385	110.115	0.270	123.8	300	1 STANDARD	5.74
1.002	S37	S38	17.058	0.600	110.115	109.935	0.180	94.8	300	1 STANDARD	5.91
1.003	S38	S42	11.921	0.600	109.935	109.735	0.200	59.6	300	1 STANDARD	6.01
2.000	S40	S41	16.429	0.600	110.900	110.025	0.875	18.8	225	1 STANDARD	5.09
2.001	S41	S42	6.590	0.600	109.950	109.735	0.215	30.7	300	1 STANDARD	5.13
1.004	S42	S43	12.682	0.600	109.735	109.495	0.240	52.8	300	1 STANDARD	6.11
1.005	S43	S44	16.413	0.600	109.495	109.315	0.180	91.2	300	1 STANDARD	6.27
1.006	S44	S45	25.616	0.600	109.240	108.040	1.200	21.3	375	1 STANDARD	6.38
1.007	S45	S46	16.668	0.600	108.040	107.200	0.840	19.8	525	1 STANDARD	6.44

Links (Input)

Name	US Node	DS Node	Length (m)	ks (mm) / n	US IL (m)	DS IL (m)	Fall (m)	Slope (1:X)	Dia (mm)	Link Type	T of C (mins)
1.008	S46	S55	17.769	0.600	107.200	106.950	0.250	71.1	525	1 STANDARD	6.55
3.000	S80	S47	35.474	0.600	115.125	113.250	1.875	18.9	225	1 STANDARD	5.20
3.001	S47	S49	35.712	0.600	113.250	111.375	1.875	19.0	225	1 STANDARD	5.39
4.000	S48	S49	15.602	0.600	112.310	111.375	0.935	16.7	225	1 STANDARD	5.08
3.002	S49	S50	23.434	0.600	111.300	109.562	1.738	13.5	300	1 STANDARD	5.48
3.003	S50	S53	20.055	0.600	109.562	108.015	1.547	13.0	300	1 STANDARD	5.56
3.004	S53	S79	23.568	0.600	107.940	107.615	0.325	72.5	375	1 STANDARD	5.74
5.000	S39	S60	15.277	0.600	111.539	111.414	0.125	122.2	225	1 STANDARD	5.22
5.001	S60	S61	22.798	0.600	111.414	110.352	1.062	21.5	225	1 STANDARD	5.35
5.002	S61	S51	11.289	0.600	110.277	109.825	0.452	25.0	300	1 STANDARD	5.41
5.003	S51	S52	13.005	0.600	109.825	109.625	0.200	65.0	300	1 STANDARD	5.52
5.004	S52	S78	14.451	0.600	109.625	109.385	0.240	60.2	300	1 STANDARD	5.64
5.005	S78	S79	25.154	0.600	109.385	107.690	1.695	14.8	300	1 STANDARD	5.74
3.005	S79	S55	16.883	0.600	107.615	106.950	0.665	25.4	525	1 STANDARD	5.81
1.009	S55	S56 - Outfall	16.055	0.600	106.950	103.550	3.400	4.7	225	1 STANDARD	6.59

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	31.038	107.0	300	1 STANDARD	113.056	110.675	2.081	112.015	110.385	1.330
1.001	33.428	123.8	300	1 STANDARD	112.015	110.385	1.330	112.242	110.115	1.827
1.002	17.058	94.8	300	1 STANDARD	112.242	110.115	1.827	112.188	109.935	1.953
1.003	11.921	59.6	300	1 STANDARD	112.188	109.935	1.953	111.973	109.735	1.938
2.000	16.429	18.8	225	1 STANDARD	112.545	110.900	1.420	112.156	110.025	1.906
2.001	6.590	30.7	300	1 STANDARD	112.156	109.950	1.906	111.973	109.735	1.938
1.004	12.682	52.8	300	1 STANDARD	111.973	109.735	1.938	111.751	109.495	1.956
1.005	16.413	91.2	300	1 STANDARD	111.751	109.495	1.956	111.382	109.315	1.767
1.006	25.616	21.3	375	1 STANDARD	111.382	109.240	1.767	110.383	108.040	1.968
1.007	16.668	19.8	525	1 STANDARD	110.383	108.040	1.818	109.502	107.200	1.777
1.008	17.769	71.1	525	1 STANDARD	109.502	107.200	1.777	109.265	106.950	1.790
3.000	35.474	18.9	225	1 STANDARD	116.900	115.125	1.550	115.390	113.250	1.915
3.001	35.712	19.0	225	1 STANDARD	115.390	113.250	1.915	113.550	111.375	1.950
4.000	15.602	16.7	225	1 STANDARD	113.687	112.310	1.152	113.550	111.375	1.950
3.002	23.434	13.5	300	1 STANDARD	113.550	111.300	1.950	112.161	109.562	2.299

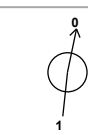
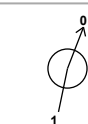
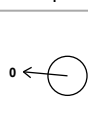
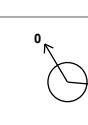
Link	US Node	Dia (mm)	Node Type	MH Type	DS Node	Dia (mm)	Node Type	MH Type
1.000	S35	1200	Manhole	Adoptable	S36	1350	Manhole	Adoptable
1.001	S36	1350	Manhole	Adoptable	S37	1200	Manhole	Adoptable
1.002	S37	1200	Manhole	Adoptable	S38	1200	Manhole	Adoptable
1.003	S38	1200	Manhole	Adoptable	S42	1200	Manhole	Adoptable
2.000	S40	1200	Manhole	Adoptable	S41	1200	Manhole	Adoptable
2.001	S41	1200	Manhole	Adoptable	S42	1200	Manhole	Adoptable
1.004	S42	1200	Manhole	Adoptable	S43	1200	Manhole	Adoptable
1.005	S43	1200	Manhole	Adoptable	S44	1350	Manhole	Adoptable
1.006	S44	1350	Manhole	Adoptable	S45	1350	Manhole	Adoptable
1.007	S45	1350	Manhole	Adoptable	S46	1500	Manhole	Adoptable
1.008	S46	1500	Manhole	Adoptable	S55	1500	Manhole	Adoptable
3.000	S80	1200	Manhole	Adoptable	S47	1200	Manhole	Adoptable
3.001	S47	1200	Manhole	Adoptable	S49	1200	Manhole	Adoptable
4.000	S48	1350	Manhole	Adoptable	S49	1200	Manhole	Adoptable
3.002	S49	1200	Manhole	Adoptable	S50	1200	Manhole	Adoptable

Pipeline Schedule

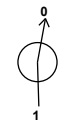
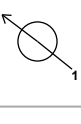
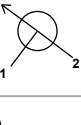
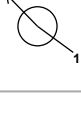
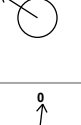
Link	Length (m)	Slope (1:X)	Dia (mm)	Link Type	US CL (m)	US IL (m)	US Depth (m)	DS CL (m)	DS IL (m)	DS Depth (m)
3.003	20.055	13.0	300	1 STANDARD	112.161	109.562	2.299	111.132	108.015	2.817
3.004	23.568	72.5	375	1 STANDARD	111.132	107.940	2.817	109.931	107.615	1.941
5.000	15.277	122.2	225	1 STANDARD	113.168	111.539	1.404	112.795	111.414	1.156
5.001	22.798	21.5	225	1 STANDARD	112.795	111.414	1.156	111.995	110.352	1.418
5.002	11.289	25.0	300	1 STANDARD	111.995	110.277	1.418	111.590	109.825	1.465
5.003	13.005	65.0	300	1 STANDARD	111.590	109.825	1.465	111.161	109.625	1.236
5.004	14.451	60.2	300	1 STANDARD	111.161	109.625	1.236	110.885	109.385	1.200
5.005	25.154	14.8	300	1 STANDARD	110.885	109.385	1.200	109.931	107.690	1.941
3.005	16.883	25.4	525	1 STANDARD	109.931	107.615	1.791	109.265	106.950	1.790
1.009	16.055	4.7	225	1 STANDARD	109.265	106.950	2.090	104.360	103.550	0.585

Link	US Node	Dia (mm)	Node Type	MH Type	DS Node	Dia (mm)	Node Type	MH Type
3.003	S50	1200	Manhole	Adoptable	S53	1350	Manhole	Adoptable
3.004	S53	1350	Manhole	Adoptable	S79	1500	Manhole	Adoptable
5.000	S39	1350	Manhole	Adoptable	S60	1350	Manhole	Adoptable
5.001	S60	1350	Manhole	Adoptable	S61	1350	Manhole	Adoptable
5.002	S61	1350	Manhole	Adoptable	S51	1350	Manhole	Adoptable
5.003	S51	1350	Manhole	Adoptable	S52	1350	Manhole	Adoptable
5.004	S52	1350	Manhole	Adoptable	S78	1350	Manhole	Adoptable
5.005	S78	1350	Manhole	Adoptable	S79	1500	Manhole	Adoptable
3.005	S79	1500	Manhole	Adoptable	S55	1500	Manhole	Adoptable
1.009	S55	1500	Manhole	Adoptable	S56 - Outfall	20	Junction	

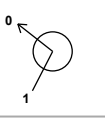
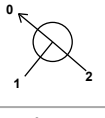
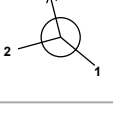
Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Node Type	Connections	Link	IL (m)	Dia (mm)	Link Type	
S35	537221.695	133027.628	113.056	2.381	1200	Manhole		0	1.000	110.675	300	1 STANDARD
S36	537190.771	133030.286	112.015	1.630	1350	Manhole		1	1.000	110.385	300	1 STANDARD
S37	537194.323	133063.525	112.242	2.127	1200	Manhole		0	1.001	110.385	300	1 STANDARD
S38	537197.796	133080.226	112.188	2.253	1200	Manhole		1	1.001	110.115	300	1 STANDARD
S39	537197.796	133080.226	112.188	2.253	1200	Manhole		0	1.002	110.115	300	1 STANDARD
S40	537197.796	133080.226	112.188	2.253	1200	Manhole		1	1.002	109.935	300	1 STANDARD
S41	537221.833	133084.189	112.545	1.645	1200	Manhole		0	2.000	110.900	225	1 STANDARD
S42	537205.472	133085.679	112.156	2.206	1200	Manhole		1	2.000	110.025	225	1 STANDARD
S43	537205.472	133085.679	112.156	2.206	1200	Manhole		0	2.001	109.950	300	1 STANDARD

Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Node Type	Connections	Link	IL (m)	Dia (mm)	Link Type
S42	537202.101	133091.342	111.973	2.238	1200	Manhole		1 2.001 109.735 300 1 STANDARD			
							2 1.003 109.735 300 1 STANDARD				
							0 1.004 109.735 300 1 STANDARD				
S43	537201.714	133104.018	111.751	2.256	1200	Manhole		1 1.004 109.495 300 1 STANDARD			
							0 1.005 109.495 300 1 STANDARD				
S44	537204.667	133120.163	111.382	2.142	1350	Manhole		1 1.005 109.315 300 1 STANDARD			
							0 1.006 109.240 375 1 STANDARD				
S45	537212.569	133144.530	110.383	2.343	1350	Manhole		1 1.006 108.040 375 1 STANDARD			
							0 1.007 108.040 525 1 STANDARD				
S46	537219.251	133159.800	109.502	2.302	1500	Manhole		1 1.007 107.200 525 1 STANDARD			
							0 1.008 107.200 525 1 STANDARD				
S80	537356.315	133066.410	116.900	1.775	1200	Manhole		0 3.000 115.125 225 1 STANDARD			
S47	537328.632	133088.593	115.390	2.140	1200	Manhole		1 3.000 113.250 225 1 STANDARD			
							0 3.001 113.250 225 1 STANDARD				
S48	537290.728	133097.662	113.687	1.377	1350	Manhole		0 4.000 112.310 225 1 STANDARD			
S49	537300.132	133110.112	113.550	2.250	1200	Manhole		1 4.000 111.375 225 1 STANDARD			
							2 3.001 111.375 225 1 STANDARD				
S50	537281.222	133123.952	112.161	2.599	1200	Manhole		0 3.002 111.300 300 1 STANDARD			
							1 3.002 109.562 300 1 STANDARD				
S53	537267.237	133138.326	111.132	3.192	1350	Manhole		0 3.003 109.562 300 1 STANDARD			
							1 3.003 108.015 300 1 STANDARD				
S39	537244.690	133072.410	113.168	1.629	1350	Manhole		0 3.004 107.940 375 1 STANDARD			
							0 5.000 111.539 225 1 STANDARD				
S60	537231.842	133080.675	112.795	1.381	1350	Manhole		1 5.000 111.414 225 1 STANDARD			
							0 5.001 111.414 225 1 STANDARD				

Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Node Type	Connections	Link	IL (m)	Dia (mm)	Link Type		
S61	537234.541	133103.313	111.995	1.718	1350	Manhole		1	5.001	110.352	225	1 STANDARD	
S51	537238.964	133113.700	111.590	1.765	1350	Manhole		1	5.002	109.825	300	1 STANDARD	
S52	537244.912	133125.265	111.161	1.536	1350	Manhole		1	5.003	109.625	300	1 STANDARD	
S78	537233.546	133134.189	110.885	1.500	1350	Manhole		1	5.004	109.385	300	1 STANDARD	
S79	537249.394	133153.723	109.931	2.316	1500	Manhole		1	5.005	107.690	300	1 STANDARD	
S55	537236.390	133164.490	109.265	2.315	1500	Manhole		2	3.004	107.615	375	1 STANDARD	
S56	Outfall	537232.448	133180.054	104.360	0.810	20	Junction		0	1.008	106.950	525	1 STANDARD
								1	1.009	106.950	225	1 STANDARD	
								0	1.009	103.550	225	1 STANDARD	

Simulation Settings

Rainfall Methodology	FSR	Analysis Speed	Normal
Rainfall Events	Singular	Skip Steady State	x
FSR Region	England and Wales	Drain Down Time (mins)	1440
M5-60 (mm)	20.000	Additional Storage (m³/ha)	0.0
Ratio-R	0.400	Starting Level (m)	
Summer CV	1.000	Check Discharge Rate(s)	x
Winter CV	1.000	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
30	35	0	0
100	0	0	0
100	45	0	0

Node S42 Online Hydro-Brake® Control

Flap Valve	x	Objective	(HE) Minimise upstream storage
Replaces Downstream Link	x	Sump Available	✓
Invert Level (m)	109.735	Product Number	CTL-SHE-0094-5000-1800-5000
Design Depth (m)	1.800	Min Outlet Diameter (m)	0.150
Design Flow (l/s)	5.0	Min Node Diameter (mm)	1200

Node S47 Online Hydro-Brake® Control

Flap Valve	x	Objective	(HE) Minimise upstream storage
Replaces Downstream Link	x	Sump Available	✓
Invert Level (m)	113.250	Product Number	CTL-SHE-0045-1000-1200-1000
Design Depth (m)	1.200	Min Outlet Diameter (m)	0.075
Design Flow (l/s)	1.0	Min Node Diameter (mm)	1200

Node S49 Online Hydro-Brake® Control

Flap Valve	x	Objective	(HE) Minimise upstream storage
Replaces Downstream Link	x	Sump Available	✓
Invert Level (m)	111.300	Product Number	CTL-SHE-0042-1000-1600-1000
Design Depth (m)	1.600	Min Outlet Diameter (m)	0.075
Design Flow (l/s)	1.0	Min Node Diameter (mm)	1200

Node S53 Online Hydro-Brake® Control

Flap Valve	x	Objective	(HE) Minimise upstream storage
Replaces Downstream Link	x	Sump Available	✓
Invert Level (m)	107.940	Product Number	CTL-SHE-0044-1000-1250-1000
Design Depth (m)	1.250	Min Outlet Diameter (m)	0.075
Design Flow (l/s)	1.0	Min Node Diameter (mm)	1200

Node S51 Online Hydro-Brake® Control

Flap Valve	x	Objective	(HE) Minimise upstream storage
Replaces Downstream Link	x	Sump Available	✓
Invert Level (m)	109.825	Product Number	CTL-SHE-0040-8000-1200-8000
Design Depth (m)	1.200	Min Outlet Diameter (m)	0.075
Design Flow (l/s)	0.8	Min Node Diameter (mm)	1200

Node S55 Online Hydro-Brake® Control

Flap Valve	x	Objective	(HE) Minimise upstream storage
Replaces Downstream Link	x	Sump Available	✓
Invert Level (m)	106.950	Product Number	CTL-SHE-0085-3700-1400-3700
Design Depth (m)	1.400	Min Outlet Diameter (m)	0.100
Design Flow (l/s)	3.7	Min Node Diameter (mm)	1200

Node S47 Depth/Area Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Safety Factor	2.0	Invert Level (m)	113.320
Side Inf Coefficient (m/hr)	0.00000	Porosity	0.95	Time to half empty (mins)	528

Depth (m)	Area (m²)	Inf Area (m²)	Depth (m)	Area (m²)	Inf Area (m²)	Depth (m)	Area (m²)	Inf Area (m²)
0.000	54.0	0.0	1.200	54.0	0.0	1.201	0.0	0.0

Node S49 Depth/Area Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Safety Factor	2.0	Invert Level (m)	111.325
Side Inf Coefficient (m/hr)	0.00000	Porosity	0.95	Time to half empty (mins)	

Depth (m)	Area (m ²)	Inf Area (m ²)	Depth (m)	Area (m ²)	Inf Area (m ²)	Depth (m)	Area (m ²)	Inf Area (m ²)
0.000	120.0	0.0	1.200	120.0	0.0	1.201	0.0	0.0

Node S53 Depth/Area Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Safety Factor	2.0	Invert Level (m)	107.950
Side Inf Coefficient (m/hr)	0.00000	Porosity	0.95	Time to half empty (mins)	

Depth (m)	Area (m ²)	Inf Area (m ²)	Depth (m)	Area (m ²)	Inf Area (m ²)	Depth (m)	Area (m ²)	Inf Area (m ²)
0.000	115.0	0.0	1.200	115.0	0.0	1.201	0.0	0.0

Node S51 Depth/Area Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Safety Factor	2.0	Invert Level (m)	109.825
Side Inf Coefficient (m/hr)	0.00000	Porosity	0.95	Time to half empty (mins)	315

Depth (m)	Area (m ²)	Inf Area (m ²)	Depth (m)	Area (m ²)	Inf Area (m ²)	Depth (m)	Area (m ²)	Inf Area (m ²)
0.000	132.0	0.0	1.200	132.0	0.0	1.201	0.0	0.0

Node S41 Depth/Area Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Safety Factor	2.0	Invert Level (m)	109.950
Side Inf Coefficient (m/hr)	0.00000	Porosity	0.95	Time to half empty (mins)	250

Depth (m)	Area (m ²)	Inf Area (m ²)	Depth (m)	Area (m ²)	Inf Area (m ²)	Depth (m)	Area (m ²)	Inf Area (m ²)
0.000	67.5	0.0	1.200	67.5	0.0	1.201	0.0	0.0

Node S55 Depth/Area Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Safety Factor	2.0	Invert Level (m)	106.975
Side Inf Coefficient (m/hr)	0.00000	Porosity	0.95	Time to half empty (mins)	1620

Depth (m)	Area (m ²)	Inf Area (m ²)	Depth (m)	Area (m ²)	Inf Area (m ²)	Depth (m)	Area (m ²)	Inf Area (m ²)
0.000	155.0	0.0	1.200	155.0	0.0	1.201	0.0	0.0

Node S55 Depth/Area Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Safety Factor	2.0	Invert Level (m)	106.975
Side Inf Coefficient (m/hr)	0.00000	Porosity	0.95	Time to half empty (mins)	1620

Depth (m)	Area (m ²)	Inf Area (m ²)	Depth (m)	Area (m ²)	Inf Area (m ²)	Depth (m)	Area (m ²)	Inf Area (m ²)
0.000	60.0	0.0	1.200	60.0	0.0	1.201	0.0	0.0

Results for 1 year Critical Storm Duration. Lowest mass balance: 99.67%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	S35	10	110.747	0.072	13.8	0.0810	0.0000	OK
15 minute summer	S36	10	110.471	0.086	18.4	0.1231	0.0000	OK
15 minute summer	S37	11	110.200	0.085	20.1	0.0958	0.0000	OK
60 minute summer	S38	46	110.110	0.175	13.8	0.1982	0.0000	OK
15 minute summer	S40	10	110.942	0.042	9.1	0.0471	0.0000	OK
60 minute summer	S41	46	110.110	0.160	16.2	10.4638	0.0000	OK
60 minute summer	S42	46	110.110	0.375	15.6	0.4245	0.0000	SURCHARGED
60 minute summer	S43	47	109.535	0.039	4.4	0.0447	0.0000	OK
15 minute summer	S44	10	109.283	0.043	12.1	0.0611	0.0000	OK
15 minute summer	S45	10	108.087	0.047	18.8	0.0678	0.0000	OK
15 minute summer	S46	10	107.269	0.069	21.2	0.1224	0.0000	OK
15 minute summer	S80	10	115.170	0.045	10.6	0.0508	0.0000	OK
120 minute winter	S47	114	113.479	0.229	4.7	8.4527	0.0000	SURCHARGED
15 minute summer	S48	10	112.358	0.048	13.1	0.0692	0.0000	OK
720 minute winter	S49	705	111.582	0.282	2.3	29.6219	0.0000	OK
15 minute summer	S50	11	109.582	0.020	2.7	0.0226	0.0000	OK
1440 minute winter	S53	1020	108.031	0.091	0.7	8.9957	0.0000	OK
15 minute summer	S39	10	111.573	0.033	2.3	0.0479	0.0000	OK
15 minute summer	S60	10	111.460	0.046	10.5	0.0657	0.0000	OK
15 minute summer	S61	10	110.326	0.049	11.2	0.0704	0.0000	OK
480 minute summer	S51	344	109.952	0.127	3.2	16.1028	0.0000	OK
15 minute summer	S52	10	109.684	0.059	11.4	0.0845	0.0000	OK
15 minute summer	S78	10	109.425	0.040	11.3	0.0573	0.0000	OK
15 minute summer	S79	11	107.658	0.043	13.4	0.0757	0.0000	OK
480 minute summer	S55	344	107.230	0.280	11.6	52.6091	0.0000	SURCHARGED

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	S35	1.000	S36	13.6	0.925	0.127	0.4585	
15 minute summer	S36	1.001	S37	18.2	1.104	0.182	0.5503	
15 minute summer	S37	1.002	S38	20.2	1.284	0.177	0.3497	
60 minute summer	S38	1.003	S42	12.6	0.285	0.087	0.6744	
15 minute summer	S40	2.000	S41	9.0	1.796	0.075	0.0827	
60 minute summer	S41	2.001	S42	15.6	0.376	0.077	0.3583	
60 minute summer	S42	1.004	S43	4.4	0.877	0.029	0.0632	
60 minute summer	S43	1.005	S44	4.4	0.802	0.038	0.0895	
15 minute summer	S44	1.006	S45	12.0	1.615	0.028	0.1911	
15 minute summer	S45	1.007	S46	18.7	1.455	0.017	0.2193	
15 minute summer	S46	1.008	S55	21.3	1.507	0.037	0.4149	
15 minute summer	S80	3.000	S47	10.5	0.883	0.088	0.5987	
120 minute winter	S47	3.001	S49	0.7	0.823	0.006	0.3734	
15 minute summer	S48	4.000	S49	13.0	2.086	0.102	0.0974	
720 minute winter	S49	3.002	S50	0.6	0.873	0.002	0.0187	
15 minute summer	S50	3.003	S53	2.7	1.361	0.009	0.0397	
1440 minute winter	S53	3.004	S79	0.6	0.533	0.003	0.0350	
15 minute summer	S39	5.000	S60	2.3	0.482	0.048	0.0724	
15 minute summer	S60	5.001	S61	10.3	1.783	0.092	0.1321	
15 minute summer	S61	5.002	S51	11.3	2.312	0.050	0.0701	
480 minute summer	S51	5.003	S52	0.5	0.461	0.004	0.0293	
15 minute summer	S52	5.004	S78	11.3	1.483	0.078	0.1107	
15 minute summer	S78	5.005	S79	11.1	2.001	0.038	0.1396	
15 minute summer	S79	3.005	S55	13.4	1.364	0.014	0.3629	
480 minute summer	S55	1.009	S56 - Outfall	3.4	2.182	0.014	0.0252	162.6

Results for 1 year Critical Storm Duration. Lowest mass balance: 99.67%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
480 minute summer	S56 - Outfall	344	103.569	0.019	3.4	0.0000	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
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Results for 30 year Critical Storm Duration. Lowest mass balance: 99.67%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	S35	10	110.789	0.114	33.8	0.1289	0.0000	OK
15 minute summer	S36	10	110.525	0.140	45.3	0.1998	0.0000	OK
60 minute winter	S37	61	110.494	0.379	24.3	0.4290	0.0000	SURCHARGED
60 minute winter	S38	60	110.494	0.559	23.8	0.6325	0.0000	SURCHARGED
15 minute summer	S40	10	110.965	0.065	22.4	0.0739	0.0000	OK
60 minute winter	S41	61	110.495	0.545	31.5	35.5454	0.0000	SURCHARGED
60 minute winter	S42	60	110.495	0.760	25.8	0.8590	0.0000	SURCHARGED
15 minute summer	S43	67	109.535	0.040	4.4	0.0448	0.0000	OK
15 minute summer	S44	10	109.299	0.059	23.7	0.0841	0.0000	OK
15 minute summer	S45	10	108.108	0.068	40.3	0.0971	0.0000	OK
480 minute winter	S46	472	107.662	0.462	22.1	0.8165	0.0000	OK
15 minute summer	S80	10	115.196	0.070	25.9	0.0797	0.0000	OK
240 minute winter	S47	236	113.835	0.585	6.6	27.1227	0.0000	SURCHARGED
15 minute summer	S48	10	112.386	0.076	32.0	0.1092	0.0000	OK
1440 minute winter	S49	1560	111.944	0.644	2.8	71.2970	0.0000	SURCHARGED
15 minute summer	S50	10	109.591	0.029	6.3	0.0332	0.0000	OK
1440 minute summer	S53	1140	108.056	0.116	1.0	11.8070	0.0000	OK
15 minute summer	S39	10	111.591	0.052	5.7	0.0749	0.0000	OK
15 minute summer	S60	10	111.487	0.073	25.8	0.1041	0.0000	OK
15 minute summer	S61	9	110.349	0.072	27.8	0.1025	0.0000	OK
720 minute winter	S51	675	110.150	0.325	3.4	41.1655	0.0000	SURCHARGED
15 minute summer	S52	10	109.717	0.092	28.0	0.1316	0.0000	OK
15 minute summer	S78	10	109.447	0.062	27.8	0.0890	0.0000	OK
15 minute summer	S79	10	107.681	0.066	33.3	0.1160	0.0000	OK
600 minute winter	S55	585	107.662	0.712	56.0	141.6328	0.0000	SURCHARGED
Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	S35	1.000	S36	33.5	1.185	0.312	0.8790	
15 minute summer	S36	1.001	S37	44.7	1.411	0.448	1.0833	
60 minute winter	S37	1.002	S38	23.8	0.901	0.209	1.2012	
60 minute winter	S38	1.003	S42	22.0	0.345	0.153	0.8395	
15 minute summer	S40	2.000	S41	22.3	2.286	0.185	0.3821	
60 minute winter	S41	2.001	S42	-20.8	0.435	-0.103	0.4641	
60 minute winter	S42	1.004	S43	4.4	0.879	0.029	0.0635	
15 minute summer	S43	1.005	S44	4.4	0.803	0.038	0.0899	
15 minute summer	S44	1.006	S45	23.6	1.925	0.054	0.3144	
15 minute summer	S45	1.007	S46	40.1	1.830	0.037	0.3691	
480 minute winter	S46	1.008	S55	57.6	0.472	0.100	3.7087	
15 minute summer	S80	3.000	S47	25.8	1.227	0.214	0.8886	
240 minute winter	S47	3.001	S49	0.7	0.818	0.006	0.7261	
15 minute summer	S48	4.000	S49	31.9	2.693	0.249	0.2027	
1440 minute winter	S49	3.002	S50	0.7	0.887	0.002	0.0187	
15 minute summer	S50	3.003	S53	6.2	1.758	0.020	0.0708	
1440 minute summer	S53	3.004	S79	0.7	0.535	0.003	0.0483	
15 minute summer	S39	5.000	S60	5.6	0.627	0.120	0.1380	
15 minute summer	S60	5.001	S61	25.6	2.313	0.227	0.2524	
15 minute summer	S61	5.002	S51	27.9	2.603	0.125	0.2090	
720 minute winter	S51	5.003	S52	0.6	0.469	0.004	0.0310	
15 minute summer	S52	5.004	S78	27.8	1.946	0.194	0.2082	
15 minute summer	S78	5.005	S79	27.6	2.621	0.095	0.2645	
15 minute summer	S79	3.005	S55	33.1	1.669	0.034	0.9877	
600 minute winter	S55	1.009	S56 - Outfall	3.5	2.197	0.015	0.0256	330.2

Results for 30 year Critical Storm Duration. Lowest mass balance: 99.67%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute summer	S56 - Outfall	158	103.569	0.019	3.5	0.0000	0.0000	OK
Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)

Results for 30 year +35% CC Critical Storm Duration. Lowest mass balance: 99.67%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	S35	10	110.809	0.134	45.6	0.1520	0.0000	OK
120 minute winter	S36	118	110.787	0.402	18.1	0.5756	0.0000	SURCHARGED
120 minute winter	S37	116	110.786	0.671	20.0	0.7590	0.0000	SURCHARGED
120 minute winter	S38	118	110.787	0.852	18.4	0.9633	0.0000	SURCHARGED
15 minute summer	S40	10	110.976	0.076	30.2	0.0863	0.0000	OK
120 minute winter	S41	118	110.787	0.837	25.2	54.6300	0.0000	SURCHARGED
120 minute winter	S42	118	110.787	1.052	21.1	1.1894	0.0000	SURCHARGED
15 minute summer	S43	116	109.535	0.040	4.4	0.0448	0.0000	OK
15 minute summer	S44	10	109.307	0.067	30.5	0.0952	0.0000	OK
15 minute summer	S45	10	108.117	0.077	52.9	0.1106	0.0000	OK
720 minute winter	S46	705	107.986	0.786	11.2	1.3889	0.0000	SURCHARGED
15 minute summer	S80	10	115.208	0.083	35.0	0.0934	0.0000	OK
240 minute winter	S47	236	114.061	0.811	8.9	38.9497	0.0000	SURCHARGED
15 minute summer	S48	10	112.400	0.090	43.2	0.1282	0.0000	OK
1440 minute winter	S49	1440	112.149	0.849	3.5	94.9986	0.0000	SURCHARGED
15 minute summer	S50	10	109.596	0.034	8.3	0.0380	0.0000	OK
1440 minute winter	S53	2190	108.111	0.171	0.9	17.8778	0.0000	OK
15 minute summer	S39	10	111.600	0.061	7.7	0.0872	0.0000	OK
15 minute summer	S60	10	111.499	0.085	34.9	0.1221	0.0000	OK
15 minute summer	S61	10	110.360	0.083	37.6	0.1182	0.0000	OK
720 minute winter	S51	705	110.298	0.473	4.5	60.0316	0.0000	SURCHARGED
15 minute summer	S52	10	109.732	0.107	37.8	0.1532	0.0000	OK
15 minute summer	S78	10	109.457	0.072	37.6	0.1035	0.0000	OK
720 minute winter	S79	705	107.987	0.372	10.5	0.6574	0.0000	OK
720 minute winter	S55	705	107.987	1.037	64.2	208.6031	0.0000	SURCHARGED

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	S35	1.000	S36	45.3	1.277	0.422	1.1005	
120 minute winter	S36	1.001	S37	18.1	1.039	0.181	2.3540	
120 minute winter	S37	1.002	S38	18.4	0.795	0.161	1.2012	
120 minute winter	S38	1.003	S42	18.0	0.307	0.125	0.8395	
15 minute summer	S40	2.000	S41	30.1	2.455	0.250	0.4209	
120 minute winter	S41	2.001	S42	-16.5	0.298	-0.082	0.4641	
120 minute winter	S42	1.004	S43	4.4	0.879	0.029	0.0635	
15 minute summer	S43	1.005	S44	4.4	0.803	0.038	0.0899	
15 minute summer	S44	1.006	S45	30.4	2.064	0.070	0.3777	
15 minute summer	S45	1.007	S46	52.7	1.980	0.048	0.4478	
720 minute winter	S46	1.008	S55	58.0	0.423	0.101	3.8387	
15 minute summer	S80	3.000	S47	34.8	1.342	0.290	0.9395	
240 minute winter	S47	3.001	S49	0.8	0.822	0.007	0.7274	
15 minute summer	S48	4.000	S49	43.0	2.926	0.336	0.2960	
1440 minute winter	S49	3.002	S50	0.8	0.921	0.002	0.0199	
15 minute summer	S50	3.003	S53	8.2	1.914	0.026	0.0861	
1440 minute winter	S53	3.004	S79	0.7	0.506	0.003	1.2018	
15 minute summer	S39	5.000	S60	7.6	0.683	0.162	0.1714	
15 minute summer	S60	5.001	S61	34.6	2.515	0.307	0.3138	
15 minute summer	S61	5.002	S51	37.5	2.680	0.168	0.2980	
720 minute winter	S51	5.003	S52	0.6	0.469	0.004	0.0350	
15 minute summer	S52	5.004	S78	37.6	2.127	0.262	0.2572	
15 minute summer	S78	5.005	S79	37.3	2.860	0.129	0.3277	
720 minute winter	S79	3.005	S55	9.6	0.188	0.010	3.2051	
720 minute winter	S55	1.009	S56 - Outfall	3.5	2.197	0.015	0.0256	389.9

Results for 30 year +35% CC Critical Storm Duration. Lowest mass balance: 99.67%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
30 minute summer	S56 - Outfall	110	103.569	0.019	3.5	0.0000	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
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Results for 100 year Critical Storm Duration. Lowest mass balance: 99.67%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	S35	10	110.807	0.132	43.9	0.1488	0.0000	OK
120 minute winter	S36	118	110.753	0.368	17.6	0.5269	0.0000	SURCHARGED
120 minute winter	S37	118	110.754	0.639	19.5	0.7222	0.0000	SURCHARGED
120 minute winter	S38	118	110.753	0.818	17.6	0.9256	0.0000	SURCHARGED
15 minute summer	S40	10	110.975	0.075	29.0	0.0845	0.0000	OK
120 minute winter	S41	118	110.753	0.803	24.0	52.4254	0.0000	SURCHARGED
120 minute winter	S42	120	110.753	1.018	20.2	1.1511	0.0000	SURCHARGED
15 minute summer	S43	109	109.535	0.040	4.4	0.0448	0.0000	OK
15 minute summer	S44	10	109.306	0.065	29.5	0.0937	0.0000	OK
15 minute summer	S45	10	108.116	0.076	51.0	0.1086	0.0000	OK
720 minute summer	S46	720	107.929	0.729	41.2	1.2886	0.0000	SURCHARGED
15 minute summer	S80	10	115.206	0.081	33.6	0.0914	0.0000	OK
240 minute winter	S47	236	114.034	0.784	8.6	37.5152	0.0000	SURCHARGED
15 minute summer	S48	10	112.398	0.088	41.6	0.1256	0.0000	OK
1440 minute winter	S49	1440	112.091	0.791	3.3	88.2295	0.0000	SURCHARGED
15 minute summer	S50	10	109.595	0.033	8.0	0.0374	0.0000	OK
1440 minute winter	S53	2010	108.095	0.155	0.9	16.1380	0.0000	OK
15 minute summer	S39	10	111.599	0.060	7.4	0.0855	0.0000	OK
15 minute summer	S60	10	111.498	0.083	33.5	0.1195	0.0000	OK
15 minute summer	S61	10	110.358	0.081	36.1	0.1157	0.0000	OK
480 minute winter	S51	472	110.271	0.446	6.1	56.5459	0.0000	SURCHARGED
15 minute summer	S52	10	109.730	0.105	36.4	0.1502	0.0000	OK
15 minute summer	S78	10	109.456	0.071	36.1	0.1015	0.0000	OK
720 minute summer	S79	720	107.928	0.313	5.9	0.5524	0.0000	OK
720 minute summer	S55	720	107.929	0.979	43.3	196.6366	0.0000	SURCHARGED
Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	S35	1.000	S36	43.6	1.265	0.406	1.0691	
120 minute winter	S36	1.001	S37	17.6	1.042	0.176	2.3540	
120 minute winter	S37	1.002	S38	17.6	0.783	0.154	1.2012	
120 minute winter	S38	1.003	S42	17.2	0.336	0.119	0.8395	
15 minute summer	S40	2.000	S41	28.9	2.462	0.240	0.4183	
120 minute winter	S41	2.001	S42	18.0	0.385	0.090	0.4641	
120 minute winter	S42	1.004	S43	4.4	0.879	0.029	0.0635	
15 minute summer	S43	1.005	S44	4.4	0.803	0.038	0.0899	
15 minute summer	S44	1.006	S45	29.4	2.045	0.068	0.3684	
15 minute summer	S45	1.007	S46	50.8	1.960	0.046	0.4364	
720 minute summer	S46	1.008	S55	35.0	0.378	0.061	3.8387	
15 minute summer	S80	3.000	S47	33.4	1.327	0.278	0.9327	
240 minute winter	S47	3.001	S49	0.8	0.822	0.007	0.7272	
15 minute summer	S48	4.000	S49	41.4	2.896	0.324	0.2840	
1440 minute winter	S49	3.002	S50	0.7	0.912	0.002	0.0195	
15 minute summer	S50	3.003	S53	7.9	1.894	0.026	0.0840	
1440 minute winter	S53	3.004	S79	0.7	0.516	0.003	0.8953	
15 minute summer	S39	5.000	S60	7.3	0.676	0.156	0.1666	
15 minute summer	S60	5.001	S61	33.3	2.488	0.295	0.3048	
15 minute summer	S61	5.002	S51	36.0	2.671	0.161	0.2849	
480 minute winter	S51	5.003	S52	0.6	0.469	0.004	0.0399	
15 minute summer	S52	5.004	S78	36.1	2.103	0.252	0.2504	
15 minute summer	S78	5.005	S79	35.8	2.828	0.124	0.3188	
720 minute summer	S79	3.005	S55	6.6	0.213	0.007	2.9549	
720 minute summer	S55	1.009	S56 - Outfall	3.5	2.197	0.015	0.0256	388.4

Results for 100 year Critical Storm Duration. Lowest mass balance: 99.67%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
30 minute winter	S56 - Outfall	148	103.569	0.019	3.5	0.0000	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
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Results for 100 year +45% CC Critical Storm Duration. Lowest mass balance: 99.67%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
120 minute winter	S35	118	111.973	1.298	18.9	1.4677	0.0000	SURCHARGED
120 minute winter	S36	118	111.972	1.587	25.5	2.2716	0.0000	FLOOD RISK
120 minute winter	S37	116	111.972	1.857	26.1	2.1000	0.0000	FLOOD RISK
120 minute winter	S38	116	111.973	2.037	25.4	2.3044	0.0000	FLOOD RISK
120 minute winter	S40	116	111.972	1.072	12.5	1.2128	0.0000	SURCHARGED
120 minute winter	S41	116	111.973	2.023	37.1	79.2699	0.0000	FLOOD RISK
120 minute winter	S42	116	111.973	2.238	29.2	2.5312	0.0824	FLOOD
120 minute winter	S43	116	109.539	0.044	5.5	0.0498	0.0000	OK
15 minute summer	S44	10	109.317	0.077	40.6	0.1096	0.0000	OK
1440 minute winter	S45	1140	109.265	1.225	7.2	1.7531	0.0000	SURCHARGED
1440 minute winter	S46	1140	109.265	2.065	8.8	3.6489	0.0000	FLOOD RISK
15 minute summer	S80	10	115.224	0.099	48.7	0.1120	0.0000	OK
360 minute winter	S47	352	114.426	1.175	9.2	58.0652	0.0000	SURCHARGED
1440 minute winter	S48	1470	112.467	0.157	2.5	0.2243	0.0000	OK
1440 minute winter	S49	1470	112.467	1.167	4.5	131.5338	0.0000	SURCHARGED
15 minute summer	S50	10	109.601	0.039	11.3	0.0440	0.0000	OK
1440 minute summer	S53	2880	108.555	0.615	1.8	67.0518	0.0000	SURCHARGED
15 minute summer	S39	10	111.611	0.072	10.7	0.1034	0.0000	OK
15 minute summer	S60	10	111.517	0.102	48.6	0.1466	0.0000	OK
720 minute winter	S61	705	110.506	0.229	3.9	0.3278	0.0000	OK
720 minute winter	S51	705	110.506	0.681	6.9	86.3831	0.0000	SURCHARGED
15 minute summer	S52	10	109.752	0.127	52.5	0.1819	0.0000	OK
15 minute summer	S78	10	109.471	0.085	52.3	0.1223	0.0000	OK
1440 minute winter	S79	1080	109.265	1.650	14.7	2.9158	0.0000	SURCHARGED
1440 minute winter	S55	1080	109.265	2.315	42.9	249.3949	5.4296	FLOOD
Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
120 minute winter	S35	1.000	S36	18.9	0.994	0.176	2.1857	
120 minute winter	S36	1.001	S37	23.6	1.062	0.236	2.3540	
120 minute winter	S37	1.002	S38	25.4	0.883	0.223	1.2012	
120 minute winter	S38	1.003	S42	24.9	0.353	0.172	0.8395	
120 minute winter	S40	2.000	S41	12.5	1.382	0.104	0.6534	
120 minute winter	S41	2.001	S42	-24.9	-0.353	-0.123	0.4641	
120 minute winter	S42	1.004	S43	5.5	0.941	0.036	0.0742	
120 minute winter	S43	1.005	S44	5.5	0.859	0.047	0.1051	
15 minute summer	S44	1.006	S45	40.5	2.237	0.093	0.4653	
1440 minute winter	S45	1.007	S46	7.2	0.986	0.007	3.6008	
1440 minute winter	S46	1.008	S55	38.4	0.302	0.067	3.8387	
15 minute summer	S80	3.000	S47	48.5	1.476	0.404	1.0036	
360 minute winter	S47	3.001	S49	1.0	0.819	0.008	0.7295	
1440 minute winter	S48	4.000	S49	2.5	0.781	0.020	0.5406	
1440 minute winter	S49	3.002	S50	0.9	0.962	0.003	0.0220	
15 minute summer	S50	3.003	S53	11.2	2.105	0.036	0.1070	
1440 minute summer	S53	3.004	S79	1.8	0.508	0.008	2.5995	
15 minute summer	S39	5.000	S60	10.6	0.746	0.226	0.2182	
15 minute summer	S60	5.001	S61	48.2	2.748	0.428	0.4002	
720 minute winter	S61	5.002	S51	5.5	1.004	0.025	0.7233	
720 minute winter	S51	5.003	S52	0.6	0.480	0.004	0.0397	
15 minute summer	S52	5.004	S78	52.3	2.341	0.364	0.3245	
15 minute summer	S78	5.005	S79	51.9	3.147	0.179	0.4148	
1440 minute winter	S79	3.005	S55	-11.0	0.137	-0.011	3.6473	
1440 minute winter	S55	1.009	S56 - Outfall	4.7	2.394	0.019	0.0312	536.0

Results for 100 year +45% CC Critical Storm Duration. Lowest mass balance: 99.67%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
1440 minute summer	S56 - Outfall	1200	103.572	0.022	4.7	0.0000	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
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