

Design Settings

Rainfall Methodology	FSR	Maximum Time of Concentration (mins)	30.00
Return Period (years)	100	Maximum Rainfall (mm/hr)	50.0
Additional Flow (%)	40	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	0.300	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)	Diameter (mm)	Depth (m)
S1	0.063	5.00	185.180	1200	1.180
S2	0.063	5.00	181.470	1200	1.970
S3	0.063	5.00	179.880	1200	4.530
S4	0.063	5.00	176.220	1500	4.295
S5	0.063	5.00	172.280	1500	4.780
S6	0.063	5.00	171.300	1800	5.300
S7	0.063	5.00	171.000	1800	6.000
S8	0.063	5.00	168.410	1800	4.410
S9	0.063	5.00	167.350	2100	3.850
S10	0.063	5.00	166.910	2100	3.910
S11	0.063	5.00	166.700	2100	4.700
S12	0.063	5.00	164.000	2100	5.000
S13	0.063	5.00	161.000	1500	3.000
S14	0.063	5.00	179.160	1200	1.160
S15a	0.063	5.00	176.500	1200	1.500
S15	0.063	5.00	175.560	1500	1.560
S16	0.063	5.00	172.200	1500	2.200
S17	0.063	5.00	171.500	2100	3.000
S18	0.063	5.00	182.550	1200	1.550
S19	0.063	5.00	180.900	1200	2.900
S20	0.063	5.00	178.360	1200	2.360
S21	0.063	5.00	177.560	1200	2.560
S22	0.063	5.00	174.630	1500	2.630
S23	0.063	5.00	172.600	1500	2.600
S24	0.063	5.00	167.880	1500	1.880
S25	0.063	5.00	164.000	1200	1.320
H1	0.000		161.000		4.000
Plot Soakaway 1	0.475		180.000	1500	3.000
Plot Soakaway 2	0.350		177.000	1500	3.000
Plot Soakaway 3	0.118		177.000	1500	3.000
Plot Soakaway 4	0.180		181.000	1500	3.000
Plot Soakaway 5	0.140		179.000	1500	3.000
Plot Soakaway 6	0.350		171.000	1500	3.000
Plot Soakaway 7	0.300		170.000	1500	3.000
Plot Soakaway 8	0.180		170.000	1500	3.000
Plot Soakaway 9	0.430		167.500	1500	2.500
Plot Soakaway 10	0.080		167.500	1500	2.500
Plot Soakaway 11	0.105		164.000	1500	3.000
Plot Soakaway 12	0.200		161.000	1500	3.000

Nodes

Name	Area (ha)	T of E (mins)	Cover Level (m)	Diameter (mm)	Depth (m)
Plot Soakaway 13	0.220		166.500	1500	3.500
Plot Soakaway 14	0.130		170.000	1500	4.000

Links

Name	US Node	DS Node	Length (m)	ks (mm) / n	US IL (m)	DS IL (m)	Fall (m)	Slope (1:X)	Dia (mm)	T of C (mins)	Rain (mm/hr)
1.000	S1	S2	51.000	0.600	184.000	179.500	4.500	11.3	300	5.18	50.0
1.001	S2	S3	25.000	0.600	179.500	175.500	4.000	6.3	300	5.25	50.0
1.002	S3	S4	55.000	0.600	175.350	172.000	3.350	16.4	450	5.43	50.0
1.003	S4	S5	55.000	0.600	171.925	167.500	4.425	12.4	525	5.69	50.0
1.004	S5	S6	18.000	0.600	167.500	166.000	1.500	12.0	600	5.74	50.0
1.005	S6	S7	35.000	0.600	166.000	165.000	1.000	35.0	600	5.88	50.0
1.006	S7	S8	68.000	0.600	165.000	164.000	1.000	68.0	600	6.26	50.0
1.007	S8	S9	33.000	0.600	164.000	163.500	0.500	66.0	900	6.40	50.0
1.008	S9	S10	25.000	0.600	163.500	163.000	0.500	50.0	600	6.60	50.0
1.009	S10	S11	15.000	0.600	163.000	162.000	1.000	15.0	600	6.64	50.0
1.010	S11	S12	75.000	0.600	162.000	159.000	3.000	25.0	600	6.90	50.0
1.011	S12	S13	71.000	0.600	159.000	158.000	1.000	71.0	600	7.30	50.0
2.000	S14	S15a	54.000	0.600	178.000	175.000	3.000	18.0	300	5.24	50.0
2.001	S15a	S15	23.000	0.600	175.000	174.000	1.000	23.0	300	5.36	50.0
2.002	S15	S4	51.000	0.600	174.000	172.000	2.000	25.5	525	5.55	50.0
3.000	S18	S19	30.000	0.600	181.000	178.000	3.000	10.0	300	5.10	50.0
3.001	S19	S3	24.000	0.600	178.000	175.500	2.500	9.6	300	5.18	50.0
4.000	S20	S21	18.000	0.600	176.000	175.000	1.000	18.0	300	5.08	50.0

Name	Vel (m/s)	Cap (l/s)	Flow (l/s)	US Depth (m)	DS Depth (m)	Σ Area (ha)	Σ Add Inflow (l/s)	Pro Depth (mm)	Pro Velocity (m/s)
1.000	4.695	331.9	12.0	0.880	1.670	0.063	0.0	38	2.249
1.001	6.327	447.2	23.9	1.670	4.080	0.126	0.0	47	3.413
1.002	5.036	800.9	59.8	4.080	3.770	0.315	0.0	82	3.009
1.003	6.377	1380.4	131.5	3.770	4.255	0.693	0.0	108	4.087
1.004	7.054	1994.4	155.4	4.180	4.700	0.819	0.0	112	4.279
1.005	4.125	1166.2	191.3	4.700	5.400	1.008	0.0	163	3.081
1.006	2.956	835.7	215.2	5.400	3.810	1.134	0.0	207	2.497
1.007	3.859	2455.3	239.1	3.510	2.950	1.260	0.0	187	2.500
1.008	3.449	975.1	251.0	3.250	3.310	1.323	0.0	207	2.914
1.009	6.308	1783.4	263.0	3.310	4.100	1.386	0.0	154	4.584
1.010	4.883	1380.6	286.9	4.100	4.400	1.512	0.0	184	3.895
1.011	2.892	817.7	298.8	4.400	2.400	1.575	0.0	250	2.678
2.000	3.723	263.1	12.0	0.860	1.200	0.063	0.0	43	1.912
2.001	3.292	232.7	23.9	1.200	1.260	0.126	0.0	64	2.141
2.002	4.448	962.8	35.9	1.035	3.695	0.189	0.0	68	2.172
3.000	4.999	353.4	12.0	1.250	2.600	0.063	0.0	37	2.350
3.001	5.102	360.7	23.9	2.600	4.080	0.126	0.0	52	2.933
4.000	3.723	263.1	12.0	2.060	2.260	0.063	0.0	43	1.912

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)
4.001	S21	S4	41.000	0.600	175.000	172.150	2.850	14.4	300	5.24	50.0
5.000	S22	S5	52.000	0.600	172.000	167.500	4.500	11.6	450	5.14	50.0
6.000	S23	S7	71.000	0.600	170.000	165.150	4.850	14.6	450	5.22	50.0
7.000	S24	S8	81.000	0.600	166.000	164.300	1.700	47.6	600	5.38	50.0
8.000	S25	S11	52.000	0.600	162.680	162.450	0.230	226.1	300	5.83	50.0
1.012	S13	H1	10.000	0.600	158.000	157.000	1.000	10.0	600	7.33	50.0
9.000	S16	S17	51.000	0.600	170.000	168.500	1.500	34.0	525	5.22	50.0
9.001	S17	S6	60.000	0.600	168.500	166.000	2.500	24.0	600	5.42	50.0

Name	Vel (m/s)	Cap (l/s)	Flow (l/s)	US Depth (m)	DS Depth (m)	Σ Area (ha)	Σ Add Inflow (l/s)	Pro Depth (mm)	Pro Velocity (m/s)
4.001	4.166	294.5	23.9	2.260	3.770	0.126	0.0	57	2.534
5.000	6.005	955.1	12.0	2.180	4.330	0.063	0.0	35	2.120
6.000	5.334	848.3	12.0	2.150	5.400	0.063	0.0	36	1.942
7.000	3.533	999.0	12.0	1.280	3.510	0.063	0.0	45	1.240
8.000	1.041	73.6	12.0	1.020	3.950	0.063	0.0	81	0.770
1.012	7.728	2185.1	310.8	2.400	3.400	1.638	0.0	151	5.560
9.000	3.850	833.5	12.0	1.675	2.475	0.063	0.0	43	1.422
9.001	4.984	1409.1	23.9	2.400	4.700	0.126	0.0	53	1.932

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	51.000	11.3	300	Circular	185.180	184.000	0.880	181.470	179.500	1.670
1.001	25.000	6.3	300	Circular	181.470	179.500	1.670	179.880	175.500	4.080
1.002	55.000	16.4	450	Circular	179.880	175.350	4.080	176.220	172.000	3.770
1.003	55.000	12.4	525	Circular	176.220	171.925	3.770	172.280	167.500	4.255
1.004	18.000	12.0	600	Circular	172.280	167.500	4.180	171.300	166.000	4.700
1.005	35.000	35.0	600	Circular	171.300	166.000	4.700	171.000	165.000	5.400

Link	US Node	Dia (mm)	Node Type	MH Type	DS Node	Dia (mm)	Node Type	MH Type
1.000	S1	1200	Manhole	Adoptable	S2	1200	Manhole	Adoptable
1.001	S2	1200	Manhole	Adoptable	S3	1200	Manhole	Adoptable
1.002	S3	1200	Manhole	Adoptable	S4	1500	Manhole	Adoptable
1.003	S4	1500	Manhole	Adoptable	S5	1500	Manhole	Adoptable
1.004	S5	1500	Manhole	Adoptable	S6	1800	Manhole	Adoptable
1.005	S6	1800	Manhole	Adoptable	S7	1800	Manhole	Adoptable

Pipeline Schedule

Link	Length (m)	Slope (1:X)	Dia (mm)	Link Type	US CL (m)	US IL (m)	US Depth (m)	DS CL (m)	DS IL (m)	DS Depth (m)
1.006	68.000	68.0	600	Circular	171.000	165.000	5.400	168.410	164.000	3.810
1.007	33.000	66.0	900	Circular	168.410	164.000	3.510	167.350	163.500	2.950
1.008	25.000	50.0	600	Circular	167.350	163.500	3.250	166.910	163.000	3.310
1.009	15.000	15.0	600	Circular	166.910	163.000	3.310	166.700	162.000	4.100
1.010	75.000	25.0	600	Circular	166.700	162.000	4.100	164.000	159.000	4.400
1.011	71.000	71.0	600	Circular	164.000	159.000	4.400	161.000	158.000	2.400
2.000	54.000	18.0	300	Circular	179.160	178.000	0.860	176.500	175.000	1.200
2.001	23.000	23.0	300	Circular	176.500	175.000	1.200	175.560	174.000	1.260
2.002	51.000	25.5	525	Circular	175.560	174.000	1.035	176.220	172.000	3.695
3.000	30.000	10.0	300	Circular	182.550	181.000	1.250	180.900	178.000	2.600
3.001	24.000	9.6	300	Circular	180.900	178.000	2.600	179.880	175.500	4.080
4.000	18.000	18.0	300	Circular	178.360	176.000	2.060	177.560	175.000	2.260
4.001	41.000	14.4	300	Circular	177.560	175.000	2.260	176.220	172.150	3.770
5.000	52.000	11.6	450	Circular	174.630	172.000	2.180	172.280	167.500	4.330
6.000	71.000	14.6	450	Circular	172.600	170.000	2.150	171.000	165.150	5.400
7.000	81.000	47.6	600	Circular	167.880	166.000	1.280	168.410	164.300	3.510
8.000	52.000	226.1	300	Circular	164.000	162.680	1.020	166.700	162.450	3.950
1.012	10.000	10.0	600	Circular	161.000	158.000	2.400	161.000	157.000	3.400

Link	US Node	Dia (mm)	Node Type	MH Type	DS Node	Dia (mm)	Node Type	MH Type
1.006	S7	1800	Manhole	Adoptable	S8	1800	Manhole	Adoptable
1.007	S8	1800	Manhole	Adoptable	S9	2100	Manhole	Adoptable
1.008	S9	2100	Manhole	Adoptable	S10	2100	Manhole	Adoptable
1.009	S10	2100	Manhole	Adoptable	S11	2100	Manhole	Adoptable
1.010	S11	2100	Manhole	Adoptable	S12	2100	Manhole	Adoptable
1.011	S12	2100	Manhole	Adoptable	S13	1500	Manhole	Adoptable
2.000	S14	1200	Manhole	Adoptable	S15a	1200	Manhole	Adoptable
2.001	S15a	1200	Manhole	Adoptable	S15	1500	Manhole	Adoptable
2.002	S15	1500	Manhole	Adoptable	S4	1500	Manhole	Adoptable
3.000	S18	1200	Manhole	Adoptable	S19	1200	Manhole	Adoptable
3.001	S19	1200	Manhole	Adoptable	S3	1200	Manhole	Adoptable
4.000	S20	1200	Manhole	Adoptable	S21	1200	Manhole	Adoptable
4.001	S21	1200	Manhole	Adoptable	S4	1500	Manhole	Adoptable
5.000	S22	1500	Manhole	Adoptable	S5	1500	Manhole	Adoptable
6.000	S23	1500	Manhole	Adoptable	S7	1800	Manhole	Adoptable
7.000	S24	1500	Manhole	Adoptable	S8	1800	Manhole	Adoptable
8.000	S25	1200	Manhole	Adoptable	S11	2100	Manhole	Adoptable
1.012	S13	1500	Manhole	Adoptable	H1	Junction		

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)
9.000	51.000	34.0	525	Circular	172.200	170.000	1.675	171.500	168.500	2.475
9.001	60.000	24.0	600	Circular	171.500	168.500	2.400	171.300	166.000	4.700

Link	US Node	Dia (mm)	Node Type	MH Type	DS Node	Dia (mm)	Node Type	MH Type
9.000	S16	1500	Manhole	Adoptable	S17	2100	Manhole	Adoptable
9.001	S17	2100	Manhole	Adoptable	S6	1800	Manhole	Adoptable

Manhole Schedule

Node	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)
S1	185.180	1.180	1200				
					0	1.000	184.000 300
S2	181.470	1.970	1200				
					1	1.000	179.500 300
					0	1.001	179.500 300
S3	179.880	4.530	1200				
					1	3.001	175.500 300
					2	1.001	175.500 300
					0	1.002	175.350 450
S4	176.220	4.295	1500				
					1	4.001	172.150 300
					2	2.002	172.000 525
					3	1.002	172.000 450
					0	1.003	171.925 525
S5	172.280	4.780	1500				
					1	5.000	167.500 450
					2	1.003	167.500 525
					0	1.004	167.500 600
S6	171.300	5.300	1800				
					1	9.001	166.000 600
					2	1.004	166.000 600
					0	1.005	166.000 600
S7	171.000	6.000	1800				
					1	6.000	165.150 450
					2	1.005	165.000 600
					0	1.006	165.000 600
S8	168.410	4.410	1800				
					1	7.000	164.300 600
					2	1.006	164.000 600
					0	1.007	164.000 900
S9	167.350	3.850	2100				
					1	1.007	163.500 900
					0	1.008	163.500 600

Manhole Schedule

Node	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)
S10	166.910	3.910	2100	1	1.008	163.000	600
				0	1.009	163.000	600
S11	166.700	4.700	2100	1	8.000	162.450	300
				2	1.009	162.000	600
				0	1.010	162.000	600
S12	164.000	5.000	2100	1	1.010	159.000	600
				0	1.011	159.000	600
S13	161.000	3.000	1500	1	1.011	158.000	600
				0	1.012	158.000	600
S14	179.160	1.160	1200	0	2.000	178.000	300
S15a	176.500	1.500	1200	1	2.000	175.000	300
				0	2.001	175.000	300
S15	175.560	1.560	1500	1	2.001	174.000	300
				0	2.002	174.000	525
S16	172.200	2.200	1500	0	9.000	170.000	525
S17	171.500	3.000	2100	1	9.000	168.500	525
				0	9.001	168.500	600
S18	182.550	1.550	1200	0	3.000	181.000	300
S19	180.900	2.900	1200	1	3.000	178.000	300
				0	3.001	178.000	300
S20	178.360	2.360	1200	0	4.000	176.000	300
S21	177.560	2.560	1200	1	4.000	175.000	300
				0	4.001	175.000	300

Manhole Schedule

Node	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)
S22	174.630	2.630	1500				
				0	5.000	172.000	450
S23	172.600	2.600	1500				
				0	6.000	170.000	450
S24	167.880	1.880	1500				
				0	7.000	166.000	600
S25	164.000	1.320	1200				
				0	8.000	162.680	300
H1	161.000	4.000			1	1.012	157.000
Plot Soakaway 1	180.000	3.000	1500				
Plot Soakaway 2	177.000	3.000	1500				
Plot Soakaway 3	177.000	3.000	1500				
Plot Soakaway 4	181.000	3.000	1500				
Plot Soakaway 5	179.000	3.000	1500				
Plot Soakaway 6	171.000	3.000	1500				
Plot Soakaway 7	170.000	3.000	1500				
Plot Soakaway 8	170.000	3.000	1500				

Manhole Schedule

Node	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)
Plot Soakaway 9	167.500	2.500	1500				
Plot Soakaway 10	167.500	2.500	1500				
Plot Soakaway 11	164.000	3.000	1500				
Plot Soakaway 12	161.000	3.000	1500				
Plot Soakaway 13	166.500	3.500	1500				
Plot Soakaway 14	170.000	4.000	1500				

Simulation Settings

Rainfall Methodology	FSR	Analysis Speed	Normal
FSR Region	England and Wales	Skip Steady State	x
M5-60 (mm)	20.000	Drain Down Time (mins)	240
Ratio-R	0.300	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	40	0	0

Node H1 Soakaway Storage Structure

Base Inf Coefficient (m/hr)	0.72600	Invert Level (m)	156.200	Depth (m)	
Side Inf Coefficient (m/hr)	0.72600	Time to half empty (mins)	163	Inf Depth (m)	
Safety Factor	2.0	Pit Width (m)	7.000	Number Required	4
Porosity	1.00	Pit Length (m)	7.000		

Node Plot Soakaway 1 Depth/Area Storage Structure

Base Inf Coefficient (m/hr)	0.72600	Safety Factor	2.0	Invert Level (m)	177.000
Side Inf Coefficient (m/hr)	0.72600	Porosity	1.00	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	350.0	0.0	2.000	350.0	0.0	2.010	0.0	0.0

Node Plot Soakaway 2 Depth/Area Storage Structure

Base Inf Coefficient (m/hr)	0.72600	Safety Factor	2.0	Invert Level (m)	174.000
Side Inf Coefficient (m/hr)	0.72600	Porosity	1.00	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	200.0	0.0	2.000	200.0	0.0	2.010	0.0	0.0

Node Plot Soakaway 3 Depth/Area Storage Structure

Base Inf Coefficient (m/hr)	0.72600	Safety Factor	2.0	Invert Level (m)	174.000
Side Inf Coefficient (m/hr)	0.72600	Porosity	1.00	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	70.0	0.0	2.000	70.0	0.0	2.010	0.0	0.0

Node Plot Soakaway 4 Depth/Area Storage Structure

Base Inf Coefficient (m/hr)	0.72600	Safety Factor	2.0	Invert Level (m)	178.000
Side Inf Coefficient (m/hr)	0.72600	Porosity	1.00	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	2.000	115.0	0.0	2.010	0.0	0.0

Node Plot Soakaway 5 Depth/Area Storage Structure

Base Inf Coefficient (m/hr)	0.72600	Safety Factor	2.0	Invert Level (m)	176.000
Side Inf Coefficient (m/hr)	0.72600	Porosity	1.00	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	125.0	0.0	2.000	125.0	0.0	2.010	0.0	0.0

Node Plot Soakaway 6 Depth/Area Storage Structure

Base Inf Coefficient (m/hr)	0.72600	Safety Factor	2.0	Invert Level (m)	168.000
Side Inf Coefficient (m/hr)	0.72600	Porosity	1.00	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	275.0	0.0	2.000	275.0	0.0	2.010	0.0	0.0

Node Plot Soakaway 7 Depth/Area Storage Structure

Base Inf Coefficient (m/hr)	0.72600	Safety Factor	2.0	Invert Level (m)	167.000
Side Inf Coefficient (m/hr)	0.72600	Porosity	1.00	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	200.0	0.0	2.000	200.0	0.0	2.010	0.0	0.0

Node Plot Soakaway 8 Depth/Area Storage Structure

Base Inf Coefficient (m/hr)	0.72600	Safety Factor	2.0	Invert Level (m)	167.000
Side Inf Coefficient (m/hr)	0.72600	Porosity	1.00	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	130.0	0.0	2.000	130.0	0.0	2.010	0.0	0.0

Node Plot Soakaway 9 Depth/Area Storage Structure

Base Inf Coefficient (m/hr)	0.72600	Safety Factor	2.0	Invert Level (m)	165.000
Side Inf Coefficient (m/hr)	0.72600	Porosity	1.00	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	300.0	0.0	2.000	300.0	0.0	2.010	0.0	0.0

Node Plot Soakaway 10 Depth/Area Storage Structure

Base Inf Coefficient (m/hr)	0.72600	Safety Factor	2.0	Invert Level (m)	165.000
Side Inf Coefficient (m/hr)	0.72600	Porosity	1.00	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	80.0	0.0	2.000	80.0	0.0	2.010	0.0	0.0

Node Plot Soakaway 11 Depth/Area Storage Structure

Base Inf Coefficient (m/hr)	0.72600	Safety Factor	2.0	Invert Level (m)	161.000
Side Inf Coefficient (m/hr)	0.72600	Porosity	1.00	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	65.0	0.0	2.400	65.0	0.0	2.401	0.0	0.0

Node Plot Soakaway 12 Depth/Area Storage Structure

Base Inf Coefficient (m/hr)	0.72600	Safety Factor	2.0	Invert Level (m)	158.000
Side Inf Coefficient (m/hr)	0.72600	Porosity	1.00	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	95.0	0.0	2.400	95.0	0.0	2.401	0.0	0.0

Node Plot Soakaway 13 Depth/Area Storage Structure

Base Inf Coefficient (m/hr)	0.72600	Safety Factor	2.0	Invert Level (m)	163.000
Side Inf Coefficient (m/hr)	0.72600	Porosity	1.00	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	140.0	0.0	2.400	140.0	0.0	2.401	0.0	0.0

Node Plot Soakaway 14 Depth/Area Storage Structure

Base Inf Coefficient (m/hr)	0.72600	Safety Factor	2.0	Invert Level (m)	166.000
Side Inf Coefficient (m/hr)	0.72600	Porosity	1.00	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	80.0	0.0	2.400	80.0	0.0	2.401	0.0	0.0

Other (defaults)

Entry Loss (manhole)	0.250	Entry Loss (junction)	0.000	Apply Recommended Losses	x
Exit Loss (manhole)	0.250	Exit Loss (junction)	0.000	Flood Risk (m)	0.300

Approval Settings

Node Size	✓	Minimum Full Bore Velocity (m/s)	
Node Losses	✓	Maximum Full Bore Velocity (m/s)	3.000
Link Size	✓	Proportional Velocity	✓
Minimum Diameter (mm)	150	Return Period (years)	
Link Length	✓	Minimum Proportional Velocity (m/s)	0.750
Maximum Length (m)	100.000	Maximum Proportional Velocity (m/s)	3.000
Coordinates	✓	Surcharged Depth	✓
Accuracy (m)	1.000	Return Period (years)	
Crossings	✓	Maximum Surcharged Depth (m)	0.100
Cover Depth	✓	Flooding	✓
Minimum Cover Depth (m)		Return Period (years)	30
Maximum Cover Depth (m)	3.000	Time to Half Empty	x
Backdrops	✓	Discharge Rates	✓
Minimum Backdrop Height (m)		Discharge Volume	✓
Maximum Backdrop Height (m)	1.500	100 year 360 minute (m ³)	
Full Bore Velocity	✓		

Results for 1 year Critical Storm Duration. Lowest mass balance: 99.96%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	S1	10	184.032	0.032	8.1	0.0705	0.0000	OK
15 minute winter	S2	10	179.539	0.039	16.1	0.0694	0.0000	OK
15 minute winter	S3	10	175.418	0.068	39.8	0.0958	0.0000	OK
15 minute winter	S4	11	172.014	0.089	85.9	0.1834	0.0000	OK
15 minute winter	S5	11	167.591	0.091	101.7	0.1842	0.0000	OK
15 minute winter	S6	11	166.132	0.132	125.5	0.3662	0.0000	OK
15 minute winter	S7	11	165.171	0.171	141.7	0.4721	0.0000	OK
15 minute winter	S8	11	164.157	0.157	156.7	0.4432	0.0000	OK
15 minute winter	S9	11	163.682	0.182	162.8	0.6907	0.0000	OK
15 minute winter	S10	12	163.133	0.133	168.4	0.5040	0.0000	OK
15 minute winter	S11	12	162.145	0.145	182.9	0.5413	0.0000	OK
15 minute winter	S12	12	159.214	0.214	190.3	0.7958	0.0000	OK
15 minute winter	S13	12	158.130	0.129	197.0	0.2831	0.0000	OK
15 minute winter	S14	10	178.036	0.036	8.1	0.0792	0.0000	OK
15 minute winter	S15a	10	175.053	0.053	16.1	0.1053	0.0000	OK
15 minute winter	S15	11	174.057	0.057	23.9	0.1461	0.0000	OK
15 minute winter	S16	10	170.036	0.036	8.1	0.0845	0.0000	OK
15 minute winter	S17	11	168.544	0.044	16.0	0.1710	0.0000	OK
15 minute winter	S18	10	181.031	0.031	8.1	0.0606	0.0000	OK
15 minute winter	S19	10	178.044	0.044	16.1	0.0683	0.0000	OK
15 minute winter	S20	10	176.036	0.036	8.1	0.0597	0.0000	OK
15 minute winter	S21	10	175.048	0.048	16.1	0.0774	0.0000	OK
15 minute winter	S22	10	172.029	0.029	8.1	0.0656	0.0000	OK
15 minute winter	S23	11	170.031	0.031	8.1	0.0690	0.0000	OK
15 minute winter	S24	11	166.037	0.037	8.1	0.0908	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)
15 minute winter	S1	1.000	S2	8.0	1.701	0.024	0.2399
15 minute winter	S2	1.001	S3	15.8	2.980	0.035	0.1328
15 minute winter	S3	1.002	S4	39.2	2.645	0.049	0.8151
15 minute winter	S4	1.003	S5	86.4	3.529	0.063	1.3465
15 minute winter	S5	1.004	S6	102.3	2.854	0.051	0.6510
15 minute winter	S6	1.005	S7	126.3	2.265	0.108	1.9586
15 minute winter	S7	1.006	S8	141.5	2.269	0.169	4.2399
15 minute winter	S8	1.007	S9	155.2	1.882	0.063	2.7269
15 minute winter	S9	1.008	S10	162.1	2.752	0.166	1.4809
15 minute winter	S10	1.009	S11	169.3	3.428	0.095	0.7410
15 minute winter	S11	1.010	S12	184.0	2.619	0.133	5.3479
15 minute winter	S12	1.011	S13	190.7	2.867	0.233	4.7857
15 minute winter	S13	1.012	H1	196.4	4.666	0.090	0.4210
15 minute winter	S14	2.000	S15a	8.0	1.223	0.030	0.3556
15 minute winter	S15a	2.001	S15	15.8	1.795	0.068	0.2020
15 minute winter	S15	2.002	S4	23.6	1.905	0.024	0.6311
15 minute winter	S16	9.000	S17	7.9	1.066	0.010	0.3797
15 minute winter	S17	9.001	S6	15.6	0.619	0.011	1.6455
15 minute winter	S18	3.000	S19	8.0	1.592	0.023	0.1526
15 minute winter	S19	3.001	S3	15.9	2.559	0.044	0.1492
15 minute winter	S20	4.000	S21	8.0	1.356	0.031	0.1073
15 minute winter	S21	4.001	S4	15.8	2.227	0.054	0.2912
15 minute winter	S22	5.000	S5	8.0	0.647	0.008	0.7008
15 minute winter	S23	6.000	S7	7.8	1.694	0.009	0.3262
15 minute winter	S24	7.000	S8	7.6	1.068	0.008	0.5771

Results for 1 year Critical Storm Duration. Lowest mass balance: 99.96%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	S25	11	162.746	0.065	8.1	0.1366	0.0000	OK
120 minute winter	H1	92	156.762	-0.238	80.1	110.0973	0.0000	OK
1440 minute winter	Plot Soakaway 1	1470	177.467	0.467	4.8	165.7795	0.0000	OK
1440 minute winter	Plot Soakaway 2	1470	174.594	0.594	3.5	121.2295	0.0000	OK
1440 minute winter	Plot Soakaway 3	1440	174.556	0.556	1.2	40.3198	0.0000	OK
1440 minute winter	Plot Soakaway 4	1470	178.527	0.527	1.8	62.1899	0.0000	OK
1440 minute winter	Plot Soakaway 5	1440	176.383	0.383	1.4	48.9597	0.0000	OK
1440 minute winter	Plot Soakaway 6	1470	168.434	0.434	3.5	121.2295	0.0000	OK
1440 minute winter	Plot Soakaway 7	1470	167.505	0.505	3.0	102.8696	0.0000	OK
1440 minute winter	Plot Soakaway 8	1470	167.468	0.468	1.8	62.1899	0.0000	OK
1440 minute winter	Plot Soakaway 9	1470	165.490	0.490	4.3	149.6694	0.0000	OK
1440 minute winter	Plot Soakaway 10	1440	165.332	0.332	0.8	27.3599	0.0000	OK
1440 minute winter	Plot Soakaway 11	1440	161.539	0.539	1.1	36.3598	0.0000	OK
1440 minute winter	Plot Soakaway 12	1470	158.715	0.715	2.0	70.1098	0.0000	OK
1440 minute winter	Plot Soakaway 13	1470	163.536	0.536	2.2	76.5898	0.0000	OK
1440 minute winter	Plot Soakaway 14	1440	166.546	0.546	1.3	44.9998	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)
15 minute winter	S25	8.000	S11	7.6	0.680	0.104	0.5830
120 minute winter	H1	Infiltration		26.1			
1440 minute winter	Plot Soakaway 1	Infiltration		0.0			
1440 minute winter	Plot Soakaway 2	Infiltration		0.0			
1440 minute winter	Plot Soakaway 3	Infiltration		0.0			
1440 minute winter	Plot Soakaway 4	Infiltration		0.0			
1440 minute winter	Plot Soakaway 5	Infiltration		0.0			
1440 minute winter	Plot Soakaway 6	Infiltration		0.0			
1440 minute winter	Plot Soakaway 7	Infiltration		0.0			
1440 minute winter	Plot Soakaway 8	Infiltration		0.0			
1440 minute winter	Plot Soakaway 9	Infiltration		0.0			
1440 minute winter	Plot Soakaway 10	Infiltration		0.0			
1440 minute winter	Plot Soakaway 11	Infiltration		0.0			
1440 minute winter	Plot Soakaway 12	Infiltration		0.0			
1440 minute winter	Plot Soakaway 13	Infiltration		0.0			
1440 minute winter	Plot Soakaway 14	Infiltration		0.0			

Results for 30 year Critical Storm Duration. Lowest mass balance: 99.96%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	S1	10	184.049	0.049	19.8	0.1082	0.0000	OK
15 minute winter	S2	10	179.561	0.061	39.4	0.1087	0.0000	OK
15 minute winter	S3	10	175.457	0.107	97.8	0.1511	0.0000	OK
15 minute winter	S4	10	172.065	0.140	212.4	0.2893	0.0000	OK
15 minute winter	S5	11	167.645	0.145	250.6	0.2944	0.0000	OK
15 minute winter	S6	11	166.217	0.217	306.9	0.6029	0.0000	OK
15 minute winter	S7	11	165.283	0.283	348.0	0.7802	0.0000	OK
15 minute winter	S8	11	164.259	0.259	387.1	0.7325	0.0000	OK
15 minute winter	S9	11	163.809	0.309	404.5	1.1724	0.0000	OK
15 minute winter	S10	11	163.228	0.228	420.0	0.8639	0.0000	OK
15 minute winter	S11	11	162.231	0.231	455.8	0.8620	0.0000	OK
15 minute winter	S12	12	159.362	0.362	470.4	1.3467	0.0000	OK
15 minute winter	S13	12	158.216	0.216	489.8	0.4727	0.0000	OK
15 minute winter	S14	10	178.055	0.055	19.8	0.1221	0.0000	OK
15 minute winter	S15a	10	175.085	0.085	39.4	0.1681	0.0000	OK
15 minute winter	S15	10	174.088	0.088	58.6	0.2259	0.0000	OK
15 minute winter	S16	10	170.055	0.055	19.8	0.1282	0.0000	OK
15 minute winter	S17	10	168.567	0.067	39.3	0.2607	0.0000	OK
15 minute winter	S18	10	181.048	0.048	19.8	0.0929	0.0000	OK
15 minute winter	S19	10	178.069	0.069	39.5	0.1075	0.0000	OK
15 minute winter	S20	10	176.055	0.055	19.8	0.0920	0.0000	OK
15 minute winter	S21	10	175.075	0.075	39.5	0.1218	0.0000	OK
15 minute winter	S22	10	172.044	0.044	19.8	0.0993	0.0000	OK
15 minute winter	S23	10	170.047	0.047	19.8	0.1052	0.0000	OK
15 minute winter	S24	11	166.057	0.057	19.8	0.1390	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)
15 minute winter	S1	1.000	S2	19.6	2.204	0.059	0.4552
15 minute winter	S2	1.001	S3	39.0	3.862	0.087	0.2522
15 minute winter	S3	1.002	S4	96.5	3.413	0.120	1.5554
15 minute winter	S4	1.003	S5	211.2	4.464	0.153	2.6051
15 minute winter	S5	1.004	S6	250.2	3.502	0.125	1.2964
15 minute winter	S6	1.005	S7	310.5	2.796	0.266	3.8937
15 minute winter	S7	1.006	S8	349.5	2.829	0.418	8.4019
15 minute winter	S8	1.007	S9	385.9	2.254	0.157	5.6644
15 minute winter	S9	1.008	S10	401.4	3.306	0.412	3.0588
15 minute winter	S10	1.009	S11	418.2	4.220	0.234	1.4867
15 minute winter	S11	1.010	S12	451.8	3.290	0.327	10.4147
15 minute winter	S12	1.011	S13	474.4	3.529	0.580	9.5586
15 minute winter	S13	1.012	H1	490.9	5.869	0.225	0.8370
15 minute winter	S14	2.000	S15a	19.6	1.564	0.074	0.6832
15 minute winter	S15a	2.001	S15	38.8	2.311	0.167	0.3863
15 minute winter	S15	2.002	S4	57.6	2.477	0.060	1.1863
15 minute winter	S16	9.000	S17	19.5	1.403	0.023	0.7115
15 minute winter	S17	9.001	S6	38.3	0.760	0.027	3.2635
15 minute winter	S18	3.000	S19	19.7	2.052	0.056	0.2902
15 minute winter	S19	3.001	S3	39.1	3.304	0.108	0.2838
15 minute winter	S20	4.000	S21	19.7	1.751	0.075	0.2038
15 minute winter	S21	4.001	S4	38.9	2.880	0.132	0.5540
15 minute winter	S22	5.000	S5	19.6	0.815	0.020	1.3536
15 minute winter	S23	6.000	S7	19.5	1.795	0.023	1.6923
15 minute winter	S24	7.000	S8	19.0	1.414	0.019	1.0883

Results for 30 year Critical Storm Duration. Lowest mass balance: 99.96%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	S25	11	162.785	0.105	19.8	0.2196	0.0000	OK
120 minute winter	H1	100	157.934	0.934	186.8	339.8792	0.0000	OK
1440 minute winter	Plot Soakaway 1	1470	177.901	0.901	9.3	319.7689	0.0000	OK
1440 minute winter	Plot Soakaway 2	1470	175.156	1.156	6.9	235.9791	0.0000	OK
1440 minute winter	Plot Soakaway 3	1470	175.090	1.090	2.3	79.1098	0.0000	OK
1440 minute winter	Plot Soakaway 4	1470	179.025	1.025	3.5	120.8695	0.0000	OK
1440 minute winter	Plot Soakaway 5	1470	176.738	0.738	2.7	94.2297	0.0000	OK
1440 minute winter	Plot Soakaway 6	1470	168.846	0.846	6.9	235.9791	0.0000	OK
1440 minute winter	Plot Soakaway 7	1470	167.992	0.992	5.9	202.1393	0.0000	OK
1440 minute winter	Plot Soakaway 8	1470	167.909	0.909	3.5	120.8695	0.0000	OK
1440 minute winter	Plot Soakaway 9	1470	165.951	0.951	8.4	290.2490	0.0000	OK
1440 minute winter	Plot Soakaway 10	1470	165.667	0.667	1.6	54.9899	0.0000	OK
1440 minute winter	Plot Soakaway 11	1470	162.071	1.071	2.1	72.2698	0.0000	OK
1440 minute winter	Plot Soakaway 12	1470	159.372	1.372	3.9	134.5495	0.0000	OK
1440 minute winter	Plot Soakaway 13	1470	164.039	1.039	4.3	148.5894	0.0000	OK
1440 minute winter	Plot Soakaway 14	1470	167.065	1.065	2.5	87.7497	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)
15 minute winter	S25	8.000	S11	19.1	0.879	0.259	1.1285
120 minute winter	H1	Infiltration		39.3			
1440 minute winter	Plot Soakaway 1	Infiltration		0.0			
1440 minute winter	Plot Soakaway 2	Infiltration		0.0			
1440 minute winter	Plot Soakaway 3	Infiltration		0.0			
1440 minute winter	Plot Soakaway 4	Infiltration		0.0			
1440 minute winter	Plot Soakaway 5	Infiltration		0.0			
1440 minute winter	Plot Soakaway 6	Infiltration		0.0			
1440 minute winter	Plot Soakaway 7	Infiltration		0.0			
1440 minute winter	Plot Soakaway 8	Infiltration		0.0			
1440 minute winter	Plot Soakaway 9	Infiltration		0.0			
1440 minute winter	Plot Soakaway 10	Infiltration		0.0			
1440 minute winter	Plot Soakaway 11	Infiltration		0.0			
1440 minute winter	Plot Soakaway 12	Infiltration		0.0			
1440 minute winter	Plot Soakaway 13	Infiltration		0.0			
1440 minute winter	Plot Soakaway 14	Infiltration		0.0			

Results for 100 year +40% CC Critical Storm Duration. Lowest mass balance: 99.96%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	S1	10	184.066	0.066	35.8	0.1448	0.0000	OK
15 minute winter	S2	10	179.584	0.084	71.3	0.1483	0.0000	OK
15 minute winter	S3	10	175.497	0.147	177.2	0.2072	0.0000	OK
15 minute winter	S4	10	172.118	0.193	386.9	0.3977	0.0000	OK
15 minute winter	S5	10	167.705	0.205	455.5	0.4169	0.0000	OK
15 minute winter	S6	11	166.316	0.315	557.3	0.8777	0.0000	OK
15 minute winter	S7	11	165.421	0.420	630.3	1.1584	0.0000	OK
15 minute winter	S8	11	164.377	0.377	702.3	1.0657	0.0000	OK
15 minute winter	S9	11	163.969	0.469	733.7	1.7787	0.0000	OK
15 minute winter	S10	11	163.341	0.341	762.6	1.2893	0.0000	OK
15 minute winter	S11	11	162.325	0.325	828.6	1.2143	0.0000	OK
15 minute winter	S12	12	159.796	0.796	857.8	2.9582	0.0000	SURCHARGED
180 minute winter	S13	144	159.627	1.627	265.0	3.5573	0.0000	SURCHARGED
15 minute winter	S14	10	178.074	0.074	35.8	0.1639	0.0000	OK
15 minute winter	S15a	10	175.119	0.119	71.2	0.2344	0.0000	OK
15 minute winter	S15	10	174.119	0.119	106.1	0.3061	0.0000	OK
15 minute winter	S16	10	170.073	0.073	35.8	0.1701	0.0000	OK
15 minute winter	S17	10	168.589	0.089	71.2	0.3466	0.0000	OK
15 minute winter	S18	10	181.064	0.064	35.8	0.1242	0.0000	OK
15 minute winter	S19	10	178.094	0.094	71.4	0.1475	0.0000	OK
15 minute winter	S20	10	176.074	0.074	35.8	0.1234	0.0000	OK
15 minute winter	S21	10	175.103	0.103	71.4	0.1669	0.0000	OK
15 minute winter	S22	10	172.059	0.059	35.8	0.1317	0.0000	OK
15 minute winter	S23	10	170.062	0.062	35.8	0.1395	0.0000	OK
15 minute winter	S24	10	166.076	0.076	35.8	0.1847	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)
15 minute winter	S1	1.000	S2	35.5	2.596	0.107	0.7003
15 minute winter	S2	1.001	S3	70.6	4.549	0.158	0.3883
15 minute winter	S3	1.002	S4	175.3	4.015	0.219	2.4016
15 minute winter	S4	1.003	S5	384.3	5.125	0.278	4.1274
15 minute winter	S5	1.004	S6	452.4	3.871	0.227	2.1119
15 minute winter	S6	1.005	S7	562.4	3.105	0.482	6.3195
15 minute winter	S7	1.006	S8	634.0	3.192	0.759	13.5027
15 minute winter	S8	1.007	S9	700.0	2.400	0.285	9.6601
15 minute winter	S9	1.008	S10	728.9	3.630	0.747	5.0183
15 minute winter	S10	1.009	S11	760.2	4.742	0.426	2.4079
15 minute winter	S11	1.010	S12	824.1	3.641	0.597	16.4140
15 minute winter	S12	1.011	S13	818.1	3.843	1.001	15.0467
180 minute winter	S13	1.012	H1	252.1	4.363	0.115	2.8168
15 minute winter	S14	2.000	S15a	35.5	1.816	0.135	1.0648
15 minute winter	S15a	2.001	S15	70.3	2.707	0.302	0.5974
15 minute winter	S15	2.002	S4	105.2	2.899	0.109	1.8564
15 minute winter	S16	9.000	S17	35.4	1.683	0.042	1.0774
15 minute winter	S17	9.001	S6	69.8	0.842	0.050	5.2787
15 minute winter	S18	3.000	S19	35.6	2.406	0.101	0.4481
15 minute winter	S19	3.001	S3	70.8	3.880	0.196	0.4381
15 minute winter	S20	4.000	S21	35.7	2.057	0.136	0.3137
15 minute winter	S21	4.001	S4	70.6	3.389	0.240	0.8541
15 minute winter	S22	5.000	S5	35.5	0.924	0.037	2.1445
15 minute winter	S23	6.000	S7	35.4	1.846	0.042	3.9859
15 minute winter	S24	7.000	S8	34.6	1.677	0.035	1.6743

Results for 100 year +40% CC Critical Storm Duration. Lowest mass balance: 99.96%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	S25	11	162.828	0.148	35.8	0.3081	0.0000	OK
180 minute winter	H1	144	159.625	2.625	252.1	671.3791	0.0000	OK
1440 minute winter	Plot Soakaway 1	1470	178.573	1.573	16.2	558.1782	0.0000	OK
1440 minute winter	Plot Soakaway 2	1470	176.468	2.468	12.0	411.1174	0.0000	OK
1440 minute winter	Plot Soakaway 3	1470	175.914	1.914	4.0	138.8694	0.0000	OK
1440 minute winter	Plot Soakaway 4	1470	179.790	1.790	6.1	211.1393	0.0000	OK
1440 minute winter	Plot Soakaway 5	1470	177.290	1.290	4.8	164.6995	0.0000	OK
1440 minute winter	Plot Soakaway 6	1470	169.473	1.473	12.0	411.1186	0.0000	OK
1440 minute winter	Plot Soakaway 7	1470	168.725	1.725	10.2	351.4487	0.0000	OK
1440 minute winter	Plot Soakaway 8	1470	168.588	1.588	6.1	211.1393	0.0000	OK
1440 minute winter	Plot Soakaway 9	1470	166.657	1.657	14.7	505.7083	0.0000	OK
1440 minute winter	Plot Soakaway 10	1470	166.144	1.143	2.7	94.2297	0.0000	OK
1440 minute winter	Plot Soakaway 11	1470	162.813	1.813	3.6	122.3095	0.0000	OK
1440 minute winter	Plot Soakaway 12	1470	160.395	2.394	6.8	234.8991	0.0000	OK
1440 minute winter	Plot Soakaway 13	1470	164.803	1.803	7.5	257.8492	0.0000	OK
1440 minute winter	Plot Soakaway 14	1470	167.848	1.848	4.4	152.2796	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)
15 minute winter	S25	8.000	S11	34.7	1.027	0.472	1.7588
180 minute winter	H1	Infiltration		58.4			
1440 minute winter	Plot Soakaway 1	Infiltration		0.0			
1440 minute winter	Plot Soakaway 2	Infiltration		0.0			
1440 minute winter	Plot Soakaway 3	Infiltration		0.0			
1440 minute winter	Plot Soakaway 4	Infiltration		0.0			
1440 minute winter	Plot Soakaway 5	Infiltration		0.0			
1440 minute winter	Plot Soakaway 6	Infiltration		0.0			
1440 minute winter	Plot Soakaway 7	Infiltration		0.0			
1440 minute winter	Plot Soakaway 8	Infiltration		0.0			
1440 minute winter	Plot Soakaway 9	Infiltration		0.0			
1440 minute winter	Plot Soakaway 10	Infiltration		0.0			
1440 minute winter	Plot Soakaway 11	Infiltration		0.0			
1440 minute winter	Plot Soakaway 12	Infiltration		0.0			
1440 minute winter	Plot Soakaway 13	Infiltration		0.0			
1440 minute winter	Plot Soakaway 14	Infiltration		0.0			