

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)	17.000	Minimum Backdrop Height (m)	0.000
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)	Diameter (mm)	Easting (m)	Northing (m)	Depth (m)
S52	0.040	5.00	167.411	1200	401189.758	340341.701	1.075
S25	0.045	5.00	167.212	1350	401163.050	340352.918	1.137
S27	0.015	5.00	166.933	1200	401123.799	340361.585	1.433
S28	0.037	5.00	166.682	1200	401098.317	340362.592	1.642
S33	0.029	5.00	165.392	1200	401065.778	340352.263	2.271
S34	0.045	5.00	164.616	1200	401048.084	340352.190	2.396
S36	0.048	5.00	163.285	1200	401021.152	340366.869	2.615
S42	0.016	5.00	159.219	1350	400958.549	340381.358	1.219
S158	0.015	5.00	160.449	1350	400976.767	340377.756	2.549
S159			161.119	1200	400976.114	340388.700	3.719
S160			159.910	1200	400957.927	340392.961	2.710
INFILTRATION BASIN 1 INLET			158.343	1	400952.375	340371.083	2.541
S163	0.016	5.00	160.300	1350			1.000
S164	0.012	5.00	161.300	1350			1.000
S165	0.000	5.00	161.800	1350			1.000
S166	0.072	5.00	164.000	1350			1.000
S167	0.016	5.00	166.300	1350			1.000
S168	0.012	5.00	166.300	1350			0.800

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	S52	S25	28.968	0.600	166.336	166.150	0.186	155.7	225	5.46	50.0
1.001	S25	S27	40.197	0.600	166.075	165.500	0.575	69.9	225	5.89	50.0
1.002	S27	S28	25.502	0.600	165.500	165.040	0.460	55.4	225	6.13	50.0
1.003	S28	S33	34.139	0.600	165.040	163.121	1.919	17.8	225	6.31	50.0
1.004	S33	S34	17.694	0.600	163.121	162.220	0.901	19.6	225	6.41	50.0
1.005	S34	S36	30.672	0.600	162.220	160.670	1.550	19.8	225	6.59	50.0
1.006	S36	S158	45.700	0.600	160.670	157.900	2.770	16.5	225	6.82	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	1.045	41.5	7.6	0.850	0.837	0.040	0.0	65	0.797
1.001	1.566	62.3	16.1	0.912	1.208	0.085	0.0	78	1.319
1.002	1.760	70.0	19.0	1.208	1.417	0.100	0.0	80	1.499
1.003	3.117	123.9	26.0	1.417	2.046	0.137	0.0	70	2.484
1.004	2.966	117.9	31.5	2.046	2.171	0.166	0.0	80	2.528
1.005	2.954	117.5	40.0	2.171	2.390	0.211	0.0	90	2.677
1.006	3.237	128.7	49.1	2.390	2.324	0.259	0.0	96	3.025

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)
2.000	S42	S158	18.571	0.600	158.000	157.900	0.100	185.7	300	5.27	50.0
1.007	S158	S159	10.964	0.600	157.900	157.400	0.500	21.9	300	6.88	50.0
1.008	S159	S160	18.680	0.030	157.400	157.200	0.200	93.4	1000	7.02	50.0
1.009	S160	INFILTRATION BASIN 1 INLET	22.572	0.030	157.200	155.802	1.398	16.1	300	7.27	50.0
3.000	S163	S158	23.998	0.600	159.300	157.900	1.400	17.1	300	6.38	50.0
3.001	S164	S163	32.495	0.600	160.300	159.300	1.000	32.5	300	6.28	50.0
3.002	S165	S164	18.834	0.600	160.800	160.300	0.500	37.7	300	6.08	50.0
3.003	S166	S165	45.869	0.600	163.000	160.800	2.200	20.8	300	5.96	50.0
3.004	S167	S166	89.866	0.600	165.300	163.000	2.300	39.1	300	5.74	50.0
3.005	S168	S167	15.400	0.600	165.500	165.300	0.200	77.0	300	5.14	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)	Pro Depth (mm)	Pro Velocity (m/s)
2.000	1.150	81.3	3.0	0.919	2.249	0.016	0.0	40	0.557
1.007	3.372	238.3	79.3	2.249	3.419	0.418	0.0	119	3.039
1.008	2.210	7734.6	79.3	2.719	1.710	0.418	0.0	130	0.681
1.009	1.475	104.3	79.3	2.410	2.241	0.418	0.0	196	1.624
3.000	3.815	269.7	24.3	0.700	2.249	0.128	0.0	60	2.389
3.001	2.767	195.6	21.3	0.700	0.700	0.112	0.0	67	1.837
3.002	2.569	181.6	19.0	0.700	0.700	0.100	0.0	65	1.679
3.003	3.458	244.4	19.0	0.700	0.700	0.100	0.0	56	2.078
3.004	2.523	178.3	5.3	0.700	0.700	0.028	0.0	35	1.147
3.005	1.793	126.8	2.3	0.500	0.700	0.012	0.0	28	0.697

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	28.968	155.7	225	Circular	167.411	166.336	0.850	167.212	166.150	0.837
1.001	40.197	69.9	225	Circular	167.212	166.075	0.912	166.933	165.500	1.208
1.002	25.502	55.4	225	Circular	166.933	165.500	1.208	166.682	165.040	1.417
1.003	34.139	17.8	225	Circular	166.682	165.040	1.417	165.392	163.121	2.046
1.004	17.694	19.6	225	Circular	165.392	163.121	2.046	164.616	162.220	2.171
1.005	30.672	19.8	225	Circular	164.616	162.220	2.171	163.285	160.670	2.390
1.006	45.700	16.5	225	Circular	163.285	160.670	2.390	160.449	157.900	2.324
2.000	18.571	185.7	300	Circular	159.219	158.000	0.919	160.449	157.900	2.249
1.007	10.964	21.9	300	Circular	160.449	157.900	2.249	161.119	157.400	3.419
1.008	18.680	93.4	1000	SWALE	161.119	157.400	2.719	159.910	157.200	1.710

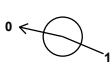
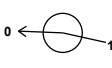
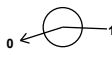
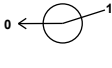
Link	US Node	Dia (mm)	Node Type	MH Type	DS Node	Dia (mm)	Node Type	MH Type
1.000	S52	1200	Manhole	Adoptable	S25	1350	Manhole	Adoptable
1.001	S25	1350	Manhole	Adoptable	S27	1200	Manhole	Adoptable
1.002	S27	1200	Manhole	Adoptable	S28	1200	Manhole	Adoptable
1.003	S28	1200	Manhole	Adoptable	S33	1200	Manhole	Adoptable
1.004	S33	1200	Manhole	Adoptable	S34	1200	Manhole	Adoptable
1.005	S34	1200	Manhole	Adoptable	S36	1200	Manhole	Adoptable
1.006	S36	1200	Manhole	Adoptable	S158	1350	Manhole	Adoptable
2.000	S42	1350	Manhole	Adoptable	S158	1350	Manhole	Adoptable
1.007	S158	1350	Manhole	Adoptable	S159	1200	Manhole	Adoptable
1.008	S159	1200	Manhole	Adoptable	S160	1200	Manhole	Adoptable

Pipeline Schedule

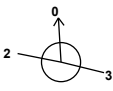
Link	Length (m)	Slope (1:X)	Dia (mm)	Link Type	US CL (m)	US IL (m)	US Depth (m)	DS CL (m)	DS IL (m)	DS Depth (m)
1.009	22.572	16.1	300	Circular	159.910	157.200	2.410	158.343	155.802	2.241
3.000	23.998	17.1	300	Circular	160.300	159.300	0.700	160.449	157.900	2.249
3.001	32.495	32.5	300	Circular	161.300	160.300	0.700	160.300	159.300	0.700
3.002	18.834	37.7	300	Circular	161.800	160.800	0.700	161.300	160.300	0.700
3.003	45.869	20.8	300	Circular	164.000	163.000	0.700	161.800	160.800	0.700
3.004	89.866	39.1	300	Circular	166.300	165.300	0.700	164.000	163.000	0.700
3.005	15.400	77.0	300	Circular	166.300	165.500	0.500	166.300	165.300	0.700

Link	US Node	Dia (mm)	Node Type	MH Type	DS Node	Dia (mm)	Node Type	MH Type
1.009	S160	1200	Manhole	Adoptable	INFILTRATION BASIN 1 INLET	1	Manhole	Adoptable
3.000	S163	1350	Manhole	Adoptable	S158	1350	Manhole	Adoptable
3.001	S164	1350	Manhole	Adoptable	S163	1350	Manhole	Adoptable
3.002	S165	1350	Manhole	Adoptable	S164	1350	Manhole	Adoptable
3.003	S166	1350	Manhole	Adoptable	S165	1350	Manhole	Adoptable
3.004	S167	1350	Manhole	Adoptable	S166	1350	Manhole	Adoptable
3.005	S168	1350	Manhole	Adoptable	S167	1350	Manhole	Adoptable

Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)
S52	401189.758	340341.701	167.411	1.075	1200				
						0	1.000	166.336	225
S25	401163.050	340352.918	167.212	1.137	1350		1	1.000	166.150
						0	1.001	166.075	225
S27	401123.799	340361.585	166.933	1.433	1200		1	1.001	165.500
						0	1.002	165.500	225
S28	401098.317	340362.592	166.682	1.642	1200		1	1.002	165.040
						0	1.003	165.040	225
S33	401065.778	340352.263	165.392	2.271	1200		1	1.003	163.121
						0	1.004	163.121	225
S34	401048.084	340352.190	164.616	2.396	1200		1	1.004	162.220
						0	1.005	162.220	225
S36	401021.152	340366.869	163.285	2.615	1200		1	1.005	160.670
						0	1.006	160.670	225

Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)	
S42	400958.549	340381.358	159.219	1.219	1350		0	2.000	158.000	300
S158	400976.767	340377.756	160.449	2.549	1350		1	3.000	157.900	300
							2	2.000	157.900	300
							3	1.006	157.900	225
							0	1.007	157.900	300
S159	400976.114	340388.700	161.119	3.719	1200		1	1.007	157.400	300
							0	1.008	157.400	1000
S160	400957.927	340392.961	159.910	2.710	1200		1	1.008	157.200	1000
							0	1.009	157.200	300
INFILTRATION BASIN 1 INLET	400952.375	340371.083	158.343	2.541	1		1	1.009	155.802	300
S163			160.300	1.000	1350		1	3.001	159.300	300
							0	3.000	159.300	300
S164			161.300	1.000	1350		1	3.002	160.300	300
							0	3.001	160.300	300
S165			161.800	1.000	1350		1	3.003	160.800	300
							0	3.002	160.800	300
S166			164.000	1.000	1350		1	3.004	163.000	300
							0	3.003	163.000	300
S167			166.300	1.000	1350		1	3.005	165.300	300
							0	3.004	165.300	300
S168			166.300	0.800	1350		0	3.005	165.500	300

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)	0.0
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
2	0	0	0
30	0	0	0
100	40	0	0
1000	0	0	0

Node INFILTRATION BASIN 1 INLET Depth/Area Storage Structure

Base Inf Coefficient (m/hr)	0.07164	Safety Factor	10.0	Invert Level (m)	155.250
Side Inf Coefficient (m/hr)	0.07164	Porosity	1.00	Time to half empty (mins)	11803

Depth (m)	Area (m²)	Inf Area (m²)	Depth (m)	Area (m²)	Inf Area (m²)
0.000	75.0	75.0	2.100	393.1	393.1

Results for 1 year Critical Storm Duration. Lowest mass balance: 99.05%

Node Event		US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	S52		11	166.387	0.051	4.8	0.0579	0.0000	OK
15 minute winter	S25		10	166.136	0.060	10.0	0.0865	0.0000	OK
15 minute winter	S27		11	165.565	0.065	11.5	0.0733	0.0000	OK
15 minute winter	S28		11	165.094	0.054	15.7	0.0611	0.0000	OK
15 minute winter	S33		11	163.183	0.062	19.0	0.0699	0.0000	OK
15 minute winter	S34		11	162.290	0.070	24.1	0.0792	0.0000	OK
15 minute winter	S36		11	160.743	0.073	29.5	0.0826	0.0000	OK
15 minute winter	S42		10	158.031	0.031	1.9	0.0445	0.0000	OK
15 minute winter	S158		11	157.998	0.098	47.4	0.1401	0.0000	OK
15 minute winter	S159		11	157.499	0.099	47.2	0.1124	0.0000	OK
15 minute winter	S160		12	157.343	0.142	46.6	0.1611	0.0000	OK
1440 minute winter	INFILTRATION BASIN 1 INLET		1350	155.842	0.040	2.8	70.9582	0.0000	OK
15 minute winter	S163		11	159.347	0.047	14.4	0.0669	0.0000	OK
15 minute winter	S164		11	160.353	0.053	12.7	0.0763	0.0000	OK
15 minute winter	S165		11	160.852	0.052	11.4	0.0740	0.0000	OK
15 minute winter	S166		11	163.044	0.044	11.6	0.0627	0.0000	OK
15 minute winter	S167		11	165.328	0.028	3.3	0.0396	0.0000	OK
15 minute winter	S168		10	165.522	0.022	1.4	0.0315	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	S52		1.000	S25	4.6	0.691	0.111	0.1940	
15 minute winter	S25		1.001	S27	9.8	1.096	0.157	0.3605	
15 minute winter	S27		1.002	S28	11.6	1.388	0.166	0.2136	
15 minute winter	S28		1.003	S33	15.8	1.954	0.127	0.2754	
15 minute winter	S33		1.004	S34	19.1	1.974	0.162	0.1712	
15 minute winter	S34		1.005	S36	24.1	2.228	0.205	0.3324	
15 minute winter	S36		1.006	S158	29.6	2.140	0.230	0.6336	
15 minute winter	S42		2.000	S158	1.8	0.180	0.023	0.2207	
15 minute winter	S158		1.007	S159	47.2	2.342	0.198	0.2211	
15 minute winter	S159		1.008	S160	46.6	0.462	0.006	1.9729	
15 minute winter	S160		1.009	INFILTRATION BASIN 1 INLET	46.4	1.420	0.445	0.7374	
1440 minute winter	INFILTRATION BASIN 1 INLET		Infiltration		0.3				
15 minute winter	S163		3.000	S158	14.3	1.100	0.053	0.3231	
15 minute winter	S164		3.001	S163	12.6	1.639	0.065	0.2504	
15 minute winter	S165		3.002	S164	11.4	1.379	0.063	0.1555	
15 minute winter	S166		3.003	S165	11.4	1.589	0.047	0.3308	
15 minute winter	S167		3.004	S166	3.2	0.668	0.018	0.4304	
15 minute winter	S168		3.005	S167	1.4	0.505	0.011	0.0422	

Results for 2 year Critical Storm Duration. Lowest mass balance: 99.05%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	S52	10	166.395	0.059	6.2	0.0662	0.0000	OK
15 minute winter	S25	10	166.144	0.069	12.8	0.0988	0.0000	OK
15 minute winter	S27	11	165.574	0.074	14.9	0.0840	0.0000	OK
15 minute winter	S28	11	165.102	0.062	20.4	0.0696	0.0000	OK
15 minute winter	S33	11	163.192	0.071	24.6	0.0802	0.0000	OK
15 minute winter	S34	11	162.301	0.081	31.2	0.0911	0.0000	OK
15 minute winter	S36	11	160.754	0.084	38.3	0.0947	0.0000	OK
15 minute winter	S42	10	158.035	0.035	2.5	0.0505	0.0000	OK
15 minute winter	S158	11	158.014	0.114	61.6	0.1636	0.0000	OK
15 minute winter	S159	11	157.514	0.114	61.5	0.1292	0.0000	OK
15 minute winter	S160	12	157.367	0.167	60.9	0.1887	0.0000	OK
1440 minute winter	INFILTRATION BASIN 1 INLET	1380	155.952	0.150	3.3	89.9880	0.0000	OK
15 minute winter	S163	11	159.353	0.053	18.8	0.0762	0.0000	OK
15 minute winter	S164	11	160.361	0.061	16.5	0.0871	0.0000	OK
15 minute winter	S165	11	160.859	0.059	14.7	0.0844	0.0000	OK
15 minute winter	S166	11	163.050	0.050	15.1	0.0711	0.0000	OK
15 minute winter	S167	11	165.332	0.032	4.3	0.0451	0.0000	OK
15 minute winter	S168	10	165.525	0.025	1.9	0.0361	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	S52	1.000	S25	6.0	0.743	0.144	0.2330
15 minute winter	S25	1.001	S27	12.7	1.173	0.203	0.4350
15 minute winter	S27	1.002	S28	15.0	1.487	0.214	0.2575
15 minute winter	S28	1.003	S33	20.4	2.099	0.165	0.3328
15 minute winter	S33	1.004	S34	24.7	2.108	0.209	0.2074
15 minute winter	S34	1.005	S36	31.3	2.388	0.266	0.4017
15 minute winter	S36	1.006	S158	38.3	2.286	0.298	0.7699
15 minute winter	S42	2.000	S158	2.4	0.187	0.030	0.2711
15 minute winter	S158	1.007	S159	61.5	2.498	0.258	0.2700
15 minute winter	S159	1.008	S160	60.9	0.490	0.008	2.4477
15 minute winter	S160	1.009	INFILTRATION BASIN 1 INLET	60.3	1.513	0.578	0.8996
1440 minute winter	INFILTRATION BASIN 1 INLET	Infiltration		0.4			
15 minute winter	S163	3.000	S158	18.7	1.166	0.069	0.3968
15 minute winter	S164	3.001	S163	16.5	1.770	0.084	0.3027
15 minute winter	S165	3.002	S164	14.8	1.482	0.081	0.1880
15 minute winter	S166	3.003	S165	14.7	1.710	0.060	0.3987
15 minute winter	S167	3.004	S166	4.1	0.730	0.023	0.5184
15 minute winter	S168	3.005	S167	1.8	0.558	0.015	0.0511

Results for 30 year Critical Storm Duration. Lowest mass balance: 99.05%

Node Event		US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	S52		10	166.418	0.082	11.6	0.0930	0.0000	OK
15 minute winter	S25		10	166.173	0.098	24.4	0.1408	0.0000	OK
15 minute winter	S27		11	165.606	0.106	28.4	0.1199	0.0000	OK
15 minute winter	S28		11	165.126	0.086	38.5	0.0971	0.0000	OK
15 minute winter	S33		11	163.223	0.102	46.6	0.1151	0.0000	OK
15 minute winter	S34		11	162.337	0.117	59.1	0.1319	0.0000	OK
15 minute winter	S36		11	160.790	0.120	72.5	0.1362	0.0000	OK
15 minute winter	S42		11	158.073	0.073	4.7	0.1042	0.0000	OK
15 minute winter	S158		11	158.074	0.174	117.4	0.2492	0.0000	OK
15 minute winter	S159		11	157.559	0.159	117.8	0.1794	0.0000	OK
15 minute winter	S160		12	157.484	0.284	117.2	0.3207	0.0000	OK
960 minute winter	INFILTRATION BASIN 1 INLET		960	156.310	0.508	8.1	164.5117	0.0000	OK
15 minute winter	S163		11	159.374	0.074	36.0	0.1053	0.0000	OK
15 minute winter	S164		11	160.385	0.085	31.5	0.1218	0.0000	OK
15 minute winter	S165		11	160.883	0.083	28.0	0.1182	0.0000	OK
15 minute winter	S166		11	163.068	0.068	28.7	0.0974	0.0000	OK
15 minute winter	S167		11	165.343	0.043	8.2	0.0612	0.0000	OK
15 minute winter	S168		10	165.534	0.034	3.5	0.0486	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	S52		1.000	S25		11.3	0.884	0.271	0.3712
15 minute winter	S25		1.001	S27		24.0	1.379	0.386	0.7007
15 minute winter	S27		1.002	S28		28.4	1.758	0.405	0.4116
15 minute winter	S28		1.003	S33		38.7	2.470	0.312	0.5348
15 minute winter	S33		1.004	S34		46.8	2.450	0.397	0.3380
15 minute winter	S34		1.005	S36		59.3	2.800	0.505	0.6500
15 minute winter	S36		1.006	S158		72.8	2.681	0.566	1.2476
15 minute winter	S42		2.000	S158		4.6	0.211	0.057	0.5161
15 minute winter	S158		1.007	S159		117.8	2.937	0.494	0.4396
15 minute winter	S159		1.008	S160		117.2	0.541	0.015	4.9834
15 minute winter	S160		1.009	INFILTRATION BASIN 1 INLET		108.1	1.657	1.036	1.4949
960 minute winter	INFILTRATION BASIN 1 INLET		Infiltration			0.5			
15 minute winter	S163		3.000	S158		36.1	1.314	0.134	0.6694
15 minute winter	S164		3.001	S163		31.6	2.126	0.162	0.4843
15 minute winter	S165		3.002	S164		28.2	1.756	0.155	0.3029
15 minute winter	S166		3.003	S165		28.0	2.041	0.115	0.6359
15 minute winter	S167		3.004	S166		7.9	0.884	0.044	0.8139
15 minute winter	S168		3.005	S167		3.5	0.665	0.027	0.0803

Results for 100 year +40% CC Critical Storm Duration. Lowest mass balance: 99.05%

Node Event		US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	S52		10	166.452	0.116	21.0	0.1312	0.0000	OK
15 minute winter	S25		10	166.218	0.143	44.1	0.2044	0.0000	OK
15 minute winter	S27		11	165.656	0.156	51.5	0.1761	0.0000	OK
15 minute winter	S28		11	165.160	0.120	69.8	0.1361	0.0000	OK
15 minute winter	S33		11	163.272	0.151	84.4	0.1707	0.0000	OK
15 minute winter	S34		10	162.399	0.178	107.0	0.2019	0.0000	OK
15 minute winter	S36		12	161.121	0.451	131.5	0.5102	0.0000	SURCHARGED
15 minute winter	S42		12	158.335	0.335	8.4	0.4789	0.0000	SURCHARGED
15 minute winter	S158		12	158.324	0.424	204.7	0.6069	0.0000	SURCHARGED
15 minute winter	S159		15	157.893	0.493	198.5	0.5578	0.0000	OK
15 minute winter	S160		15	157.895	0.695	162.9	0.7862	0.0000	SURCHARGED
1440 minute winter	INFILTRATION BASIN 1 INLET		1410	156.882	1.080	10.4	324.0241	0.0000	OK
15 minute winter	S163		11	159.400	0.100	65.2	0.1428	0.0000	OK
15 minute winter	S164		11	160.418	0.117	56.9	0.1681	0.0000	OK
15 minute winter	S165		11	160.915	0.114	50.8	0.1638	0.0000	OK
15 minute winter	S166		10	163.092	0.092	52.0	0.1319	0.0000	OK
15 minute winter	S167		11	165.357	0.057	14.6	0.0813	0.0000	OK
15 minute winter	S168		10	165.545	0.045	6.3	0.0643	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	S52		1.000	S25		20.5	1.029	0.492	0.5791
15 minute winter	S25		1.001	S27		43.6	1.566	0.700	1.1185
15 minute winter	S27		1.002	S28		51.3	2.010	0.733	0.6492
15 minute winter	S28		1.003	S33		70.0	2.801	0.565	0.8520
15 minute winter	S33		1.004	S34		84.7	2.748	0.718	0.5462
15 minute winter	S34		1.005	S36		107.7	3.062	0.917	1.1188
15 minute winter	S36		1.006	S158		127.6	3.244	0.991	1.8175
15 minute winter	S42		2.000	S158		10.0	0.224	0.123	1.3078
15 minute winter	S158		1.007	S159		198.5	3.202	0.833	0.7721
15 minute winter	S159		1.008	S160		162.9	0.560	0.021	25.9100
15 minute winter	S160		1.009	INFILTRATION BASIN 1 INLET		119.9	1.705	1.150	1.5368
1440 minute winter	INFILTRATION BASIN 1 INLET		Infiltration			0.6			
15 minute winter	S163		3.000	S158		65.3	1.365	0.242	1.0906
15 minute winter	S164		3.001	S163		57.3	2.490	0.293	0.7480
15 minute winter	S165		3.002	S164		51.0	2.031	0.281	0.4733
15 minute winter	S166		3.003	S165		50.8	2.379	0.208	0.9847
15 minute winter	S167		3.004	S166		14.2	1.045	0.079	1.2390
15 minute winter	S168		3.005	S167		6.2	0.790	0.049	0.1218

Results for 1000 year Critical Storm Duration. Lowest mass balance: 99.05%

Node Event			US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	S52			10	166.463	0.127	24.4	0.1441	0.0000	OK
15 minute winter	S25			10	166.235	0.160	51.2	0.2286	0.0000	OK
15 minute winter	S27			11	165.676	0.176	59.8	0.1991	0.0000	OK
15 minute winter	S28			11	165.172	0.132	80.9	0.1493	0.0000	OK
15 minute winter	S33			12	163.826	0.705	98.1	0.7974	0.0000	SURCHARGED
15 minute winter	S34			12	163.210	0.989	116.5	1.1191	0.0000	SURCHARGED
15 minute winter	S36			12	161.693	1.023	134.6	1.1571	0.0000	SURCHARGED
15 minute winter	S42			12	158.501	0.501	11.8	0.7175	0.0000	SURCHARGED
15 minute winter	S158			12	158.507	0.607	216.1	0.8686	0.0000	SURCHARGED
15 minute winter	S159			15	158.006	0.606	213.0	0.6856	0.0000	OK
15 minute winter	S160			15	158.008	0.808	180.9	0.9134	0.0000	SURCHARGED
1440 minute winter	INFILTRATION BASIN 1 INLET			1410	157.026	1.224	12.0	372.0496	0.0000	OK
15 minute winter	S163			11	159.408	0.108	75.8	0.1547	0.0000	OK
15 minute winter	S164			11	160.428	0.128	66.2	0.1834	0.0000	OK
15 minute winter	S165			11	160.925	0.125	59.1	0.1789	0.0000	OK
15 minute winter	S166			10	163.100	0.100	60.4	0.1428	0.0000	OK
15 minute winter	S167			10	165.361	0.061	17.0	0.0876	0.0000	OK
15 minute winter	S168			10	165.549	0.048	7.3	0.0694	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	S52		1.000		S25		23.8	1.065	0.572	0.6498
15 minute winter	S25		1.001		S27		50.6	1.602	0.812	1.2684
15 minute winter	S27		1.002		S28		59.7	2.060	0.852	0.7335
15 minute winter	S28		1.003		S33		81.3	2.786	0.656	1.0918
15 minute winter	S33		1.004		S34		89.0	2.671	0.755	0.7037
15 minute winter	S34		1.005		S36		107.0	3.055	0.911	1.2199
15 minute winter	S36		1.006		S158		128.4	3.245	0.997	1.8175
15 minute winter	S42		2.000		S158		8.6	0.225	0.106	1.3078
15 minute winter	S158		1.007		S159		213.0	3.249	0.894	0.7721
15 minute winter	S159		1.008		S160		180.9	0.565	0.023	35.1790
15 minute winter	S160		1.009		INFILTRATION BASIN 1 INLET		122.8	1.746	1.178	1.5407
1440 minute winter	INFILTRATION BASIN 1 INLET			Infiltration			0.7			
15 minute winter	S163		3.000		S158		76.1	1.380	0.282	1.1190
15 minute winter	S164		3.001		S163		66.7	2.589	0.341	0.8375
15 minute winter	S165		3.002		S164		59.4	2.102	0.327	0.5319
15 minute winter	S166		3.003		S165		59.1	2.467	0.242	1.1035
15 minute winter	S167		3.004		S166		16.5	1.092	0.093	1.3831
15 minute winter	S168		3.005		S167		7.2	0.822	0.057	0.1360