

Design Settings

Rainfall Methodology	FSR	Maximum Time of Concentration (mins)	30.00
Return Period (years)	100	Maximum Rainfall (mm/hr)	50.0
Additional Flow (%)	14	Minimum Velocity (m/s)	1.00
FSR Region	England and Wales	Connection Type	Level Soffits
M5-60 (mm)	20.000	Minimum Backdrop Height (m)	2.000
Ratio-R	0.300	Preferred Cover Depth (m)	1.300
CV	0.750	Include Intermediate Ground	✓
Time of Entry (mins)	7.00	Enforce best practice design rules	✓

Nodes

Name	Area (ha)	T of E (mins)	Cover Level (m)	Diameter (mm)	Easting (m)	Northing (m)	Depth (m)
1	0.575	7.00	9.450	2100	331393.713	184262.798	1.575
2	0.267	7.00	9.500	2100	331344.022	184327.384	1.975
3	0.033	7.00	9.600	1500	331293.980	184288.883	2.201
4	0.584	7.00	9.300	1800	331243.938	184250.382	2.102
5	0.401	7.00	9.480	1350	331328.745	184189.455	1.675
6	0.135	7.00	9.393	1800	331304.931	184171.128	2.395
7	0.267	7.00	9.550	1800	331324.902	184157.470	2.675
8	0.180	7.00	9.550	1800	331357.725	184118.207	2.777
9			9.480	1800	331396.347	184106.893	2.787
10			9.480	1800	331408.842	184116.393	2.818
11	0.055	7.00	9.000	1200	331439.060	184182.185	1.500
12	0.279	7.00	9.500	1500	331420.747	184205.982	2.477
13	0.330	7.00	9.480	1500	331377.334	184172.572	2.568
14	0.036	7.00	9.480	1500	331416.950	184121.095	2.700
15			9.480	2100	331412.733	184111.336	3.022
16			7.600	1800	331383.633	184085.888	1.219
Headwall			7.300	1800	331378.276	184076.039	0.941

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	1	2	81.490	0.600	7.875	7.675	0.200	407.4	525	8.23	50.0
1.001	2	3	63.139	0.600	7.525	7.399	0.126	500.0	675	9.13	50.0
1.002	3	4	63.139	0.600	7.399	7.273	0.126	500.0	675	10.04	50.0
1.003	4	6	100.007	0.600	7.198	6.998	0.200	500.0	750	11.38	50.0
2.000	5	6	30.050	0.600	7.805	7.373	0.432	69.6	375	7.23	50.0
1.004	6	7	24.195	0.600	6.998	6.950	0.048	500.0	750	11.70	50.0
1.005	7	8	51.176	0.600	6.875	6.773	0.102	500.0	825	12.35	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	1.103	238.8	88.8	1.050	1.300	0.575	0.0	221	1.025
1.001	1.165	416.9	130.1	1.300	1.526	0.842	0.0	258	1.035
1.002	1.165	416.9	135.2	1.526	1.352	0.875	0.0	263	1.045
1.003	1.244	549.7	225.4	1.352	1.645	1.459	0.0	334	1.185
2.000	2.175	240.2	62.0	1.300	1.645	0.401	0.0	129	1.834
1.004	1.244	549.7	308.3	1.645	1.850	1.996	0.0	402	1.279
1.005	1.321	705.9	349.6	1.850	1.952	2.263	0.0	410	1.318

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)
1.006	8	9	40.245	0.600	6.773	6.693	0.080	500.0	825	12.85	50.0
1.007	9	10	15.696	0.600	6.693	6.662	0.031	500.0	825	13.05	50.0
1.008	10	15	6.381	0.600	6.662	6.649	0.013	500.0	825	13.13	50.0
3.000	11	12	30.028	0.600	7.500	7.323	0.177	169.6	225	7.50	50.0
3.001	12	13	54.781	0.600	7.023	6.912	0.111	493.5	525	8.41	50.0
3.002	13	14	64.956	0.600	6.912	6.780	0.132	492.1	525	9.49	50.0
3.003	14	15	10.631	0.600	6.780	6.758	0.022	483.2	525	9.67	50.0
1.009	15	16	38.658	0.600	6.458	6.381	0.077	500.0	825	13.62	50.0
1.010	16	Headwall	11.212	0.600	6.381	6.359	0.022	509.6	825	13.76	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)
1.006	1.321	705.9	377.4	1.952	1.962	2.443	0.0	430	1.342
1.007	1.321	705.9	377.4	1.962	1.993	2.443	0.0	430	1.342
1.008	1.321	705.9	377.4	1.993	2.006	2.443	0.0	430	1.342
3.000	1.001	39.8	8.6	1.275	1.952	0.055	0.0	71	0.801
3.001	1.001	216.7	51.7	1.952	2.043	0.335	0.0	174	0.827
3.002	1.003	217.1	102.7	2.043	2.175	0.665	0.0	254	0.989
3.003	1.012	219.1	108.3	2.175	2.197	0.701	0.0	261	1.009
1.009	1.321	705.9	485.8	2.197	0.394	3.144	0.0	505	1.418
1.010	1.308	699.2	485.8	0.394	0.116	3.144	0.0	508	1.407

Simulation Settings

Rainfall Methodology	FSR	Analysis Speed	Detailed
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
2	0	0	0
5	0	0	0
10	0	0	0
30	0	0	0
100	0	0	0
100	40	0	0

Results for 1 year Critical Storm Duration. Lowest mass balance: 99.34%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m ³)	Flood (m ³)	Status
15 minute winter	1	12	8.070	0.195	62.7	2.1007	0.0000	OK
15 minute winter	2	12	7.735	0.210	85.9	1.2933	0.0000	OK
15 minute winter	3	14	7.641	0.242	88.9	0.5017	0.0000	OK
15 minute winter	4	14	7.442	0.244	132.7	1.9738	0.0000	OK
15 minute winter	5	11	7.935	0.130	43.8	0.8091	0.0000	OK
15 minute winter	6	14	7.297	0.299	181.7	1.0967	0.0000	OK
15 minute winter	7	14	7.202	0.327	200.6	1.4845	0.0000	OK
15 minute winter	8	15	7.135	0.362	214.4	1.3896	0.0000	OK
15 minute winter	9	15	7.096	0.403	208.1	1.0247	0.0000	OK
15 minute winter	10	15	6.975	0.313	208.1	0.7963	0.0000	OK
15 minute winter	11	12	7.564	0.064	6.0	0.1197	0.0000	OK
15 minute winter	12	12	7.185	0.162	36.2	0.6537	0.0000	OK
15 minute winter	13	13	7.136	0.224	69.7	0.9698	0.0000	OK
15 minute winter	14	13	7.032	0.252	70.9	0.5129	0.0000	OK
15 minute winter	15	15	6.840	0.382	273.0	1.3246	0.0000	OK
15 minute winter	16	15	6.743	0.362	273.6	0.9219	0.0000	OK
15 minute winter	Headwall	15	6.668	0.309	273.0	0.0000	0.0000	OK

Link Event (Outflow)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
15 minute winter	1	1.000	2	58.3	0.914	0.244	5.2066	
15 minute winter	2	1.001	3	85.7	0.894	0.206	6.4556	
15 minute winter	3	1.002	4	81.8	0.873	0.196	5.9670	
15 minute winter	4	1.003	6	131.1	0.914	0.239	14.3669	
15 minute winter	5	2.000	6	43.0	1.452	0.179	0.8927	
15 minute winter	6	1.004	7	179.2	1.214	0.326	3.5758	
15 minute winter	7	1.005	8	200.1	0.971	0.283	10.7282	
15 minute winter	8	1.006	9	208.1	0.877	0.295	9.7201	
15 minute winter	9	1.007	10	208.1	0.940	0.295	3.4805	
15 minute winter	10	1.008	15	208.0	1.242	0.295	1.0697	
15 minute winter	11	3.000	12	5.9	0.680	0.149	0.2613	
15 minute winter	12	3.001	13	34.8	0.498	0.160	3.9468	
15 minute winter	13	3.002	14	67.4	0.725	0.311	6.1716	
15 minute winter	14	3.003	15	69.6	0.848	0.318	0.8755	
15 minute winter	15	1.009	16	273.6	1.172	0.388	9.0226	
15 minute winter	16	1.010	Headwall	273.0	1.342	0.390	2.2817	185.8

Results for 2 year Critical Storm Duration. Lowest mass balance: 99.34%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m ³)	Flood (m ³)	Status
15 minute winter	1	12	8.103	0.228	81.1	2.4564	0.0000	OK
15 minute winter	2	13	7.768	0.243	111.8	1.4981	0.0000	OK
15 minute winter	3	14	7.689	0.290	114.6	0.5997	0.0000	OK
15 minute winter	4	13	7.493	0.295	182.0	2.3865	0.0000	OK
15 minute winter	5	11	7.958	0.153	56.6	0.9515	0.0000	OK
15 minute winter	6	14	7.360	0.362	246.7	1.3305	0.0000	OK
15 minute winter	7	14	7.271	0.396	267.7	1.7977	0.0000	OK
15 minute winter	8	15	7.209	0.436	284.9	1.6742	0.0000	OK
15 minute winter	9	15	7.167	0.474	276.9	1.2060	0.0000	OK
15 minute winter	10	15	7.026	0.364	276.6	0.9272	0.0000	OK
15 minute winter	11	12	7.574	0.074	7.8	0.1386	0.0000	OK
15 minute winter	12	12	7.222	0.199	46.9	0.8023	0.0000	OK
15 minute winter	13	13	7.177	0.265	89.8	1.1499	0.0000	OK
15 minute winter	14	13	7.071	0.291	91.0	0.5928	0.0000	OK
15 minute winter	15	15	6.908	0.450	359.8	1.5599	0.0000	OK
15 minute winter	16	15	6.803	0.422	361.0	1.0731	0.0000	OK
15 minute winter	Headwall	15	6.716	0.357	360.9	0.0000	0.0000	OK

Link Event (Outflow)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
15 minute winter	1	1.000	2	75.8	0.976	0.317	6.3546	
15 minute winter	2	1.001	3	110.5	0.898	0.265	8.2405	
15 minute winter	3	1.002	4	111.2	0.922	0.267	7.7721	
15 minute winter	4	1.003	6	179.0	0.971	0.326	18.4678	
15 minute winter	5	2.000	6	55.6	1.531	0.231	1.0956	
15 minute winter	6	1.004	7	240.1	1.252	0.437	4.7201	
15 minute winter	7	1.005	8	266.3	1.011	0.377	13.7275	
15 minute winter	8	1.006	9	276.9	0.930	0.392	12.1214	
15 minute winter	9	1.007	10	276.6	1.017	0.392	4.2661	
15 minute winter	10	1.008	15	276.8	1.349	0.392	1.3098	
15 minute winter	11	3.000	12	7.7	0.725	0.193	0.3175	
15 minute winter	12	3.001	13	44.7	0.507	0.206	5.0330	
15 minute winter	13	3.002	14	86.5	0.759	0.398	7.5430	
15 minute winter	14	3.003	15	89.8	0.910	0.410	1.0502	
15 minute winter	15	1.009	16	361.0	1.263	0.511	11.0458	
15 minute winter	16	1.010	Headwall	360.9	1.459	0.516	2.7747	241.3

Results for 5 year Critical Storm Duration. Lowest mass balance: 99.34%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m ³)	Flood (m ³)	Status
15 minute winter	1	12	8.144	0.269	105.3	2.8958	0.0000	OK
15 minute winter	2	13	7.812	0.287	146.0	1.7708	0.0000	OK
15 minute winter	3	13	7.739	0.340	148.8	0.7036	0.0000	OK
15 minute winter	4	13	7.546	0.348	237.9	2.8194	0.0000	OK
15 minute winter	5	11	7.987	0.182	73.5	1.1299	0.0000	OK
15 minute winter	6	14	7.437	0.439	320.0	1.6118	0.0000	OK
15 minute winter	7	14	7.355	0.480	351.7	2.1818	0.0000	OK
15 minute winter	8	14	7.296	0.523	368.8	2.0088	0.0000	OK
15 minute winter	9	15	7.247	0.554	362.9	1.4090	0.0000	OK
15 minute winter	10	15	7.083	0.421	360.2	1.0712	0.0000	OK
15 minute winter	11	12	7.586	0.086	10.1	0.1608	0.0000	OK
15 minute winter	12	12	7.271	0.248	61.0	0.9995	0.0000	OK
15 minute winter	13	13	7.231	0.319	116.1	1.3818	0.0000	OK
15 minute winter	14	13	7.119	0.339	117.1	0.6890	0.0000	OK
15 minute winter	15	14	6.987	0.529	470.6	1.8331	0.0000	OK
15 minute winter	16	15	6.869	0.488	469.1	1.2432	0.0000	OK
15 minute winter	Headwall	15	6.769	0.410	470.7	0.0000	0.0000	OK

Link Event (Outflow)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
15 minute winter	1	1.000	2	98.8	1.040	0.414	7.7867	
15 minute winter	2	1.001	3	143.3	0.931	0.344	10.2486	
15 minute winter	3	1.002	4	144.6	0.940	0.347	9.9567	
15 minute winter	4	1.003	6	231.1	0.995	0.420	23.3612	
15 minute winter	5	2.000	6	72.2	1.613	0.301	1.3517	
15 minute winter	6	1.004	7	309.8	1.263	0.564	6.1733	
15 minute winter	7	1.005	8	344.3	1.062	0.488	17.3513	
15 minute winter	8	1.006	9	362.9	0.991	0.514	14.8030	
15 minute winter	9	1.007	10	360.2	1.100	0.510	5.1299	
15 minute winter	10	1.008	15	361.2	1.462	0.512	1.5778	
15 minute winter	11	3.000	12	9.9	0.772	0.249	0.3858	
15 minute winter	12	3.001	13	57.5	0.516	0.265	6.5054	
15 minute winter	13	3.002	14	111.3	0.796	0.513	9.2322	
15 minute winter	14	3.003	15	116.2	0.981	0.530	1.2571	
15 minute winter	15	1.009	16	469.1	1.361	0.665	13.3234	
15 minute winter	16	1.010	Headwall	470.7	1.586	0.673	3.3257	313.5

Results for 10 year Critical Storm Duration. Lowest mass balance: 99.34%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	1	12	8.170	0.295	121.4	3.1769	0.0000	OK
15 minute winter	2	13	7.841	0.316	168.7	1.9497	0.0000	OK
15 minute winter	3	13	7.771	0.372	171.5	0.7705	0.0000	OK
15 minute winter	4	14	7.584	0.386	275.3	3.1242	0.0000	OK
15 minute winter	5	11	8.005	0.200	84.7	1.2447	0.0000	OK
15 minute winter	6	14	7.488	0.490	368.0	1.7982	0.0000	OK
15 minute winter	7	14	7.410	0.535	402.7	2.4313	0.0000	OK
15 minute winter	8	14	7.350	0.577	422.4	2.2144	0.0000	OK
15 minute winter	9	15	7.295	0.602	416.7	1.5331	0.0000	OK
15 minute winter	10	15	7.118	0.456	413.2	1.1594	0.0000	OK
15 minute winter	11	12	7.594	0.094	11.7	0.1755	0.0000	OK
15 minute winter	12	13	7.306	0.283	70.3	1.1373	0.0000	OK
15 minute winter	13	13	7.266	0.354	133.6	1.5359	0.0000	OK
15 minute winter	14	14	7.152	0.372	134.7	0.7560	0.0000	OK
15 minute winter	15	14	7.035	0.577	539.2	1.9987	0.0000	OK
15 minute winter	16	15	6.909	0.528	537.6	1.3430	0.0000	OK
15 minute winter	Headwall	15	6.800	0.441	539.3	0.0000	0.0000	OK

Link Event (Outflow)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute winter	1	1.000	2	114.1	1.077	0.478	8.6820	
15 minute winter	2	1.001	3	164.9	0.957	0.396	11.5472	
15 minute winter	3	1.002	4	166.3	0.936	0.399	11.4338	
15 minute winter	4	1.003	6	265.1	1.006	0.482	26.6365	
15 minute winter	5	2.000	6	83.3	1.656	0.347	1.5162	
15 minute winter	6	1.004	7	355.2	1.263	0.646	7.1095	
15 minute winter	7	1.005	8	394.4	1.088	0.559	19.5399	
15 minute winter	8	1.006	9	416.7	1.026	0.590	16.3961	
15 minute winter	9	1.007	10	413.2	1.145	0.585	5.6417	
15 minute winter	10	1.008	15	415.2	1.521	0.588	1.7432	
15 minute winter	11	3.000	12	11.5	0.799	0.288	0.4312	
15 minute winter	12	3.001	13	66.0	0.520	0.304	7.4884	
15 minute winter	13	3.002	14	128.0	0.818	0.590	10.3133	
15 minute winter	14	3.003	15	132.2	1.011	0.603	1.4824	
15 minute winter	15	1.009	16	537.6	1.418	0.762	14.6503	
15 minute winter	16	1.010	Headwall	539.3	1.659	0.771	3.6420	361.0

Results for 30 year Critical Storm Duration. Lowest mass balance: 99.34%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m ³)	Flood (m ³)	Status
15 minute winter	1	12	8.222	0.347	153.5	3.7309	0.0000	OK
15 minute winter	2	13	7.900	0.375	213.9	2.3128	0.0000	OK
15 minute winter	3	13	7.836	0.437	216.6	0.9042	0.0000	OK
15 minute winter	4	14	7.674	0.476	349.4	3.8583	0.0000	OK
15 minute winter	5	11	8.042	0.237	107.1	1.4733	0.0000	OK
15 minute winter	6	14	7.593	0.595	457.1	2.1857	0.0000	OK
15 minute winter	7	14	7.524	0.649	500.0	2.9491	0.0000	OK
15 minute winter	8	14	7.460	0.687	524.6	2.6399	0.0000	OK
15 minute winter	9	14	7.397	0.704	518.2	1.7925	0.0000	OK
15 minute winter	10	14	7.214	0.552	515.5	1.4042	0.0000	OK
15 minute winter	11	12	7.609	0.109	14.8	0.2038	0.0000	OK
15 minute winter	12	13	7.380	0.357	88.9	1.4369	0.0000	OK
15 minute winter	13	13	7.343	0.431	168.1	1.8697	0.0000	OK
15 minute winter	14	14	7.226	0.446	169.2	0.9069	0.0000	OK
15 minute winter	15	14	7.128	0.670	672.7	2.3223	0.0000	OK
15 minute winter	16	14	6.980	0.599	670.4	1.5233	0.0000	OK
15 minute winter	Headwall	15	6.852	0.493	668.9	0.0000	0.0000	OK

Link Event (Outflow)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
15 minute winter	1	1.000	2	144.8	1.138	0.606	10.3913	
15 minute winter	2	1.001	3	208.0	0.998	0.499	14.1412	
15 minute winter	3	1.002	4	209.6	0.916	0.503	14.6809	
15 minute winter	4	1.003	6	327.3	1.020	0.595	33.4935	
15 minute winter	5	2.000	6	105.3	1.721	0.439	1.9351	
15 minute winter	6	1.004	7	437.2	1.291	0.795	8.9091	
15 minute winter	7	1.005	8	486.4	1.119	0.689	23.6561	
15 minute winter	8	1.006	9	518.2	1.081	0.734	19.3050	
15 minute winter	9	1.007	10	515.5	1.184	0.730	6.7775	
15 minute winter	10	1.008	15	514.0	1.538	0.728	2.2336	
15 minute winter	11	3.000	12	14.5	0.840	0.365	0.5188	
15 minute winter	12	3.001	13	82.7	0.528	0.382	9.4817	
15 minute winter	13	3.002	14	159.8	0.860	0.736	12.4909	
15 minute winter	14	3.003	15	164.3	1.054	0.750	1.9044	
15 minute winter	15	1.009	16	670.4	1.524	0.950	16.9766	
15 minute winter	16	1.010	Headwall	668.9	1.789	0.957	4.1833	455.7

Results for 100 year Critical Storm Duration. Lowest mass balance: 99.34%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m ³)	Flood (m ³)	Status
15 minute winter	1	12	8.298	0.423	198.4	4.5533	0.0000	OK
15 minute winter	2	14	7.999	0.474	278.7	2.9214	0.0000	OK
15 minute winter	3	14	7.975	0.576	273.2	1.1911	0.0000	OK
15 minute winter	4	14	7.898	0.700	446.6	5.6666	0.0000	OK
15 minute winter	5	11	8.095	0.290	138.6	1.8052	0.0000	OK
15 minute winter	6	14	7.784	0.786	564.3	2.8875	0.0000	SURCHARGED
15 minute winter	7	13	7.716	0.841	602.0	3.8194	0.0000	SURCHARGED
15 minute winter	8	13	7.617	0.844	640.9	3.2426	0.0000	SURCHARGED
15 minute winter	9	14	7.521	0.828	637.8	2.1074	0.0000	SURCHARGED
15 minute winter	10	14	7.335	0.673	634.5	1.7116	0.0000	OK
15 minute winter	11	13	7.643	0.143	19.1	0.2680	0.0000	OK
15 minute winter	12	13	7.594	0.571	115.6	2.2981	0.0000	SURCHARGED
15 minute winter	13	13	7.544	0.632	212.5	2.7399	0.0000	SURCHARGED
15 minute winter	14	13	7.358	0.578	212.3	1.1767	0.0000	SURCHARGED
15 minute winter	15	14	7.252	0.794	840.0	2.7499	0.0000	OK
15 minute winter	16	14	7.072	0.691	840.7	1.7587	0.0000	OK
15 minute winter	Headwall	14	6.916	0.557	845.2	0.0000	0.0000	OK

Link Event (Outflow)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
15 minute winter	1	1.000	2	189.3	1.196	0.793	12.9970	
15 minute winter	2	1.001	3	262.1	1.041	0.629	18.6843	
15 minute winter	3	1.002	4	251.4	0.912	0.603	21.1289	
15 minute winter	4	1.003	6	393.9	1.022	0.716	43.3879	
15 minute winter	5	2.000	6	138.0	1.768	0.574	2.8498	
15 minute winter	6	1.004	7	522.3	1.312	0.950	10.6487	
15 minute winter	7	1.005	8	587.1	1.150	0.832	27.2836	
15 minute winter	8	1.006	9	637.8	1.197	0.904	21.4500	
15 minute winter	9	1.007	10	634.5	1.251	0.899	7.8340	
15 minute winter	10	1.008	15	637.4	1.564	0.903	2.8166	
15 minute winter	11	3.000	12	20.3	0.862	0.511	0.9977	
15 minute winter	12	3.001	13	102.1	0.536	0.471	11.8345	
15 minute winter	13	3.002	14	201.3	0.932	0.928	14.0326	
15 minute winter	14	3.003	15	211.6	1.087	0.966	2.2689	
15 minute winter	15	1.009	16	840.7	1.663	1.191	19.3969	
15 minute winter	16	1.010	Headwall	845.2	1.954	1.209	4.8197	587.0

Results for 100 year +40% CC Critical Storm Duration. Lowest mass balance: 99.34%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	1	14	9.441	1.566	277.8	16.8561	0.0000	FLOOD RISK
15 minute winter	2	14	9.178	1.653	393.9	10.1940	0.0000	SURCHARGED
15 minute winter	3	14	9.090	1.691	332.6	3.4988	0.0000	SURCHARGED
15 minute winter	4	13	8.900	1.702	556.7	13.7841	0.0000	SURCHARGED
15 minute winter	5	14	9.082	1.277	194.0	7.9476	0.0000	SURCHARGED
15 minute winter	6	14	8.659	1.661	762.3	6.1010	0.0000	SURCHARGED
15 minute winter	7	14	8.492	1.617	865.9	7.3496	0.0000	SURCHARGED
15 minute winter	8	14	8.279	1.506	930.9	5.7852	0.0000	SURCHARGED
15 minute winter	9	14	8.068	1.375	934.7	3.4999	0.0000	SURCHARGED
15 minute winter	10	14	7.733	1.071	937.0	2.7250	0.0000	SURCHARGED
15 minute winter	11	13	8.429	0.929	26.8	1.7374	0.0000	SURCHARGED
15 minute winter	12	13	8.320	1.297	154.8	5.2181	0.0000	SURCHARGED
15 minute winter	13	13	8.216	1.304	295.4	5.6575	0.0000	SURCHARGED
15 minute winter	14	13	7.838	1.058	303.5	2.1540	0.0000	SURCHARGED
15 minute winter	15	14	7.632	1.174	1217.7	4.0679	0.0000	SURCHARGED
15 minute winter	16	14	7.283	0.902	1220.2	2.2954	0.0000	SURCHARGED
15 minute winter	Headwall	14	7.025	0.666	1221.3	0.0000	0.0000	OK

Link Event (Outflow)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute winter	1	1.000	2	264.8	1.236	1.109	17.6045	
15 minute winter	2	1.001	3	322.2	1.104	0.773	22.5392	
15 minute winter	3	1.002	4	343.7	0.963	0.824	22.5392	
15 minute winter	4	1.003	6	557.4	1.267	1.014	44.0152	
15 minute winter	5	2.000	6	173.7	1.796	0.723	3.3144	
15 minute winter	6	1.004	7	765.9	1.740	1.393	10.6487	
15 minute winter	7	1.005	8	866.8	1.626	1.228	27.2836	
15 minute winter	8	1.006	9	934.7	1.753	1.324	21.4559	
15 minute winter	9	1.007	10	937.0	1.758	1.327	8.3681	
15 minute winter	10	1.008	15	939.0	1.761	1.330	3.4019	
30 minute summer	11	3.000	12	25.1	0.864	0.632	1.1942	
15 minute winter	12	3.001	13	144.0	0.667	0.664	11.8345	
15 minute winter	13	3.002	14	286.5	1.326	1.320	14.0326	
15 minute winter	14	3.003	15	300.7	1.392	1.373	2.2966	
15 minute winter	15	1.009	16	1220.2	2.289	1.728	20.6099	
15 minute winter	16	1.010	Headwall	1221.3	2.334	1.747	5.5743	820.9