Design Settings

Rainfall Methodology	FEH-13	Maximum Time of Concentration (mins)	30.00	Preferred Cover Depth (m)	0.500
Return Period (years)	100	Maximum Rainfall (mm/hr)	50.0	Include Intermediate Ground	✓
Additional Flow (%)	0	Minimum Velocity (m/s)	1.00	Enforce best practice design rules	x
CV	0.750	Connection Type	Level Soffits		
Time of Entry (mins)	5.00	Minimum Backdrop Height (m)	0.200		

Nodes

	Name	Area (ha)	T of E (mins)	Cover Level (m)	Diameter (mm)	Depth (m)
✓	1	0.005	5.00	5.400	150	0.550
✓	2	0.004	5.00	5.400	450	0.650
✓	3	0.004	5.00	4.400	450	0.650
✓	4			4.050	450	0.425
✓	5 dummy			4.130	450	0.230
✓	6 permeable paving	0.019	5.00	4.050		0.420
✓	7	0.001	5.00	5.400	150	0.550
✓	8	0.001	5.00	5.530	150	0.680
✓	9	0.004	5.00	5.000	150	0.785
✓	10		5.00	4.050	450	0.400

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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	25.564	0.600	4.850	4.750	0.100	255.6	100	5.89	50.0
✓	1.001	2	3	7.486	0.600	4.750	3.750	1.000	7.5	100	5.94	50.0
?	1.002	3	4	5.734	0.600	3.750	3.625	0.125	45.9	100	6.02	50.0
?	1.003	4	5 dummy	1.557	0.600	3.625	3.900	-0.275	-5.7	100	6.05	50.0
?	6.000	6 permeable paving	4	5.608	0.600	3.630	3.625	0.005	1121.7	150	5.32	50.0
✓	3.000	9	3	25.782	0.600	4.215	3.750	0.465	55.4	100	5.41	50.0
?	4.000	8	3	4.813	0.600	4.850	3.750	1.100	4.4	100	5.02	50.0
?	2.000	7	2	3.779	0.600	4.850	4.750	0.100	37.8	100	5.05	50.0
?	5.000	10	4	8.221	0.600	3.650	3.625	0.025	328.8	100	5.33	50.0

Name	US Node	DS Node	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	2	0.476	3.7	0.6	0.450	0.550	0.005	0.0	28	0.352
1.001	2	3	2.843	22.3	1.2	0.550	0.550	0.009	0.0	16	1.521
1.002	3	4	1.141	9.0	2.5	0.550	0.325	0.018	0.0	36	0.980
1.003	4	5 dummy	1.000	7.9	5.0	0.325	0.130	0.037	0.0	100	0.000
6.000	6 permeable paving	4	0.292	5.2	2.5	0.270	0.275	0.019	0.0	74	0.291
3.000	9	3	1.037	8.1	0.6	0.685	0.550	0.004	0.0	18	0.601
4.000	8	3	3.722	29.2	0.2	0.580	0.550	0.001	0.0	6	1.016
2.000	7	2	1.258	9.9	0.1	0.450	0.550	0.001	0.0	7	0.370
5.000	10	4	0.419	3.3	0.0	0.300	0.325	0.000	0.0	0	0.000

Simulation Settings

Rainfall Methodology	FEH-13	Analysis Speed	Normal	Additional Storage (m³/ha)	0.0
Summer CV	0.750	Skip Steady State	x	Check Discharge Rate(s)	x
Winter CV	0.840	Drain Down Time (mins)	1440	Check Discharge Volume	x

Storm Durations

15	30	60	120	180	240	360	480	600	720	960	1440

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Return Period (years)	Climate Change (CC %)	Additional Area (A %)	Additional Flow (Q %)	Return Period (years)	Climate Change (CC %)	Additional Area (A %)	Additional Flow (Q %)
2	45	0	0	100	45	0	0
30	45	0	0				

Node 6 permeable paving Carpark Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Porosity	0.30	Width (m)	11.000	Depth (m)	0.300
Side Inf Coefficient (m/hr)	0.00000	Invert Level (m)	3.630	Length (m)	11.000	Inf Depth (m)	
Safety Factor	2.0	Time to half empty (mins)		Slope (1:X)	100.0		

Rainfall

Event	Peak Intensity (mm/hr)	Average Intensity (mm/hr)	Event	Peak Intensity (mm/hr)	Average Intensity (mm/hr)
2 year +45% CC 15 minute summer	158.471	44.842	2 year +45% CC 960 minute winter	8.172	3.248
2 year +45% CC 15 minute winter	111.208	44.842	2 year +45% CC 1440 minute summer	8.888	2.382
2 year +45% CC 30 minute summer	103.832	29.381	2 year +45% CC 1440 minute winter	5.973	2.382
2 year +45% CC 30 minute winter	72.865	29.381	30 year +45% CC 15 minute summer	434.721	123.011
2 year +45% CC 60 minute summer	70.403	18.605	30 year +45% CC 15 minute winter	305.068	123.011
2 year +45% CC 60 minute winter	46.774	18.605	30 year +45% CC 30 minute summer	288.883	81.744
2 year +45% CC 120 minute summer	50.469	13.337	30 year +45% CC 30 minute winter	202.725	81.744
2 year +45% CC 120 minute winter	33.530	13.337	30 year +45% CC 60 minute summer	196.654	51.970
2 year +45% CC 180 minute summer	41.132	10.585	30 year +45% CC 60 minute winter	130.652	51.970
2 year +45% CC 180 minute winter	26.737	10.585	30 year +45% CC 120 minute summer	121.840	32.199
2 year +45% CC 240 minute summer	33.508	8.855	30 year +45% CC 120 minute winter	80.947	32.199
2 year +45% CC 240 minute winter	22.262	8.855	30 year +45% CC 180 minute summer	93.326	24.016
2 year +45% CC 360 minute summer	26.225	6.749	30 year +45% CC 180 minute winter	60.664	24.016
2 year +45% CC 360 minute winter	17.047	6.749	30 year +45% CC 240 minute summer	73.306	19.373
2 year +45% CC 480 minute summer	20.761	5.486	30 year +45% CC 240 minute winter	48.703	19.373
2 year +45% CC 480 minute winter	13.793	5.486	30 year +45% CC 360 minute summer	54.997	14.153
2 year +45% CC 600 minute summer	16.996	4.649	30 year +45% CC 360 minute winter	35.750	14.153
2 year +45% CC 600 minute winter	11.612	4.649	30 year +45% CC 480 minute summer	42.617	11.262
2 year +45% CC 720 minute summer	15.111	4.050	30 year +45% CC 480 minute winter	28.314	11.262
2 year +45% CC 720 minute winter	10.155	4.050	30 year +45% CC 600 minute summer	34.399	9.409
2 year +45% CC 960 minute summer	12.336	3.248	30 year +45% CC 600 minute winter	23.503	9.409

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Rainfall

Event	Peak Intensity (mm/hr)	Average Intensity (mm/hr)	Event	Peak Intensity (mm/hr)	Average Intensity (mm/hr)
30 year +45% CC 720 minute summer	30.265	8.111	100 year +45% CC 180 minute winter	76.144	30.144
30 year +45% CC 720 minute winter	20.340	8.111	100 year +45% CC 240 minute summer	91.828	24.267
30 year +45% CC 960 minute summer	24.312	6.402	100 year +45% CC 240 minute winter	61.008	24.267
30 year +45% CC 960 minute winter	16.104	6.402	100 year +45% CC 360 minute summer	69.065	17.773
30 year +45% CC 1440 minute summer	17.091	4.581	100 year +45% CC 360 minute winter	44.894	17.773
30 year +45% CC 1440 minute winter	11.487	4.581	100 year +45% CC 480 minute summer	53.668	14.183
100 year +45% CC 15 minute summer	553.472	156.613	100 year +45% CC 480 minute winter	35.656	14.183
100 year +45% CC 15 minute winter	388.401	156.613	100 year +45% CC 600 minute summer	43.431	11.879
100 year +45% CC 30 minute summer	370.862	104.941	100 year +45% CC 600 minute winter	29.675	11.879
100 year +45% CC 30 minute winter	260.254	104.941	100 year +45% CC 720 minute summer	38.299	10.264
100 year +45% CC 60 minute summer	254.441	67.241	100 year +45% CC 720 minute winter	25.739	10.264
100 year +45% CC 60 minute winter	169.045	67.241	100 year +45% CC 960 minute summer	30.889	8.134
100 year +45% CC 120 minute summer	154.069	40.716	100 year +45% CC 960 minute winter	20.461	8.134
100 year +45% CC 120 minute winter	102.360	40.716	100 year +45% CC 1440 minute summer	21.782	5.838
100 year +45% CC 180 minute summer	117.140	30.144	100 year +45% CC 1440 minute winter	14.639	5.838

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Results for 2 year +45% CC Critical Storm Duration. Lowest mass balance: 91.70%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	1	11	4.886	0.036	1.0	0.0007	0.0000	OK
15 minute winter	2	11	4.769	0.019	1.8	0.0030	0.0000	OK
480 minute winter	3	328	3.907	0.157	0.5	0.0249	0.0000	SURCHARGED
600 minute winter	4	390	3.905	0.280	0.6	0.0446	0.0000	FLOOD RISK
600 minute winter	5 dummy	390	3.913	0.013	0.9	0.0000	0.0000	OK
960 minute winter	6 permeable paving	570	3.906	0.276	0.7	8.0299	0.0000	FLOOD RISK
60 minute winter	7	37	4.857	0.007	0.1	0.0001	0.0000	OK
15 minute summer	8	10	4.857	0.007	0.3	0.0001	0.0000	OK
15 minute winter	9	10	4.237	0.022	0.9	0.0004	0.0000	OK
960 minute winter	10	570	3.906	0.256	0.0	0.0408	0.0000	FLOOD RISK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute winter	1	1.000	2	0.9	0.531	0.250	0.0460	
15 minute winter	2	1.001	3	1.8	0.842	0.079	0.0164	
480 minute winter	3	1.002	4	0.4	0.101	0.047	0.0449	
600 minute winter	4	1.003	5 dummy	0.9	0.213	0.119	0.0061	4.2
960 minute winter	6 permeable paving	6.000	4	-0.3	0.114	-0.064	0.0987	
60 minute winter	7	2.000	2	0.1	0.242	0.010	0.0018	
15 minute summer	8	4.000	3	0.3	0.208	0.010	0.0085	
15 minute winter	9	3.000	3	0.9	0.386	0.105	0.0592	
960 minute winter	10	5.000	4	0.1	-0.018	0.015	0.0643	

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Results for 30 year +45% CC Critical Storm Duration. Lowest mass balance: 91.70%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	1	11	4.913	0.063	2.6	0.0011	0.0000	OK
15 minute winter	2	10	4.782	0.032	4.9	0.0051	0.0000	OK
60 minute winter	3	40	4.058	0.308	5.5	0.0489	0.0000	SURCHARGED
60 minute winter	4	40	4.027	0.402	8.0	0.0639	0.0000	FLOOD RISK
60 minute winter	5 dummy	40	3.937	0.037	7.6	0.0000	0.0000	OK
60 minute winter	6 permeable paving	40	4.030	0.400	10.0	8.9172	0.0000	FLOOD RISK
15 minute winter	7	11	4.862	0.012	0.3	0.0002	0.0000	OK
15 minute winter	8	10	4.861	0.011	0.8	0.0002	0.0000	OK
15 minute winter	9	10	4.253	0.038	2.5	0.0007	0.0000	OK
60 minute winter	10	39	4.028	0.378	1.5	0.0601	0.0000	FLOOD RISK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute winter	1	1.000	2	2.5	0.694	0.679	0.0939	
15 minute winter	2	1.001	3	4.9	0.946	0.218	0.0373	
60 minute winter	3	1.002	4	4.9	0.632	0.552	0.0449	
60 minute winter	4	1.003	5 dummy	7.6	1.223	0.962	0.0082	7.3
60 minute winter	6 permeable paving	6.000	4	4.9	0.279	0.952	0.0987	
15 minute winter	7	2.000	2	0.3	0.254	0.030	0.0050	
15 minute winter	8	4.000	3	0.8	0.287	0.027	0.0200	
15 minute winter	9	3.000	3	2.4	0.454	0.299	0.1355	
60 minute winter	10	5.000	4	-1.5	-0.194	-0.462	0.0643	

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Results for 100 year +45% CC Critical Storm Duration. Lowest mass balance: 91.70%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	1	10	4.923	0.073	3.3	0.0013	0.0000	OK
15 minute winter	2	10	4.786	0.036	6.3	0.0057	0.0000	OK
30 minute winter	3	21	4.169	0.419	10.4	0.0666	0.0000	FLOOD RISK
30 minute winter	4	21	4.050	0.425	15.4	0.0676	0.0120	FLOOD
30 minute winter	5 dummy	21	3.940	0.040	8.7	0.0000	0.0000	OK
60 minute winter	6 permeable paving	34	4.050	0.420	12.3	8.9172	1.3506	FLOOD
30 minute summer	7	18	4.864	0.014	0.4	0.0002	0.0000	OK
15 minute winter	8	10	4.863	0.013	1.0	0.0002	0.0000	OK
15 minute winter	9	10	4.258	0.043	3.1	0.0008	0.0000	OK
60 minute summer	10	35	4.050	0.400	0.9	0.0636	0.0639	FLOOD

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute winter	1	1.000	2	3.2	0.729	0.851	0.1112	
15 minute winter	2	1.001	3	6.2	1.010	0.277	0.0388	
30 minute winter	3	1.002	4	9.2	1.175	1.026	0.0449	
30 minute winter	4	1.003	5 dummy	8.7	1.378	1.106	0.0084	6.7
60 minute winter	6 permeable paving	6.000	4	7.0	0.397	1.354	0.0987	
30 minute summer	7	2.000	2	0.4	0.285	0.040	0.0057	
15 minute winter	8	4.000	3	1.0	0.224	0.034	0.0202	
15 minute winter	9	3.000	3	3.1	0.479	0.377	0.1418	
60 minute summer	10	5.000	4	-0.9	-0.119	-0.271	0.0643	

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Results for 2 year +45% CC 15 minute summer. 1455 minute analysis at 1 minute timestep. Mass balance: 92.98%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	1	11	4.885	0.035	0.9	0.0006	0.0000	OK
15 minute summer	2	11	4.769	0.019	1.7	0.0030	0.0000	OK
15 minute summer	3	11	3.794	0.044	3.5	0.0069	0.0000	OK
15 minute summer	4	1126	3.758	0.133	3.5	0.0212	0.0000	FLOOD RISK
15 minute summer	5 dummy	1	3.900	0.000	0.0	0.0000	0.0000	OK
15 minute summer	6 permeable paving	828	3.758	0.128	6.4	2.6582	0.0000	OK
15 minute summer	7	12	4.857	0.007	0.1	0.0001	0.0000	OK
15 minute summer	8	10	4.857	0.007	0.3	0.0001	0.0000	OK
15 minute summer	9	10	4.237	0.022	0.9	0.0004	0.0000	OK
15 minute summer	10	628	3.759	0.109	0.5	0.0173	0.0000	FLOOD RISK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	1	1.000	2	0.9	0.521	0.238	0.0446	
15 minute summer	2	1.001	3	1.7	0.812	0.075	0.0160	
15 minute summer	3	1.002	4	3.5	0.622	0.393	0.0318	
15 minute summer	4	1.003	5 dummy	0.0	0.000	0.000	0.0061	0.0
15 minute summer	6 permeable paving	6.000	4	-2.9	0.276	-0.568	0.0913	
15 minute summer	7	2.000	2	0.1	0.200	0.010	0.0024	
15 minute summer	8	4.000	3	0.3	0.208	0.010	0.0085	
15 minute summer	9	3.000	3	0.9	0.391	0.105	0.0583	
15 minute summer	10	5.000	4	-0.5	-0.157	-0.152	0.0643	

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Results for 2 year +45% CC 15 minute winter. 1455 minute analysis at 1 minute timestep. Mass balance: 93.05%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	1	11	4.886	0.036	1.0	0.0007	0.0000	OK
15 minute winter	2	11	4.769	0.019	1.8	0.0030	0.0000	OK
15 minute winter	3	11	3.794	0.044	3.6	0.0070	0.0000	OK
15 minute winter	4	439	3.767	0.142	3.6	0.0226	0.0000	FLOOD RISK
15 minute winter	5 dummy	1	3.900	0.000	0.0	0.0000	0.0000	OK
15 minute winter	6 permeable paving	409	3.767	0.137	6.7	2.9856	0.0000	OK
15 minute winter	7	13	4.857	0.007	0.1	0.0001	0.0000	OK
15 minute winter	8	10	4.857	0.007	0.3	0.0001	0.0000	OK
15 minute winter	9	10	4.237	0.022	0.9	0.0004	0.0000	OK
15 minute winter	10	915	3.768	0.118	0.5	0.0187	0.0000	FLOOD RISK

Link Event	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	0.9	0.531	0.250	0.0460	
15 minute winter	2	1.001	3	1.8	0.842	0.079	0.0164	
15 minute winter	3	1.002	4	3.6	0.607	0.405	0.0320	
15 minute winter	4	1.003	5 dummy	0.0	0.000	0.000	0.0061	0.0
15 minute winter	6 permeable paving	6.000	4	-3.1	-0.252	-0.602	0.0957	
15 minute winter	7	2.000	2	0.1	0.224	0.010	0.0024	
15 minute winter	8	4.000	3	0.3	0.201	0.010	0.0087	
15 minute winter	9	3.000	3	0.9	0.386	0.105	0.0592	
15 minute winter	10	5.000	4	-0.5	-0.159	-0.161	0.0643	

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Results for 2 year +45% CC 30 minute summer. 1470 minute analysis at 1 minute timestep. Mass balance: 93.18%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
30 minute summer	1	18	4.883	0.033	0.8	0.0006	0.0000	OK
30 minute summer	2	18	4.768	0.018	1.6	0.0029	0.0000	OK
30 minute summer	3	18	3.791	0.041	3.2	0.0065	0.0000	OK
30 minute summer	4	602	3.781	0.156	3.1	0.0247	0.0000	FLOOD RISK
30 minute summer	5 dummy	1	3.900	0.000	0.0	0.0000	0.0000	OK
30 minute summer	6 permeable paving	720	3.780	0.150	5.9	3.4700	0.0000	FLOOD RISK
30 minute summer	7	20	4.857	0.007	0.1	0.0001	0.0000	OK
30 minute summer	8	19	4.856	0.006	0.2	0.0001	0.0000	OK
30 minute summer	9	18	4.236	0.021	0.8	0.0004	0.0000	OK
30 minute summer	10	1166	3.781	0.131	0.3	0.0208	0.0000	FLOOD RISK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
30 minute summer	1	1.000	2	0.8	0.494	0.208	0.0410	
30 minute summer	2	1.001	3	1.6	0.817	0.070	0.0148	
30 minute summer	3	1.002	4	3.1	0.515	0.348	0.0310	
30 minute summer	4	1.003	5 dummy	0.0	0.000	0.000	0.0061	0.0
30 minute summer	6 permeable paving	6.000	4	-2.7	-0.206	-0.524	0.0987	
30 minute summer	7	2.000	2	0.1	0.217	0.010	0.0023	
30 minute summer	8	4.000	3	0.2	0.184	0.007	0.0077	
30 minute summer	9	3.000	3	0.8	0.386	0.098	0.0542	
30 minute summer	10	5.000	4	-0.3	-0.082	-0.081	0.0643	

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Results for 2 year +45% CC 30 minute winter. 1470 minute analysis at 1 minute timestep. Mass balance: 93.25%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
30 minute winter	1	19	4.881	0.031	0.7	0.0006	0.0000	OK
30 minute winter	2	19	4.767	0.017	1.4	0.0027	0.0000	OK
30 minute winter	3	1174	3.792	0.042	2.9	0.0067	0.0000	OK
30 minute winter	4	277	3.792	0.167	2.9	0.0266	0.0000	FLOOD RISK
30 minute winter	5 dummy	1	3.900	0.000	0.0	0.0000	0.0000	OK
30 minute winter	6 permeable paving	647	3.792	0.162	5.4	3.8832	0.0000	FLOOD RISK
30 minute winter	7	21	4.857	0.007	0.1	0.0001	0.0000	OK
30 minute winter	8	18	4.856	0.006	0.2	0.0001	0.0000	OK
30 minute winter	9	19	4.235	0.020	0.7	0.0004	0.0000	OK
30 minute winter	10	1164	3.792	0.142	0.2	0.0226	0.0000	FLOOD RISK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
30 minute winter	1	1.000	2	0.7	0.481	0.187	0.0379	
30 minute winter	2	1.001	3	1.4	0.786	0.063	0.0139	
30 minute winter	3	1.002	4	2.9	0.472	0.321	0.0314	
30 minute winter	4	1.003	5 dummy	0.0	0.000	0.000	0.0061	0.0
30 minute winter	6 permeable paving	6.000	4	-2.5	0.201	-0.482	0.0987	
30 minute winter	7	2.000	2	0.1	0.219	0.010	0.0021	
30 minute winter	8	4.000	3	0.2	0.190	0.007	0.0076	
30 minute winter	9	3.000	3	0.7	0.369	0.086	0.0506	
30 minute winter	10	5.000	4	-0.2	-0.092	-0.069	0.0643	

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Results for 2 year +45% CC 60 minute summer. 1500 minute analysis at 1 minute timestep. Mass balance: 93.34%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute summer	1	34	4.879	0.029	0.6	0.0005	0.0000	OK
60 minute summer	2	34	4.766	0.016	1.2	0.0025	0.0000	OK
60 minute summer	3	1461	3.810	0.060	2.5	0.0095	0.0000	OK
60 minute summer	4	1459	3.809	0.184	2.5	0.0293	0.0000	FLOOD RISK
60 minute summer	5 dummy	1	3.900	0.000	0.0	0.0000	0.0000	OK
60 minute summer	6 permeable paving	1028	3.809	0.179	4.7	4.5135	0.0000	FLOOD RISK
60 minute summer	7	36	4.857	0.007	0.1	0.0001	0.0000	OK
60 minute summer	8	34	4.856	0.006	0.2	0.0001	0.0000	OK
60 minute summer	9	34	4.233	0.018	0.6	0.0003	0.0000	OK
60 minute summer	10	1046	3.810	0.160	0.2	0.0254	0.0000	FLOOD RISK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
60 minute summer	1	1.000	2	0.6	0.459	0.160	0.0340	
60 minute summer	2	1.001	3	1.2	0.767	0.054	0.0182	
60 minute summer	3	1.002	4	2.5	0.404	0.276	0.0364	
60 minute summer	4	1.003	5 dummy	0.0	0.000	0.000	0.0061	0.0
60 minute summer	6 permeable paving	6.000	4	-2.2	0.237	-0.418	0.0987	
60 minute summer	7	2.000	2	0.1	0.235	0.010	0.0020	
60 minute summer	8	4.000	3	0.2	0.187	0.007	0.0117	
60 minute summer	9	3.000	3	0.6	0.439	0.074	0.0634	
60 minute summer	10	5.000	4	-0.2	-0.068	-0.049	0.0643	

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Results for 2 year +45% CC 60 minute winter. 1500 minute analysis at 1 minute timestep. Mass balance: 93.38%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute winter	1	35	4.876	0.026	0.5	0.0005	0.0000	OK
60 minute winter	2	35	4.764	0.014	1.0	0.0023	0.0000	OK
60 minute winter	3	1185	3.824	0.074	2.0	0.0117	0.0000	OK
60 minute winter	4	1226	3.824	0.199	2.0	0.0316	0.0000	FLOOD RISK
60 minute winter	5 dummy	1	3.900	0.000	0.0	0.0000	0.0000	OK
60 minute winter	6 permeable paving	1186	3.823	0.193	3.7	5.0283	0.0000	FLOOD RISK
60 minute winter	7	37	4.857	0.007	0.1	0.0001	0.0000	OK
60 minute winter	8	26	4.854	0.004	0.1	0.0001	0.0000	OK
60 minute winter	9	34	4.232	0.017	0.5	0.0003	0.0000	OK
60 minute winter	10	722	3.824	0.174	0.1	0.0276	0.0000	FLOOD RISK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
60 minute winter	1	1.000	2	0.5	0.436	0.134	0.0300	
60 minute winter	2	1.001	3	1.0	0.740	0.045	0.0232	
60 minute winter	3	1.002	4	2.0	0.344	0.223	0.0402	
60 minute winter	4	1.003	5 dummy	0.0	0.000	0.000	0.0061	0.0
60 minute winter	6 permeable paving	6.000	4	-1.7	0.184	-0.338	0.0987	
60 minute winter	7	2.000	2	0.1	0.242	0.010	0.0018	
60 minute winter	8	4.000	3	0.1	0.194	0.003	0.0149	
60 minute winter	9	3.000	3	0.5	0.358	0.061	0.0810	
60 minute winter	10	5.000	4	-0.1	-0.074	-0.038	0.0643	

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Results for 2 year +45% CC 120 minute summer. 1560 minute analysis at 2 minute timestep. Mass balance: 93.26%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
120 minute summer	1	64	4.876	0.026	0.5	0.0005	0.0000	OK
120 minute summer	2	64	4.764	0.014	1.0	0.0023	0.0000	OK
120 minute summer	3	1012	3.855	0.105	1.9	0.0168	0.0000	SURCHARGED
120 minute summer	4	884	3.855	0.230	1.9	0.0366	0.0000	FLOOD RISK
120 minute summer	5 dummy	2	3.900	0.000	0.0	0.0000	0.0000	OK
120 minute summer	6 permeable paving	1180	3.855	0.225	3.6	6.1728	0.0000	FLOOD RISK
120 minute summer	7	66	4.857	0.007	0.1	0.0001	0.0000	OK
120 minute summer	8	56	4.854	0.004	0.1	0.0001	0.0000	OK
120 minute summer	9	64	4.230	0.015	0.4	0.0003	0.0000	OK
120 minute summer	10	1184	3.856	0.206	0.1	0.0327	0.0000	FLOOD RISK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
120 minute summer	1	1.000	2	0.5	0.434	0.133	0.0299	
120 minute summer	2	1.001	3	1.0	0.740	0.045	0.0297	
120 minute summer	3	1.002	4	1.9	0.320	0.211	0.0449	
120 minute summer	4	1.003	5 dummy	0.0	0.000	0.000	0.0061	0.0
120 minute summer	6 permeable paving	6.000	4	-1.7	0.150	-0.322	0.0987	
120 minute summer	7	2.000	2	0.1	0.235	0.010	0.0018	
120 minute summer	8	4.000	3	0.1	0.174	0.003	0.0188	
120 minute summer	9	3.000	3	0.4	0.385	0.049	0.1039	
120 minute summer	10	5.000	4	-0.1	-0.033	-0.029	0.0643	

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Results for 2 year +45% CC 120 minute winter. 1560 minute analysis at 2 minute timestep. Mass balance: 92.97%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
120 minute winter	1	66	4.874	0.024	0.4	0.0004	0.0000	OK
120 minute winter	2	66	4.762	0.012	0.7	0.0019	0.0000	OK
120 minute winter	3	1412	3.885	0.135	1.4	0.0214	0.0000	SURCHARGED
120 minute winter	4	840	3.884	0.259	1.3	0.0412	0.0000	FLOOD RISK
120 minute winter	5 dummy	2	3.900	0.000	0.0	0.0000	0.0000	OK
120 minute winter	6 permeable paving	1010	3.884	0.254	2.6	7.2382	0.0000	FLOOD RISK
120 minute winter	7	2	4.850	0.000	0.0	0.0000	0.0000	OK
120 minute winter	8	50	4.854	0.004	0.1	0.0001	0.0000	OK
120 minute winter	9	62	4.228	0.013	0.3	0.0002	0.0000	OK
120 minute winter	10	1250	3.885	0.235	0.1	0.0373	0.0000	FLOOD RISK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
120 minute winter	1	1.000	2	0.4	0.418	0.107	0.0252	
120 minute winter	2	1.001	3	0.7	0.641	0.031	0.0303	
120 minute winter	3	1.002	4	1.3	0.234	0.148	0.0449	
120 minute winter	4	1.003	5 dummy	0.0	0.000	0.000	0.0061	0.0
120 minute winter	6 permeable paving	6.000	4	-1.2	0.148	-0.225	0.0987	
120 minute winter	7	2.000	2	0.0	0.000	0.000	0.0010	
120 minute winter	8	4.000	3	0.1	0.179	0.003	0.0189	
120 minute winter	9	3.000	3	0.3	0.384	0.037	0.1064	
120 minute winter	10	5.000	4	-0.1	-0.060	-0.024	0.0643	

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Results for 2 year +45% CC 180 minute summer. 1620 minute analysis at 4 minute timestep. Mass balance: 93.03%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
180 minute summer	1	96	4.874	0.024	0.4	0.0004	0.0000	OK
180 minute summer	2	96	4.762	0.012	0.7	0.0019	0.0000	OK
180 minute summer	3	1116	3.880	0.130	1.5	0.0207	0.0000	SURCHARGED
180 minute summer	4	1244	3.880	0.255	1.4	0.0405	0.0000	FLOOD RISK
180 minute summer	5 dummy	4	3.900	0.000	0.0	0.0000	0.0000	OK
180 minute summer	6 permeable paving	1352	3.880	0.250	2.7	7.0759	0.0000	FLOOD RISK
180 minute summer	7	4	4.850	0.000	0.0	0.0000	0.0000	OK
180 minute summer	8	88	4.854	0.004	0.1	0.0001	0.0000	OK
180 minute summer	9	96	4.230	0.015	0.4	0.0003	0.0000	OK
180 minute summer	10	1508	3.880	0.230	0.1	0.0366	0.0000	FLOOD RISK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
180 minute summer	1	1.000	2	0.4	0.418	0.107	0.0252	
180 minute summer	2	1.001	3	0.7	0.631	0.031	0.0301	
180 minute summer	3	1.002	4	1.4	0.248	0.158	0.0449	
180 minute summer	4	1.003	5 dummy	0.0	0.000	0.000	0.0061	0.0
180 minute summer	6 permeable paving	6.000	4	-1.2	0.126	-0.240	0.0987	
180 minute summer	7	2.000	2	0.0	0.000	0.000	0.0010	
180 minute summer	8	4.000	3	0.1	0.165	0.003	0.0188	
180 minute summer	9	3.000	3	0.4	0.325	0.049	0.1045	
180 minute summer	10	5.000	4	-0.1	-0.033	-0.024	0.0643	

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Results for 2 year +45% CC 180 minute winter. 1620 minute analysis at 4 minute timestep. Mass balance: 94.12%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
180 minute winter	1	100	4.871	0.021	0.3	0.0004	0.0000	OK
180 minute winter	2	100	4.760	0.010	0.5	0.0017	0.0000	OK
180 minute winter	3	172	3.902	0.152	1.1	0.0242	0.0000	SURCHARGED
180 minute winter	4	168	3.902	0.277	1.1	0.0440	0.0000	FLOOD RISK
180 minute winter	5 dummy	168	3.908	0.008	0.3	0.0000	0.0000	OK
180 minute winter	6 permeable paving	172	3.902	0.272	2.0	7.8817	0.0000	FLOOD RISK
180 minute winter	7	4	4.850	0.000	0.0	0.0000	0.0000	OK
180 minute winter	8	80	4.854	0.004	0.1	0.0001	0.0000	OK
180 minute winter	9	96	4.228	0.013	0.3	0.0002	0.0000	OK
180 minute winter	10	176	3.902	0.252	0.1	0.0401	0.0000	FLOOD RISK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
180 minute winter	1	1.000	2	0.3	0.387	0.080	0.0205	
180 minute winter	2	1.001	3	0.5	0.647	0.022	0.0304	
180 minute winter	3	1.002	4	1.1	0.191	0.118	0.0449	
180 minute winter	4	1.003	5 dummy	0.3	0.066	0.037	0.0061	0.4
180 minute winter	6 permeable paving	6.000	4	-0.9	0.120	-0.182	0.0987	
180 minute winter	7	2.000	2	0.0	0.000	0.000	0.0008	
180 minute winter	8	4.000	3	0.1	0.184	0.003	0.0191	
180 minute winter	9	3.000	3	0.3	0.294	0.037	0.1068	
180 minute winter	10	5.000	4	-0.1	-0.030	-0.020	0.0643	

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Results for 2 year +45% CC 240 minute summer. 1680 minute analysis at 4 minute timestep. Mass balance: 92.92%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
240 minute summer	1	132	4.871	0.021	0.3	0.0004	0.0000	OK
240 minute summer	2	124	4.761	0.011	0.6	0.0018	0.0000	OK
240 minute summer	3	1532	3.894	0.144	1.2	0.0229	0.0000	SURCHARGED
240 minute summer	4	868	3.894	0.269	1.1	0.0427	0.0000	FLOOD RISK
240 minute summer	5 dummy	4	3.900	0.000	0.0	0.0000	0.0000	OK
240 minute summer	6 permeable paving	1528	3.893	0.263	2.2	7.5735	0.0000	FLOOD RISK
240 minute summer	7	4	4.850	0.000	0.0	0.0000	0.0000	OK
240 minute summer	8	116	4.854	0.004	0.1	0.0001	0.0000	OK
240 minute summer	9	128	4.228	0.013	0.3	0.0002	0.0000	OK
240 minute summer	10	532	3.894	0.244	0.1	0.0388	0.0000	FLOOD RISK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
240 minute summer	1	1.000	2	0.3	0.387	0.081	0.0210	
240 minute summer	2	1.001	3	0.6	0.572	0.027	0.0302	
240 minute summer	3	1.002	4	1.1	0.193	0.119	0.0449	
240 minute summer	4	1.003	5 dummy	0.0	0.000	0.000	0.0061	0.0
240 minute summer	6 permeable paving	6.000	4	-0.9	0.126	-0.181	0.0987	
240 minute summer	7	2.000	2	0.0	0.000	0.000	0.0009	
240 minute summer	8	4.000	3	0.1	0.171	0.003	0.0188	
240 minute summer	9	3.000	3	0.3	0.294	0.037	0.1050	
240 minute summer	10	5.000	4	-0.1	-0.017	-0.021	0.0643	

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Results for 2 year +45% CC 240 minute winter. 1680 minute analysis at 4 minute timestep. Mass balance: 97.99%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
240 minute winter	1	152	4.867	0.017	0.2	0.0003	0.0000	OK
240 minute winter	2	108	4.759	0.009	0.4	0.0015	0.0000	OK
240 minute winter	3	180	3.905	0.155	0.9	0.0247	0.0000	SURCHARGED
240 minute winter	4	180	3.904	0.279	0.9	0.0444	0.0000	FLOOD RISK
240 minute winter	5 dummy	180	3.912	0.012	0.8	0.0000	0.0000	OK
240 minute winter	6 permeable paving	180	3.905	0.275	1.7	7.9932	0.0000	FLOOD RISK
240 minute winter	7	4	4.850	0.000	0.0	0.0000	0.0000	OK
240 minute winter	8	108	4.854	0.004	0.1	0.0001	0.0000	OK
240 minute winter	9	108	4.226	0.011	0.2	0.0002	0.0000	OK
240 minute winter	10	184	3.905	0.255	0.1	0.0406	0.0000	FLOOD RISK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
240 minute winter	1	1.000	2	0.2	0.348	0.054	0.0159	
240 minute winter	2	1.001	3	0.4	0.554	0.018	0.0307	
240 minute winter	3	1.002	4	0.9	0.163	0.099	0.0449	
240 minute winter	4	1.003	5 dummy	0.8	0.172	0.097	0.0061	1.7
240 minute winter	6 permeable paving	6.000	4	-0.8	0.120	-0.152	0.0987	
240 minute winter	7	2.000	2	0.0	0.000	0.000	0.0007	
240 minute winter	8	4.000	3	0.1	0.185	0.003	0.0191	
240 minute winter	9	3.000	3	0.2	0.447	0.025	0.1068	
240 minute winter	10	5.000	4	-0.1	-0.032	-0.019	0.0643	

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Results for 2 year +45% CC 360 minute summer. 1800 minute analysis at 8 minute timestep. Mass balance: 95.31%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
360 minute summer	1	184	4.870	0.020	0.3	0.0004	0.0000	OK
360 minute summer	2	184	4.760	0.010	0.5	0.0016	0.0000	OK
360 minute summer	3	336	3.901	0.151	1.0	0.0240	0.0000	SURCHARGED
360 minute summer	4	312	3.901	0.276	0.8	0.0439	0.0000	FLOOD RISK
360 minute summer	5 dummy	296	3.906	0.006	0.1	0.0000	0.0000	OK
360 minute summer	6 permeable paving	352	3.901	0.271	1.7	7.8416	0.0000	FLOOD RISK
360 minute summer	7	8	4.850	0.000	0.0	0.0000	0.0000	OK
360 minute summer	8	176	4.854	0.004	0.1	0.0001	0.0000	OK
360 minute summer	9	184	4.226	0.011	0.2	0.0002	0.0000	OK
360 minute summer	10	304	3.901	0.251	0.1	0.0399	0.0000	FLOOD RISK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
360 minute summer	1	1.000	2	0.3	0.380	0.076	0.0198	
360 minute summer	2	1.001	3	0.5	0.463	0.022	0.0302	
360 minute summer	3	1.002	4	0.8	0.133	0.092	0.0449	
360 minute summer	4	1.003	5 dummy	0.1	0.033	0.019	0.0061	0.8
360 minute summer	6 permeable paving	6.000	4	-0.7	0.126	-0.140	0.0987	
360 minute summer	7	2.000	2	0.0	0.000	0.000	0.0008	
360 minute summer	8	4.000	3	0.1	0.199	0.003	0.0189	
360 minute summer	9	3.000	3	0.2	0.275	0.025	0.1048	
360 minute summer	10	5.000	4	-0.1	-0.017	-0.017	0.0643	

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Results for 2 year +45% CC 360 minute winter. 1800 minute analysis at 8 minute timestep. Mass balance: 99.50%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
360 minute winter	1	184	4.867	0.017	0.2	0.0003	0.0000	OK
360 minute winter	2	184	4.758	0.008	0.3	0.0013	0.0000	OK
360 minute winter	3	256	3.906	0.156	0.7	0.0248	0.0000	SURCHARGED
360 minute winter	4	256	3.905	0.280	0.6	0.0445	0.0000	FLOOD RISK
360 minute winter	5 dummy	256	3.913	0.013	0.9	0.0000	0.0000	OK
360 minute winter	6 permeable paving	256	3.906	0.276	1.2	8.0200	0.0000	FLOOD RISK
360 minute winter	7	8	4.850	0.000	0.0	0.0000	0.0000	OK
360 minute winter	8	184	4.854	0.004	0.1	0.0001	0.0000	OK
360 minute winter	9	184	4.226	0.011	0.2	0.0002	0.0000	OK
360 minute winter	10	256	3.906	0.256	0.0	0.0407	0.0000	FLOOD RISK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
360 minute winter	1	1.000	2	0.2	0.348	0.053	0.0153	
360 minute winter	2	1.001	3	0.3	0.539	0.013	0.0304	
360 minute winter	3	1.002	4	0.6	0.120	0.067	0.0449	
360 minute winter	4	1.003	5 dummy	0.9	0.202	0.113	0.0061	2.3
360 minute winter	6 permeable paving	6.000	4	-0.5	0.100	-0.102	0.0987	
360 minute winter	7	2.000	2	0.0	0.000	0.000	0.0006	
360 minute winter	8	4.000	3	0.1	0.065	0.003	0.0188	
360 minute winter	9	3.000	3	0.2	0.371	0.025	0.1048	
360 minute winter	10	5.000	4	0.0	-0.016	0.015	0.0643	

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Results for 2 year +45% CC 480 minute summer. 1920 minute analysis at 8 minute timestep. Mass balance: 98.16%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
480 minute summer	1	264	4.867	0.017	0.2	0.0003	0.0000	OK
480 minute summer	2	248	4.759	0.009	0.4	0.0015	0.0000	OK
480 minute summer	3	320	3.902	0.152	0.9	0.0242	0.0000	SURCHARGED
480 minute summer	4	320	3.902	0.277	0.8	0.0441	0.0000	FLOOD RISK
480 minute summer	5 dummy	320	3.909	0.009	0.4	0.0000	0.0000	OK
480 minute summer	6 permeable paving	320	3.903	0.273	1.5	7.9032	0.0000	FLOOD RISK
480 minute summer	7	8	4.850	0.000	0.0	0.0000	0.0000	OK
480 minute summer	8	240	4.854	0.004	0.1	0.0001	0.0000	OK
480 minute summer	9	248	4.226	0.011	0.2	0.0002	0.0000	OK
480 minute summer	10	320	3.903	0.253	0.1	0.0402	0.0000	FLOOD RISK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
480 minute summer	1	1.000	2	0.2	0.348	0.054	0.0159	
480 minute summer	2	1.001	3	0.4	0.539	0.018	0.0303	
480 minute summer	3	1.002	4	0.8	0.118	0.086	0.0449	
480 minute summer	4	1.003	5 dummy	0.4	0.090	0.050	0.0061	1.8
480 minute summer	6 permeable paving	6.000	4	-0.7	0.126	-0.133	0.0987	
480 minute summer	7	2.000	2	0.0	0.000	0.000	0.0007	
480 minute summer	8	4.000	3	0.1	0.120	0.003	0.0188	
480 minute summer	9	3.000	3	0.2	0.371	0.025	0.1045	
480 minute summer	10	5.000	4	-0.1	-0.017	-0.018	0.0643	

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Results for 2 year +45% CC 480 minute winter. 1920 minute analysis at 8 minute timestep. Mass balance: 98.22%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
480 minute winter	1	248	4.867	0.017	0.2	0.0003	0.0000	OK
480 minute winter	2	248	4.758	0.008	0.3	0.0013	0.0000	OK
480 minute winter	3	328	3.907	0.157	0.5	0.0249	0.0000	SURCHARGED
480 minute winter	4	328	3.905	0.280	0.7	0.0446	0.0000	FLOOD RISK
480 minute winter	5 dummy	328	3.913	0.013	0.9	0.0000	0.0000	OK
480 minute winter	6 permeable paving	328	3.906	0.276	1.0	8.0287	0.0000	FLOOD RISK
480 minute winter	7	8	4.850	0.000	0.0	0.0000	0.0000	OK
480 minute winter	8	8	4.850	0.000	0.0	0.0000	0.0000	OK
480 minute winter	9	168	4.223	0.008	0.1	0.0001	0.0000	OK
480 minute winter	10	320	3.906	0.256	0.0	0.0408	0.0000	FLOOD RISK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
480 minute winter	1	1.000	2	0.2	0.348	0.053	0.0152	
480 minute winter	2	1.001	3	0.3	0.456	0.013	0.0301	
480 minute winter	3	1.002	4	0.4	0.101	0.047	0.0449	
480 minute winter	4	1.003	5 dummy	0.9	0.210	0.118	0.0061	3.3
480 minute winter	6 permeable paving	6.000	4	-0.4	0.100	-0.071	0.0987	
480 minute winter	7	2.000	2	0.0	0.000	0.000	0.0006	
480 minute winter	8	4.000	3	0.0	0.000	0.000	0.0188	
480 minute winter	9	3.000	3	0.1	0.269	0.012	0.1045	
480 minute winter	10	5.000	4	0.1	-0.016	0.016	0.0643	

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Results for 2 year +45% CC 600 minute summer. 2040 minute analysis at 15 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
600 minute summer	1	315	4.867	0.017	0.2	0.0003	0.0000	OK
600 minute summer	2	315	4.758	0.008	0.3	0.0013	0.0000	OK
600 minute summer	3	390	3.903	0.153	0.6	0.0243	0.0000	SURCHARGED
600 minute summer	4	390	3.902	0.277	0.5	0.0441	0.0000	FLOOD RISK
600 minute summer	5 dummy	390	3.909	0.009	0.4	0.0000	0.0000	OK
600 minute summer	6 permeable paving	390	3.903	0.273	1.1	7.9147	0.0000	FLOOD RISK
600 minute summer	7	15	4.850	0.000	0.0	0.0000	0.0000	OK
600 minute summer	8	15	4.850	0.000	0.0	0.0000	0.0000	OK
600 minute summer	9	315	4.226	0.011	0.2	0.0002	0.0000	OK
600 minute summer	10	390	3.902	0.252	0.1	0.0401	0.0000	FLOOD RISK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
600 minute summer	1	1.000	2	0.2	0.348	0.053	0.0153	
600 minute summer	2	1.001	3	0.3	0.512	0.013	0.0302	
600 minute summer	3	1.002	4	0.5	0.078	0.057	0.0449	
600 minute summer	4	1.003	5 dummy	0.4	0.099	0.056	0.0061	2.3
600 minute summer	6 permeable paving	6.000	4	-0.4	-0.025	-0.085	0.0987	
600 minute summer	7	2.000	2	0.0	0.000	0.000	0.0006	
600 minute summer	8	4.000	3	0.0	0.000	0.000	0.0188	
600 minute summer	9	3.000	3	0.2	0.243	0.025	0.1046	
600 minute summer	10	5.000	4	-0.1	-0.011	-0.015	0.0643	

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Results for 2 year +45% CC 600 minute winter. 2040 minute analysis at 15 minute timestep. Mass balance: 96.56%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
600 minute winter	1	210	4.863	0.013	0.1	0.0002	0.0000	OK
600 minute winter	2	240	4.757	0.007	0.2	0.0011	0.0000	OK
600 minute winter	3	390	3.906	0.156	0.4	0.0249	0.0000	SURCHARGED
600 minute winter	4	390	3.905	0.280	0.6	0.0446	0.0000	FLOOD RISK
600 minute winter	5 dummy	390	3.913	0.013	0.9	0.0000	0.0000	OK
600 minute winter	6 permeable paving	390	3.906	0.276	0.8	8.0276	0.0000	FLOOD RISK
600 minute winter	7	15	4.850	0.000	0.0	0.0000	0.0000	OK
600 minute winter	8	15	4.850	0.000	0.0	0.0000	0.0000	OK
600 minute winter	9	225	4.223	0.008	0.1	0.0001	0.0000	OK
600 minute winter	10	390	3.906	0.256	0.1	0.0407	0.0000	FLOOD RISK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
600 minute winter	1	1.000	2	0.1	0.301	0.027	0.0098	
600 minute winter	2	1.001	3	0.2	0.507	0.009	0.0301	
600 minute winter	3	1.002	4	0.4	0.081	0.045	0.0449	
600 minute winter	4	1.003	5 dummy	0.9	0.213	0.119	0.0061	4.2
600 minute winter	6 permeable paving	6.000	4	-0.4	0.114	-0.069	0.0987	
600 minute winter	7	2.000	2	0.0	0.000	0.000	0.0004	
600 minute winter	8	4.000	3	0.0	0.000	0.000	0.0188	
600 minute winter	9	3.000	3	0.1	0.277	0.012	0.1045	
600 minute winter	10	5.000	4	-0.1	-0.018	-0.018	0.0643	

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Results for 2 year +45% CC 720 minute summer. 2160 minute analysis at 15 minute timestep. Mass balance: 98.08%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
720 minute summer	1	450	4.863	0.013	0.1	0.0002	0.0000	OK
720 minute summer	2	315	4.757	0.007	0.2	0.0011	0.0000	OK
720 minute summer	3	450	3.904	0.154	0.4	0.0245	0.0000	SURCHARGED
720 minute summer	4	450	3.904	0.279	0.5	0.0443	0.0000	FLOOD RISK
720 minute summer	5 dummy	450	3.911	0.011	0.7	0.0000	0.0000	OK
720 minute summer	6 permeable paving	450	3.904	0.274	0.9	7.9609	0.0000	FLOOD RISK
720 minute summer	7	15	4.850	0.000	0.0	0.0000	0.0000	OK
720 minute summer	8	15	4.850	0.000	0.0	0.0000	0.0000	OK
720 minute summer	9	300	4.223	0.008	0.1	0.0001	0.0000	OK
720 minute summer	10	450	3.904	0.254	0.1	0.0405	0.0000	FLOOD RISK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
720 minute summer	1	1.000	2	0.1	0.299	0.027	0.0098	
720 minute summer	2	1.001	3	0.2	0.454	0.009	0.0301	
720 minute summer	3	1.002	4	0.4	0.078	0.045	0.0449	
720 minute summer	4	1.003	5 dummy	0.7	0.148	0.083	0.0061	3.5
720 minute summer	6 permeable paving	6.000	4	-0.4	-0.025	-0.069	0.0987	
720 minute summer	7	2.000	2	0.0	0.000	0.000	0.0004	
720 minute summer	8	4.000	3	0.0	0.000	0.000	0.0188	
720 minute summer	9	3.000	3	0.1	0.296	0.012	0.1045	
720 minute summer	10	5.000	4	-0.1	-0.011	-0.018	0.0643	

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Results for 2 year +45% CC 720 minute winter. 2160 minute analysis at 15 minute timestep. Mass balance: 94.49%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
720 minute winter	1	480	4.863	0.013	0.1	0.0002	0.0000	OK
720 minute winter	2	285	4.757	0.007	0.2	0.0011	0.0000	OK
720 minute winter	3	450	3.906	0.156	0.4	0.0248	0.0000	SURCHARGED
720 minute winter	4	450	3.905	0.280	0.7	0.0446	0.0000	FLOOD RISK
720 minute winter	5 dummy	450	3.913	0.013	0.9	0.0000	0.0000	OK
720 minute winter	6 permeable paving	450	3.906	0.276	0.7	8.0299	0.0000	FLOOD RISK
720 minute winter	7	15	4.850	0.000	0.0	0.0000	0.0000	OK
720 minute winter	8	15	4.850	0.000	0.0	0.0000	0.0000	OK
720 minute winter	9	270	4.223	0.008	0.1	0.0001	0.0000	OK
720 minute winter	10	450	3.906	0.256	0.1	0.0407	0.0000	FLOOD RISK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
720 minute winter	1	1.000	2	0.1	0.299	0.027	0.0098	
720 minute winter	2	1.001	3	0.2	0.518	0.009	0.0301	
720 minute winter	3	1.002	4	0.4	0.078	0.046	0.0449	
720 minute winter	4	1.003	5 dummy	0.9	0.211	0.118	0.0061	5.3
720 minute winter	6 permeable paving	6.000	4	-0.4	0.114	-0.069	0.0987	
720 minute winter	7	2.000	2	0.0	0.000	0.000	0.0004	
720 minute winter	8	4.000	3	0.0	0.000	0.000	0.0188	
720 minute winter	9	3.000	3	0.1	0.296	0.012	0.1045	
720 minute winter	10	5.000	4	-0.1	-0.018	-0.021	0.0643	

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Results for 2 year +45% CC 960 minute summer. 2400 minute analysis at 15 minute timestep. Mass balance: 98.45%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
960 minute summer	1	405	4.863	0.013	0.1	0.0002	0.0000	OK
960 minute summer	2	435	4.757	0.007	0.2	0.0011	0.0000	OK
960 minute summer	3	570	3.904	0.154	0.4	0.0244	0.0000	SURCHARGED
960 minute summer	4	570	3.903	0.278	0.4	0.0443	0.0000	FLOOD RISK
960 minute summer	5 dummy	570	3.910	0.010	0.6	0.0000	0.0000	OK
960 minute summer	6 permeable paving	570	3.904	0.274	0.8	7.9468	0.0000	FLOOD RISK
960 minute summer	7	15	4.850	0.000	0.0	0.0000	0.0000	OK
960 minute summer	8	15	4.850	0.000	0.0	0.0000	0.0000	OK
960 minute summer	9	420	4.223	0.008	0.1	0.0001	0.0000	OK
960 minute summer	10	570	3.904	0.254	0.1	0.0404	0.0000	FLOOD RISK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
960 minute summer	1	1.000	2	0.1	0.301	0.027	0.0098	
960 minute summer	2	1.001	3	0.2	0.507	0.009	0.0301	
960 minute summer	3	1.002	4	0.4	0.078	0.045	0.0449	
960 minute summer	4	1.003	5 dummy	0.6	0.132	0.074	0.0061	3.2
960 minute summer	6 permeable paving	6.000	4	-0.4	0.114	-0.069	0.0987	
960 minute summer	7	2.000	2	0.0	0.000	0.000	0.0004	
960 minute summer	8	4.000	3	0.0	0.000	0.000	0.0188	
960 minute summer	9	3.000	3	0.1	0.277	0.012	0.1045	
960 minute summer	10	5.000	4	-0.1	-0.018	-0.022	0.0643	

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Results for 2 year +45% CC 960 minute winter. 2400 minute analysis at 15 minute timestep. Mass balance: 91.70%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
960 minute winter	1	375	4.863	0.013	0.1	0.0002	0.0000	OK
960 minute winter	2	405	4.757	0.007	0.2	0.0011	0.0000	OK
960 minute winter	3	570	3.906	0.156	0.4	0.0248	0.0000	SURCHARGED
960 minute winter	4	570	3.905	0.280	0.7	0.0446	0.0000	FLOOD RISK
960 minute winter	5 dummy	570	3.913	0.013	0.9	0.0000	0.0000	OK
960 minute winter	6 permeable paving	570	3.906	0.276	0.7	8.0299	0.0000	FLOOD RISK
960 minute winter	7	15	4.850	0.000	0.0	0.0000	0.0000	OK
960 minute winter	8	15	4.850	0.000	0.0	0.0000	0.0000	OK
960 minute winter	9	375	4.223	0.008	0.1	0.0001	0.0000	OK
960 minute winter	10	570	3.906	0.256	0.0	0.0408	0.0000	FLOOD RISK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
960 minute winter	1	1.000	2	0.1	0.301	0.027	0.0098	
960 minute winter	2	1.001	3	0.2	0.518	0.009	0.0301	
960 minute winter	3	1.002	4	0.4	0.065	0.043	0.0449	
960 minute winter	4	1.003	5 dummy	0.9	0.212	0.119	0.0061	7.2
960 minute winter	6 permeable paving	6.000	4	-0.3	0.114	-0.064	0.0987	
960 minute winter	7	2.000	2	0.0	0.000	0.000	0.0004	
960 minute winter	8	4.000	3	0.0	0.000	0.000	0.0188	
960 minute winter	9	3.000	3	0.1	0.296	0.012	0.1045	
960 minute winter	10	5.000	4	0.1	-0.018	0.015	0.0643	

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Results for 2 year +45% CC 1440 minute summer. 2880 minute analysis at 30 minute timestep. Mass balance: 98.80%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
1440 minute summer	1	810	4.863	0.013	0.1	0.0002	0.0000	OK
1440 minute summer	2	720	4.757	0.007	0.2	0.0011	0.0000	OK
1440 minute summer	3	870	3.901	0.151	0.4	0.0240	0.0000	SURCHARGED
1440 minute summer	4	870	3.901	0.276	0.4	0.0439	0.0000	FLOOD RISK
1440 minute summer	5 dummy	870	3.906	0.006	0.2	0.0000	0.0000	OK
1440 minute summer	6 permeable paving	870	3.901	0.271	0.7	7.8538	0.0000	FLOOD RISK
1440 minute summer	7	30	4.850	0.000	0.0	0.0000	0.0000	OK
1440 minute summer	8	30	4.850	0.000	0.0	0.0000	0.0000	OK
1440 minute summer	9	690	4.223	0.008	0.1	0.0001	0.0000	OK
1440 minute summer	10	870	3.902	0.252	0.0	0.0400	0.0000	FLOOD RISK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
1440 minute summer	1	1.000	2	0.1	0.300	0.027	0.0098	
1440 minute summer	2	1.001	3	0.2	0.453	0.009	0.0301	
1440 minute summer	3	1.002	4	0.4	0.077	0.044	0.0449	
1440 minute summer	4	1.003	5 dummy	0.2	0.044	0.025	0.0061	2.1
1440 minute summer	6 permeable paving	6.000	4	-0.4	-0.021	-0.068	0.0987	
1440 minute summer	7	2.000	2	0.0	0.000	0.000	0.0004	
1440 minute summer	8	4.000	3	0.0	0.000	0.000	0.0188	
1440 minute summer	9	3.000	3	0.1	0.288	0.012	0.1045	
1440 minute summer	10	5.000	4	0.0	-0.006	-0.015	0.0643	

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Results for 2 year +45% CC 1440 minute winter. 2880 minute analysis at 30 minute timestep. Mass balance: 97.95%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
1440 minute winter	1	660	4.863	0.013	0.1	0.0002	0.0000	OK
1440 minute winter	2	750	4.757	0.007	0.2	0.0011	0.0000	OK
1440 minute winter	3	870	3.902	0.152	0.3	0.0242	0.0000	SURCHARGED
1440 minute winter	4	870	3.902	0.277	0.3	0.0440	0.0000	FLOOD RISK
1440 minute winter	5 dummy	870	3.908	0.008	0.3	0.0000	0.0000	OK
1440 minute winter	6 permeable paving	870	3.902	0.272	0.5	7.8890	0.0000	FLOOD RISK
1440 minute winter	7	30	4.850	0.000	0.0	0.0000	0.0000	OK
1440 minute winter	8	30	4.850	0.000	0.0	0.0000	0.0000	OK
1440 minute winter	9	660	4.223	0.008	0.1	0.0001	0.0000	OK
1440 minute winter	10	870	3.903	0.253	0.0	0.0402	0.0000	FLOOD RISK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
1440 minute winter	1	1.000	2	0.1	0.301	0.027	0.0098	
1440 minute winter	2	1.001	3	0.2	0.358	0.009	0.0298	
1440 minute winter	3	1.002	4	0.3	0.037	0.029	0.0449	
1440 minute winter	4	1.003	5 dummy	0.3	0.079	0.044	0.0061	3.4
1440 minute winter	6 permeable paving	6.000	4	0.3	0.017	0.049	0.0987	
1440 minute winter	7	2.000	2	0.0	0.000	0.000	0.0004	
1440 minute winter	8	4.000	3	0.0	0.000	0.000	0.0188	
1440 minute winter	9	3.000	3	0.1	0.288	0.012	0.1045	
1440 minute winter	10	5.000	4	0.1	0.007	0.016	0.0643	

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Results for 30 year +45% CC 15 minute summer. 1455 minute analysis at 1 minute timestep. Mass balance: 93.10%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	1	11	4.912	0.062	2.5	0.0011	0.0000	OK
15 minute summer	2	10	4.781	0.031	4.7	0.0049	0.0000	OK
15 minute summer	3	12	3.975	0.225	9.6	0.0358	0.0000	SURCHARGED
15 minute summer	4	487	3.892	0.267	8.2	0.0424	0.0000	FLOOD RISK
15 minute summer	5 dummy	1	3.900	0.000	0.0	0.0000	0.0000	OK
15 minute summer	6 permeable paving	190	3.891	0.261	16.8	7.4995	0.0000	FLOOD RISK
15 minute summer	7	11	4.862	0.012	0.3	0.0002	0.0000	OK
15 minute summer	8	10	4.861	0.011	0.7	0.0002	0.0000	OK
15 minute summer	9	10	4.252	0.037	2.4	0.0007	0.0000	OK
15 minute summer	10	253	3.892	0.242	0.6	0.0385	0.0000	FLOOD RISK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	1	1.000	2	2.4	0.687	0.652	0.0912	
15 minute summer	2	1.001	3	4.7	0.959	0.209	0.0371	
15 minute summer	3	1.002	4	8.2	1.054	0.920	0.0449	
15 minute summer	4	1.003	5 dummy	0.0	0.000	0.000	0.0061	0.0
15 minute summer	6 permeable paving	6.000	4	-7.3	-0.416	-1.420	0.0987	
15 minute summer	7	2.000	2	0.3	0.266	0.030	0.0049	
15 minute summer	8	4.000	3	0.7	0.233	0.024	0.0199	
15 minute summer	9	3.000	3	2.3	0.452	0.287	0.1345	
15 minute summer	10	5.000	4	-0.6	-0.170	-0.195	0.0643	

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Results for 30 year +45% CC 15 minute winter. 1455 minute analysis at 1 minute timestep. Mass balance: 94.52%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	1	11	4.913	0.063	2.6	0.0011	0.0000	OK
15 minute winter	2	10	4.782	0.032	4.9	0.0051	0.0000	OK
15 minute winter	3	12	4.001	0.251	10.1	0.0399	0.0000	SURCHARGED
15 minute winter	4	20	3.911	0.286	8.6	0.0455	0.0000	FLOOD RISK
15 minute winter	5 dummy	17	3.913	0.013	1.0	0.0000	0.0000	OK
15 minute winter	6 permeable paving	20	3.912	0.282	17.4	8.2278	0.0000	FLOOD RISK
15 minute winter	7	11	4.862	0.012	0.3	0.0002	0.0000	OK
15 minute winter	8	10	4.861	0.011	0.8	0.0002	0.0000	OK
15 minute winter	9	10	4.253	0.038	2.5	0.0007	0.0000	OK
15 minute winter	10	20	3.912	0.262	0.7	0.0416	0.0000	FLOOD RISK

Link Event	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	2.5	0.694	0.679	0.0939	
15 minute winter	2	1.001	3	4.9	0.946	0.218	0.0373	
15 minute winter	3	1.002	4	8.6	1.104	0.964	0.0449	
15 minute winter	4	1.003	5 dummy	1.0	0.225	0.126	0.0064	0.8
15 minute winter	6 permeable paving	6.000	4	-7.6	-0.433	-1.477	0.0987	
15 minute winter	7	2.000	2	0.3	0.254	0.030	0.0050	
15 minute winter	8	4.000	3	0.8	0.287	0.027	0.0200	
15 minute winter	9	3.000	3	2.4	0.454	0.299	0.1355	
15 minute winter	10	5.000	4	-0.7	-0.184	-0.226	0.0643	

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Results for 30 year +45% CC 30 minute summer. 1470 minute analysis at 1 minute timestep. Mass balance: 95.28%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
30 minute summer	1	18	4.909	0.059	2.3	0.0011	0.0000	OK
30 minute summer	2	18	4.780	0.030	4.4	0.0048	0.0000	OK
30 minute summer	3	20	3.990	0.240	8.9	0.0382	0.0000	SURCHARGED
30 minute summer	4	30	3.956	0.331	7.7	0.0527	0.0000	FLOOD RISK
30 minute summer	5 dummy	30	3.920	0.020	2.3	0.0000	0.0000	OK
30 minute summer	6 permeable paving	30	3.957	0.327	15.7	8.9172	0.0000	FLOOD RISK
30 minute summer	7	18	4.862	0.012	0.3	0.0002	0.0000	OK
30 minute summer	8	18	4.861	0.011	0.7	0.0002	0.0000	OK
30 minute summer	9	18	4.250	0.035	2.1	0.0006	0.0000	OK
30 minute summer	10	30	3.957	0.307	0.5	0.0488	0.0000	FLOOD RISK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
30 minute summer	1	1.000	2	2.3	0.674	0.610	0.0871	
30 minute summer	2	1.001	3	4.4	0.916	0.196	0.0367	
30 minute summer	3	1.002	4	7.7	0.989	0.864	0.0449	
30 minute summer	4	1.003	5 dummy	2.3	0.426	0.293	0.0070	2.5
30 minute summer	6 permeable paving	6.000	4	-6.9	-0.392	-1.337	0.0987	
30 minute summer	7	2.000	2	0.3	0.258	0.030	0.0047	
30 minute summer	8	4.000	3	0.7	0.224	0.024	0.0199	
30 minute summer	9	3.000	3	2.1	0.440	0.258	0.1319	
30 minute summer	10	5.000	4	-0.5	-0.134	-0.161	0.0643	

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Results for 30 year +45% CC 30 minute winter. 1470 minute analysis at 1 minute timestep. Mass balance: 95.73%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
30 minute winter	1	18	4.905	0.055	2.0	0.0010	0.0000	OK
30 minute winter	2	18	4.778	0.028	3.9	0.0045	0.0000	OK
30 minute winter	3	25	4.010	0.260	8.0	0.0413	0.0000	SURCHARGED
30 minute winter	4	25	3.992	0.367	7.1	0.0584	0.0000	FLOOD RISK
30 minute winter	5 dummy	25	3.932	0.032	5.7	0.0000	0.0000	OK
30 minute winter	6 permeable paving	24	3.995	0.365	14.3	8.9172	0.0000	FLOOD RISK
30 minute winter	7	19	4.862	0.012	0.3	0.0002	0.0000	OK
30 minute winter	8	18	4.860	0.010	0.6	0.0002	0.0000	OK
30 minute winter	9	18	4.248	0.033	1.9	0.0006	0.0000	OK
30 minute winter	10	25	3.989	0.339	0.6	0.0540	0.0000	FLOOD RISK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
30 minute winter	1	1.000	2	2.0	0.649	0.532	0.0792	
30 minute winter	2	1.001	3	3.9	0.907	0.174	0.0361	
30 minute winter	3	1.002	4	7.1	0.908	0.793	0.0449	
30 minute winter	4	1.003	5 dummy	5.7	0.962	0.729	0.0078	3.9
30 minute winter	6 permeable paving	6.000	4	-6.3	-0.358	-1.222	0.0987	
30 minute winter	7	2.000	2	0.3	0.268	0.030	0.0044	
30 minute winter	8	4.000	3	0.6	0.214	0.021	0.0198	
30 minute winter	9	3.000	3	1.9	0.429	0.233	0.1298	
30 minute winter	10	5.000	4	-0.6	-0.145	-0.171	0.0643	

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Results for 30 year +45% CC 60 minute summer. 1500 minute analysis at 1 minute timestep. Mass balance: 96.21%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute summer	1	33	4.900	0.050	1.7	0.0009	0.0000	OK
60 minute summer	2	33	4.776	0.026	3.3	0.0041	0.0000	OK
60 minute summer	3	39	4.016	0.266	6.7	0.0423	0.0000	SURCHARGED
60 minute summer	4	40	3.995	0.370	6.1	0.0588	0.0000	FLOOD RISK
60 minute summer	5 dummy	40	3.933	0.033	5.9	0.0000	0.0000	OK
60 minute summer	6 permeable paving	40	3.996	0.366	12.1	8.9172	0.0000	FLOOD RISK
60 minute summer	7	35	4.860	0.010	0.2	0.0002	0.0000	OK
60 minute summer	8	33	4.859	0.009	0.5	0.0002	0.0000	OK
60 minute summer	9	33	4.245	0.030	1.6	0.0005	0.0000	OK
60 minute summer	10	39	4.000	0.350	0.8	0.0556	0.0000	FLOOD RISK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
60 minute summer	1	1.000	2	1.7	0.621	0.452	0.0705	
60 minute summer	2	1.001	3	3.3	0.840	0.147	0.0353	
60 minute summer	3	1.002	4	5.9	0.758	0.662	0.0449	
60 minute summer	4	1.003	5 dummy	5.9	0.982	0.746	0.0078	5.6
60 minute summer	6 permeable paving	6.000	4	-5.3	-0.300	-1.024	0.0987	
60 minute summer	7	2.000	2	0.2	0.234	0.020	0.0038	
60 minute summer	8	4.000	3	0.5	0.231	0.017	0.0197	
60 minute summer	9	3.000	3	1.6	0.396	0.196	0.1264	
60 minute summer	10	5.000	4	-0.8	-0.101	-0.234	0.0643	

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Results for 30 year +45% CC 60 minute winter. 1500 minute analysis at 1 minute timestep. Mass balance: 96.58%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute winter	1	34	4.895	0.045	1.4	0.0008	0.0000	OK
60 minute winter	2	34	4.774	0.024	2.7	0.0037	0.0000	OK
60 minute winter	3	40	4.058	0.308	5.5	0.0489	0.0000	SURCHARGED
60 minute winter	4	40	4.027	0.402	8.0	0.0639	0.0000	FLOOD RISK
60 minute winter	5 dummy	40	3.937	0.037	7.6	0.0000	0.0000	OK
60 minute winter	6 permeable paving	40	4.030	0.400	10.0	8.9172	0.0000	FLOOD RISK
60 minute winter	7	35	4.860	0.010	0.2	0.0002	0.0000	OK
60 minute winter	8	31	4.858	0.008	0.4	0.0001	0.0000	OK
60 minute winter	9	34	4.242	0.027	1.3	0.0005	0.0000	OK
60 minute winter	10	39	4.028	0.378	1.5	0.0601	0.0000	FLOOD RISK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
60 minute winter	1	1.000	2	1.4	0.591	0.374	0.0615	
60 minute winter	2	1.001	3	2.7	0.816	0.121	0.0345	
60 minute winter	3	1.002	4	4.9	0.632	0.552	0.0449	
60 minute winter	4	1.003	5 dummy	7.6	1.223	0.962	0.0082	7.3
60 minute winter	6 permeable paving	6.000	4	4.9	0.279	0.952	0.0987	
60 minute winter	7	2.000	2	0.2	0.250	0.020	0.0034	
60 minute winter	8	4.000	3	0.4	0.195	0.014	0.0196	
60 minute winter	9	3.000	3	1.3	0.387	0.160	0.1229	
60 minute winter	10	5.000	4	-1.5	-0.194	-0.462	0.0643	

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Results for 30 year +45% CC 120 minute summer. 1560 minute analysis at 2 minute timestep. Mass balance: 96.93%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
120 minute summer	1	64	4.889	0.039	1.1	0.0007	0.0000	OK
120 minute summer	2	64	4.771	0.021	2.2	0.0034	0.0000	OK
120 minute summer	3	70	4.028	0.278	4.5	0.0443	0.0000	SURCHARGED
120 minute summer	4	70	4.007	0.382	6.5	0.0607	0.0000	FLOOD RISK
120 minute summer	5 dummy	70	3.934	0.034	6.5	0.0000	0.0000	OK
120 minute summer	6 permeable paving	70	4.009	0.379	7.9	8.9172	0.0000	FLOOD RISK
120 minute summer	7	64	4.860	0.010	0.2	0.0002	0.0000	OK
120 minute summer	8	62	4.857	0.007	0.3	0.0001	0.0000	OK
120 minute summer	9	64	4.240	0.025	1.1	0.0004	0.0000	OK
120 minute summer	10	70	4.007	0.357	0.2	0.0568	0.0000	FLOOD RISK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
120 minute summer	1	1.000	2	1.1	0.548	0.294	0.0522	
120 minute summer	2	1.001	3	2.2	0.724	0.098	0.0338	
120 minute summer	3	1.002	4	4.1	0.524	0.458	0.0449	
120 minute summer	4	1.003	5 dummy	6.5	1.073	0.826	0.0079	8.8
120 minute summer	6 permeable paving	6.000	4	-3.4	-0.193	-0.658	0.0987	
120 minute summer	7	2.000	2	0.2	0.258	0.020	0.0030	
120 minute summer	8	4.000	3	0.3	0.198	0.010	0.0194	
120 minute summer	9	3.000	3	1.1	0.321	0.135	0.1204	
120 minute summer	10	5.000	4	-0.2	-0.070	-0.069	0.0643	

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Results for 30 year +45% CC 120 minute winter. 1560 minute analysis at 2 minute timestep. Mass balance: 97.26%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
120 minute winter	1	66	4.886	0.036	0.9	0.0006	0.0000	OK
120 minute winter	2	66	4.769	0.019	1.7	0.0030	0.0000	OK
120 minute winter	3	68	4.024	0.274	3.5	0.0436	0.0000	SURCHARGED
120 minute winter	4	70	4.003	0.378	6.4	0.0602	0.0000	FLOOD RISK
120 minute winter	5 dummy	70	3.934	0.034	6.3	0.0000	0.0000	OK
120 minute winter	6 permeable paving	68	4.006	0.376	6.0	8.9172	0.0000	FLOOD RISK
120 minute winter	7	52	4.857	0.007	0.1	0.0001	0.0000	OK
120 minute winter	8	64	4.857	0.007	0.3	0.0001	0.0000	OK
120 minute winter	9	64	4.236	0.021	0.8	0.0004	0.0000	OK
120 minute winter	10	68	4.004	0.354	0.3	0.0563	0.0000	FLOOD RISK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
120 minute winter	1	1.000	2	0.9	0.524	0.241	0.0449	
120 minute winter	2	1.001	3	1.7	0.720	0.076	0.0331	
120 minute winter	3	1.002	4	3.2	0.411	0.359	0.0449	
120 minute winter	4	1.003	5 dummy	6.3	1.049	0.805	0.0079	11.0
120 minute winter	6 permeable paving	6.000	4	3.2	0.184	0.628	0.0987	
120 minute winter	7	2.000	2	0.1	0.240	0.010	0.0024	
120 minute winter	8	4.000	3	0.3	0.189	0.010	0.0194	
120 minute winter	9	3.000	3	0.8	0.334	0.098	0.1165	
120 minute winter	10	5.000	4	-0.3	-0.077	-0.098	0.0643	

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Results for 30 year +45% CC 180 minute summer. 1620 minute analysis at 4 minute timestep. Mass balance: 97.28%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
180 minute summer	1	96	4.883	0.033	0.8	0.0006	0.0000	OK
180 minute summer	2	96	4.768	0.018	1.6	0.0029	0.0000	OK
180 minute summer	3	100	4.014	0.264	3.2	0.0420	0.0000	SURCHARGED
180 minute summer	4	100	3.996	0.371	5.9	0.0590	0.0000	FLOOD RISK
180 minute summer	5 dummy	100	3.933	0.033	5.9	0.0000	0.0000	OK
180 minute summer	6 permeable paving	100	3.998	0.368	5.7	8.9172	0.0000	FLOOD RISK
180 minute summer	7	88	4.857	0.007	0.1	0.0001	0.0000	OK
180 minute summer	8	88	4.856	0.006	0.2	0.0001	0.0000	OK
180 minute summer	9	96	4.236	0.021	0.8	0.0004	0.0000	OK
180 minute summer	10	100	3.996	0.346	0.3	0.0550	0.0000	FLOOD RISK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
180 minute summer	1	1.000	2	0.8	0.500	0.214	0.0417	
180 minute summer	2	1.001	3	1.6	0.563	0.072	0.0329	
180 minute summer	3	1.002	4	2.9	0.373	0.326	0.0449	
180 minute summer	4	1.003	5 dummy	5.9	0.991	0.754	0.0078	11.3
180 minute summer	6 permeable paving	6.000	4	2.9	0.166	0.568	0.0987	
180 minute summer	7	2.000	2	0.1	0.238	0.010	0.0023	
180 minute summer	8	4.000	3	0.2	0.171	0.007	0.0193	
180 minute summer	9	3.000	3	0.8	0.293	0.098	0.1165	
180 minute summer	10	5.000	4	-0.3	-0.068	-0.098	0.0643	

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Results for 30 year +45% CC 180 minute winter. 1620 minute analysis at 4 minute timestep. Mass balance: 97.53%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
180 minute winter	1	96	4.881	0.031	0.7	0.0006	0.0000	OK
180 minute winter	2	96	4.766	0.016	1.3	0.0026	0.0000	OK
180 minute winter	3	96	3.995	0.245	2.6	0.0390	0.0000	SURCHARGED
180 minute winter	4	96	3.982	0.357	5.2	0.0567	0.0000	FLOOD RISK
180 minute winter	5 dummy	96	3.930	0.030	5.1	0.0000	0.0000	OK
180 minute winter	6 permeable paving	96	3.983	0.353	4.3	8.9172	0.0000	FLOOD RISK
180 minute winter	7	84	4.857	0.007	0.1	0.0001	0.0000	OK
180 minute winter	8	84	4.856	0.006	0.2	0.0001	0.0000	OK
180 minute winter	9	92	4.233	0.018	0.6	0.0003	0.0000	OK
180 minute winter	10	96	3.981	0.331	0.1	0.0527	0.0000	FLOOD RISK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
180 minute winter	1	1.000	2	0.7	0.488	0.187	0.0376	
180 minute winter	2	1.001	3	1.3	0.572	0.058	0.0324	
180 minute winter	3	1.002	4	2.6	0.326	0.285	0.0449	
180 minute winter	4	1.003	5 dummy	5.1	0.870	0.650	0.0076	13.1
180 minute winter	6 permeable paving	6.000	4	2.5	0.143	0.489	0.0987	
180 minute winter	7	2.000	2	0.1	0.238	0.010	0.0021	
180 minute winter	8	4.000	3	0.2	0.183	0.007	0.0193	
180 minute winter	9	3.000	3	0.6	0.294	0.074	0.1136	
180 minute winter	10	5.000	4	-0.1	-0.071	-0.035	0.0643	

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Results for 30 year +45% CC 240 minute summer. 1680 minute analysis at 4 minute timestep. Mass balance: 97.49%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
240 minute summer	1	128	4.881	0.031	0.7	0.0006	0.0000	OK
240 minute summer	2	124	4.767	0.017	1.4	0.0027	0.0000	OK
240 minute summer	3	128	4.001	0.251	2.8	0.0400	0.0000	SURCHARGED
240 minute summer	4	128	3.986	0.361	5.4	0.0575	0.0000	FLOOD RISK
240 minute summer	5 dummy	128	3.931	0.031	5.4	0.0000	0.0000	OK
240 minute summer	6 permeable paving	128	3.988	0.358	4.3	8.9172	0.0000	FLOOD RISK
240 minute summer	7	120	4.857	0.007	0.1	0.0001	0.0000	OK
240 minute summer	8	120	4.856	0.006	0.2	0.0001	0.0000	OK
240 minute summer	9	124	4.235	0.020	0.7	0.0004	0.0000	OK
240 minute summer	10	128	3.987	0.337	0.4	0.0536	0.0000	FLOOD RISK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
240 minute summer	1	1.000	2	0.7	0.488	0.187	0.0380	
240 minute summer	2	1.001	3	1.4	0.527	0.062	0.0326	
240 minute summer	3	1.002	4	2.7	0.340	0.297	0.0449	
240 minute summer	4	1.003	5 dummy	5.4	0.912	0.686	0.0077	13.3
240 minute summer	6 permeable paving	6.000	4	3.1	0.175	0.596	0.0987	
240 minute summer	7	2.000	2	0.1	0.238	0.010	0.0021	
240 minute summer	8	4.000	3	0.2	0.139	0.007	0.0193	
240 minute summer	9	3.000	3	0.7	0.441	0.084	0.1149	
240 minute summer	10	5.000	4	-0.4	-0.055	-0.131	0.0643	

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Results for 30 year +45% CC 240 minute winter. 1680 minute analysis at 4 minute timestep. Mass balance: 97.75%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
240 minute winter	1	120	4.876	0.026	0.5	0.0005	0.0000	OK
240 minute winter	2	128	4.764	0.014	1.0	0.0023	0.0000	OK
240 minute winter	3	128	3.983	0.233	2.1	0.0371	0.0000	SURCHARGED
240 minute winter	4	132	3.973	0.348	4.5	0.0554	0.0000	FLOOD RISK
240 minute winter	5 dummy	128	3.929	0.029	4.6	0.0000	0.0000	OK
240 minute winter	6 permeable paving	128	3.975	0.345	3.4	8.9172	0.0000	FLOOD RISK
240 minute winter	7	112	4.857	0.007	0.1	0.0001	0.0000	OK
240 minute winter	8	124	4.856	0.006	0.2	0.0001	0.0000	OK
240 minute winter	9	120	4.232	0.017	0.5	0.0003	0.0000	OK
240 minute winter	10	132	3.974	0.324	0.1	0.0516	0.0000	FLOOD RISK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
240 minute winter	1	1.000	2	0.5	0.436	0.134	0.0300	
240 minute winter	2	1.001	3	1.0	0.564	0.045	0.0319	
240 minute winter	3	1.002	4	2.2	0.283	0.247	0.0449	
240 minute winter	4	1.003	5 dummy	4.6	0.792	0.584	0.0075	15.5
240 minute winter	6 permeable paving	6.000	4	2.2	0.146	0.430	0.0987	
240 minute winter	7	2.000	2	0.1	0.243	0.010	0.0018	
240 minute winter	8	4.000	3	0.2	0.171	0.007	0.0193	
240 minute winter	9	3.000	3	0.5	0.442	0.061	0.1121	
240 minute winter	10	5.000	4	0.2	-0.044	0.057	0.0643	

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Results for 30 year +45% CC 360 minute summer. 1800 minute analysis at 8 minute timestep. Mass balance: 97.64%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
360 minute summer	1	192	4.876	0.026	0.5	0.0005	0.0000	OK
360 minute summer	2	192	4.764	0.014	1.0	0.0023	0.0000	OK
360 minute summer	3	184	3.983	0.233	2.1	0.0370	0.0000	SURCHARGED
360 minute summer	4	192	3.973	0.348	4.5	0.0553	0.0000	FLOOD RISK
360 minute summer	5 dummy	184	3.929	0.029	4.6	0.0000	0.0000	OK
360 minute summer	6 permeable paving	192	3.973	0.343	3.0	8.9172	0.0000	FLOOD RISK
360 minute summer	7	176	4.857	0.007	0.1	0.0001	0.0000	OK
360 minute summer	8	184	4.856	0.006	0.2	0.0001	0.0000	OK
360 minute summer	9	184	4.232	0.017	0.5	0.0003	0.0000	OK
360 minute summer	10	192	3.973	0.323	0.2	0.0513	0.0000	FLOOD RISK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
360 minute summer	1	1.000	2	0.5	0.436	0.134	0.0300	
360 minute summer	2	1.001	3	1.0	0.519	0.045	0.0319	
360 minute summer	3	1.002	4	2.2	0.280	0.244	0.0449	
360 minute summer	4	1.003	5 dummy	4.6	0.789	0.582	0.0075	14.3
360 minute summer	6 permeable paving	6.000	4	2.2	0.125	0.426	0.0987	
360 minute summer	7	2.000	2	0.1	0.241	0.010	0.0018	
360 minute summer	8	4.000	3	0.2	0.067	0.007	0.0193	
360 minute summer	9	3.000	3	0.5	0.284	0.061	0.1119	
360 minute summer	10	5.000	4	-0.2	-0.023	-0.054	0.0643	

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Results for 30 year +45% CC 360 minute winter. 1800 minute analysis at 8 minute timestep. Mass balance: 98.02%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
360 minute winter	1	200	4.874	0.024	0.4	0.0004	0.0000	OK
360 minute winter	2	184	4.763	0.013	0.8	0.0021	0.0000	OK
360 minute winter	3	184	3.975	0.225	1.6	0.0357	0.0000	SURCHARGED
360 minute winter	4	184	3.969	0.344	3.2	0.0547	0.0000	FLOOD RISK
360 minute winter	5 dummy	184	3.924	0.024	3.2	0.0000	0.0000	OK
360 minute winter	6 permeable paving	184	3.970	0.340	2.1	8.9172	0.0000	FLOOD RISK
360 minute winter	7	184	4.857	0.007	0.1	0.0001	0.0000	OK
360 minute winter	8	136	4.854	0.004	0.1	0.0001	0.0000	OK
360 minute winter	9	184	4.230	0.015	0.4	0.0003	0.0000	OK
360 minute winter	10	184	3.969	0.319	0.1	0.0507	0.0000	FLOOD RISK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
360 minute winter	1	1.000	2	0.4	0.416	0.107	0.0257	
360 minute winter	2	1.001	3	0.8	0.519	0.036	0.0315	
360 minute winter	3	1.002	4	1.6	0.205	0.179	0.0449	
360 minute winter	4	1.003	5 dummy	3.2	0.573	0.406	0.0072	18.6
360 minute winter	6 permeable paving	6.000	4	1.6	0.136	0.310	0.0987	
360 minute winter	7	2.000	2	0.1	0.243	0.010	0.0016	
360 minute winter	8	4.000	3	0.1	0.044	0.003	0.0191	
360 minute winter	9	3.000	3	0.4	0.369	0.049	0.1104	
360 minute winter	10	5.000	4	-0.1	-0.036	-0.018	0.0643	

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Results for 30 year +45% CC 480 minute summer. 1920 minute analysis at 8 minute timestep. Mass balance: 97.73%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
480 minute summer	1	256	4.874	0.024	0.4	0.0004	0.0000	OK
480 minute summer	2	248	4.763	0.013	0.8	0.0021	0.0000	OK
480 minute summer	3	248	3.976	0.226	1.6	0.0359	0.0000	SURCHARGED
480 minute summer	4	248	3.970	0.345	3.3	0.0549	0.0000	FLOOD RISK
480 minute summer	5 dummy	248	3.924	0.024	3.3	0.0000	0.0000	OK
480 minute summer	6 permeable paving	248	3.971	0.341	2.1	8.9172	0.0000	FLOOD RISK
480 minute summer	7	248	4.857	0.007	0.1	0.0001	0.0000	OK
480 minute summer	8	208	4.854	0.004	0.1	0.0001	0.0000	OK
480 minute summer	9	248	4.230	0.015	0.4	0.0003	0.0000	OK
480 minute summer	10	248	3.970	0.320	0.4	0.0509	0.0000	FLOOD RISK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
480 minute summer	1	1.000	2	0.4	0.416	0.107	0.0257	
480 minute summer	2	1.001	3	0.8	0.519	0.036	0.0315	
480 minute summer	3	1.002	4	1.6	0.205	0.179	0.0449	
480 minute summer	4	1.003	5 dummy	3.3	0.591	0.420	0.0072	14.3
480 minute summer	6 permeable paving	6.000	4	1.8	0.126	0.344	0.0987	
480 minute summer	7	2.000	2	0.1	0.243	0.010	0.0016	
480 minute summer	8	4.000	3	0.1	0.046	0.003	0.0191	
480 minute summer	9	3.000	3	0.4	0.284	0.049	0.1104	
480 minute summer	10	5.000	4	-0.4	-0.052	-0.123	0.0643	

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Results for 30 year +45% CC 480 minute winter. 1920 minute analysis at 8 minute timestep. Mass balance: 98.03%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
480 minute winter	1	224	4.871	0.021	0.3	0.0004	0.0000	OK
480 minute winter	2	224	4.760	0.010	0.5	0.0017	0.0000	OK
480 minute winter	3	256	3.959	0.209	1.1	0.0332	0.0000	SURCHARGED
480 minute winter	4	248	3.956	0.331	2.3	0.0527	0.0000	FLOOD RISK
480 minute winter	5 dummy	256	3.920	0.020	2.3	0.0000	0.0000	OK
480 minute winter	6 permeable paving	256	3.957	0.327	1.8	8.9172	0.0000	FLOOD RISK
480 minute winter	7	8	4.850	0.000	0.0	0.0000	0.0000	OK
480 minute winter	8	184	4.854	0.004	0.1	0.0001	0.0000	OK
480 minute winter	9	232	4.228	0.013	0.3	0.0002	0.0000	OK
480 minute winter	10	248	3.956	0.306	0.0	0.0487	0.0000	FLOOD RISK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
480 minute winter	1	1.000	2	0.3	0.387	0.080	0.0205	
480 minute winter	2	1.001	3	0.5	0.519	0.022	0.0309	
480 minute winter	3	1.002	4	1.1	0.142	0.124	0.0449	
480 minute winter	4	1.003	5 dummy	2.3	0.426	0.293	0.0070	18.0
480 minute winter	6 permeable paving	6.000	4	1.2	0.100	0.233	0.0987	
480 minute winter	7	2.000	2	0.0	0.000	0.000	0.0008	
480 minute winter	8	4.000	3	0.1	0.043	0.003	0.0191	
480 minute winter	9	3.000	3	0.3	0.284	0.037	0.1087	
480 minute winter	10	5.000	4	0.1	-0.031	0.024	0.0643	

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Results for 30 year +45% CC 600 minute summer. 2040 minute analysis at 15 minute timestep. Mass balance: 98.34%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
600 minute summer	1	330	4.871	0.021	0.3	0.0004	0.0000	OK
600 minute summer	2	315	4.761	0.011	0.6	0.0018	0.0000	OK
600 minute summer	3	315	3.965	0.215	1.3	0.0342	0.0000	SURCHARGED
600 minute summer	4	315	3.962	0.337	2.6	0.0535	0.0000	FLOOD RISK
600 minute summer	5 dummy	315	3.922	0.022	2.6	0.0000	0.0000	OK
600 minute summer	6 permeable paving	315	3.962	0.332	2.0	8.9172	0.0000	FLOOD RISK
600 minute summer	7	15	4.850	0.000	0.0	0.0000	0.0000	OK
600 minute summer	8	285	4.854	0.004	0.1	0.0001	0.0000	OK
600 minute summer	9	300	4.228	0.013	0.3	0.0002	0.0000	OK
600 minute summer	10	315	3.962	0.312	0.1	0.0495	0.0000	FLOOD RISK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
600 minute summer	1	1.000	2	0.3	0.387	0.080	0.0210	
600 minute summer	2	1.001	3	0.6	0.518	0.027	0.0311	
600 minute summer	3	1.002	4	1.3	0.166	0.145	0.0449	
600 minute summer	4	1.003	5 dummy	2.6	0.476	0.331	0.0071	14.8
600 minute summer	6 permeable paving	6.000	4	1.3	0.074	0.252	0.0987	
600 minute summer	7	2.000	2	0.0	0.000	0.000	0.0009	
600 minute summer	8	4.000	3	0.1	0.027	0.003	0.0191	
600 minute summer	9	3.000	3	0.3	0.277	0.037	0.1087	
600 minute summer	10	5.000	4	-0.1	-0.011	-0.017	0.0643	

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Results for 30 year +45% CC 600 minute winter. 2040 minute analysis at 15 minute timestep. Mass balance: 97.96%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
600 minute winter	1	315	4.871	0.021	0.3	0.0004	0.0000	OK
600 minute winter	2	315	4.760	0.010	0.5	0.0017	0.0000	OK
600 minute winter	3	315	3.953	0.203	1.0	0.0322	0.0000	SURCHARGED
600 minute winter	4	315	3.951	0.326	2.0	0.0518	0.0000	FLOOD RISK
600 minute winter	5 dummy	315	3.919	0.019	2.0	0.0000	0.0000	OK
600 minute winter	6 permeable paving	315	3.951	0.321	1.5	8.9172	0.0000	FLOOD RISK
600 minute winter	7	15	4.850	0.000	0.0	0.0000	0.0000	OK
600 minute winter	8	255	4.854	0.004	0.1	0.0001	0.0000	OK
600 minute winter	9	255	4.226	0.011	0.2	0.0002	0.0000	OK
600 minute winter	10	315	3.951	0.301	0.0	0.0478	0.0000	FLOOD RISK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
600 minute winter	1	1.000	2	0.3	0.387	0.080	0.0205	
600 minute winter	2	1.001	3	0.5	0.507	0.022	0.0309	
600 minute winter	3	1.002	4	1.0	0.128	0.112	0.0449	
600 minute winter	4	1.003	5 dummy	2.0	0.375	0.255	0.0069	18.8
600 minute winter	6 permeable paving	6.000	4	1.0	0.114	0.194	0.0987	
600 minute winter	7	2.000	2	0.0	0.000	0.000	0.0008	
600 minute winter	8	4.000	3	0.1	0.030	0.003	0.0191	
600 minute winter	9	3.000	3	0.2	0.277	0.025	0.1068	
600 minute winter	10	5.000	4	0.1	-0.023	0.021	0.0643	

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Results for 30 year +45% CC 720 minute summer. 2160 minute analysis at 15 minute timestep. Mass balance: 98.88%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
720 minute summer	1	375	4.871	0.021	0.3	0.0004	0.0000	OK
720 minute summer	2	375	4.760	0.010	0.5	0.0017	0.0000	OK
720 minute summer	3	375	3.959	0.209	1.1	0.0332	0.0000	SURCHARGED
720 minute summer	4	375	3.956	0.331	2.3	0.0527	0.0000	FLOOD RISK
720 minute summer	5 dummy	375	3.920	0.020	2.3	0.0000	0.0000	OK
720 minute summer	6 permeable paving	375	3.957	0.327	1.7	8.9172	0.0000	FLOOD RISK
720 minute summer	7	15	4.850	0.000	0.0	0.0000	0.0000	OK
720 minute summer	8	345	4.854	0.004	0.1	0.0001	0.0000	OK
720 minute summer	9	375	4.228	0.013	0.3	0.0002	0.0000	OK
720 minute summer	10	375	3.956	0.306	0.1	0.0487	0.0000	FLOOD RISK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
720 minute summer	1	1.000	2	0.3	0.387	0.080	0.0205	
720 minute summer	2	1.001	3	0.5	0.507	0.022	0.0309	
720 minute summer	3	1.002	4	1.1	0.141	0.123	0.0449	
720 minute summer	4	1.003	5 dummy	2.3	0.426	0.293	0.0070	14.2
720 minute summer	6 permeable paving	6.000	4	1.2	0.068	0.233	0.0987	
720 minute summer	7	2.000	2	0.0	0.000	0.000	0.0008	
720 minute summer	8	4.000	3	0.1	0.023	0.003	0.0191	
720 minute summer	9	3.000	3	0.3	0.277	0.037	0.1087	
720 minute summer	10	5.000	4	-0.1	-0.011	-0.022	0.0643	

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Results for 30 year +45% CC 720 minute winter. 2160 minute analysis at 15 minute timestep. Mass balance: 98.23%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
720 minute winter	1	315	4.867	0.017	0.2	0.0003	0.0000	OK
720 minute winter	2	345	4.759	0.009	0.4	0.0015	0.0000	OK
720 minute winter	3	390	3.947	0.197	0.9	0.0313	0.0000	SURCHARGED
720 minute winter	4	375	3.945	0.320	1.8	0.0509	0.0000	FLOOD RISK
720 minute winter	5 dummy	390	3.918	0.018	1.8	0.0000	0.0000	OK
720 minute winter	6 permeable paving	390	3.945	0.315	1.3	8.9172	0.0000	FLOOD RISK
720 minute winter	7	15	4.850	0.000	0.0	0.0000	0.0000	OK
720 minute winter	8	330	4.854	0.004	0.1	0.0001	0.0000	OK
720 minute winter	9	315	4.226	0.011	0.2	0.0002	0.0000	OK
720 minute winter	10	375	3.945	0.295	0.1	0.0469	0.0000	FLOOD RISK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
720 minute winter	1	1.000	2	0.2	0.348	0.054	0.0159	
720 minute winter	2	1.001	3	0.4	0.507	0.018	0.0307	
720 minute winter	3	1.002	4	0.9	0.116	0.101	0.0449	
720 minute winter	4	1.003	5 dummy	1.8	0.340	0.229	0.0068	19.1
720 minute winter	6 permeable paving	6.000	4	0.9	0.114	0.174	0.0987	
720 minute winter	7	2.000	2	0.0	0.000	0.000	0.0007	
720 minute winter	8	4.000	3	0.1	0.022	0.003	0.0191	
720 minute winter	9	3.000	3	0.2	0.277	0.025	0.1068	
720 minute winter	10	5.000	4	-0.1	-0.018	-0.018	0.0643	

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Results for 30 year +45% CC 960 minute summer. 2400 minute analysis at 15 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
960 minute summer	1	450	4.867	0.017	0.2	0.0003	0.0000	OK
960 minute summer	2	480	4.759	0.009	0.4	0.0015	0.0000	OK
960 minute summer	3	495	3.947	0.197	0.9	0.0313	0.0000	SURCHARGED
960 minute summer	4	495	3.945	0.320	1.8	0.0509	0.0000	FLOOD RISK
960 minute summer	5 dummy	495	3.918	0.018	1.8	0.0000	0.0000	OK
960 minute summer	6 permeable paving	495	3.945	0.315	1.3	8.9172	0.0000	FLOOD RISK
960 minute summer	7	15	4.850	0.000	0.0	0.0000	0.0000	OK
960 minute summer	8	465	4.854	0.004	0.1	0.0001	0.0000	OK
960 minute summer	9	465	4.226	0.011	0.2	0.0002	0.0000	OK
960 minute summer	10	495	3.945	0.295	0.1	0.0469	0.0000	FLOOD RISK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
960 minute summer	1	1.000	2	0.2	0.348	0.054	0.0159	
960 minute summer	2	1.001	3	0.4	0.454	0.018	0.0307	
960 minute summer	3	1.002	4	0.9	0.116	0.101	0.0449	
960 minute summer	4	1.003	5 dummy	1.8	0.340	0.229	0.0068	15.4
960 minute summer	6 permeable paving	6.000	4	0.9	0.051	0.174	0.0987	
960 minute summer	7	2.000	2	0.0	0.000	0.000	0.0007	
960 minute summer	8	4.000	3	0.1	0.022	0.003	0.0191	
960 minute summer	9	3.000	3	0.2	0.296	0.025	0.1068	
960 minute summer	10	5.000	4	-0.1	-0.011	-0.019	0.0643	

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Results for 30 year +45% CC 960 minute winter. 2400 minute analysis at 15 minute timestep. Mass balance: 99.52%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
960 minute winter	1	465	4.867	0.017	0.2	0.0003	0.0000	OK
960 minute winter	2	465	4.758	0.008	0.3	0.0013	0.0000	OK
960 minute winter	3	495	3.935	0.185	0.7	0.0294	0.0000	SURCHARGED
960 minute winter	4	495	3.934	0.309	1.4	0.0492	0.0000	FLOOD RISK
960 minute winter	5 dummy	495	3.916	0.016	1.4	0.0000	0.0000	OK
960 minute winter	6 permeable paving	495	3.934	0.304	1.0	8.9172	0.0000	FLOOD RISK
960 minute winter	7	15	4.850	0.000	0.0	0.0000	0.0000	OK
960 minute winter	8	495	4.854	0.004	0.1	0.0001	0.0000	OK
960 minute winter	9	465	4.226	0.011	0.2	0.0002	0.0000	OK
960 minute winter	10	495	3.934	0.284	0.1	0.0452	0.0000	FLOOD RISK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
960 minute winter	1	1.000	2	0.2	0.348	0.053	0.0153	
960 minute winter	2	1.001	3	0.3	0.507	0.013	0.0304	
960 minute winter	3	1.002	4	0.7	0.089	0.078	0.0449	
960 minute winter	4	1.003	5 dummy	1.4	0.270	0.178	0.0067	18.4
960 minute winter	6 permeable paving	6.000	4	0.7	0.114	0.136	0.0987	
960 minute winter	7	2.000	2	0.0	0.000	0.000	0.0006	
960 minute winter	8	4.000	3	0.1	0.022	0.003	0.0191	
960 minute winter	9	3.000	3	0.2	0.277	0.025	0.1068	
960 minute winter	10	5.000	4	-0.1	-0.018	-0.029	0.0643	

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Results for 30 year +45% CC 1440 minute summer. 2880 minute analysis at 30 minute timestep. Mass balance: 98.29%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
1440 minute summer	1	750	4.867	0.017	0.2	0.0003	0.0000	OK
1440 minute summer	2	750	4.758	0.008	0.3	0.0013	0.0000	OK
1440 minute summer	3	750	3.932	0.182	0.6	0.0289	0.0000	SURCHARGED
1440 minute summer	4	750	3.931	0.306	1.3	0.0487	0.0000	FLOOD RISK
1440 minute summer	5 dummy	750	3.915	0.015	1.3	0.0000	0.0000	OK
1440 minute summer	6 permeable paving	750	3.931	0.301	0.8	8.9172	0.0000	FLOOD RISK
1440 minute summer	7	30	4.850	0.000	0.0	0.0000	0.0000	OK
1440 minute summer	8	30	4.850	0.000	0.0	0.0000	0.0000	OK
1440 minute summer	9	750	4.226	0.011	0.2	0.0002	0.0000	OK
1440 minute summer	10	750	3.931	0.281	0.1	0.0447	0.0000	FLOOD RISK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
1440 minute summer	1	1.000	2	0.2	0.348	0.053	0.0153	
1440 minute summer	2	1.001	3	0.3	0.122	0.013	0.0304	
1440 minute summer	3	1.002	4	0.6	0.076	0.066	0.0449	
1440 minute summer	4	1.003	5 dummy	1.3	0.249	0.164	0.0067	19.0
1440 minute summer	6 permeable paving	6.000	4	0.7	0.041	0.138	0.0987	
1440 minute summer	7	2.000	2	0.0	0.000	0.000	0.0006	
1440 minute summer	8	4.000	3	0.0	0.000	0.000	0.0188	
1440 minute summer	9	3.000	3	0.2	0.112	0.025	0.1068	
1440 minute summer	10	5.000	4	-0.1	-0.011	-0.016	0.0643	

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Results for 30 year +45% CC 1440 minute winter. 2880 minute analysis at 30 minute timestep. Mass balance: 99.25%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
1440 minute winter	1	990	4.863	0.013	0.1	0.0002	0.0000	OK
1440 minute winter	2	540	4.757	0.007	0.2	0.0011	0.0000	OK
1440 minute winter	3	810	3.922	0.172	0.4	0.0274	0.0000	SURCHARGED
1440 minute winter	4	810	3.922	0.297	0.9	0.0472	0.0000	FLOOD RISK
1440 minute winter	5 dummy	810	3.913	0.013	0.9	0.0000	0.0000	OK
1440 minute winter	6 permeable paving	810	3.922	0.292	0.7	8.6102	0.0000	FLOOD RISK
1440 minute winter	7	30	4.850	0.000	0.0	0.0000	0.0000	OK
1440 minute winter	8	30	4.850	0.000	0.0	0.0000	0.0000	OK
1440 minute winter	9	510	4.223	0.008	0.1	0.0001	0.0000	OK
1440 minute winter	10	810	3.922	0.272	0.1	0.0432	0.0000	FLOOD RISK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
1440 minute winter	1	1.000	2	0.1	0.300	0.027	0.0098	
1440 minute winter	2	1.001	3	0.2	0.358	0.009	0.0301	
1440 minute winter	3	1.002	4	0.4	0.054	0.047	0.0449	
1440 minute winter	4	1.003	5 dummy	0.9	0.178	0.115	0.0065	22.0
1440 minute winter	6 permeable paving	6.000	4	0.5	0.028	0.097	0.0987	
1440 minute winter	7	2.000	2	0.0	0.000	0.000	0.0004	
1440 minute winter	8	4.000	3	0.0	0.000	0.000	0.0188	
1440 minute winter	9	3.000	3	0.1	0.288	0.012	0.1045	
1440 minute winter	10	5.000	4	0.1	0.007	0.017	0.0643	

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Results for 100 year +45% CC 15 minute summer. 1455 minute analysis at 1 minute timestep. Mass balance: 95.07%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	1	10	4.922	0.072	3.2	0.0013	0.0000	OK
15 minute summer	2	11	4.785	0.035	6.0	0.0056	0.0000	OK
15 minute summer	3	12	4.104	0.354	12.2	0.0563	0.0000	FLOOD RISK
15 minute summer	4	18	3.959	0.334	10.3	0.0532	0.0000	FLOOD RISK
15 minute summer	5 dummy	18	3.921	0.021	2.5	0.0000	0.0000	OK
15 minute summer	6 permeable paving	18	3.960	0.330	21.2	8.9172	0.0000	FLOOD RISK
15 minute summer	7	11	4.864	0.014	0.4	0.0002	0.0000	OK
15 minute summer	8	10	4.862	0.012	0.9	0.0002	0.0000	OK
15 minute summer	9	10	4.257	0.042	3.0	0.0008	0.0000	OK
15 minute summer	10	18	3.957	0.307	0.7	0.0489	0.0000	FLOOD RISK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	1	1.000	2	3.1	0.725	0.824	0.1082	
15 minute summer	2	1.001	3	5.9	0.971	0.265	0.0385	
15 minute summer	3	1.002	4	10.3	1.320	1.152	0.0449	
15 minute summer	4	1.003	5 dummy	2.5	0.454	0.314	0.0070	2.1
15 minute summer	6 permeable paving	6.000	4	-9.3	-0.526	-1.793	0.0987	
15 minute summer	7	2.000	2	0.4	0.270	0.040	0.0059	
15 minute summer	8	4.000	3	0.9	0.211	0.031	0.0201	
15 minute summer	9	3.000	3	3.0	0.466	0.365	0.1408	
15 minute summer	10	5.000	4	-0.7	-0.182	-0.201	0.0643	

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Results for 100 year +45% CC 15 minute winter. 1455 minute analysis at 1 minute timestep. Mass balance: 95.65%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	1	10	4.923	0.073	3.3	0.0013	0.0000	OK
15 minute winter	2	10	4.786	0.036	6.3	0.0057	0.0000	OK
15 minute winter	3	12	4.144	0.394	12.7	0.0626	0.0000	FLOOD RISK
15 minute winter	4	15	4.029	0.404	10.8	0.0642	0.0000	FLOOD RISK
15 minute winter	5 dummy	15	3.937	0.037	7.6	0.0000	0.0000	OK
15 minute winter	6 permeable paving	15	4.031	0.401	22.0	8.9172	0.0000	FLOOD RISK
15 minute winter	7	11	4.864	0.014	0.4	0.0002	0.0000	OK
15 minute winter	8	10	4.863	0.013	1.0	0.0002	0.0000	OK
15 minute winter	9	10	4.258	0.043	3.1	0.0008	0.0000	OK
15 minute winter	10	15	4.027	0.377	0.7	0.0599	0.0000	FLOOD RISK

Link Event	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	3.2	0.729	0.851	0.1112	
15 minute winter	2	1.001	3	6.2	1.010	0.277	0.0388	
15 minute winter	3	1.002	4	10.8	1.378	1.203	0.0449	
15 minute winter	4	1.003	5 dummy	7.6	1.233	0.971	0.0082	3.3
15 minute winter	6 permeable paving	6.000	4	-9.6	-0.547	-1.867	0.0987	
15 minute winter	7	2.000	2	0.4	0.265	0.040	0.0060	
15 minute winter	8	4.000	3	1.0	0.224	0.034	0.0202	
15 minute winter	9	3.000	3	3.1	0.479	0.377	0.1418	
15 minute winter	10	5.000	4	-0.7	-0.200	-0.227	0.0643	

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Results for 100 year +45% CC 30 minute summer. 1470 minute analysis at 1 minute timestep. Mass balance: 96.37%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
30 minute summer	1	18	4.919	0.069	2.9	0.0012	0.0000	OK
30 minute summer	2	18	4.784	0.034	5.6	0.0054	0.0000	OK
30 minute summer	3	20	4.117	0.367	11.4	0.0584	0.0000	FLOOD RISK
30 minute summer	4	22	4.048	0.423	12.0	0.0673	0.0000	FLOOD RISK
30 minute summer	5 dummy	22	3.940	0.040	8.6	0.0000	0.0000	OK
30 minute summer	6 permeable paving	22	4.050	0.420	19.9	8.9172	0.0976	FLOOD
30 minute summer	7	18	4.864	0.014	0.4	0.0002	0.0000	OK
30 minute summer	8	18	4.861	0.011	0.8	0.0002	0.0000	OK
30 minute summer	9	18	4.255	0.040	2.8	0.0007	0.0000	OK
30 minute summer	10	22	4.050	0.400	2.8	0.0636	0.0059	FLOOD

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
30 minute summer	1	1.000	2	2.9	0.711	0.769	0.1032	
30 minute summer	2	1.001	3	5.6	0.922	0.249	0.0381	
30 minute summer	3	1.002	4	9.8	1.256	1.096	0.0449	
30 minute summer	4	1.003	5 dummy	8.6	1.366	1.095	0.0084	5.6
30 minute summer	6 permeable paving	6.000	4	-8.6	-0.488	-1.665	0.0987	
30 minute summer	7	2.000	2	0.4	0.285	0.040	0.0057	
30 minute summer	8	4.000	3	0.8	0.218	0.027	0.0200	
30 minute summer	9	3.000	3	2.8	0.444	0.344	0.1391	
30 minute summer	10	5.000	4	-2.8	-0.361	-0.859	0.0643	

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Results for 100 year +45% CC 30 minute winter. 1470 minute analysis at 1 minute timestep. Mass balance: 96.77%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
30 minute winter	1	18	4.914	0.064	2.6	0.0012	0.0000	OK
30 minute winter	2	18	4.783	0.033	5.1	0.0052	0.0000	OK
30 minute winter	3	21	4.169	0.419	10.4	0.0666	0.0000	FLOOD RISK
30 minute winter	4	21	4.050	0.425	15.4	0.0676	0.0120	FLOOD
30 minute winter	5 dummy	21	3.940	0.040	8.7	0.0000	0.0000	OK
30 minute winter	6 permeable paving	21	4.050	0.420	18.4	8.9172	0.8486	FLOOD
30 minute winter	7	18	4.864	0.014	0.4	0.0002	0.0000	OK
30 minute winter	8	18	4.861	0.011	0.8	0.0002	0.0000	OK
30 minute winter	9	18	4.253	0.038	2.5	0.0007	0.0000	OK
30 minute winter	10	21	4.050	0.400	3.6	0.0636	0.0565	FLOOD

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
30 minute winter	1	1.000	2	2.6	0.694	0.693	0.0959	
30 minute winter	2	1.001	3	5.1	0.902	0.228	0.0376	
30 minute winter	3	1.002	4	9.2	1.175	1.026	0.0449	
30 minute winter	4	1.003	5 dummy	8.7	1.378	1.106	0.0084	6.7
30 minute winter	6 permeable paving	6.000	4	8.4	0.478	1.630	0.0987	
30 minute winter	7	2.000	2	0.4	0.291	0.040	0.0054	
30 minute winter	8	4.000	3	0.8	0.216	0.027	0.0200	
30 minute winter	9	3.000	3	2.5	0.422	0.307	0.1361	
30 minute winter	10	5.000	4	-3.6	-0.458	-1.090	0.0643	

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Results for 100 year +45% CC 60 minute summer. 1500 minute analysis at 1 minute timestep. Mass balance: 95.32%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute summer	1	33	4.908	0.058	2.2	0.0010	0.0000	OK
60 minute summer	2	33	4.780	0.030	4.3	0.0047	0.0000	OK
60 minute summer	3	36	4.151	0.401	8.7	0.0637	0.0000	FLOOD RISK
60 minute summer	4	36	4.049	0.424	9.5	0.0675	0.0000	FLOOD RISK
60 minute summer	5 dummy	36	3.940	0.040	8.7	0.0000	0.0000	OK
60 minute summer	6 permeable paving	35	4.050	0.420	15.2	8.9172	0.8633	FLOOD
60 minute summer	7	34	4.862	0.012	0.3	0.0002	0.0000	OK
60 minute summer	8	33	4.860	0.010	0.6	0.0002	0.0000	OK
60 minute summer	9	33	4.250	0.035	2.1	0.0006	0.0000	OK
60 minute summer	10	35	4.050	0.400	0.9	0.0636	0.0639	FLOOD

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
60 minute summer	1	1.000	2	2.2	0.665	0.586	0.0849	
60 minute summer	2	1.001	3	4.3	0.822	0.192	0.0366	
60 minute summer	3	1.002	4	7.7	0.980	0.856	0.0449	
60 minute summer	4	1.003	5 dummy	8.7	1.374	1.102	0.0084	8.4
60 minute summer	6 permeable paving	6.000	4	-6.3	-0.359	-1.223	0.0987	
60 minute summer	7	2.000	2	0.3	0.267	0.030	0.0047	
60 minute summer	8	4.000	3	0.6	0.226	0.021	0.0198	
60 minute summer	9	3.000	3	2.1	0.385	0.258	0.1319	
60 minute summer	10	5.000	4	-0.9	-0.119	-0.271	0.0643	

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Results for 100 year +45% CC 60 minute winter. 1500 minute analysis at 1 minute timestep. Mass balance: 97.39%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute winter	1	34	4.902	0.052	1.8	0.0009	0.0000	OK
60 minute winter	2	34	4.776	0.026	3.4	0.0042	0.0000	OK
60 minute winter	3	36	4.140	0.390	7.0	0.0620	0.0000	FLOOD RISK
60 minute winter	4	35	4.049	0.424	11.6	0.0675	0.0000	FLOOD RISK
60 minute winter	5 dummy	35	3.940	0.040	8.7	0.0000	0.0000	OK
60 minute winter	6 permeable paving	34	4.050	0.420	12.3	8.9172	1.3506	FLOOD
60 minute winter	7	32	4.860	0.010	0.2	0.0002	0.0000	OK
60 minute winter	8	31	4.859	0.009	0.5	0.0002	0.0000	OK
60 minute winter	9	34	4.246	0.031	1.7	0.0006	0.0000	OK
60 minute winter	10	34	4.050	0.400	2.7	0.0636	0.0304	FLOOD

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
60 minute winter	1	1.000	2	1.8	0.636	0.481	0.0733	
60 minute winter	2	1.001	3	3.4	0.806	0.152	0.0355	
60 minute winter	3	1.002	4	6.6	0.838	0.731	0.0449	
60 minute winter	4	1.003	5 dummy	8.7	1.373	1.102	0.0084	10.8
60 minute winter	6 permeable paving	6.000	4	7.0	0.397	1.354	0.0987	
60 minute winter	7	2.000	2	0.2	0.246	0.020	0.0039	
60 minute winter	8	4.000	3	0.5	0.203	0.017	0.0197	
60 minute winter	9	3.000	3	1.7	0.397	0.209	0.1275	
60 minute winter	10	5.000	4	-2.7	-0.341	-0.812	0.0643	

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Results for 100 year +45% CC 120 minute summer. 1560 minute analysis at 2 minute timestep. Mass balance: 97.58%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
120 minute summer	1	64	4.895	0.045	1.4	0.0008	0.0000	OK
120 minute summer	2	64	4.774	0.024	2.7	0.0037	0.0000	OK
120 minute summer	3	66	4.107	0.357	5.6	0.0567	0.0000	FLOOD RISK
120 minute summer	4	64	4.048	0.423	9.0	0.0672	0.0000	FLOOD RISK
120 minute summer	5 dummy	66	3.940	0.040	8.6	0.0000	0.0000	OK
120 minute summer	6 permeable paving	64	4.050	0.420	9.0	8.9172	0.4715	FLOOD
120 minute summer	7	66	4.860	0.010	0.2	0.0002	0.0000	OK
120 minute summer	8	62	4.858	0.008	0.4	0.0001	0.0000	OK
120 minute summer	9	64	4.243	0.028	1.4	0.0005	0.0000	OK
120 minute summer	10	64	4.049	0.399	0.3	0.0635	0.0000	FLOOD RISK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
120 minute summer	1	1.000	2	1.4	0.591	0.374	0.0615	
120 minute summer	2	1.001	3	2.7	0.654	0.121	0.0345	
120 minute summer	3	1.002	4	5.3	0.678	0.592	0.0449	
120 minute summer	4	1.003	5 dummy	8.6	1.361	1.090	0.0084	12.9
120 minute summer	6 permeable paving	6.000	4	4.6	0.262	0.893	0.0987	
120 minute summer	7	2.000	2	0.2	0.252	0.020	0.0034	
120 minute summer	8	4.000	3	0.4	0.197	0.014	0.0196	
120 minute summer	9	3.000	3	1.4	0.312	0.172	0.1241	
120 minute summer	10	5.000	4	-0.3	-0.073	-0.101	0.0643	

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Results for 100 year +45% CC 120 minute winter. 1560 minute analysis at 2 minute timestep. Mass balance: 97.84%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
120 minute winter	1	66	4.890	0.040	1.1	0.0007	0.0000	OK
120 minute winter	2	66	4.771	0.021	2.1	0.0033	0.0000	OK
120 minute winter	3	66	4.082	0.332	4.2	0.0528	0.0000	SURCHARGED
120 minute winter	4	66	4.045	0.420	8.5	0.0668	0.0000	FLOOD RISK
120 minute winter	5 dummy	66	3.940	0.040	8.4	0.0000	0.0000	OK
120 minute winter	6 permeable paving	66	4.049	0.419	6.8	8.9172	0.0000	FLOOD RISK
120 minute winter	7	48	4.857	0.007	0.1	0.0001	0.0000	OK
120 minute winter	8	58	4.857	0.007	0.3	0.0001	0.0000	OK
120 minute winter	9	64	4.239	0.024	1.0	0.0004	0.0000	OK
120 minute winter	10	66	4.045	0.395	0.2	0.0628	0.0000	FLOOD RISK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
120 minute winter	1	1.000	2	1.1	0.554	0.294	0.0518	
120 minute winter	2	1.001	3	2.1	0.676	0.094	0.0337	
120 minute winter	3	1.002	4	4.2	0.533	0.465	0.0449	
120 minute winter	4	1.003	5 dummy	8.4	1.346	1.075	0.0083	16.4
120 minute winter	6 permeable paving	6.000	4	4.4	0.247	0.844	0.0987	
120 minute winter	7	2.000	2	0.1	0.242	0.010	0.0027	
120 minute winter	8	4.000	3	0.3	0.190	0.010	0.0194	
120 minute winter	9	3.000	3	1.0	0.319	0.123	0.1191	
120 minute winter	10	5.000	4	-0.2	-0.078	-0.059	0.0643	

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Results for 100 year +45% CC 180 minute summer. 1620 minute analysis at 4 minute timestep. Mass balance: 97.79%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
180 minute summer	1	96	4.890	0.040	1.1	0.0007	0.0000	OK
180 minute summer	2	96	4.770	0.020	2.0	0.0032	0.0000	OK
180 minute summer	3	96	4.073	0.323	4.1	0.0514	0.0000	SURCHARGED
180 minute summer	4	96	4.040	0.415	8.2	0.0659	0.0000	FLOOD RISK
180 minute summer	5 dummy	96	3.939	0.039	8.2	0.0000	0.0000	OK
180 minute summer	6 permeable paving	96	4.044	0.414	5.6	8.9172	0.0000	FLOOD RISK
180 minute summer	7	88	4.857	0.007	0.1	0.0001	0.0000	OK
180 minute summer	8	92	4.857	0.007	0.3	0.0001	0.0000	OK
180 minute summer	9	96	4.239	0.024	1.0	0.0004	0.0000	OK
180 minute summer	10	96	4.040	0.390	0.4	0.0619	0.0000	FLOOD RISK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
180 minute summer	1	1.000	2	1.1	0.559	0.294	0.0514	
180 minute summer	2	1.001	3	2.0	0.526	0.090	0.0335	
180 minute summer	3	1.002	4	4.0	0.510	0.446	0.0449	
180 minute summer	4	1.003	5 dummy	8.2	1.308	1.040	0.0083	16.1
180 minute summer	6 permeable paving	6.000	4	4.3	0.241	0.824	0.0987	
180 minute summer	7	2.000	2	0.1	0.216	0.010	0.0026	
180 minute summer	8	4.000	3	0.3	0.183	0.010	0.0194	
180 minute summer	9	3.000	3	1.0	0.280	0.123	0.1191	
180 minute summer	10	5.000	4	-0.4	-0.074	-0.110	0.0643	

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Results for 100 year +45% CC 180 minute winter. 1620 minute analysis at 4 minute timestep. Mass balance: 98.03%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
180 minute winter	1	100	4.884	0.034	0.8	0.0006	0.0000	OK
180 minute winter	2	96	4.768	0.018	1.6	0.0029	0.0000	OK
180 minute winter	3	96	4.028	0.278	3.2	0.0442	0.0000	SURCHARGED
180 minute winter	4	96	4.006	0.381	6.5	0.0606	0.0000	FLOOD RISK
180 minute winter	5 dummy	96	3.934	0.034	6.5	0.0000	0.0000	OK
180 minute winter	6 permeable paving	96	4.009	0.379	4.7	8.9172	0.0000	FLOOD RISK
180 minute winter	7	76	4.857	0.007	0.1	0.0001	0.0000	OK
180 minute winter	8	76	4.856	0.006	0.2	0.0001	0.0000	OK
180 minute winter	9	96	4.236	0.021	0.8	0.0004	0.0000	OK
180 minute winter	10	96	4.006	0.356	0.1	0.0567	0.0000	FLOOD RISK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
180 minute winter	1	1.000	2	0.8	0.506	0.214	0.0417	
180 minute winter	2	1.001	3	1.6	0.550	0.072	0.0329	
180 minute winter	3	1.002	4	3.2	0.408	0.356	0.0449	
180 minute winter	4	1.003	5 dummy	6.5	1.071	0.825	0.0079	18.9
180 minute winter	6 permeable paving	6.000	4	3.3	0.187	0.639	0.0987	
180 minute winter	7	2.000	2	0.1	0.238	0.010	0.0023	
180 minute winter	8	4.000	3	0.2	0.183	0.007	0.0193	
180 minute winter	9	3.000	3	0.8	0.441	0.098	0.1165	
180 minute winter	10	5.000	4	-0.1	-0.052	-0.040	0.0643	

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Results for 100 year +45% CC 240 minute summer. 1680 minute analysis at 4 minute timestep. Mass balance: 97.97%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
240 minute summer	1	124	4.885	0.035	0.9	0.0006	0.0000	OK
240 minute summer	2	124	4.769	0.019	1.7	0.0030	0.0000	OK
240 minute summer	3	124	4.036	0.286	3.5	0.0454	0.0000	SURCHARGED
240 minute summer	4	124	4.012	0.387	6.9	0.0615	0.0000	FLOOD RISK
240 minute summer	5 dummy	124	3.935	0.035	6.8	0.0000	0.0000	OK
240 minute summer	6 permeable paving	124	4.015	0.385	4.4	8.9172	0.0000	FLOOD RISK
240 minute summer	7	112	4.857	0.007	0.1	0.0001	0.0000	OK
240 minute summer	8	124	4.857	0.007	0.3	0.0001	0.0000	OK
240 minute summer	9	128	4.236	0.021	0.8	0.0004	0.0000	OK
240 minute summer	10	124	4.012	0.362	0.1	0.0576	0.0000	FLOOD RISK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
240 minute summer	1	1.000	2	0.9	0.519	0.235	0.0443	
240 minute summer	2	1.001	3	1.7	0.519	0.075	0.0330	
240 minute summer	3	1.002	4	3.3	0.426	0.372	0.0449	
240 minute summer	4	1.003	5 dummy	6.8	1.114	0.863	0.0080	17.9
240 minute summer	6 permeable paving	6.000	4	3.5	0.201	0.687	0.0987	
240 minute summer	7	2.000	2	0.1	0.238	0.010	0.0024	
240 minute summer	8	4.000	3	0.3	0.150	0.010	0.0194	
240 minute summer	9	3.000	3	0.8	0.220	0.098	0.1165	
240 minute summer	10	5.000	4	-0.1	-0.068	-0.039	0.0643	

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Results for 100 year +45% CC 240 minute winter. 1680 minute analysis at 4 minute timestep. Mass balance: 98.19%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
240 minute winter	1	128	4.881	0.031	0.7	0.0006	0.0000	OK
240 minute winter	2	128	4.766	0.016	1.3	0.0026	0.0000	OK
240 minute winter	3	124	3.998	0.248	2.6	0.0395	0.0000	SURCHARGED
240 minute winter	4	124	3.984	0.359	5.3	0.0571	0.0000	FLOOD RISK
240 minute winter	5 dummy	124	3.931	0.031	5.3	0.0000	0.0000	OK
240 minute winter	6 permeable paving	124	3.986	0.356	3.6	8.9172	0.0000	FLOOD RISK
240 minute winter	7	104	4.857	0.007	0.1	0.0001	0.0000	OK
240 minute winter	8	108	4.856	0.006	0.2	0.0001	0.0000	OK
240 minute winter	9	124	4.233	0.018	0.6	0.0003	0.0000	OK
240 minute winter	10	124	3.984	0.334	0.1	0.0531	0.0000	FLOOD RISK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
240 minute winter	1	1.000	2	0.7	0.488	0.187	0.0376	
240 minute winter	2	1.001	3	1.3	0.563	0.058	0.0324	
240 minute winter	3	1.002	4	2.6	0.334	0.291	0.0449	
240 minute winter	4	1.003	5 dummy	5.3	0.893	0.669	0.0077	21.4
240 minute winter	6 permeable paving	6.000	4	2.7	0.153	0.521	0.0987	
240 minute winter	7	2.000	2	0.1	0.242	0.010	0.0021	
240 minute winter	8	4.000	3	0.2	0.171	0.007	0.0193	
240 minute winter	9	3.000	3	0.6	0.293	0.074	0.1136	
240 minute winter	10	5.000	4	-0.1	-0.072	-0.029	0.0643	

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Results for 100 year +45% CC 360 minute summer. 1800 minute analysis at 8 minute timestep. Mass balance: 98.18%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
360 minute summer	1	184	4.881	0.031	0.7	0.0006	0.0000	OK
360 minute summer	2	184	4.766	0.016	1.3	0.0026	0.0000	OK
360 minute summer	3	184	3.996	0.246	2.6	0.0391	0.0000	SURCHARGED
360 minute summer	4	184	3.982	0.357	5.2	0.0568	0.0000	FLOOD RISK
360 minute summer	5 dummy	184	3.930	0.030	5.1	0.0000	0.0000	OK
360 minute summer	6 permeable paving	184	3.984	0.354	2.8	8.9172	0.0000	FLOOD RISK
360 minute summer	7	168	4.857	0.007	0.1	0.0001	0.0000	OK
360 minute summer	8	184	4.856	0.006	0.2	0.0001	0.0000	OK
360 minute summer	9	184	4.233	0.018	0.6	0.0003	0.0000	OK
360 minute summer	10	184	3.982	0.332	0.1	0.0528	0.0000	FLOOD RISK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
360 minute summer	1	1.000	2	0.7	0.485	0.184	0.0372	
360 minute summer	2	1.001	3	1.3	0.519	0.058	0.0324	
360 minute summer	3	1.002	4	2.5	0.322	0.281	0.0449	
360 minute summer	4	1.003	5 dummy	5.1	0.876	0.655	0.0077	20.7
360 minute summer	6 permeable paving	6.000	4	2.7	0.152	0.518	0.0987	
360 minute summer	7	2.000	2	0.1	0.241	0.010	0.0020	
360 minute summer	8	4.000	3	0.2	0.043	0.007	0.0193	
360 minute summer	9	3.000	3	0.6	0.290	0.073	0.1135	
360 minute summer	10	5.000	4	0.1	-0.030	0.025	0.0643	

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Results for 100 year +45% CC 360 minute winter. 1800 minute analysis at 8 minute timestep. Mass balance: 98.39%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
360 minute winter	1	192	4.876	0.026	0.5	0.0005	0.0000	OK
360 minute winter	2	192	4.764	0.014	1.0	0.0023	0.0000	OK
360 minute winter	3	184	3.982	0.232	2.0	0.0368	0.0000	SURCHARGED
360 minute winter	4	184	3.973	0.348	4.0	0.0554	0.0000	FLOOD RISK
360 minute winter	5 dummy	184	3.927	0.027	4.0	0.0000	0.0000	OK
360 minute winter	6 permeable paving	184	3.974	0.344	2.3	8.9172	0.0000	FLOOD RISK
360 minute winter	7	160	4.857	0.007	0.1	0.0001	0.0000	OK
360 minute winter	8	120	4.854	0.004	0.1	0.0001	0.0000	OK
360 minute winter	9	184	4.232	0.017	0.5	0.0003	0.0000	OK
360 minute winter	10	184	3.973	0.323	0.1	0.0514	0.0000	FLOOD RISK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
360 minute winter	1	1.000	2	0.5	0.436	0.134	0.0300	
360 minute winter	2	1.001	3	1.0	0.473	0.045	0.0319	
360 minute winter	3	1.002	4	2.0	0.256	0.223	0.0449	
360 minute winter	4	1.003	5 dummy	4.0	0.701	0.509	0.0074	24.6
360 minute winter	6 permeable paving	6.000	4	2.0	0.136	0.387	0.0987	
360 minute winter	7	2.000	2	0.1	0.243	0.010	0.0018	
360 minute winter	8	4.000	3	0.1	0.068	0.003	0.0191	
360 minute winter	9	3.000	3	0.5	0.211	0.061	0.1121	
360 minute winter	10	5.000	4	0.1	-0.047	0.026	0.0643	

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Results for 100 year +45% CC 480 minute summer. 1920 minute analysis at 8 minute timestep. Mass balance: 98.23%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
480 minute summer	1	248	4.876	0.026	0.5	0.0005	0.0000	OK
480 minute summer	2	248	4.764	0.014	1.0	0.0023	0.0000	OK
480 minute summer	3	240	3.982	0.232	2.1	0.0370	0.0000	SURCHARGED
480 minute summer	4	240	3.973	0.348	4.2	0.0554	0.0000	FLOOD RISK
480 minute summer	5 dummy	240	3.927	0.027	4.2	0.0000	0.0000	OK
480 minute summer	6 permeable paving	240	3.974	0.344	2.1	8.9172	0.0000	FLOOD RISK
480 minute summer	7	240	4.857	0.007	0.1	0.0001	0.0000	OK
480 minute summer	8	248	4.856	0.006	0.2	0.0001	0.0000	OK
480 minute summer	9	248	4.232	0.017	0.5	0.0003	0.0000	OK
480 minute summer	10	240	3.973	0.323	0.3	0.0514	0.0000	FLOOD RISK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
480 minute summer	1	1.000	2	0.5	0.436	0.134	0.0300	
480 minute summer	2	1.001	3	1.0	0.519	0.045	0.0319	
480 minute summer	3	1.002	4	2.2	0.280	0.245	0.0449	
480 minute summer	4	1.003	5 dummy	4.2	0.731	0.533	0.0074	21.9
480 minute summer	6 permeable paving	6.000	4	2.1	0.119	0.407	0.0987	
480 minute summer	7	2.000	2	0.1	0.241	0.010	0.0018	
480 minute summer	8	4.000	3	0.2	0.043	0.007	0.0193	
480 minute summer	9	3.000	3	0.5	0.284	0.061	0.1121	
480 minute summer	10	5.000	4	-0.3	-0.036	-0.086	0.0643	

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Results for 100 year +45% CC 480 minute winter. 1920 minute analysis at 8 minute timestep. Mass balance: 98.54%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
480 minute winter	1	264	4.874	0.024	0.4	0.0004	0.0000	OK
480 minute winter	2	240	4.763	0.013	0.8	0.0021	0.0000	OK
480 minute winter	3	248	3.975	0.225	1.6	0.0357	0.0000	SURCHARGED
480 minute winter	4	248	3.969	0.344	3.2	0.0547	0.0000	FLOOD RISK
480 minute winter	5 dummy	248	3.924	0.024	3.2	0.0000	0.0000	OK
480 minute winter	6 permeable paving	248	3.970	0.340	1.7	8.9172	0.0000	FLOOD RISK
480 minute winter	7	248	4.857	0.007	0.1	0.0001	0.0000	OK
480 minute winter	8	168	4.854	0.004	0.1	0.0001	0.0000	OK
480 minute winter	9	240	4.230	0.015	0.4	0.0003	0.0000	OK
480 minute winter	10	248	3.969	0.319	0.1	0.0508	0.0000	FLOOD RISK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
480 minute winter	1	1.000	2	0.4	0.416	0.107	0.0257	
480 minute winter	2	1.001	3	0.8	0.519	0.036	0.0315	
480 minute winter	3	1.002	4	1.6	0.205	0.179	0.0449	
480 minute winter	4	1.003	5 dummy	3.2	0.575	0.407	0.0072	27.3
480 minute winter	6 permeable paving	6.000	4	1.6	0.100	0.310	0.0987	
480 minute winter	7	2.000	2	0.1	0.243	0.010	0.0016	
480 minute winter	8	4.000	3	0.1	0.030	0.003	0.0191	
480 minute winter	9	3.000	3	0.4	0.369	0.049	0.1104	
480 minute winter	10	5.000	4	-0.1	-0.026	-0.018	0.0643	

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Results for 100 year +45% CC 600 minute summer. 2040 minute analysis at 15 minute timestep. Mass balance: 98.14%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
600 minute summer	1	315	4.874	0.024	0.4	0.0004	0.0000	OK
600 minute summer	2	315	4.763	0.013	0.8	0.0021	0.0000	OK
600 minute summer	3	315	3.976	0.226	1.6	0.0359	0.0000	SURCHARGED
600 minute summer	4	315	3.970	0.345	3.3	0.0549	0.0000	FLOOD RISK
600 minute summer	5 dummy	315	3.924	0.024	3.3	0.0000	0.0000	OK
600 minute summer	6 permeable paving	315	3.971	0.341	1.7	8.9172	0.0000	FLOOD RISK
600 minute summer	7	315	4.857	0.007	0.1	0.0001	0.0000	OK
600 minute summer	8	270	4.854	0.004	0.1	0.0001	0.0000	OK
600 minute summer	9	315	4.230	0.015	0.4	0.0003	0.0000	OK
600 minute summer	10	315	3.970	0.320	0.1	0.0509	0.0000	FLOOD RISK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
600 minute summer	1	1.000	2	0.4	0.408	0.107	0.0257	
600 minute summer	2	1.001	3	0.8	0.518	0.036	0.0315	
600 minute summer	3	1.002	4	1.6	0.205	0.179	0.0449	
600 minute summer	4	1.003	5 dummy	3.3	0.591	0.420	0.0072	23.0
600 minute summer	6 permeable paving	6.000	4	1.7	0.097	0.329	0.0987	
600 minute summer	7	2.000	2	0.1	0.243	0.010	0.0016	
600 minute summer	8	4.000	3	0.1	0.022	0.003	0.0191	
600 minute summer	9	3.000	3	0.4	0.284	0.049	0.1104	
600 minute summer	10	5.000	4	-0.1	-0.025	-0.018	0.0643	

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Results for 100 year +45% CC 600 minute winter. 2040 minute analysis at 15 minute timestep. Mass balance: 98.60%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
600 minute winter	1	270	4.871	0.021	0.3	0.0004	0.0000	OK
600 minute winter	2	315	4.761	0.011	0.6	0.0018	0.0000	OK
600 minute winter	3	315	3.963	0.213	1.2	0.0339	0.0000	SURCHARGED
600 minute winter	4	315	3.960	0.335	2.5	0.0533	0.0000	FLOOD RISK
600 minute winter	5 dummy	315	3.921	0.021	2.5	0.0000	0.0000	OK
600 minute winter	6 permeable paving	315	3.960	0.330	1.6	8.9172	0.0000	FLOOD RISK
600 minute winter	7	15	4.850	0.000	0.0	0.0000	0.0000	OK
600 minute winter	8	240	4.854	0.004	0.1	0.0001	0.0000	OK
600 minute winter	9	285	4.228	0.013	0.3	0.0002	0.0000	OK
600 minute winter	10	315	3.960	0.310	0.0	0.0493	0.0000	FLOOD RISK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
600 minute winter	1	1.000	2	0.3	0.387	0.080	0.0210	
600 minute winter	2	1.001	3	0.6	0.518	0.027	0.0311	
600 minute winter	3	1.002	4	1.2	0.153	0.134	0.0449	
600 minute winter	4	1.003	5 dummy	2.5	0.460	0.318	0.0070	26.4
600 minute winter	6 permeable paving	6.000	4	1.3	0.074	0.252	0.0987	
600 minute winter	7	2.000	2	0.0	0.000	0.000	0.0009	
600 minute winter	8	4.000	3	0.1	0.022	0.003	0.0191	
600 minute winter	9	3.000	3	0.3	0.296	0.037	0.1087	
600 minute winter	10	5.000	4	0.1	-0.015	0.016	0.0643	

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Results for 100 year +45% CC 720 minute summer. 2160 minute analysis at 15 minute timestep. Mass balance: 98.60%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
720 minute summer	1	375	4.874	0.024	0.4	0.0004	0.0000	OK
720 minute summer	2	375	4.762	0.012	0.7	0.0019	0.0000	OK
720 minute summer	3	375	3.972	0.222	1.5	0.0353	0.0000	SURCHARGED
720 minute summer	4	375	3.967	0.342	3.0	0.0544	0.0000	FLOOD RISK
720 minute summer	5 dummy	375	3.923	0.023	3.0	0.0000	0.0000	OK
720 minute summer	6 permeable paving	375	3.968	0.338	1.5	8.9172	0.0000	FLOOD RISK
720 minute summer	7	15	4.850	0.000	0.0	0.0000	0.0000	OK
720 minute summer	8	315	4.854	0.004	0.1	0.0001	0.0000	OK
720 minute summer	9	375	4.230	0.015	0.4	0.0003	0.0000	OK
720 minute summer	10	375	3.967	0.317	0.1	0.0504	0.0000	FLOOD RISK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
720 minute summer	1	1.000	2	0.4	0.418	0.107	0.0252	
720 minute summer	2	1.001	3	0.7	0.507	0.031	0.0313	
720 minute summer	3	1.002	4	1.5	0.192	0.167	0.0449	
720 minute summer	4	1.003	5 dummy	3.0	0.542	0.382	0.0072	22.7
720 minute summer	6 permeable paving	6.000	4	1.5	0.085	0.291	0.0987	
720 minute summer	7	2.000	2	0.0	0.000	0.000	0.0010	
720 minute summer	8	4.000	3	0.1	0.026	0.003	0.0191	
720 minute summer	9	3.000	3	0.4	0.284	0.049	0.1104	
720 minute summer	10	5.000	4	0.1	-0.011	0.020	0.0643	

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Results for 100 year +45% CC 720 minute winter. 2160 minute analysis at 15 minute timestep. Mass balance: 98.52%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
720 minute winter	1	345	4.871	0.021	0.3	0.0004	0.0000	OK
720 minute winter	2	345	4.760	0.010	0.5	0.0017	0.0000	OK
720 minute winter	3	390	3.957	0.207	1.1	0.0329	0.0000	SURCHARGED
720 minute winter	4	375	3.955	0.330	2.2	0.0524	0.0000	FLOOD RISK
720 minute winter	5 dummy	375	3.920	0.020	2.2	0.0000	0.0000	OK
720 minute winter	6 permeable paving	375	3.955	0.325	1.4	8.9172	0.0000	FLOOD RISK
720 minute winter	7	15	4.850	0.000	0.0	0.0000	0.0000	OK
720 minute winter	8	300	4.854	0.004	0.1	0.0001	0.0000	OK
720 minute winter	9	360	4.228	0.013	0.3	0.0002	0.0000	OK
720 minute winter	10	375	3.955	0.305	0.0	0.0484	0.0000	FLOOD RISK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
720 minute winter	1	1.000	2	0.3	0.387	0.080	0.0205	
720 minute winter	2	1.001	3	0.5	0.518	0.022	0.0309	
720 minute winter	3	1.002	4	1.1	0.141	0.123	0.0449	
720 minute winter	4	1.003	5 dummy	2.2	0.409	0.280	0.0069	27.9
720 minute winter	6 permeable paving	6.000	4	1.1	0.114	0.216	0.0987	
720 minute winter	7	2.000	2	0.0	0.000	0.000	0.0008	
720 minute winter	8	4.000	3	0.1	0.022	0.003	0.0191	
720 minute winter	9	3.000	3	0.3	0.284	0.037	0.1087	
720 minute winter	10	5.000	4	0.1	-0.023	0.029	0.0643	

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Results for 100 year +45% CC 960 minute summer. 2400 minute analysis at 15 minute timestep. Mass balance: 99.55%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
960 minute summer	1	480	4.871	0.021	0.3	0.0004	0.0000	OK
960 minute summer	2	480	4.760	0.010	0.5	0.0017	0.0000	OK
960 minute summer	3	495	3.959	0.209	1.1	0.0332	0.0000	SURCHARGED
960 minute summer	4	495	3.956	0.331	2.3	0.0527	0.0000	FLOOD RISK
960 minute summer	5 dummy	495	3.920	0.020	2.3	0.0000	0.0000	OK
960 minute summer	6 permeable paving	495	3.957	0.327	1.2	8.9172	0.0000	FLOOD RISK
960 minute summer	7	15	4.850	0.000	0.0	0.0000	0.0000	OK
960 minute summer	8	435	4.854	0.004	0.1	0.0001	0.0000	OK
960 minute summer	9	480	4.228	0.013	0.3	0.0002	0.0000	OK
960 minute summer	10	495	3.956	0.306	0.0	0.0487	0.0000	FLOOD RISK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
960 minute summer	1	1.000	2	0.3	0.387	0.080	0.0205	
960 minute summer	2	1.001	3	0.5	0.454	0.022	0.0309	
960 minute summer	3	1.002	4	1.1	0.141	0.123	0.0449	
960 minute summer	4	1.003	5 dummy	2.3	0.426	0.293	0.0070	24.0
960 minute summer	6 permeable paving	6.000	4	1.2	0.068	0.233	0.0987	
960 minute summer	7	2.000	2	0.0	0.000	0.000	0.0008	
960 minute summer	8	4.000	3	0.1	0.022	0.003	0.0191	
960 minute summer	9	3.000	3	0.3	0.296	0.037	0.1087	
960 minute summer	10	5.000	4	0.1	-0.011	0.017	0.0643	

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Results for 100 year +45% CC 960 minute winter. 2400 minute analysis at 15 minute timestep. Mass balance: 98.65%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
960 minute winter	1	420	4.867	0.017	0.2	0.0003	0.0000	OK
960 minute winter	2	450	4.759	0.009	0.4	0.0015	0.0000	OK
960 minute winter	3	495	3.947	0.197	0.9	0.0313	0.0000	SURCHARGED
960 minute winter	4	495	3.945	0.320	1.8	0.0509	0.0000	FLOOD RISK
960 minute winter	5 dummy	495	3.918	0.018	1.8	0.0000	0.0000	OK
960 minute winter	6 permeable paving	495	3.945	0.315	0.9	8.9172	0.0000	FLOOD RISK
960 minute winter	7	15	4.850	0.000	0.0	0.0000	0.0000	OK
960 minute winter	8	420	4.854	0.004	0.1	0.0001	0.0000	OK
960 minute winter	9	405	4.226	0.011	0.2	0.0002	0.0000	OK
960 minute winter	10	495	3.945	0.295	0.0	0.0469	0.0000	FLOOD RISK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
960 minute winter	1	1.000	2	0.2	0.348	0.054	0.0159	
960 minute winter	2	1.001	3	0.4	0.518	0.018	0.0307	
960 minute winter	3	1.002	4	0.9	0.116	0.101	0.0449	
960 minute winter	4	1.003	5 dummy	1.8	0.340	0.229	0.0068	28.7
960 minute winter	6 permeable paving	6.000	4	0.9	0.114	0.174	0.0987	
960 minute winter	7	2.000	2	0.0	0.000	0.000	0.0007	
960 minute winter	8	4.000	3	0.1	0.022	0.003	0.0191	
960 minute winter	9	3.000	3	0.2	0.277	0.025	0.1068	
960 minute winter	10	5.000	4	0.1	-0.018	0.016	0.0643	

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Results for 100 year +45% CC 1440 minute summer. 2880 minute analysis at 30 minute timestep. Mass balance: 99.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
1440 minute summer	1	780	4.867	0.017	0.2	0.0003	0.0000	OK
1440 minute summer	2	750	4.759	0.009	0.4	0.0015	0.0000	OK
1440 minute summer	3	750	3.944	0.194	0.9	0.0308	0.0000	SURCHARGED
1440 minute summer	4	750	3.942	0.317	1.7	0.0504	0.0000	FLOOD RISK
1440 minute summer	5 dummy	750	3.917	0.017	1.7	0.0000	0.0000	OK
1440 minute summer	6 permeable paving	750	3.942	0.312	0.8	8.9172	0.0000	FLOOD RISK
1440 minute summer	7	30	4.850	0.000	0.0	0.0000	0.0000	OK
1440 minute summer	8	720	4.854	0.004	0.1	0.0001	0.0000	OK
1440 minute summer	9	720	4.226	0.011	0.2	0.0002	0.0000	OK
1440 minute summer	10	750	3.942	0.292	0.0	0.0465	0.0000	FLOOD RISK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
1440 minute summer	1	1.000	2	0.2	0.348	0.054	0.0159	
1440 minute summer	2	1.001	3	0.4	0.228	0.018	0.0307	
1440 minute summer	3	1.002	4	0.9	0.115	0.100	0.0449	
1440 minute summer	4	1.003	5 dummy	1.7	0.323	0.216	0.0068	24.6
1440 minute summer	6 permeable paving	6.000	4	0.8	0.045	0.155	0.0987	
1440 minute summer	7	2.000	2	0.0	0.000	0.000	0.0007	
1440 minute summer	8	4.000	3	0.1	0.022	0.003	0.0191	
1440 minute summer	9	3.000	3	0.2	0.087	0.025	0.1068	
1440 minute summer	10	5.000	4	0.1	-0.011	0.018	0.0643	

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Results for 100 year +45% CC 1440 minute winter. 2880 minute analysis at 30 minute timestep. Mass balance: 99.47%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
1440 minute winter	1	720	4.867	0.017	0.2	0.0003	0.0000	OK
1440 minute winter	2	720	4.758	0.008	0.3	0.0013	0.0000	OK
1440 minute winter	3	750	3.930	0.180	0.6	0.0286	0.0000	SURCHARGED
1440 minute winter	4	750	3.929	0.304	1.2	0.0483	0.0000	FLOOD RISK
1440 minute winter	5 dummy	750	3.915	0.015	1.2	0.0000	0.0000	OK
1440 minute winter	6 permeable paving	750	3.929	0.299	0.7	8.8612	0.0000	FLOOD RISK
1440 minute winter	7	30	4.850	0.000	0.0	0.0000	0.0000	OK
1440 minute winter	8	30	4.850	0.000	0.0	0.0000	0.0000	OK
1440 minute winter	9	750	4.226	0.011	0.2	0.0002	0.0000	OK
1440 minute winter	10	750	3.929	0.279	0.1	0.0443	0.0000	FLOOD RISK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
1440 minute winter	1	1.000	2	0.2	0.348	0.053	0.0153	
1440 minute winter	2	1.001	3	0.3	0.495	0.013	0.0304	
1440 minute winter	3	1.002	4	0.6	0.077	0.067	0.0449	
1440 minute winter	4	1.003	5 dummy	1.2	0.232	0.152	0.0066	28.2
1440 minute winter	6 permeable paving	6.000	4	0.6	0.037	0.125	0.0987	
1440 minute winter	7	2.000	2	0.0	0.000	0.000	0.0006	
1440 minute winter	8	4.000	3	0.0	0.000	0.000	0.0188	
1440 minute winter	9	3.000	3	0.2	0.276	0.025	0.1068	
1440 minute winter	10	5.000	4	-0.1	-0.010	-0.025	0.0643	

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