

**Design Settings**

Rainfall Methodology	FSR	Maximum Time of Concentration (mins)	30.00
Return Period (years)	100	Maximum Rainfall (mm/hr)	50.0
Additional Flow (%)	0	Minimum Velocity (m/s)	1.00
FSR Region	England and Wales	Connection Type	Level Soffits
M5-60 (mm)	20.000	Minimum Backdrop Height (m)	0.200
Ratio-R	0.344	Preferred Cover Depth (m)	1.200
CV	0.750	Include Intermediate Ground	✓
Time of Entry (mins)	8.00	Enforce best practice design rules	✓

Nodes

Name	Area (ha)	Cover Level (m)	Diameter (mm)	Easting (m)	Northing (m)	Depth (m)
1	0.006	126.850	1200	45.697	54.829	1.751
2	0.010	126.435	1200	14.576	52.773	1.439
3		126.180	1200	-1.382	59.854	1.270

Links

Name	US Node	DS Node	Length (m)	ks (mm) / n	US IL (m)	DS IL (m)	Fall (m)	Slope (1:X)	Dia (mm)	Rain (mm/hr)
1.000	1	2	31.189	0.600	125.099	124.996	0.103	302.8	375	50.0
1.001	2	3	17.458	0.600	124.996	124.910	0.086	203.0	150	50.0

Name	Vel (m/s)	Cap (l/s)	Flow (l/s)	US Depth (m)	DS Depth (m)	Σ Area (ha)	Σ Add Inflow (l/s)	Pro Depth (mm)	Pro Velocity (m/s)
1.000	1.036	114.4	0.8	1.376	1.064	0.006	0.0	22	0.294
1.001	0.701	12.4	2.1	1.289	1.120	0.016	0.0	42	0.524

Pipeline Schedule

Link	Length (m)	Slope (1:X)	Dia (mm)	Link Type	US CL (m)	US IL (m)	US Depth (m)	DS CL (m)	DS IL (m)	DS Depth (m)
1.000	31.189	302.8	375	Circular	126.850	125.099	1.376	126.435	124.996	1.064
1.001	17.458	203.0	150	Circular	126.435	124.996	1.289	126.180	124.910	1.120

Link	US Node	Dia (mm)	Node Type	MH Type	DS Node	Dia (mm)	Node Type	MH Type
1.000	1	1200	Manhole	Private	2	1200	Manhole	Private
1.001	2	1200	Manhole	Private	3	1200	Manhole	Private

Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)
1	45.697	54.829	126.850	1.751	1200				
						0	1.000	125.099	375
2	14.576	52.773	126.435	1.439	1200		1	1.000	124.996
						0	1.001	124.996	150

**Manhole Schedule**

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)
3	-1.382	59.854	126.180	1.270	1200	1 	1.001	124.910	150

Simulation Settings

Rainfall Methodology	FSR	Analysis Speed	Normal
Rainfall Events	Singular	Skip Steady State	x
FSR Region	England and Wales	Drain Down Time (mins)	240
M5-60 (mm)	20.000	Additional Storage (m ³ /ha)	20.0
Ratio-R	0.344	Starting Level (m)	
Summer CV	1.000	Check Discharge Rate(s)	x
Winter CV	1.000	Check Discharge Volume	x

Storm Durations

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

Return Period (years)	Climate Change (CC %)	Additional Area (A %)	Additional Flow (Q %)
1	0	0	0
30	35	0	0
100	40	0	0

Node 2 Online Hydro-Brake® Control

Flap Valve	x	Objective	(HE) Minimise upstream storage
Replaces Downstream Link	x	Sump Available	✓
Invert Level (m)	124.996	Product Number	CTL-SHE-0041-8000-1100-8000
Design Depth (m)	1.100	Min Outlet Diameter (m)	0.075
Design Flow (l/s)	0.8	Min Node Diameter (mm)	1200

**Results for 1 year Critical Storm Duration. Lowest mass balance: 100.00%**

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute summer	1	43	125.148	0.049	0.9	0.0582	0.0000	OK
60 minute summer	2	44	125.147	0.151	1.7	0.1925	0.0000	SURCHARGED
60 minute summer	3	44	124.931	0.021	0.6	0.0000	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
60 minute summer	1	1.000	2	0.7	0.075	0.006	0.7639	
60 minute summer	2	1.001	3	0.6	0.368	0.047	0.0276	2.0

**Results for 30 year +35% CC Critical Storm Duration. Lowest mass balance: 100.00%**

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m ³)	Flood (m ³)	Status
120 minute winter	1	96	125.610	0.511	1.7	0.6101	0.0000	SURCHARGED
120 minute winter	2	96	125.610	0.614	2.2	0.7811	0.0000	SURCHARGED
120 minute winter	3	98	124.932	0.022	0.6	0.0000	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
120 minute winter	1	1.000	2	-0.9	0.063	-0.007	3.4401	
120 minute winter	2	1.001	3	0.6	0.373	0.049	0.0285	8.2

**Results for 100 year +40% CC Critical Storm Duration. Lowest mass balance: 100.00%**

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m ³)	Flood (m ³)	Status
120 minute winter	1	96	126.427	1.328	2.3	1.5870	0.0000	SURCHARGED
120 minute winter	2	96	126.427	1.431	2.5	1.8217	0.0000	FLOOD RISK
120 minute winter	3	96	124.937	0.027	0.9	0.0000	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
120 minute winter	1	1.000	2	-1.0	0.071	-0.008	3.4401	
120 minute winter	2	1.001	3	0.9	0.413	0.072	0.0378	10.9

**Results for 1 year 15 minute summer. 255 minute analysis at 1 minute timestep. Mass balance: 100.00%**

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m ³)	Flood (m ³)	Status
15 minute summer	1	18	125.133	0.034	1.0	0.0407	0.0000	OK
15 minute summer	2	17	125.133	0.137	2.0	0.1742	0.0000	OK
15 minute summer	3	17	124.931	0.021	0.6	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
15 minute summer	1	1.000	2	0.7	0.083	0.006	0.6312	
15 minute summer	2	1.001	3	0.6	0.366	0.046	0.0273	1.2

**Results for 1 year 15 minute winter. 255 minute analysis at 1 minute timestep. Mass balance: 100.00%**

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m ³)	Flood (m ³)	Status
15 minute winter	1	18	125.132	0.033	0.9	0.0398	0.0000	OK
15 minute winter	2	17	125.132	0.136	2.0	0.1736	0.0000	OK
15 minute winter	3	18	124.931	0.021	0.6	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
15 minute winter	1	1.000	2	0.7	0.088	0.006	0.6252	
15 minute winter	2	1.001	3	0.6	0.366	0.046	0.0273	1.2

**Results for 1 year 30 minute summer. 270 minute analysis at 1 minute timestep. Mass balance: 100.00%**

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m ³)	Flood (m ³)	Status
30 minute summer	1	26	125.146	0.047	1.1	0.0556	0.0000	OK
30 minute summer	2	25	125.145	0.149	2.0	0.1897	0.0000	OK
30 minute summer	3	28	124.931	0.021	0.6	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
30 minute summer	1	1.000	2	0.7	0.077	0.007	0.7435	
30 minute summer	2	1.001	3	0.6	0.368	0.047	0.0276	1.6

**Results for 1 year 30 minute winter. 270 minute analysis at 1 minute timestep. Mass balance: 100.00%**

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m ³)	Flood (m ³)	Status
30 minute winter	1	29	125.142	0.042	0.7	0.0507	0.0000	OK
30 minute winter	2	28	125.141	0.145	1.8	0.1851	0.0000	OK
30 minute winter	3	28	124.931	0.021	0.6	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
30 minute winter	1	1.000	2	0.6	0.077	0.005	0.7144	
30 minute winter	2	1.001	3	0.6	0.367	0.047	0.0275	1.6

**Results for 1 year 60 minute summer. 300 minute analysis at 1 minute timestep. Mass balance: 100.00%**

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m ³)	Flood (m ³)	Status
60 minute summer	1	43	125.148	0.049	0.9	0.0582	0.0000	OK
60 minute summer	2	44	125.147	0.151	1.7	0.1925	0.0000	SURCHARGED
60 minute summer	3	44	124.931	0.021	0.6	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
60 minute summer	1	1.000	2	0.7	0.075	0.006	0.7639	
60 minute summer	2	1.001	3	0.6	0.368	0.047	0.0276	2.0

**Results for 1 year 60 minute winter. 300 minute analysis at 1 minute timestep. Mass balance: 100.00%**

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m ³)	Flood (m ³)	Status
60 minute winter	1	46	125.141	0.042	0.7	0.0503	0.0000	OK
60 minute winter	2	45	125.141	0.145	1.4	0.1842	0.0000	OK
60 minute winter	3	45	124.931	0.021	0.6	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
60 minute winter	1	1.000	2	0.6	0.075	0.005	0.7091	
60 minute winter	2	1.001	3	0.6	0.367	0.047	0.0275	2.0

**Results for 1 year 120 minute summer. 360 minute analysis at 2 minute timestep. Mass balance: 100.00%**

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m ³)	Flood (m ³)	Status
120 minute summer	1	74	125.134	0.035	0.4	0.0419	0.0000	OK
120 minute summer	2	78	125.134	0.138	1.2	0.1754	0.0000	OK
120 minute summer	3	76	124.931	0.021	0.6	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
120 minute summer	1	1.000	2	0.4	0.044	0.004	0.6477	
120 minute summer	2	1.001	3	0.6	0.366	0.046	0.0274	2.5

**Results for 1 year 120 minute winter. 360 minute analysis at 2 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
120 minute winter	1	76	125.125	0.026	0.3	0.0315	0.0000	OK
120 minute winter	2	78	125.126	0.130	0.9	0.1650	0.0000	OK
120 minute winter	3	78	124.931	0.021	0.6	0.0000	0.0000	OK

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	0.3	0.056	0.003	0.5782	
120 minute winter	2	1.001	3	0.6	0.365	0.046	0.0271	2.6

**Results for 1 year 180 minute summer. 420 minute analysis at 4 minute timestep. Mass balance: 100.00%**

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m ³)	Flood (m ³)	Status
180 minute summer	1	112	125.123	0.024	0.4	0.0290	0.0000	OK
180 minute summer	2	108	125.123	0.127	1.0	0.1622	0.0000	OK
180 minute summer	3	108	124.931	0.021	0.6	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
180 minute summer	1	1.000	2	0.4	0.040	0.003	0.5581	
180 minute summer	2	1.001	3	0.6	0.365	0.046	0.0271	2.9

**Results for 1 year 180 minute winter. 420 minute analysis at 4 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
180 minute winter	1	100	125.111	0.012	0.2	0.0142	0.0000	OK
180 minute winter	2	112	125.096	0.100	0.6	0.1273	0.0000	OK
180 minute winter	3	112	124.930	0.020	0.5	0.0000	0.0000	OK

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	0.2	0.040	0.002	0.3826	
180 minute winter	2	1.001	3	0.5	0.358	0.043	0.0260	2.8

**Results for 1 year 240 minute summer. 480 minute analysis at 4 minute timestep. Mass balance: 100.00%**

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m ³)	Flood (m ³)	Status
240 minute summer	1	140	125.117	0.018	0.3	0.0215	0.0000	OK
240 minute summer	2	136	125.117	0.121	0.9	0.1543	0.0000	OK
240 minute summer	3	136	124.931	0.021	0.6	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
240 minute summer	1	1.000	2	0.3	0.040	0.003	0.5087	
240 minute summer	2	1.001	3	0.6	0.364	0.045	0.0269	3.2

**Results for 1 year 240 minute winter. 480 minute analysis at 4 minute timestep. Mass balance: 100.00%**

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m ³)	Flood (m ³)	Status
240 minute winter	1	132	125.111	0.012	0.2	0.0142	0.0000	OK
240 minute winter	2	136	125.090	0.094	0.6	0.1195	0.0000	OK
240 minute winter	3	136	124.930	0.020	0.5	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
240 minute winter	1	1.000	2	0.2	0.040	0.002	0.3514	
240 minute winter	2	1.001	3	0.5	0.356	0.042	0.0256	3.3

**Results for 1 year 360 minute summer. 600 minute analysis at 8 minute timestep. Mass balance: 100.00%**

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m ³)	Flood (m ³)	Status
360 minute summer	1	192	125.111	0.012	0.2	0.0142	0.0000	OK
360 minute summer	2	200	125.091	0.095	0.6	0.1213	0.0000	OK
360 minute summer	3	200	124.930	0.020	0.5	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
360 minute summer	1	1.000	2	0.2	0.039	0.002	0.3586	
360 minute summer	2	1.001	3	0.5	0.356	0.042	0.0257	3.3

**Results for 1 year 360 minute winter. 600 minute analysis at 8 minute timestep. Mass balance: 100.00%**

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m ³)	Flood (m ³)	Status
360 minute winter	1	184	125.110	0.011	0.2	0.0134	0.0000	OK
360 minute winter	2	192	125.067	0.071	0.5	0.0904	0.0000	OK
360 minute winter	3	192	124.928	0.018	0.4	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
360 minute winter	1	1.000	2	0.2	0.039	0.002	0.2367	
360 minute winter	2	1.001	3	0.4	0.337	0.034	0.0219	3.3

**Results for 1 year 480 minute summer. 720 minute analysis at 8 minute timestep. Mass balance: 100.00%**

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m ³)	Flood (m ³)	Status
480 minute summer	1	256	125.111	0.012	0.2	0.0142	0.0000	OK
480 minute summer	2	256	125.076	0.080	0.5	0.1016	0.0000	OK
480 minute summer	3	256	124.929	0.019	0.5	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
480 minute summer	1	1.000	2	0.2	0.039	0.002	0.2822	
480 minute summer	2	1.001	3	0.5	0.347	0.038	0.0238	3.4

**Results for 1 year 480 minute winter. 720 minute analysis at 8 minute timestep. Mass balance: 100.00%**

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m ³)	Flood (m ³)	Status
480 minute winter	1	200	125.108	0.009	0.1	0.0105	0.0000	OK
480 minute winter	2	296	125.049	0.053	0.3	0.0675	0.0000	OK
480 minute winter	3	296	124.925	0.015	0.3	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
480 minute winter	1	1.000	2	0.1	0.039	0.001	0.1575	
480 minute winter	2	1.001	3	0.3	0.306	0.024	0.0171	3.3

**Results for 1 year 600 minute summer. 840 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 (m ³)	Flood (m ³)	Status
600 minute summer	1	315	125.111	0.012	0.2	0.0142	0.0000	OK
600 minute summer	2	315	125.072	0.076	0.5	0.0972	0.0000	OK
600 minute summer	3	315	124.929	0.019	0.5	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
600 minute summer	1	1.000	2	0.2	0.036	0.002	0.2657	
600 minute summer	2	1.001	3	0.5	0.343	0.036	0.0230	3.2

**Results for 1 year 600 minute winter. 840 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 (m ³)	Flood (m ³)	Status
600 minute winter	1	255	125.108	0.009	0.1	0.0105	0.0000	OK
600 minute winter	2	360	125.049	0.053	0.3	0.0675	0.0000	OK
600 minute winter	3	360	124.925	0.015	0.3	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
600 minute winter	1	1.000	2	0.1	0.036	0.001	0.1575	
600 minute winter	2	1.001	3	0.3	0.306	0.024	0.0171	3.8

**Results for 1 year 720 minute summer. 960 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 (m ³)	Flood (m ³)	Status
720 minute summer	1	330	125.108	0.009	0.1	0.0105	0.0000	OK
720 minute summer	2	375	125.061	0.065	0.4	0.0822	0.0000	OK
720 minute summer	3	375	124.927	0.017	0.4	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
720 minute summer	1	1.000	2	0.1	0.036	0.001	0.2062	
720 minute summer	2	1.001	3	0.4	0.328	0.031	0.0203	3.4

**Results for 1 year 720 minute winter. 960 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
720 minute winter	1	315	125.108	0.009	0.1	0.0105	0.0000	OK
720 minute winter	2	405	125.049	0.053	0.3	0.0675	0.0000	OK
720 minute winter	3	405	124.925	0.015	0.3	0.0000	0.0000	OK

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	0.036	0.001	0.1575	
720 minute winter	2	1.001	3	0.3	0.306	0.024	0.0171	3.8

**Results for 1 year 960 minute summer. 1200 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 (m ³)	Flood (m ³)	Status
960 minute summer	1	450	125.108	0.009	0.1	0.0105	0.0000	OK
960 minute summer	2	525	125.049	0.053	0.3	0.0675	0.0000	OK
960 minute summer	3	525	124.925	0.015	0.3	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
960 minute summer	1	1.000	2	0.1	0.036	0.001	0.1575	
960 minute summer	2	1.001	3	0.3	0.306	0.024	0.0171	3.4

**Results for 1 year 960 minute winter. 1200 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 (m ³)	Flood (m ³)	Status
960 minute winter	1	420	125.108	0.009	0.1	0.0105	0.0000	OK
960 minute winter	2	525	125.037	0.041	0.2	0.0517	0.0000	OK
960 minute winter	3	525	124.922	0.012	0.2	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
960 minute winter	1	1.000	2	0.1	0.036	0.001	0.1092	
960 minute winter	2	1.001	3	0.2	0.273	0.016	0.0128	3.8

**Results for 1 year 1440 minute summer. 1680 minute analysis at 30 minute timestep. Mass balance: 100.00%**

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m ³)	Flood (m ³)	Status
1440 minute summer	1	690	125.108	0.009	0.1	0.0105	0.0000	OK
1440 minute summer	2	750	125.049	0.053	0.3	0.0672	0.0000	OK
1440 minute summer	3	750	124.925	0.015	0.3	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
1440 minute summer	1	1.000	2	0.1	0.036	0.001	0.1566	
1440 minute summer	2	1.001	3	0.3	0.306	0.024	0.0170	4.0

**Results for 1 year 1440 minute winter. 1680 minute analysis at 30 minute timestep. Mass balance: 100.00%**

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m ³)	Flood (m ³)	Status
1440 minute winter	1	720	125.108	0.009	0.1	0.0105	0.0000	OK
1440 minute winter	2	810	125.037	0.041	0.2	0.0517	0.0000	OK
1440 minute winter	3	810	124.922	0.012	0.2	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
1440 minute winter	1	1.000	2	0.1	0.036	0.001	0.1092	
1440 minute winter	2	1.001	3	0.2	0.273	0.016	0.0128	4.0

**Results for 30 year +35% CC 15 minute summer. 255 minute analysis at 1 minute timestep. Mass balance: 100.00%**

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m ³)	Flood (m ³)	Status
15 minute summer	1	22	125.319	0.220	4.9	0.2634	0.0000	OK
15 minute summer	2	19	125.322	0.325	6.1	0.4143	0.0000	SURCHARGED
15 minute summer	3	69	124.931	0.021	0.6	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
15 minute summer	1	1.000	2	-2.8	0.099	-0.025	2.6071	
15 minute summer	2	1.001	3	0.6	0.370	0.048	0.0280	3.8

**Results for 30 year +35% CC 15 minute winter. 255 minute analysis at 1 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
15 minute winter	1	22	125.318	0.219	4.4	0.2622	0.0000	OK
15 minute winter	2	19	125.321	0.325	5.6	0.4134	0.0000	SURCHARGED
15 minute winter	3	68	124.931	0.021	0.6	0.0000	0.0000	OK

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	-2.8	0.101	-0.024	2.6016	
15 minute winter	2	1.001	3	0.6	0.370	0.048	0.0280	3.8

**Results for 30 year +35% CC 30 minute summer. 270 minute analysis at 1 minute timestep. Mass balance: 100.00%**

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m ³)	Flood (m ³)	Status
30 minute summer	1	33	125.408	0.309	4.2	0.3694	0.0000	OK
30 minute summer	2	34	125.410	0.414	5.0	0.5266	0.0000	SURCHARGED
30 minute summer	3	112	124.931	0.021	0.6	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
30 minute summer	1	1.000	2	-1.8	0.079	-0.016	3.2355	
30 minute summer	2	1.001	3	0.6	0.370	0.048	0.0280	5.1

**Results for 30 year +35% CC 30 minute winter. 270 minute analysis at 1 minute timestep. Mass balance: 100.00%**

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m ³)	Flood (m ³)	Status
30 minute winter	1	35	125.409	0.310	4.0	0.3708	0.0000	OK
30 minute winter	2	33	125.410	0.414	4.7	0.5271	0.0000	SURCHARGED
30 minute winter	3	112	124.931	0.021	0.6	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
30 minute winter	1	1.000	2	-2.0	0.090	-0.017	3.2409	
30 minute winter	2	1.001	3	0.6	0.370	0.048	0.0280	5.1

**Results for 30 year +35% CC 60 minute summer. 300 minute analysis at 1 minute timestep. Mass balance: 100.00%**

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m ³)	Flood (m ³)	Status
60 minute summer	1	61	125.581	0.482	3.3	0.5761	0.0000	SURCHARGED
60 minute summer	2	61	125.581	0.585	3.8	0.7448	0.0000	SURCHARGED
60 minute summer	3	61	124.932	0.022	0.6	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
60 minute summer	1	1.000	2	-1.4	0.097	-0.013	3.4401	
60 minute summer	2	1.001	3	0.6	0.371	0.048	0.0281	6.6

**Results for 30 year +35% CC 60 minute winter. 300 minute analysis at 1 minute timestep. Mass balance: 100.00%**

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m ³)	Flood (m ³)	Status
60 minute winter	1	60	125.593	0.494	2.8	0.5907	0.0000	SURCHARGED
60 minute winter	2	60	125.593	0.597	3.3	0.7603	0.0000	SURCHARGED
60 minute winter	3	61	124.932	0.022	0.6	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
60 minute winter	1	1.000	2	-1.5	0.072	-0.013	3.4401	
60 minute winter	2	1.001	3	0.6	0.372	0.049	0.0283	6.5

**Results for 30 year +35% CC 120 minute summer. 360 minute analysis at 2 minute timestep. Mass balance: 100.00%**

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m ³)	Flood (m ³)	Status
120 minute summer	1	90	125.593	0.494	2.0	0.5901	0.0000	SURCHARGED
120 minute summer	2	90	125.593	0.597	2.7	0.7597	0.0000	SURCHARGED
120 minute summer	3	92	124.932	0.022	0.6	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
120 minute summer	1	1.000	2	-0.9	0.073	-0.008	3.4401	
120 minute summer	2	1.001	3	0.6	0.372	0.049	0.0283	8.1

**Results for 30 year +35% CC 120 minute winter. 360 minute analysis at 2 minute timestep. Mass balance: 100.00%**

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m ³)	Flood (m ³)	Status
120 minute winter	1	96	125.610	0.511	1.7	0.6101	0.0000	SURCHARGED
120 minute winter	2	96	125.610	0.614	2.2	0.7811	0.0000	SURCHARGED
120 minute winter	3	98	124.932	0.022	0.6	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
120 minute winter	1	1.000	2	-0.9	0.063	-0.007	3.4401	
120 minute winter	2	1.001	3	0.6	0.373	0.049	0.0285	8.2

**Results for 30 year +35% CC 180 minute summer. 420 minute analysis at 4 minute timestep. Mass balance: 100.00%**

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m ³)	Flood (m ³)	Status
180 minute summer	1	128	125.571	0.472	1.7	0.5636	0.0000	SURCHARGED
180 minute summer	2	128	125.571	0.575	2.0	0.7315	0.0000	SURCHARGED
180 minute summer	3	128	124.931	0.021	0.6	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
180 minute summer	1	1.000	2	-0.6	0.047	-0.005	3.4401	
180 minute summer	2	1.001	3	0.6	0.370	0.048	0.0280	9.1

**Results for 30 year +35% CC 180 minute winter. 420 minute analysis at 4 minute timestep. Mass balance: 100.00%**

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m ³)	Flood (m ³)	Status
180 minute winter	1	136	125.511	0.412	1.0	0.4921	0.0000	SURCHARGED
180 minute winter	2	136	125.511	0.515	1.7	0.6553	0.0000	SURCHARGED
180 minute winter	3	256	124.931	0.021	0.6	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
180 minute winter	1	1.000	2	-0.5	0.100	-0.004	3.4401	
180 minute winter	2	1.001	3	0.6	0.370	0.048	0.0280	9.0

**Results for 30 year +35% CC 240 minute summer. 480 minute analysis at 4 minute timestep. Mass balance: 100.00%**

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m ³)	Flood (m ³)	Status
240 minute summer	1	168	125.480	0.381	1.2	0.4557	0.0000	SURCHARGED
240 minute summer	2	168	125.480	0.484	1.7	0.6166	0.0000	SURCHARGED
240 minute summer	3	300	124.931	0.021	0.6	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
240 minute summer	1	1.000	2	-0.4	0.069	-0.004	3.4401	
240 minute summer	2	1.001	3	0.6	0.370	0.048	0.0280	9.9

**Results for 30 year +35% CC 240 minute winter. 480 minute analysis at 4 minute timestep. Mass balance: 100.00%**

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m ³)	Flood (m ³)	Status
240 minute winter	1	180	125.420	0.321	0.8	0.3840	0.0000	OK
240 minute winter	2	180	125.420	0.424	1.3	0.5402	0.0000	SURCHARGED
240 minute winter	3	296	124.931	0.021	0.6	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
240 minute winter	1	1.000	2	0.3	0.061	0.003	3.2881	
240 minute winter	2	1.001	3	0.6	0.370	0.048	0.0280	9.8

**Results for 30 year +35% CC 360 minute summer. 600 minute analysis at 8 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
360 minute summer	1	240	125.396	0.297	0.7	0.3553	0.0000	OK
360 minute summer	2	240	125.396	0.400	1.3	0.5095	0.0000	SURCHARGED
360 minute summer	3	368	124.931	0.021	0.6	0.0000	0.0000	OK

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	0.067	0.003	3.1816	
360 minute summer	2	1.001	3	0.6	0.370	0.048	0.0279	11.2

**Results for 30 year +35% CC 360 minute winter. 600 minute analysis at 8 minute timestep. Mass balance: 100.00%**

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m ³)	Flood (m ³)	Status
360 minute winter	1	248	125.322	0.223	0.5	0.2663	0.0000	OK
360 minute winter	2	248	125.322	0.326	0.9	0.4150	0.0000	SURCHARGED
360 minute winter	3	344	124.931	0.021	0.6	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
360 minute winter	1	1.000	2	0.3	0.044	0.003	2.6506	
360 minute winter	2	1.001	3	0.6	0.370	0.048	0.0280	10.9

**Results for 30 year +35% CC 480 minute summer. 720 minute analysis at 8 minute timestep. Mass balance: 100.00%**

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m ³)	Flood (m ³)	Status
480 minute summer	1	296	125.330	0.231	0.5	0.2760	0.0000	OK
480 minute summer	2	296	125.330	0.334	1.0	0.4250	0.0000	SURCHARGED
480 minute summer	3	400	124.931	0.021	0.6	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
480 minute summer	1	1.000	2	0.3	0.040	0.003	2.7269	
480 minute summer	2	1.001	3	0.6	0.370	0.048	0.0280	12.0

**Results for 30 year +35% CC 480 minute winter. 720 minute analysis at 8 minute timestep. Mass balance: 100.00%**

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m ³)	Flood (m ³)	Status
480 minute winter	1	312	125.266	0.167	0.4	0.1999	0.0000	OK
480 minute winter	2	312	125.266	0.270	0.9	0.3436	0.0000	SURCHARGED
480 minute winter	3	248	124.931	0.021	0.6	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
480 minute winter	1	1.000	2	0.3	0.041	0.003	2.0653	
480 minute winter	2	1.001	3	0.6	0.370	0.048	0.0280	12.0

**Results for 30 year +35% CC 600 minute summer. 840 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 (m ³)	Flood (m ³)	Status
600 minute summer	1	360	125.287	0.188	0.4	0.2251	0.0000	OK
600 minute summer	2	360	125.288	0.292	1.0	0.3712	0.0000	SURCHARGED
600 minute summer	3	450	124.931	0.021	0.6	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
600 minute summer	1	1.000	2	0.3	0.036	0.003	2.2979	
600 minute summer	2	1.001	3	0.6	0.370	0.048	0.0280	12.4

**Results for 30 year +35% CC 600 minute winter. 840 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 (m ³)	Flood (m ³)	Status
600 minute winter	1	375	125.213	0.114	0.3	0.1367	0.0000	OK
600 minute winter	2	375	125.213	0.217	0.8	0.2764	0.0000	SURCHARGED
600 minute winter	3	345	124.931	0.021	0.6	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
600 minute winter	1	1.000	2	0.3	0.037	0.003	1.4741	
600 minute winter	2	1.001	3	0.6	0.370	0.048	0.0280	12.8

**Results for 30 year +35% CC 720 minute summer. 960 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 (m ³)	Flood (m ³)	Status
720 minute summer	1	420	125.248	0.149	0.4	0.1781	0.0000	OK
720 minute summer	2	420	125.248	0.252	1.0	0.3203	0.0000	SURCHARGED
720 minute summer	3	480	124.931	0.021	0.6	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
720 minute summer	1	1.000	2	0.3	0.036	0.003	1.8616	
720 minute summer	2	1.001	3	0.6	0.370	0.048	0.0280	12.9

**Results for 30 year +35% CC 720 minute winter. 960 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 (m ³)	Flood (m ³)	Status
720 minute winter	1	435	125.177	0.078	0.3	0.0937	0.0000	OK
720 minute winter	2	435	125.177	0.181	0.7	0.2307	0.0000	SURCHARGED
720 minute winter	3	435	124.931	0.021	0.6	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
720 minute winter	1	1.000	2	0.3	0.036	0.002	1.0822	
720 minute winter	2	1.001	3	0.6	0.370	0.048	0.0279	13.0

**Results for 30 year +35% CC 960 minute summer. 1200 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 (m ³)	Flood (m ³)	Status
960 minute summer	1	540	125.198	0.099	0.3	0.1185	0.0000	OK
960 minute summer	2	540	125.198	0.202	0.8	0.2572	0.0000	SURCHARGED
960 minute summer	3	525	124.931	0.021	0.6	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
960 minute summer	1	1.000	2	0.2	0.036	0.002	1.3063	
960 minute summer	2	1.001	3	0.6	0.370	0.048	0.0280	14.2

**Results for 30 year +35% CC 960 minute winter. 1200 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 winter	1	540	125.125	0.026	0.2	0.0310	0.0000	OK
960 minute winter	2	540	125.125	0.129	0.6	0.1641	0.0000	OK
960 minute winter	3	540	124.931	0.021	0.6	0.0000	0.0000	OK

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	0.036	0.002	0.5735	
960 minute winter	2	1.001	3	0.6	0.365	0.046	0.0271	13.9

**Results for 30 year +35% CC 1440 minute summer. 1680 minute analysis at 30 minute timestep. Mass balance: 100.00%**

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m ³)	Flood (m ³)	Status
1440 minute summer	1	780	125.123	0.024	0.2	0.0284	0.0000	OK
1440 minute summer	2	780	125.123	0.127	0.6	0.1613	0.0000	OK
1440 minute summer	3	780	124.931	0.021	0.6	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
1440 minute summer	1	1.000	2	0.2	0.036	0.002	0.5553	
1440 minute summer	2	1.001	3	0.6	0.365	0.046	0.0271	13.7

**Results for 30 year +35% CC 1440 minute winter. 1680 minute analysis at 30 minute timestep. Mass balance: 100.00%**

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m ³)	Flood (m ³)	Status
1440 minute winter	1	720	125.111	0.012	0.2	0.0142	0.0000	OK
1440 minute winter	2	780	125.082	0.086	0.5	0.1097	0.0000	OK
1440 minute winter	3	780	124.930	0.020	0.5	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
1440 minute winter	1	1.000	2	0.2	0.036	0.002	0.3130	
1440 minute winter	2	1.001	3	0.5	0.351	0.040	0.0248	15.5

**Results for 100 year +40% CC 15 minute summer. 255 minute analysis at 1 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
15 minute summer	1	21	125.512	0.413	7.0	0.4930	0.0000	SURCHARGED
15 minute summer	2	21	125.511	0.515	7.9	0.6555	0.0000	SURCHARGED
15 minute summer	3	111	124.931	0.021	0.6	0.0000	0.0000	OK

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	-3.9	0.099	-0.034	3.4401	
15 minute summer	2	1.001	3	0.6	0.370	0.048	0.0280	5.2

**Results for 100 year +40% CC 15 minute winter. 255 minute analysis at 1 minute timestep. Mass balance: 100.00%**

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m ³)	Flood (m ³)	Status
15 minute winter	1	21	125.510	0.411	6.2	0.4914	0.0000	SURCHARGED
15 minute winter	2	21	125.511	0.515	7.3	0.6550	0.0000	SURCHARGED
15 minute winter	3	110	124.931	0.021	0.6	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
15 minute winter	1	1.000	2	-3.1	0.103	-0.027	3.4401	
15 minute winter	2	1.001	3	0.6	0.370	0.048	0.0280	5.2

**Results for 100 year +40% CC 30 minute summer. 270 minute analysis at 1 minute timestep. Mass balance: 100.00%**

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m ³)	Flood (m ³)	Status
30 minute summer	1	33	126.023	0.924	5.4	1.1039	0.0000	SURCHARGED
30 minute summer	2	33	126.023	1.027	6.1	1.3071	0.0000	SURCHARGED
30 minute summer	3	34	124.935	0.024	0.8	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
30 minute summer	1	1.000	2	-2.8	0.089	-0.025	3.4401	
30 minute summer	2	1.001	3	0.8	0.397	0.062	0.0338	7.0

**Results for 100 year +40% CC 30 minute winter. 270 minute analysis at 1 minute timestep. Mass balance: 100.00%**

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m ³)	Flood (m ³)	Status
30 minute winter	1	33	126.040	0.941	6.0	1.1242	0.0000	SURCHARGED
30 minute winter	2	33	126.040	1.044	5.6	1.3287	0.0000	SURCHARGED
30 minute winter	3	34	124.935	0.025	0.8	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
30 minute winter	1	1.000	2	-3.6	0.097	-0.031	3.4401	
30 minute winter	2	1.001	3	0.8	0.398	0.062	0.0340	7.0

**Results for 100 year +40% CC 60 minute summer. 300 minute analysis at 1 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
60 minute summer	1	60	126.343	1.244	4.7	1.4864	0.0000	SURCHARGED
60 minute summer	2	60	126.343	1.347	4.9	1.7145	0.0000	FLOOD RISK
60 minute summer	3	61	124.936	0.026	0.9	0.0000	0.0000	OK

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	0.074	-0.019	3.4401	
60 minute summer	2	1.001	3	0.9	0.410	0.070	0.0370	8.9

**Results for 100 year +40% CC 60 minute winter. 300 minute analysis at 1 minute timestep. Mass balance: 100.00%**

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m ³)	Flood (m ³)	Status
60 minute winter	1	59	126.370	1.271	3.9	1.5192	0.0000	SURCHARGED
60 minute winter	2	59	126.370	1.374	3.8	1.7495	0.0000	FLOOD RISK
60 minute winter	3	60	124.936	0.026	0.9	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
60 minute winter	1	1.000	2	-1.9	0.067	-0.017	3.4401	
60 minute winter	2	1.001	3	0.9	0.411	0.071	0.0373	8.9

**Results for 100 year +40% CC 120 minute summer. 360 minute analysis at 2 minute timestep. Mass balance: 100.00%**

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m ³)	Flood (m ³)	Status
120 minute summer	1	92	126.414	1.315	3.1	1.5715	0.0000	SURCHARGED
120 minute summer	2	92	126.414	1.418	3.5	1.8052	0.0000	FLOOD RISK
120 minute summer	3	92	124.937	0.027	0.9	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
120 minute summer	1	1.000	2	-1.2	0.066	-0.010	3.4401	
120 minute summer	2	1.001	3	0.9	0.412	0.072	0.0376	11.0

**Results for 100 year +40% CC 120 minute winter. 360 minute analysis at 2 minute timestep. Mass balance: 100.00%**

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m ³)	Flood (m ³)	Status
120 minute winter	1	96	126.427	1.328	2.3	1.5870	0.0000	SURCHARGED
120 minute winter	2	96	126.427	1.431	2.5	1.8217	0.0000	FLOOD RISK
120 minute winter	3	96	124.937	0.027	0.9	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
120 minute winter	1	1.000	2	-1.0	0.071	-0.008	3.4401	
120 minute winter	2	1.001	3	0.9	0.413	0.072	0.0378	10.9

**Results for 100 year +40% CC 180 minute summer. 420 minute analysis at 4 minute timestep. Mass balance: 100.00%**

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m ³)	Flood (m ³)	Status
180 minute summer	1	124	126.381	1.282	2.3	1.5322	0.0000	SURCHARGED
180 minute summer	2	124	126.381	1.385	2.7	1.7633	0.0000	FLOOD RISK
180 minute summer	3	124	124.936	0.026	0.9	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
180 minute summer	1	1.000	2	-0.8	0.076	-0.007	3.4401	
180 minute summer	2	1.001	3	0.9	0.411	0.071	0.0374	12.4

**Results for 100 year +40% CC 180 minute winter. 420 minute analysis at 4 minute timestep. Mass balance: 100.00%**

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m ³)	Flood (m ³)	Status
180 minute winter	1	132	126.304	1.205	1.7	1.4396	0.0000	SURCHARGED
180 minute winter	2	132	126.304	1.308	1.9	1.6646	0.0000	FLOOD RISK
180 minute winter	3	136	124.936	0.026	0.9	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
180 minute winter	1	1.000	2	-0.7	0.100	-0.006	3.4401	
180 minute winter	2	1.001	3	0.9	0.409	0.069	0.0366	12.1

**Results for 100 year +40% CC 240 minute summer. 480 minute analysis at 4 minute timestep. Mass balance: 100.00%**

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m ³)	Flood (m ³)	Status
240 minute summer	1	164	126.253	1.154	2.0	1.3793	0.0000	SURCHARGED
240 minute summer	2	164	126.253	1.257	2.2	1.6005	0.0000	FLOOD RISK
240 minute summer	3	164	124.936	0.026	0.8	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
240 minute summer	1	1.000	2	-0.9	0.076	-0.008	3.4401	
240 minute summer	2	1.001	3	0.8	0.407	0.068	0.0362	13.1

**Results for 100 year +40% CC 240 minute winter. 480 minute analysis at 4 minute timestep. Mass balance: 100.00%**

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m ³)	Flood (m ³)	Status
240 minute winter	1	172	126.196	1.097	1.1	1.3108	0.0000	SURCHARGED
240 minute winter	2	172	126.196	1.200	1.6	1.5275	0.0000	FLOOD RISK
240 minute winter	3	172	124.936	0.025	0.8	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
240 minute winter	1	1.000	2	0.4	0.043	0.003	3.4401	
240 minute winter	2	1.001	3	0.8	0.405	0.067	0.0356	13.2

**Results for 100 year +40% CC 360 minute summer. 600 minute analysis at 8 minute timestep. Mass balance: 100.00%**

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m ³)	Flood (m ³)	Status
360 minute summer	1	232	126.066	0.967	1.3	1.1558	0.0000	SURCHARGED
360 minute summer	2	232	126.066	1.070	1.7	1.3624	0.0000	SURCHARGED
360 minute summer	3	232	124.935	0.025	0.8	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
360 minute summer	1	1.000	2	-0.5	0.067	-0.004	3.4401	
360 minute summer	2	1.001	3	0.8	0.399	0.063	0.0342	14.6

**Results for 100 year +40% CC 360 minute winter. 600 minute analysis at 8 minute timestep. Mass balance: 100.00%**

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m ³)	Flood (m ³)	Status
360 minute winter	1	248	125.996	0.897	0.7	1.0713	0.0000	SURCHARGED
360 minute winter	2	248	125.996	1.000	1.2	1.2724	0.0000	SURCHARGED
360 minute winter	3	248	124.934	0.024	0.8	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
360 minute winter	1	1.000	2	0.3	0.091	0.003	3.4401	
360 minute winter	2	1.001	3	0.8	0.396	0.061	0.0335	14.7

**Results for 100 year +40% CC 480 minute summer. 720 minute analysis at 8 minute timestep. Mass balance: 100.00%**

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m ³)	Flood (m ³)	Status
480 minute summer	1	296	125.848	0.748	1.0	0.8944	0.0000	SURCHARGED
480 minute summer	2	296	125.848	0.851	1.4	1.0839	0.0000	SURCHARGED
480 minute summer	3	304	124.933	0.023	0.7	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
480 minute summer	1	1.000	2	-0.4	0.067	-0.004	3.4401	
480 minute summer	2	1.001	3	0.7	0.389	0.057	0.0317	15.6

**Results for 100 year +40% CC 480 minute winter. 720 minute analysis at 8 minute timestep. Mass balance: 100.00%**

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m ³)	Flood (m ³)	Status
480 minute winter	1	320	125.727	0.628	0.5	0.7510	0.0000	SURCHARGED
480 minute winter	2	320	125.727	0.731	1.1	0.9311	0.0000	SURCHARGED
480 minute winter	3	320	124.933	0.023	0.7	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
480 minute winter	1	1.000	2	0.3	0.044	0.003	3.4401	
480 minute winter	2	1.001	3	0.7	0.382	0.053	0.0302	16.0

**Results for 100 year +40% CC 600 minute summer. 840 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 (m ³)	Flood (m ³)	Status
600 minute summer	1	375	125.755	0.656	0.6	0.7844	0.0000	SURCHARGED
600 minute summer	2	375	125.755	0.759	1.2	0.9667	0.0000	SURCHARGED
600 minute summer	3	375	124.933	0.023	0.7	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
600 minute summer	1	1.000	2	0.3	0.044	0.003	3.4401	
600 minute summer	2	1.001	3	0.7	0.384	0.054	0.0306	17.0

**Results for 100 year +40% CC 600 minute winter. 840 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 (m ³)	Flood (m ³)	Status
600 minute winter	1	420	125.437	0.338	0.4	0.4036	0.0000	OK
600 minute winter	2	420	125.437	0.441	0.9	0.5611	0.0000	SURCHARGED
600 minute winter	3	570	124.931	0.021	0.6	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
600 minute winter	1	1.000	2	0.3	0.041	0.003	3.3509	
600 minute winter	2	1.001	3	0.6	0.370	0.048	0.0280	16.4

**Results for 100 year +40% CC 720 minute summer. 960 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 (m ³)	Flood (m ³)	Status
720 minute summer	1	450	125.565	0.466	0.5	0.5570	0.0000	SURCHARGED
720 minute summer	2	450	125.565	0.569	1.1	0.7245	0.0000	SURCHARGED
720 minute summer	3	630	124.931	0.021	0.6	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
720 minute summer	1	1.000	2	0.3	0.036	0.003	3.4401	
720 minute summer	2	1.001	3	0.6	0.370	0.048	0.0280	17.6

**Results for 100 year +40% CC 720 minute winter. 960 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 (m ³)	Flood (m ³)	Status
720 minute winter	1	465	125.315	0.216	0.4	0.2581	0.0000	OK
720 minute winter	2	465	125.315	0.319	0.8	0.4060	0.0000	SURCHARGED
720 minute winter	3	360	124.931	0.021	0.6	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
720 minute winter	1	1.000	2	0.3	0.037	0.003	2.5824	
720 minute winter	2	1.001	3	0.6	0.370	0.048	0.0280	17.3

**Results for 100 year +40% CC 960 minute summer. 1200 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 (m ³)	Flood (m ³)	Status
960 minute summer	1	585	125.367	0.268	0.4	0.3204	0.0000	OK
960 minute summer	2	585	125.367	0.371	0.9	0.4724	0.0000	SURCHARGED
960 minute summer	3	720	124.931	0.021	0.6	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
960 minute summer	1	1.000	2	0.3	0.036	0.003	3.0315	
960 minute summer	2	1.001	3	0.6	0.370	0.048	0.0280	18.3

**Results for 100 year +40% CC 960 minute winter. 1200 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 winter	1	585	125.233	0.134	0.3	0.1597	0.0000	OK
960 minute winter	2	585	125.233	0.237	0.7	0.3013	0.0000	SURCHARGED
960 minute winter	3	510	124.931	0.021	0.6	0.0000	0.0000	OK

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	0.3	0.036	0.002	1.6913	
960 minute winter	2	1.001	3	0.6	0.370	0.048	0.0280	19.1

**Results for 100 year +40% CC 1440 minute summer. 1680 minute analysis at 30 minute timestep. Mass balance: 100.00%**

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m ³)	Flood (m ³)	Status
1440 minute summer	1	810	125.254	0.155	0.3	0.1855	0.0000	OK
1440 minute summer	2	810	125.254	0.258	0.8	0.3288	0.0000	SURCHARGED
1440 minute summer	3	750	124.931	0.021	0.6	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
1440 minute summer	1	1.000	2	0.3	0.036	0.002	1.9337	
1440 minute summer	2	1.001	3	0.6	0.370	0.048	0.0280	20.5

**Results for 100 year +40% CC 1440 minute winter. 1680 minute analysis at 30 minute timestep. Mass balance: 100.00%**

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m ³)	Flood (m ³)	Status
1440 minute winter	1	780	125.124	0.025	0.2	0.0297	0.0000	OK
1440 minute winter	2	780	125.124	0.128	0.6	0.1627	0.0000	OK
1440 minute winter	3	780	124.931	0.021	0.6	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
1440 minute winter	1	1.000	2	0.2	0.036	0.002	0.5641	
1440 minute winter	2	1.001	3	0.6	0.365	0.046	0.0271	20.2