Simulation Settings

Rainfall Methodology	FEH-22	Analysis Speed	Normal	Additional Storage (m³/ha)	0.0
Summer CV	1.000	Skip Steady State	x	Check Discharge Rate(s)	x
Winter CV	1.000	Drain Down Time (mins)	240	Check Discharge Volume	x

Storm Durations

15	60	180	360	600	960	2160	4320	7200	10080
30	120	240	480	720	1440	2880	5760	8640	

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

Results for 2 year Critical Storm Duration. Lowest mass balance: 98.65%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	EX S9	10	23.808	0.018	1.0	0.0203	0.0000	OK
15 minute summer	EX S10	10	23.590	0.018	1.0	0.0198	0.0000	OK
15 minute summer	EX S11	10	23.591	0.141	10.6	0.1523	0.0000	OK
15 minute summer	2.000:50%	10	23.589	0.254	16.1	0.0000	0.0000	SURCHARGED
15 minute summer	EX S12	10	23.575	0.355	31.3	0.4017	0.0000	SURCHARGED
15 minute summer	TW 1372mm SEWER	1	23.446	1.372	31.0	0.0000	0.0000	OK

Link Event (Outflow)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	EX S9	1.000	EX S10	1.0	0.862	0.029	0.0066	
15 minute summer	EX S10	1.001	EX S12	1.0	0.089	0.029	0.0858	
15 minute summer	EX S11	2.000	2.000:50%	10.4	0.585	0.192	0.3493	
15 minute summer	EX S11	2.000	EX S12	15.9	0.415	0.294	0.4213	
15 minute summer	EX S12	1.002	TW 1372mm SEWER	31.0	0.779	0.314	1.2780	10.9

Simulation Settings

Rainfall Methodology	FEH-22	Analysis Speed	Normal	Additional Storage (m³/ha)	0.0
Summer CV	1.000	Skip Steady State	x	Check Discharge Rate(s)	x
Winter CV	1.000	Drain Down Time (mins)	240	Check Discharge Volume	x

Storm Durations

15	60	180	360	600	960	2160	4320	7200	10080
30	120	240	480	720	1440	2880	5760	8640	

Return Period (years)	Climate Change (CC %)	Additional Area (A %)	Additional Flow (Q %)
5	0	0	0

Results for 5 year Critical Storm Duration. Lowest mass balance: 99.19%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	EX S9	10	23.813	0.023	1.7	0.0255	0.0000	OK
15 minute summer	EX S10	10	23.812	0.240	2.7	0.2717	0.0000	SURCHARGED
15 minute summer	EX S11	10	23.861	0.411	18.6	0.4443	0.0000	SURCHARGED
15 minute summer	2.000:50%	10	23.846	0.511	27.5	0.0000	0.0000	SURCHARGED
15 minute summer	EX S12	10	23.811	0.591	52.8	0.6681	0.0000	SURCHARGED
15 minute summer	TW 1372mm SEWER	1	23.446	1.372	52.0	0.0000	0.0000	OK

Link Event (Outflow)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	EX S9	1.000	EX S10	1.7	0.838	0.048	0.0545	
15 minute summer	EX S10	1.001	EX S12	5.8	0.350	0.167	0.1611	
15 minute summer	EX S11	2.000	2.000:50%	17.6	0.642	0.324	0.4213	
15 minute summer	EX S11	2.000	EX S12	26.7	0.671	0.493	0.4213	
15 minute summer	EX S12	1.002	TW 1372mm SEWER	52.0	1.307	0.527	1.2780	20.0

Simulation Settings

Rainfall Methodology	FEH-22	Analysis Speed	Normal	Additional Storage (m³/ha)	0.0
Summer CV	1.000	Skip Steady State	x	Check Discharge Rate(s)	x
Winter CV	1.000	Drain Down Time (mins)	240	Check Discharge Volume	x

Storm Durations

15	60	180	360	600	960	2160	4320	7200	10080
30	120	240	480	720	1440	2880	5760	8640	

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

Results for 30 year Critical Storm Duration. Lowest mass balance: 99.55%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	EX S9	11	24.391	0.601	5.3	0.6800	0.0000	FLOOD RISK
15 minute summer	EX S10	11	24.387	0.815	7.6	0.9218	0.0000	SURCHARGED
15 minute summer	EX S11	11	24.500	1.050	33.0	1.1340	0.3084	FLOOD
15 minute summer	2.000:50%	11	24.463	1.128	47.1	0.0000	0.0000	SURCHARGED
15 minute summer	EX S12	11	24.377	1.157	89.1	1.3089	0.0000	SURCHARGED
15 minute summer	TW 1372mm SEWER	1	23.446	1.372	84.0	0.0000	0.0000	OK

Link Event (Outflow)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	EX S9	1.000	EX S10	6.9	0.836	0.198	0.0996	
15 minute summer	EX S10	1.001	EX S12	12.9	0.735	0.369	0.1611	
15 minute summer	EX S11	2.000	2.000:50%	29.4	0.739	0.542	0.4213	
15 minute summer	EX S11	2.000	EX S12	44.5	1.119	0.821	0.4213	
15 minute summer	EX S12	1.002	TW 1372mm SEWER	84.0	2.112	0.852	1.2780	36.4

Simulation Settings

Rainfall Methodology	FEH-22	Analysis Speed	Normal	Additional Storage (m³/ha)	0.0
Summer CV	1.000	Skip Steady State	x	Check Discharge Rate(s)	x
Winter CV	1.000	Drain Down Time (mins)	240	Check Discharge Volume	x

Storm Durations

15	60	180	360	600	960	2160	4320	7200	10080
30	120	240	480	720	1440	2880	5760	8640	

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

Results for 100 year Critical Storm Duration. Lowest mass balance: 99.72%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	EX S9	10	24.495	0.705	7.7	0.7976	0.0000	FLOOD RISK
15 minute summer	EX S10	10	24.486	0.914	12.6	1.0333	0.0000	FLOOD RISK
15 minute summer	EX S11	9	24.500	1.050	44.3	1.1340	5.6467	FLOOD
15 minute summer	2.000:50%	9	24.504	1.169	46.7	0.0000	0.0000	SURCHARGED
15 minute summer	EX S12	10	24.468	1.248	97.9	1.4120	0.0000	SURCHARGED
15 minute summer	TW 1372mm SEWER	1	23.446	1.372	87.9	0.0000	0.0000	OK

Link Event (Outflow)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	EX S9	1.000	EX S10	7.2	0.907	0.207	0.0996	
15 minute summer	EX S10	1.001	EX S12	12.7	0.721	0.362	0.1611	
30 minute summer	EX S11	2.000	2.000:50%	28.8	0.723	0.531	0.4213	
15 minute winter	EX S11	2.000	EX S12	43.9	1.105	0.811	0.4213	
15 minute summer	EX S12	1.002	TW 1372mm SEWER	87.9	2.211	0.892	1.2780	43.8

Simulation Settings

Rainfall Methodology	FEH-22	Analysis Speed	Normal	Additional Storage (m³/ha)	0.0
Summer CV	1.000	Skip Steady State	x	Check Discharge Rate(s)	x
Winter CV	1.000	Drain Down Time (mins)	240	Check Discharge Volume	x

Storm Durations

15	60	180	360	600	960	2160	4320	7200	10080
30	120	240	480	720	1440	2880	5760	8640	

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

Results for 100 year +40% CC Critical Storm Duration. Lowest mass balance: 99.81%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	EX S9	9	24.560	0.770	10.8	0.8709	0.1685	FLOOD
15 minute summer	EX S10	9	24.556	0.984	16.4	1.1124	0.0000	FLOOD RISK
15 minute summer	EX S11	8	24.500	1.050	89.8	1.1340	17.2272	FLOOD
15 minute summer	2.000:50%	10	24.542	1.207	44.1	0.0000	0.0000	SURCHARGED
15 minute summer	EX S12	9	24.546	1.326	109.4	1.4997	0.0000	SURCHARGED
15 minute summer	TW 1372mm SEWER	1	23.446	1.372	91.1	0.0000	0.0000	OK

Link Event (Outflow)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	EX S9	1.000	EX S10	6.5	0.864	0.185	0.0996	
15 minute summer	EX S10	1.001	EX S12	-16.4	-0.932	-0.469	0.1611	
30 minute summer	EX S11	2.000	2.000:50%	30.8	0.774	0.569	0.4213	
30 minute winter	EX S11	2.000	EX S12	44.7	1.125	0.826	0.4213	
15 minute summer	EX S12	1.002	TW 1372mm SEWER	91.1	2.291	0.924	1.2780	52.2

Simulation Settings

Rainfall Methodology	FSR	Summer CV	1.000	Drain Down Time (mins)	240
FSR Region	England and Wales	Winter CV	1.000	Additional Storage (m³/ha)	0.0
M5-60 (mm)	21.000	Analysis Speed	Normal	Check Discharge Rate(s)	x
Ratio-R	0.432	Skip Steady State	x	Check Discharge Volume	x

Storm Durations

15	60	180	360	600	960	2160	4320	7200	10080
30	120	240	480	720	1440	2880	5760	8640	

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

Results for 1 year Critical Storm Duration. Lowest mass balance: 98.75%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	EX S9	9	23.809	0.019	1.1	0.0210	0.0000	OK
15 minute summer	EX S10	10	23.598	0.026	1.1	0.0291	0.0000	OK
15 minute summer	EX S11	10	23.617	0.167	11.6	0.1802	0.0000	OK
15 minute summer	2.000:50%	10	23.612	0.277	17.8	0.0000	0.0000	SURCHARGED
15 minute summer	EX S12	10	23.597	0.377	33.7	0.4264	0.0000	SURCHARGED
15 minute summer	TW 1372mm SEWER	1	23.446	1.372	33.5	0.0000	0.0000	OK

Link Event (Outflow)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	EX S9	1.000	EX S10	1.1	0.885	0.032	0.0092	
15 minute summer	EX S10	1.001	EX S12	1.1	0.100	0.032	0.0897	
15 minute summer	EX S11	2.000	2.000:50%	11.6	0.599	0.214	0.3779	
15 minute summer	EX S11	2.000	EX S12	17.6	0.442	0.325	0.4213	
15 minute summer	EX S12	1.002	TW 1372mm SEWER	33.5	0.843	0.340	1.2780	11.9