Design Settings

Rainfall Methodology	FEH-22	Maximum Time of Concentration (mins)	30.00	Preferred Cover Depth (m)	1.200
Return Period (years)	2	Maximum Rainfall (mm/hr)	550.0	Include Intermediate Ground	✓
Additional Flow (%)	0	Minimum Velocity (m/s)	1.00	Enforce best practice design rules	✓
CV	0.950	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)	Node Type	Manhole Type	Diameter (mm)	Easting (m)	Northing (m)	Depth (m)	Notes
✓	S1	0.091	5.00	93.961	Manhole	Adoptable	1350	566518.617	246891.942	1.425	
✓	S2	0.043	5.00	95.433	Manhole	Adoptable	1350	566519.615	246925.690	3.174	
✓	S3	0.066	5.00	94.768	Manhole	Adoptable	1350	566468.219	246926.706	1.425	
✓	S4	0.049	5.00	95.188	Manhole	Adoptable	1500	566478.598	246930.421	1.911	
✓	S5	0.028	5.00	95.675	Manhole	Adoptable	1500	566518.601	246938.745	3.644	
✓	S6	0.101	5.00	95.391	Manhole	Adoptable	1500	566549.396	246941.137	3.462	
✓	S7	0.049	5.00	93.436	Manhole	Adoptable	1500	566605.326	246944.194	1.691	
✓	S8	0.000		93.393	Manhole	Adoptable	1500	566613.641	246947.644	1.678	
✓	PS1	0.077	5.00	95.030	Manhole	Adoptable	1500	566667.031	247023.636	1.575	
✓	PS2-FC	0.000		95.675	Manhole	Adoptable	150	566625.564	247009.137	2.365	Auto-design is off
✓	S9	0.019	5.00	95.611	Manhole	Adoptable	1350	566612.842	247000.642	2.483	
✓	S10	0.042	5.00	95.733	Manhole	Adoptable	1350	566600.204	246992.203	2.696	
✓	S11	0.048	5.00	94.139	Manhole	Adoptable	1350	566618.169	246965.299	1.425	
✓	S12	0.008	5.00	93.666	Manhole	Adoptable	1500	566618.573	246955.179	1.981	
✓	HW1	0.000	5.00	92.500	Manhole	Adoptable	1200	566639.838	246956.028	1.850	Auto-design is off
✓	HW2	0.000	5.00	92.500	Manhole	Adoptable	1200	566646.851	246955.931	2.000	Auto-design is off
✓	S13	0.000	5.00	92.500	Manhole	Adoptable	1200	566648.076	246947.925	2.054	Auto-design is off
✓	S14-HB	0.000	5.00	92.950	Manhole	Adoptable	2100	566631.732	246944.297	2.616	Auto-design is off
✓	EX SW MH	0.000	5.00	91.550	Manhole	Adoptable	1200	566633.482	246929.847	1.750	

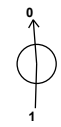
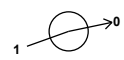
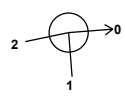
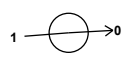
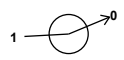
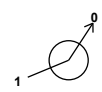
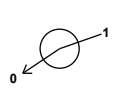
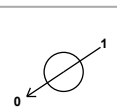
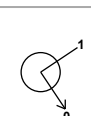
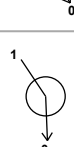
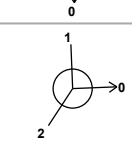
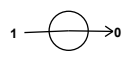
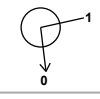
Pipeline Schedule

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	33.763	167.0	225	Circular	93.961	92.536	1.200	95.433	92.334	2.874
1.001	13.094	167.0	300	Circular	95.433	92.259	2.874	95.675	92.181	3.194
2.000	11.024	167.0	225	Circular	94.768	93.343	1.200	95.188	93.277	1.686
2.001	40.860	40.0	225	Circular	95.188	93.277	1.686	95.675	92.256	3.194
1.002	30.888	302.8	450	Circular	95.675	92.031	3.194	95.391	91.929	3.012
1.003	56.013	305.0	450	Circular	95.391	91.929	3.012	93.436	91.745	1.241
1.004	9.002	305.0	450	Circular	93.436	91.745	1.241	93.393	91.715	1.228
1.005	9.006	305.0	450	Circular	93.393	91.715	1.228	93.666	91.685	1.531
3.000	43.929	303.0	375	Circular	95.030	93.455	1.200	95.675	93.310	1.990
3.001	15.298	143.0	150	Circular	95.675	93.310	2.215	95.611	93.203	2.258
3.002	15.197	167.0	225	Circular	95.611	93.128	2.258	95.733	93.037	2.471
3.003	32.351	100.2	225	Circular	95.733	93.037	2.471	94.139	92.714	1.200
3.004	10.128	12.6	225	Circular	94.139	92.714	1.200	93.666	91.910	1.531
1.006	21.282	20.6	450	Circular	93.666	91.685	1.531	92.500	90.650	1.400
1.007	7.014	46.8	900	Circular	92.500	90.650	0.950	92.500	90.500	1.100
1.008	8.099	150.0	150	Circular	92.500	90.500	1.850	92.500	90.446	1.904
1.009	16.742	149.5	150	Circular	92.500	90.446	1.904	92.950	90.334	2.466
1.010	14.556	27.3	150	Circular	92.950	90.334	2.466	91.550	89.800	1.600

Link	US Node	Dia (mm)	Node Type	MH Type	DS Node	Dia (mm)	Node Type	MH Type
1.000	S1	1350	Manhole	Adoptable	S2	1350	Manhole	Adoptable
1.001	S2	1350	Manhole	Adoptable	S5	1500	Manhole	Adoptable
2.000	S3	1350	Manhole	Adoptable	S4	1500	Manhole	Adoptable
2.001	S4	1500	Manhole	Adoptable	S5	1500	Manhole	Adoptable
1.002	S5	1500	Manhole	Adoptable	S6	1500	Manhole	Adoptable
1.003	S6	1500	Manhole	Adoptable	S7	1500	Manhole	Adoptable
1.004	S7	1500	Manhole	Adoptable	S8	1500	Manhole	Adoptable
1.005	S8	1500	Manhole	Adoptable	S12	1500	Manhole	Adoptable
3.000	PS1	1500	Manhole	Adoptable	PS2-FC	150	Manhole	Adoptable
3.001	PS2-FC	150	Manhole	Adoptable	S9	1350	Manhole	Adoptable
3.002	S9	1350	Manhole	Adoptable	S10	1350	Manhole	Adoptable
3.003	S10	1350	Manhole	Adoptable	S11	1350	Manhole	Adoptable
3.004	S11	1350	Manhole	Adoptable	S12	1500	Manhole	Adoptable
1.006	S12	1500	Manhole	Adoptable	HW1	1200	Manhole	Adoptable
1.007	HW1	1200	Manhole	Adoptable	HW2	1200	Manhole	Adoptable
1.008	HW2	1200	Manhole	Adoptable	S13	1200	Manhole	Adoptable
1.009	S13	1200	Manhole	Adoptable	S14-HB	2100	Manhole	Adoptable
1.010	S14-HB	2100	Manhole	Adoptable	EX SW MH	1200	Manhole	Adoptable

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Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Node Type	MH Type	Connections	Link	IL (m)	Dia (mm)	Link Type
S1	566518.617	246891.942	93.961	1.425	1350	Manhole	Adoptable					
								0	1.000	92.536	225	Circular
S2	566519.615	246925.690	95.433	3.174	1350	Manhole	Adoptable					
								1	1.000	92.334	225	Circular
								0	1.001	92.259	300	Circular
S3	566468.219	246926.706	94.768	1.425	1350	Manhole	Adoptable					
								0	2.000	93.343	225	Circular
S4	566478.598	246930.421	95.188	1.911	1500	Manhole	Adoptable	1	2.000	93.277	225	Circular
												
								0	2.001	93.277	225	Circular
S5	566518.601	246938.745	95.675	3.644	1500	Manhole	Adoptable	1	1.001	92.181	300	Circular
								2	2.001	92.256	225	Circular
												
								0	1.002	92.031	450	Circular
S6	566549.396	246941.137	95.391	3.462	1500	Manhole	Adoptable	1	1.002	91.929	450	Circular
												
								0	1.003	91.929	450	Circular
S7	566605.326	246944.194	93.436	1.691	1500	Manhole	Adoptable	1	1.003	91.745	450	Circular
												
								0	1.004	91.745	450	Circular
S8	566613.641	246947.644	93.393	1.678	1500	Manhole	Adoptable	1	1.004	91.715	450	Circular
												
								0	1.005	91.715	450	Circular
PS1	566667.031	247023.636	95.030	1.575	1500	Manhole	Adoptable					
								0	3.000	93.455	375	Circular
PS2-FC	566625.564	247009.137	95.675	2.365	150	Manhole	Adoptable	1	3.000	93.310	375	Circular
												
								0	3.001	93.310	150	Circular
S9	566612.842	247000.642	95.611	2.483	1350	Manhole	Adoptable	1	3.001	93.203	150	Circular
												
								0	3.002	93.128	225	Circular
S10	566600.204	246992.203	95.733	2.696	1350	Manhole	Adoptable	1	3.002	93.037	225	Circular
												
								0	3.003	93.037	225	Circular
S11	566618.169	246965.299	94.139	1.425	1350	Manhole	Adoptable	1	3.003	92.714	225	Circular
												
								0	3.004	92.714	225	Circular
S12	566618.573	246955.179	93.666	1.981	1500	Manhole	Adoptable	1	3.004	91.910	225	Circular
								2	1.005	91.685	450	Circular
												
								0	1.006	91.685	450	Circular
HW1	566639.838	246956.028	92.500	1.850	1200	Manhole	Adoptable	1	1.006	90.650	450	Circular
												
								0	1.007	90.650	900	Circular
HW2	566646.851	246955.931	92.500	2.000	1200	Manhole	Adoptable	1	1.007	90.500	900	Circular
												
								0	1.008	90.500	150	Circular
S13	566648.076	246947.925	92.500	2.054	1200	Manhole	Adoptable	1	1.008	90.446	150	Circular
												
								0	1.009	90.446	150	Circular
S14-HB	566631.732	246944.297	92.950	2.616	2100	Manhole	Adoptable	1	1.009	90.334	150	Circular
												
								0	1.010	90.334	150	Circular
EX SW MH	566633.482	246929.847	91.550	1.750	1200	Manhole	Adoptable					
								1	1.010	89.800	150	Circular

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Simulation Settings

Rainfall Methodology	FSR	Summer CV	0.950	Additional Storage (m³/ha)	20.0
Rainfall Events	Singular	Winter CV	0.950	Starting Level (m)	
FSR Region	England and Wales	Analysis Speed	Detailed	Check Discharge Rate(s)	x
M5-60 (mm)	20.100	Skip Steady State	x	Check Discharge Volume	x
Ratio-R	0.452	Drain Down Time (mins)	240		

Storm Durations

15 | 30

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	0	0	0	100	0	0	0
30	0	0	0	100	45	0	0

Node S14-HB Online Hydro-Brake® Control

Flap Valve	x	Objective	(HE) Minimise upstream storage
Replaces Downstream Link	x	Sump Available	✓
Invert Level (m)	90.334	Product Number	CTL-SHE-0093-5000-1875-5000
Design Depth (m)	1.875	Min Outlet Diameter (m)	0.150
Design Flow (l/s)	5.0	Min Node Diameter (mm)	1200

Node PS2-FC Online Orifice Control

Flap Valve	x	Invert Level (m)	93.310	Discharge Coefficient	0.600
Replaces Downstream Link	x	Diameter (m)	0.030		

Node HW2 Depth/Area Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Safety Factor	2.0	Invert Level (m)	90.500
Side Inf Coefficient (m/hr)	0.00000	Porosity	1.00	Time to half empty (mins)	189

Depth (m)	Area (m²)	Inf Area (m²)	Depth (m)	Area (m²)	Inf Area (m²)	Depth (m)	Area (m²)	Inf Area (m²)	Depth (m)	Area (m²)	Inf Area (m²)	Depth (m)	Area (m²)	Inf Area (m²)
0.000	22.6	22.6	0.950	195.5	198.4	1.000	269.4	272.3	1.700	547.3	554.6	2.000	681.6	691.4

Node PS1 Depth/Area Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Safety Factor	2.0	Invert Level (m)	94.400
Side Inf Coefficient (m/hr)	0.00000	Porosity	0.30	Time to half empty (mins)	69

Depth (m)	Area (m²)	Inf Area (m²)	Depth (m)	Area (m²)	Inf Area (m²)	Depth (m)	Area (m²)	Inf Area (m²)
0.000	300.0	0.0	0.400	300.0	0.0	0.401	0.0	0.0

Rainfall

Event	Peak Intensity (mm/hr)	Average Intensity (mm/hr)	Event	Peak Intensity (mm/hr)	Average Intensity (mm/hr)	Event	Peak Intensity (mm/hr)	Average Intensity (mm/hr)
2 year 15 minute summer	148.140	41.918	30 year 30 minute summer	179.611	50.824	100 year +45% CC 15 minute summer	530.605	150.143
2 year 15 minute winter	103.958	41.918	30 year 30 minute winter	126.043	50.824	100 year +45% CC 15 minute winter	372.355	150.143
2 year 30 minute summer	94.200	26.655	100 year 15 minute summer	365.935	103.547	100 year +45% CC 30 minute summer	341.129	96.528
2 year 30 minute winter	66.105	26.655	100 year 15 minute winter	256.796	103.547	100 year +45% CC 30 minute winter	239.389	96.528
30 year 15 minute summer	281.501	79.655	100 year 30 minute summer	235.261	66.571			
30 year 15 minute winter	197.545	79.655	100 year 30 minute winter	165.096	66.571			

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Results for 2 year Critical Storm Duration. Lowest mass balance: 99.91%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	S1	11	92.653	0.117	20.9	0.3164	0.0000	OK
15 minute summer	S2	11	92.391	0.132	30.0	0.2239	0.0000	OK
15 minute summer	S3	10	93.444	0.101	15.2	0.2381	0.0000	OK
15 minute summer	S4	10	93.365	0.088	26.3	0.2014	0.0000	OK
15 minute summer	S5	11	92.223	0.192	62.0	0.3691	0.0000	OK
15 minute summer	S6	11	92.149	0.220	84.6	0.5164	0.0000	OK
15 minute summer	S7	12	91.991	0.246	95.3	0.5774	0.0000	OK
15 minute summer	S8	12	91.931	0.216	93.0	0.3814	0.0000	OK
30 minute winter	PS1	30	94.301	0.846	12.5	2.3212	0.0000	SURCHARGED
30 minute winter	PS2-FC	31	94.300	0.990	8.5	0.0178	0.0000	SURCHARGED
15 minute summer	S9	11	93.183	0.055	5.3	0.0868	0.0000	OK
15 minute summer	S10	10	93.123	0.086	15.0	0.1498	0.0000	OK
15 minute summer	S11	10	92.782	0.068	25.6	0.1426	0.0000	OK
15 minute summer	S12	11	91.813	0.128	121.0	0.2363	0.0000	OK
30 minute winter	HW1	45	91.156	0.506	87.2	0.5719	0.0000	OK
30 minute winter	HW2	39	91.152	0.652	163.7	54.1566	0.0000	SURCHARGED
30 minute winter	S13	39	91.146	0.700	11.2	0.7923	0.0000	SURCHARGED
30 minute winter	S14-HB	39	91.137	0.803	8.4	2.7830	0.0000	SURCHARGED
30 minute summer	EX SW MH	18	89.836	0.036	4.3	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)
15 minute summer	S1	1.000	S2	20.4	1.005	0.509	0.6865	
15 minute summer	S2	1.001	S5	30.1	1.066	0.350	0.3692	
15 minute summer	S3	2.000	S4	15.0	0.948	0.374	0.1747	
15 minute summer	S4	2.001	S5	25.8	1.821	0.313	0.5793	
15 minute summer	S5	1.002	S6	62.5	0.884	0.338	2.1834	
15 minute summer	S6	1.003	S7	84.6	1.023	0.459	4.6314	
15 minute summer	S7	1.004	S8	93.0	1.136	0.505	0.7371	
15 minute summer	S8	1.005	S12	93.8	1.703	0.509	0.5005	
30 minute winter	PS1	3.000	PS2-FC	8.5	0.363	0.074	4.8452	
30 minute winter	PS2-FC	3.001	S9	1.8	0.567	0.124	0.0495	
15 minute summer	S9	3.002	S10	5.3	0.501	0.132	0.1623	
15 minute summer	S10	3.003	S11	14.7	1.232	0.283	0.3877	
15 minute summer	S11	3.004	S12	25.4	2.658	0.172	0.0967	
15 minute summer	S12	1.006	HW1	118.3	2.841	0.165	1.7120	
30 minute winter	HW1	1.007	HW2	163.7	1.254	0.056	3.0033	
30 minute winter	HW2	1.008	S13	11.2	0.854	0.773	0.1426	
30 minute winter	S13	1.009	S14-HB	8.4	0.826	0.579	0.2947	
30 minute winter	S14-HB	1.010	EX SW MH	4.3	1.306	0.126	0.0481	63.7

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Results for 30 year Critical Storm Duration. Lowest mass balance: 99.68%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	S1	11	92.724	0.188	39.7	0.5087	0.0000	OK
15 minute summer	S2	11	92.455	0.196	56.7	0.3328	0.0000	OK
15 minute summer	S3	10	93.493	0.150	28.8	0.3536	0.0000	OK
15 minute summer	S4	10	93.407	0.130	49.9	0.2958	0.0000	OK
15 minute summer	S5	11	92.337	0.306	117.5	0.5884	0.0000	OK
15 minute summer	S6	11	92.276	0.347	159.7	0.8150	0.0000	OK
15 minute summer	S7	11	92.107	0.362	178.6	0.8494	0.0000	OK
15 minute summer	S8	12	92.017	0.302	176.9	0.5328	0.0000	OK
30 minute winter	PS1	32	94.483	1.028	23.8	10.3215	0.0000	SURCHARGED
30 minute summer	PS2-FC	30	94.498	1.188	9.9	0.0214	0.0000	SURCHARGED
15 minute summer	S9	11	93.203	0.075	9.8	0.1190	0.0000	OK
15 minute summer	S10	11	93.160	0.123	27.8	0.2136	0.0000	OK
15 minute summer	S11	10	92.812	0.098	48.3	0.2060	0.0000	OK
15 minute summer	S12	11	91.861	0.176	227.5	0.3254	0.0000	OK
30 minute winter	HW1	40	91.486	0.836	168.0	0.9457	0.0000	OK
30 minute winter	HW2	40	91.486	0.986	179.0	112.7439	0.0000	SURCHARGED
30 minute winter	S13	40	91.481	1.035	11.3	1.1702	0.0000	SURCHARGED
30 minute winter	S14-HB	41	91.471	1.137	10.3	3.9373	0.0000	SURCHARGED
15 minute winter	EX SW MH	10	89.836	0.036	4.3	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)
15 minute summer	S1	1.000	S2	38.6	1.158	0.964	1.1242	
15 minute summer	S2	1.001	S5	56.9	1.241	0.663	0.5999	
15 minute summer	S3	2.000	S4	28.5	1.099	0.710	0.2855	
15 minute summer	S4	2.001	S5	49.0	2.131	0.594	0.9415	
15 minute summer	S5	1.002	S6	117.6	0.970	0.636	3.7988	
15 minute summer	S6	1.003	S7	158.2	1.182	0.859	7.4970	
15 minute summer	S7	1.004	S8	176.9	1.423	0.960	1.1230	
15 minute summer	S8	1.005	S12	179.8	2.140	0.976	0.7583	
30 minute winter	PS1	3.000	PS2-FC	8.5	0.417	0.075	4.8452	
30 minute summer	PS2-FC	3.001	S9	2.0	0.581	0.135	0.0528	
15 minute summer	S9	3.002	S10	9.8	0.584	0.244	0.2559	
15 minute summer	S10	3.003	S11	27.5	1.426	0.530	0.6248	
15 minute summer	S11	3.004	S12	47.8	3.104	0.324	0.1563	
15 minute summer	S12	1.006	HW1	228.1	2.979	0.319	2.2557	
30 minute winter	HW1	1.007	HW2	179.0	1.405	0.061	4.3764	
30 minute winter	HW2	1.008	S13	11.3	0.867	0.778	0.1426	
30 minute winter	S13	1.009	S14-HB	10.3	0.859	0.714	0.2947	
30 minute winter	S14-HB	1.010	EX SW MH	4.3	1.305	0.126	0.0481	59.8

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Results for 100 year Critical Storm Duration. Lowest mass balance: 99.57%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	S1	11	92.847	0.311	51.7	0.8435	0.0000	SURCHARGED
15 minute summer	S2	11	92.529	0.270	72.9	0.4596	0.0000	OK
15 minute summer	S3	10	93.529	0.186	37.5	0.4377	0.0000	OK
15 minute summer	S4	10	93.433	0.156	64.7	0.3551	0.0000	OK
15 minute summer	S5	11	92.469	0.438	149.3	0.8409	0.0000	OK
15 minute summer	S6	11	92.399	0.470	197.7	1.1057	0.0000	SURCHARGED
15 minute summer	S7	11	92.175	0.430	221.1	1.0099	0.0000	OK
15 minute summer	S8	11	92.055	0.340	220.2	0.6010	0.0000	OK
30 minute winter	PS1	32	94.542	1.087	35.6	15.8322	0.0000	SURCHARGED
30 minute winter	PS2-FC	31	94.553	1.243	13.4	0.0224	0.0000	SURCHARGED
15 minute summer	S9	10	93.213	0.085	12.7	0.1352	0.0000	OK
15 minute summer	S10	10	93.182	0.145	36.2	0.2531	0.0000	OK
15 minute summer	S11	10	92.829	0.115	62.8	0.2431	0.0000	OK
15 minute summer	S12	12	91.892	0.207	285.9	0.3825	0.0000	OK
30 minute winter	HW1	40	91.621	0.971	217.6	1.0983	0.0000	SURCHARGED
30 minute winter	HW2	40	91.621	1.121	206.1	152.0347	0.0000	SURCHARGED
30 minute winter	S13	40	91.615	1.169	14.0	1.3222	0.0000	SURCHARGED
30 minute winter	S14-HB	41	91.604	1.270	9.6	4.3990	0.0000	SURCHARGED
30 minute winter	EX SW MH	13	89.836	0.036	4.3	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)
15 minute summer	S1	1.000	S2	49.6	1.253	1.237	1.2889	
15 minute summer	S2	1.001	S5	69.9	1.250	0.815	0.8921	
15 minute summer	S3	2.000	S4	36.9	1.185	0.920	0.3548	
15 minute summer	S4	2.001	S5	64.4	2.219	0.781	1.3614	
15 minute summer	S5	1.002	S6	146.5	0.997	0.792	4.8758	
15 minute summer	S6	1.003	S7	194.6	1.235	1.056	8.8078	
15 minute summer	S7	1.004	S8	220.2	1.525	1.195	1.2810	
15 minute summer	S8	1.005	S12	219.6	2.186	1.192	0.8963	
30 minute winter	PS1	3.000	PS2-FC	13.4	0.433	0.117	4.8452	
30 minute winter	PS2-FC	3.001	S9	2.1	0.586	0.139	0.0537	
15 minute summer	S9	3.002	S10	12.5	0.609	0.311	0.3106	
15 minute summer	S10	3.003	S11	35.6	1.503	0.685	0.7698	
15 minute summer	S11	3.004	S12	62.2	3.290	0.422	0.1917	
15 minute summer	S12	1.006	HW1	285.3	3.031	0.399	2.4431	
30 minute winter	HW1	1.007	HW2	206.1	1.425	0.071	4.4453	
30 minute winter	HW2	1.008	S13	14.0	0.858	0.969	0.1426	
30 minute winter	S13	1.009	S14-HB	9.6	0.938	0.662	0.2947	
30 minute winter	S14-HB	1.010	EX SW MH	4.3	1.306	0.126	0.0481	63.6

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Results for 100 year +45% CC Critical Storm Duration. Lowest mass balance: 99.37%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	S1	11	93.757	1.221	74.8	3.3089	0.0000	FLOOD RISK
15 minute summer	S2	11	93.130	0.871	98.9	1.4818	0.0000	SURCHARGED
15 minute summer	S3	12	94.179	0.836	54.3	1.9712	0.0000	SURCHARGED
15 minute summer	S4	12	94.058	0.781	86.3	1.7813	0.0000	SURCHARGED
15 minute summer	S5	11	92.977	0.946	195.0	1.8173	0.0000	SURCHARGED
15 minute summer	S6	11	92.825	0.896	272.1	2.1068	0.0000	SURCHARGED
15 minute summer	S7	11	92.353	0.608	308.2	1.4259	0.0000	SURCHARGED
15 minute summer	S8	12	92.178	0.463	306.4	0.8186	0.0000	SURCHARGED
30 minute winter	PS1	33	94.656	1.201	45.1	26.3917	0.0000	SURCHARGED
30 minute winter	PS2-FC	32	94.671	1.361	12.0	0.0245	0.0000	SURCHARGED
15 minute summer	S9	11	93.246	0.118	17.5	0.1872	0.0000	OK
15 minute summer	S10	10	93.230	0.193	51.5	0.3371	0.0000	OK
15 minute summer	S11	10	92.862	0.148	90.0	0.3125	0.0000	OK
30 minute summer	S12	20	91.989	0.304	363.4	0.5626	0.0000	OK
30 minute winter	HW1	37	91.826	1.176	304.6	1.3305	0.0000	SURCHARGED
30 minute winter	HW2	37	91.826	1.326	299.1	225.8031	0.0000	SURCHARGED
30 minute winter	S13	37	91.819	1.373	14.9	1.5533	0.0000	SURCHARGED
30 minute winter	S14-HB	37	91.807	1.473	10.9	5.1010	0.0000	SURCHARGED
30 minute winter	EX SW MH	38	89.836	0.036	4.4	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)
15 minute summer	S1	1.000	S2	66.0	1.659	1.645	1.3428	
15 minute summer	S2	1.001	S5	97.1	1.379	1.132	0.9221	
15 minute summer	S3	2.000	S4	48.0	1.207	1.196	0.4384	
15 minute summer	S4	2.001	S5	79.4	2.182	0.963	1.6250	
15 minute summer	S5	1.002	S6	197.9	1.249	1.070	4.8940	
15 minute summer	S6	1.003	S7	269.6	1.702	1.463	8.8749	
15 minute summer	S7	1.004	S8	306.4	1.934	1.663	1.4263	
15 minute summer	S8	1.005	S12	305.1	2.254	1.656	1.2216	
30 minute winter	PS1	3.000	PS2-FC	12.0	0.468	0.105	4.8452	
30 minute winter	PS2-FC	3.001	S9	2.1	0.593	0.145	0.0555	
15 minute summer	S9	3.002	S10	17.3	0.613	0.431	0.4362	
15 minute summer	S10	3.003	S11	50.8	1.587	0.979	1.0371	
15 minute summer	S11	3.004	S12	89.2	3.531	0.605	0.2560	
30 minute summer	S12	1.006	HW1	361.3	2.756	0.505	2.9005	
30 minute winter	HW1	1.007	HW2	299.1	1.533	0.102	4.4453	
30 minute winter	HW2	1.008	S13	14.9	0.866	1.032	0.1426	
30 minute winter	S13	1.009	S14-HB	10.9	0.893	0.754	0.2947	
30 minute winter	S14-HB	1.010	EX SW MH	4.4	1.315	0.129	0.0490	68.6

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