

Simulation Settings

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

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	45	0	0

Design Settings

Rainfall Methodology	FEH-22	Minimum Velocity (m/s)	1.00
Return Period (years)	100	Connection Type	Level Soffits
Additional Flow (%)	0	Minimum Backdrop Height (m)	1.000
CV	1.000	Preferred Cover Depth (m)	0.500
Time of Entry (mins)	5.00	Include Intermediate Ground	✓
Maximum Time of Concentration (mins)	30.00	Enforce best practice design rules	x
Maximum Rainfall (mm/hr)	50.0		

Nodes

Name	Area (ha)	T of E (mins)	Cover Level (m)	Diameter (mm)	Easting (m)	Northing (m)	Depth (m)	Invert Level (m)
S01	0.005	5.00	120.658	450	539784.934	138653.399	0.773	119.885
S02	0.010	5.00	120.623	450	539771.737	138650.378	0.908	119.715
S03	0.005	5.00	120.518	450	539768.509	138647.372	0.863	119.655
S04	0.003	5.00	120.518	450	539748.556	138642.818	1.118	119.400
S05	0.020	5.00	120.518	450	539746.697	138650.969	1.223	119.295
S06	0.000		119.887	450	539744.598	138678.749	0.937	118.950
S07	0.003	5.00	119.840	450	539758.497	138682.111	1.100	118.740
S08	0.018	5.00	120.587	450	539763.498	138667.104	0.702	119.885
S09	0.012	5.00	120.578	450	539765.899	138660.556	0.783	119.795
S10	0.009	5.00	120.660	450	539779.036	138665.374	1.050	119.610
EX-S11	0.009	5.00	120.430	450	539778.065	138670.571	1.300	119.130
EX-S12	0.041	5.00	119.730	1200	539776.708	138686.166	1.500	118.230
EX-S13	0.018	5.00	121.510	450	539801.604	138654.684	1.100	120.410
EX-S14	0.025	5.00	119.620	450	539795.254	138682.977	1.140	118.480
EX-S15	0.000	5.00	119.228	450	539794.269	138691.625	1.368	117.860
S16	0.018	5.00	120.140	450	539814.743	138666.485	0.732	119.408
S17	0.024	5.00	119.228	450	539807.152	138700.642	1.709	117.519
EX-S18			118.879	1200	539795.439	138699.709	1.629	117.250
EX-S19			118.742	1500	539793.703	138701.108	1.624	117.118
DUMMY			118.015		539793.329	138707.360	1.624	116.391

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	S01	S02	13.538	0.600	119.885	119.715	0.170	79.6	150	5.20	50.0
1.001	S02	S03	4.411	0.600	119.715	119.655	0.060	73.5	150	5.26	50.0
1.002	S03	S04	20.466	0.600	119.655	119.400	0.255	80.3	150	5.57	50.0
1.003	S04	S05	8.360	0.600	119.400	119.295	0.105	79.6	150	5.69	50.0
1.004	S05	S06	27.860	0.600	119.295	118.950	0.345	80.8	150	6.11	50.0
1.005	S06	S07	14.300	0.600	118.950	118.740	0.210	68.1	150	6.30	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	1.127	19.9	0.9	0.623	0.758	0.005	0.0	22	0.573
1.001	1.174	20.7	2.7	0.758	0.713	0.015	0.0	37	0.814
1.002	1.123	19.8	3.6	0.713	0.968	0.020	0.0	43	0.853
1.003	1.127	19.9	4.2	0.968	1.073	0.023	0.0	47	0.894
1.004	1.119	19.8	7.8	1.073	0.787	0.043	0.0	65	1.053
1.005	1.220	21.6	7.8	0.787	0.950	0.043	0.0	62	1.124

Links

Name	US Node	DS Node	Length (m)	ks (mm) / n	US IL (m)	DS IL (m)	Fall (m)	Slope (1:X)	Dia (mm)	T of C (mins)	Rain (mm/hr)
1.006	S07	EX-S12	18.658	0.600	118.740	118.270	0.470	39.7	110	6.54	50.0
2.000	S08	S09	6.974	0.600	119.885	119.795	0.090	77.5	150	5.10	50.0
2.001	S09	S10	13.993	0.600	119.795	119.610	0.185	75.6	150	5.30	50.0
2.002	S10	EX-S11	5.287	0.600	119.610	119.130	0.480	11.0	150	5.33	50.0
2.003	EX-S11	EX-S12	15.654	0.600	119.130	118.270	0.860	18.2	110	5.47	50.0
1.007	EX-S12	EX-S15	18.390	0.600	118.230	117.860	0.370	49.7	150	6.75	50.0
3.000	EX-S13	EX-S14	28.997	0.600	120.410	118.520	1.890	15.3	110	5.23	50.0
3.001	EX-S14	EX-S15	8.704	0.600	118.480	117.860	0.620	14.0	150	5.28	50.0
1.008	EX-S15	EX-S19	9.500	0.600	117.860	117.118	0.742	12.8	150	6.81	50.0
4.000	S16	S17	34.991	0.600	119.408	117.519	1.889	18.5	150	5.25	50.0
4.001	S17	EX-S18	1.000	0.600	117.519	117.500	0.019	52.6	150	5.26	50.0
4.002	EX-S18	EX-S19	1.650	0.600	117.250	117.118	0.132	12.5	150	5.27	50.0
1.009	EX-S19	DUMMY	6.263	0.600	117.118	116.391	0.727	8.6	150	6.84	50.0

Name	Vel (m/s)	Cap (l/s)	Flow (l/s)	US Depth (m)	DS Depth (m)	Σ Area (ha)	Σ Add Inflow (l/s)	Pro Depth (mm)	Pro Velocity (m/s)
1.006	1.307	12.4	8.3	0.990	1.350	0.046	0.0	66	1.399
2.000	1.143	20.2	3.3	0.552	0.633	0.018	0.0	41	0.842
2.001	1.157	20.4	5.4	0.633	0.900	0.030	0.0	52	0.977
2.002	3.053	53.9	7.0	0.900	1.150	0.039	0.0	37	2.122
2.003	1.936	18.4	8.7	1.190	1.350	0.048	0.0	53	1.904
1.007	1.430	25.3	24.4	1.350	1.218	0.135	0.0	119	1.624
3.000	2.110	20.1	3.3	0.990	0.990	0.018	0.0	30	1.545
3.001	2.702	47.8	7.8	0.990	1.218	0.043	0.0	41	1.995
1.008	2.830	50.0	32.2	1.218	1.474	0.178	0.0	88	3.002
4.000	2.351	41.5	3.3	0.582	1.559	0.018	0.0	28	1.407
4.001	1.389	24.6	7.6	1.559	1.229	0.042	0.0	57	1.226
4.002	2.865	50.6	7.6	1.479	1.474	0.042	0.0	39	2.063
1.009	3.453	61.0	39.8	1.474	1.474	0.220	0.0	88	3.671

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	13.538	79.6	150	Circular	120.658	119.885	0.623	120.623	119.715	0.758
1.001	4.411	73.5	150	Circular	120.623	119.715	0.758	120.518	119.655	0.713
1.002	20.466	80.3	150	Circular	120.518	119.655	0.713	120.518	119.400	0.968
1.003	8.360	79.6	150	Circular	120.518	119.400	0.968	120.518	119.295	1.073
1.004	27.860	80.8	150	Circular	120.518	119.295	1.073	119.887	118.950	0.787
1.005	14.300	68.1	150	Circular	119.887	118.950	0.787	119.840	118.740	0.950
1.006	18.658	39.7	110	Circular	119.840	118.740	0.990	119.730	118.270	1.350

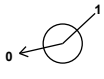
Link	US Node	Dia (mm)	Node Type	MH Type	DS Node	Dia (mm)	Node Type	MH Type
1.000	S01	450	Manhole	Adoptable	S02	450	Manhole	Adoptable
1.001	S02	450	Manhole	Adoptable	S03	450	Manhole	Adoptable
1.002	S03	450	Manhole	Adoptable	S04	450	Manhole	Adoptable
1.003	S04	450	Manhole	Adoptable	S05	450	Manhole	Adoptable
1.004	S05	450	Manhole	Adoptable	S06	450	Manhole	Adoptable
1.005	S06	450	Manhole	Adoptable	S07	450	Manhole	Adoptable
1.006	S07	450	Manhole	Adoptable	EX-S12	1200	Manhole	Adoptable

Pipeline Schedule

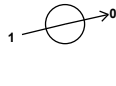
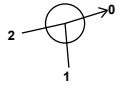
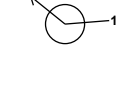
Link	Length (m)	Slope (1:X)	Dia (mm)	Link Type	US CL (m)	US IL (m)	US Depth (m)	DS CL (m)	DS IL (m)	DS Depth (m)
2.000	6.974	77.5	150	Circular	120.587	119.885	0.552	120.578	119.795	0.633
2.001	13.993	75.6	150	Circular	120.578	119.795	0.633	120.660	119.610	0.900
2.002	5.287	11.0	150	Circular	120.660	119.610	0.900	120.430	119.130	1.150
2.003	15.654	18.2	110	Circular	120.430	119.130	1.190	119.730	118.270	1.350
1.007	18.390	49.7	150	Circular	119.730	118.230	1.350	119.228	117.860	1.218
3.000	28.997	15.3	110	Circular	121.510	120.410	0.990	119.620	118.520	0.990
3.001	8.704	14.0	150	Circular	119.620	118.480	0.990	119.228	117.860	1.218
1.008	9.500	12.8	150	Circular	119.228	117.860	1.218	118.742	117.118	1.474
4.000	34.991	18.5	150	Circular	120.140	119.408	0.582	119.228	117.519	1.559
4.001	1.000	52.6	150	Circular	119.228	117.519	1.559	118.879	117.500	1.229
4.002	1.650	12.5	150	Circular	118.879	117.250	1.479	118.742	117.118	1.474
1.009	6.263	8.6	150	Circular	118.742	117.118	1.474	118.015	116.391	1.474

Link	US Node	Dia (mm)	Node Type	MH Type	DS Node	Dia (mm)	Node Type	MH Type
2.000	S08	450	Manhole	Adoptable	S09	450	Manhole	Adoptable
2.001	S09	450	Manhole	Adoptable	S10	450	Manhole	Adoptable
2.002	S10	450	Manhole	Adoptable	EX-S11	450	Manhole	Adoptable
2.003	EX-S11	450	Manhole	Adoptable	EX-S12	1200	Manhole	Adoptable
1.007	EX-S12	1200	Manhole	Adoptable	EX-S15	450	Manhole	Adoptable
3.000	EX-S13	450	Manhole	Adoptable	EX-S14	450	Manhole	Adoptable
3.001	EX-S14	450	Manhole	Adoptable	EX-S15	450	Manhole	Adoptable
1.008	EX-S15	450	Manhole	Adoptable	EX-S19	1500	Manhole	Adoptable
4.000	S16	450	Manhole	Adoptable	S17	450	Manhole	Adoptable
4.001	S17	450	Manhole	Adoptable	EX-S18	1200	Manhole	Adoptable
4.002	EX-S18	1200	Manhole	Adoptable	EX-S19	1500	Manhole	Adoptable
1.009	EX-S19	1500	Manhole	Adoptable	DUMMY		Junction	

Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)
S01	539784.934	138653.399	120.658	0.773	450				
						0	1.000	119.885	150
S02	539771.737	138650.378	120.623	0.908	450				
						0	1.001	119.715	150
S03	539768.509	138647.372	120.518	0.863	450				
						0	1.002	119.655	150
S04	539748.556	138642.818	120.518	1.118	450				
						0	1.003	119.400	150
S05	539746.697	138650.969	120.518	1.223	450				
						0	1.004	119.295	150

Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)
S06	539744.598	138678.749	119.887	0.937	450	 1	1.004	118.950	150
S07	539758.497	138682.111	119.840	1.100	450	 1	0 1.005 118.950 150 1 1.005 118.740 150		
S08	539763.498	138667.104	120.587	0.702	450	 0	0 1.006 118.740 110		
S09	539765.899	138660.556	120.578	0.783	450	 1	0 2.000 119.885 150 1 2.000 119.795 150		
S10	539779.036	138665.374	120.660	1.050	450	 1	0 2.001 119.795 150 1 2.001 119.610 150		
EX-S11	539778.065	138670.571	120.430	1.300	450	 1	0 2.002 119.610 150 1 2.002 119.130 150		
EX-S12	539776.708	138686.166	119.730	1.500	1200	 2	1 2.003 119.130 110 2 1.006 118.270 110 0 1.007 118.230 150		
EX-S13	539801.604	138654.684	121.510	1.100	450	 0	0 3.000 120.410 110		
EX-S14	539795.254	138682.977	119.620	1.140	450	 1	1 3.000 118.520 110 0 3.001 118.480 150		
EX-S15	539794.269	138691.625	119.228	1.368	450	 2	1 3.001 117.860 150 2 1.007 117.860 150 0 1.008 117.860 150		
S16	539814.743	138666.485	120.140	0.732	450	 0	0 4.000 119.408 150		
S17	539807.152	138700.642	119.228	1.709	450	 1	1 4.000 117.519 150 0 4.001 117.519 150		
EX-S18	539795.439	138699.709	118.879	1.629	1200	 1	1 4.001 117.500 150 0 4.002 117.250 150		

Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)	
EX-S19	539793.703	138701.108	118.742	1.624	1500		1	4.002	117.118	150
							2	1.008	117.118	150
							0	1.009	117.118	150
DUMMY	539793.329	138707.360	118.015	1.624			1	1.009	116.391	150

Node EX-S12 Online Orifice Control

Flap Valve	x	Invert Level (m)	118.230	Discharge Coefficient	0.600
Replaces Downstream Link	x	Diameter (m)	0.100		

Node EX-S18 Online Orifice Control

Flap Valve	x	Invert Level (m)	117.250	Discharge Coefficient	0.600
Replaces Downstream Link	x	Diameter (m)	0.025		

Node EX-S11 Online Orifice Control

Flap Valve	x	Invert Level (m)	119.130	Discharge Coefficient	0.600
Replaces Downstream Link	x	Diameter (m)	0.050		

Node S06 Soakaway Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Invert Level (m)	118.950	Depth (m)	0.400
Side Inf Coefficient (m/hr)	0.00000	Time to half empty (mins)	17	Inf Depth (m)	
Safety Factor	5.0	Pit Width (m)	3.500	Number Required	1
Porosity	0.95	Pit Length (m)	13.000		

Node EX-S11 Soakaway Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Invert Level (m)	119.200	Depth (m)	0.800
Side Inf Coefficient (m/hr)	0.00000	Time to half empty (mins)	48	Inf Depth (m)	
Safety Factor	5.0	Pit Width (m)	6.500	Number Required	1
Porosity	0.95	Pit Length (m)	4.000		

Node EX-S18 Depth/Area Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Safety Factor	5.0	Invert Level (m)	117.250
Side Inf Coefficient (m/hr)	0.00000	Porosity	0.95	Time to half empty (mins)	312

Depth (m)	Area (m²)	Inf Area (m²)	Depth (m)	Area (m²)	Inf Area (m²)	Depth (m)	Area (m²)	Inf Area (m²)
0.000	36.0	0.0	0.800	36.0	0.0	0.801	0.0	0.0

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
15 minute summer	S01	11	119.903	0.018	0.6	0.0028	0.0000	OK
15 minute summer	S02	10	119.746	0.031	1.8	0.0050	0.0000	OK
15 minute summer	S03	10	119.690	0.035	2.4	0.0056	0.0000	OK
15 minute summer	S04	10	119.437	0.037	2.8	0.0059	0.0000	OK
15 minute summer	S05	10	119.356	0.061	5.0	0.0096	0.0000	OK
30 minute summer	S06	22	118.984	0.034	4.4	1.4740	0.0000	OK
120 minute summer	S07	68	118.774	0.034	2.5	0.0054	0.0000	OK
15 minute summer	S08	10	119.918	0.033	2.1	0.0053	0.0000	OK
15 minute summer	S09	10	119.840	0.045	3.5	0.0072	0.0000	OK
15 minute summer	S10	10	119.639	0.029	4.5	0.0047	0.0000	OK
120 minute summer	EX-S11	74	119.253	0.123	3.2	1.3304	0.0000	SURCHARGED
30 minute summer	EX-S12	20	118.397	0.167	7.3	0.1888	0.0000	SURCHARGED
15 minute summer	EX-S13	10	120.434	0.024	2.1	0.0038	0.0000	OK
15 minute summer	EX-S14	10	118.513	0.033	5.0	0.0052	0.0000	OK
15 minute summer	EX-S15	11	117.912	0.052	11.4	0.0083	0.0000	OK
15 minute summer	S16	10	119.431	0.023	2.1	0.0036	0.0000	OK
15 minute summer	S17	10	117.575	0.055	4.9	0.0088	0.0000	OK
480 minute summer	EX-S18	296	117.387	0.137	1.3	4.8347	0.0000	OK
15 minute summer	EX-S19	11	117.164	0.046	11.5	0.0811	0.0000	OK
15 minute summer	DUMMY	11	116.435	0.044	11.5	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	S01	1.000	S02	0.6	0.327	0.030	0.0259	
15 minute summer	S02	1.001	S03	1.8	0.617	0.086	0.0127	
15 minute summer	S03	1.002	S04	2.4	0.722	0.119	0.0669	
15 minute summer	S04	1.003	S05	2.7	0.559	0.135	0.0421	
15 minute summer	S05	1.004	S06	5.0	1.370	0.254	0.1129	
30 minute summer	S06	1.005	S07	2.3	0.791	0.108	0.0419	
120 minute summer	S07	1.006	EX-S12	2.5	0.597	0.203	0.1092	
15 minute summer	S08	2.000	S09	2.1	0.573	0.103	0.0255	
15 minute summer	S09	2.001	S10	3.4	1.014	0.169	0.0481	
15 minute summer	S10	2.002	EX-S11	4.5	0.682	0.084	0.0433	
120 minute summer	EX-S11	2.003	EX-S12	1.6	0.957	0.089	0.0829	
30 minute summer	EX-S12	1.007	EX-S15	7.0	1.274	0.275	0.1027	
15 minute summer	EX-S13	3.000	EX-S14	2.1	1.355	0.103	0.0443	
15 minute summer	EX-S14	3.001	EX-S15	5.0	1.240	0.104	0.0358	
15 minute summer	EX-S15	1.008	EX-S19	11.4	2.277	0.227	0.0475	
15 minute summer	S16	4.000	S17	2.1	0.569	0.050	0.1331	
15 minute summer	S17	4.001	EX-S18	4.8	0.931	0.196	0.0052	
480 minute summer	EX-S18	4.002	EX-S19	0.5	0.766	0.009	0.0026	
15 minute summer	EX-S19	1.009	DUMMY	11.5	2.590	0.188	0.0278	10.7

Results for 30 year +35% CC Critical Storm Duration. Lowest mass balance: 99.86%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	S01	10	119.926	0.041	3.2	0.0064	0.0000	OK
15 minute summer	S02	12	119.855	0.140	9.7	0.0223	0.0000	OK
15 minute summer	S03	12	119.842	0.187	12.8	0.0297	0.0000	SURCHARGED
15 minute summer	S04	12	119.748	0.348	13.8	0.0554	0.0000	SURCHARGED
15 minute summer	S05	12	119.689	0.394	25.1	0.0626	0.0000	SURCHARGED
30 minute summer	S06	24	119.249	0.299	29.2	12.9857	0.0000	SURCHARGED
30 minute summer	S07	23	119.229	0.489	9.6	0.0778	0.0000	SURCHARGED
15 minute summer	S08	10	119.978	0.093	11.7	0.0149	0.0000	OK
15 minute summer	S09	10	119.924	0.129	19.4	0.0205	0.0000	OK
60 minute summer	S10	45	119.755	0.145	17.5	0.0230	0.0000	OK
60 minute summer	EX-S11	45	119.752	0.622	21.4	13.7471	0.0000	SURCHARGED
15 minute summer	EX-S12	11	119.279	1.049	27.7	1.1862	0.0000	SURCHARGED
15 minute summer	EX-S13	10	120.472	0.062	11.7	0.0098	0.0000	OK
15 minute summer	EX-S14	11	118.570	0.090	27.8	0.0143	0.0000	OK
15 minute summer	EX-S15	11	118.143	0.283	46.7	0.0450	0.0000	SURCHARGED
15 minute summer	S16	10	119.462	0.054	11.7	0.0086	0.0000	OK
360 minute summer	S17	256	117.828	0.309	5.9	0.0491	0.0000	SURCHARGED
360 minute summer	EX-S18	256	117.828	0.578	5.6	20.4177	0.0000	SURCHARGED
15 minute summer	EX-S19	11	117.227	0.109	46.6	0.1921	0.0000	OK
15 minute summer	DUMMY	11	116.489	0.098	46.7	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	S01	1.000	S02	3.2	0.459	0.160	0.1389	
15 minute summer	S02	1.001	S03	9.6	0.913	0.462	0.0766	
15 minute summer	S03	1.002	S04	11.9	1.018	0.598	0.3603	
15 minute summer	S04	1.003	S05	13.4	0.760	0.672	0.1472	
15 minute summer	S05	1.004	S06	24.6	1.585	1.242	0.4905	
30 minute summer	S06	1.005	S07	9.6	0.905	0.445	0.2517	
30 minute summer	S07	1.006	EX-S12	9.8	1.037	0.790	0.1766	
15 minute summer	S08	2.000	S09	11.6	0.831	0.576	0.0964	
15 minute summer	S09	2.001	S10	19.3	1.456	0.943	0.1911	
60 minute summer	S10	2.002	EX-S11	17.4	1.136	0.322	0.0926	
60 minute summer	EX-S11	2.003	EX-S12	4.0	1.245	0.218	0.1185	
15 minute summer	EX-S12	1.007	EX-S15	20.6	1.645	0.816	0.3238	
15 minute summer	EX-S13	3.000	EX-S14	11.6	2.150	0.577	0.1561	
15 minute summer	EX-S14	3.001	EX-S15	27.5	1.964	0.577	0.1244	
15 minute summer	EX-S15	1.008	EX-S19	46.1	2.941	0.921	0.1486	
15 minute summer	S16	4.000	S17	11.6	0.843	0.280	0.4086	
360 minute summer	S17	4.001	EX-S18	5.6	0.943	0.226	0.0176	
360 minute summer	EX-S18	4.002	EX-S19	1.0	1.060	0.019	0.0064	
15 minute summer	EX-S19	1.009	DUMMY	46.7	3.602	0.765	0.0811	57.9

Results for 100 year +45% CC Critical Storm Duration. Lowest mass balance: 99.88%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	S01	12	120.209	0.324	4.4	0.0516	0.0000	SURCHARGED
15 minute summer	S02	12	120.204	0.489	12.5	0.0778	0.0000	SURCHARGED
15 minute summer	S03	12	120.184	0.529	13.4	0.0841	0.0000	SURCHARGED
15 minute summer	S04	12	120.067	0.666	14.8	0.1060	0.0000	SURCHARGED
15 minute summer	S05	12	119.994	0.699	29.7	0.1111	0.0000	SURCHARGED
30 minute summer	S06	24	119.831	0.881	37.7	17.4517	0.0000	FLOOD RISK
60 minute summer	S07	41	119.786	1.046	10.4	0.1663	0.0000	FLOOD RISK
15 minute summer	S08	12	120.199	0.314	15.9	0.0500	0.0000	SURCHARGED
60 minute summer	S09	47	120.173	0.378	18.5	0.0602	0.0000	SURCHARGED
60 minute summer	S10	47	120.168	0.558	24.0	0.0888	0.0000	SURCHARGED
60 minute summer	EX-S11	47	120.165	1.034	27.5	19.9492	0.0000	FLOOD RISK
30 minute summer	EX-S12	19	119.651	1.421	33.3	1.6067	0.0000	FLOOD RISK
15 minute summer	EX-S13	10	120.484	0.074	15.9	0.0118	0.0000	OK
15 minute summer	EX-S14	11	118.907	0.427	37.9	0.0679	0.0000	SURCHARGED
15 minute summer	EX-S15	12	118.436	0.576	54.5	0.0916	0.0000	SURCHARGED
15 minute summer	S16	10	119.472	0.064	15.9	0.0102	0.0000	OK
360 minute summer	S17	264	118.101	0.582	7.9	0.0926	0.0000	SURCHARGED
360 minute summer	EX-S18	264	118.101	0.851	7.6	28.3398	0.0000	SURCHARGED
15 minute summer	EX-S19	12	117.244	0.126	54.5	0.2234	0.0000	OK
15 minute summer	DUMMY	12	116.502	0.111	54.6	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)
15 minute summer	S01	1.000	S02	4.1	0.467	0.207	0.2383	
15 minute summer	S02	1.001	S03	9.6	0.898	0.463	0.0777	
15 minute summer	S03	1.002	S04	12.8	0.981	0.644	0.3603	
15 minute summer	S04	1.003	S05	15.6	0.886	0.783	0.1472	
15 minute summer	S05	1.004	S06	27.9	1.609	1.412	0.4905	
30 minute summer	S06	1.005	S07	13.8	0.902	0.640	0.2517	
60 minute summer	S07	1.006	EX-S12	10.0	1.060	0.808	0.1766	
15 minute summer	S08	2.000	S09	15.0	0.851	0.742	0.1228	
60 minute summer	S09	2.001	S10	18.4	1.328	0.901	0.2463	
60 minute summer	S10	2.002	EX-S11	22.1	1.314	0.410	0.0931	
60 minute summer	EX-S11	2.003	EX-S12	5.7	1.251	0.311	0.1482	
30 minute summer	EX-S12	1.007	EX-S15	23.3	1.686	0.921	0.3238	
15 minute summer	EX-S13	3.000	EX-S14	15.8	2.138	0.790	0.2355	
15 minute summer	EX-S14	3.001	EX-S15	35.5	2.041	0.744	0.1532	
15 minute summer	EX-S15	1.008	EX-S19	53.7	3.077	1.074	0.1589	
15 minute summer	S16	4.000	S17	15.8	1.096	0.381	0.4340	
360 minute summer	S17	4.001	EX-S18	7.6	0.919	0.310	0.0176	
360 minute summer	EX-S18	4.002	EX-S19	1.2	1.120	0.024	0.0075	
15 minute summer	EX-S19	1.009	DUMMY	54.6	3.655	0.894	0.0932	78.4