

Simulation Settings

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

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 %)	Return Period (years)	Climate Change (CC %)	Additional Area (A %)	Additional Flow (Q %)
1	0	0	0	100	45	0	0
30	35	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
S13	0.043	5.00	121.110	450	539802.241	138658.850	1.200	119.910
S14	0.025	5.00	119.520	450	539796.384	138685.104	0.700	118.820
S15	0.000	5.00	119.200	450	539797.513	138691.182	1.175	118.025
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
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
1.006	S07	EX-S12	18.658	0.600	118.740	118.230	0.510	36.6	150	6.49	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	S15	18.390	0.600	118.230	118.100	0.130	141.5	150	6.85	50.0
3.000	S13	S14	28.997	0.600	119.910	118.820	1.090	26.6	150	5.25	50.0
3.001	S14	S15	8.704	0.600	118.820	118.100	0.720	12.1	150	5.30	50.0
1.008	S15	S18	9.500	0.600	118.025	117.250	0.775	12.3	225	6.89	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
1.006	1.669	29.5	8.3	0.950	1.350	0.046	0.0	54	1.435
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	0.843	14.9	24.4	1.350	0.950	0.135	0.0	150	0.859
3.000	1.960	34.6	7.8	1.050	0.550	0.043	0.0	48	1.587
3.001	2.913	51.5	12.3	0.550	0.950	0.068	0.0	50	2.391
1.008	3.757	149.4	36.7	0.950	1.404	0.203	0.0	76	3.130

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)
4.000	S16	S17	34.991	0.600	119.408	117.519	1.889	18.5	150	5.25	50.0
4.001	S17	S18	1.000	0.600	117.519	117.500	0.019	52.6	150	5.26	50.0
4.002	S18	EX-S19	1.650	0.600	117.250	117.118	0.132	12.5	150	6.90	50.0
1.009	EX-S19	DUMMY	6.263	0.600	117.118	116.391	0.727	8.6	150	6.93	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)
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	44.3	1.479	1.474	0.245	0.0	109	3.218
1.009	3.453	61.0	44.3	1.474	1.474	0.245	0.0	95	3.754

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	36.6	150	Circular	119.840	118.740	0.950	119.730	118.230	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

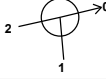
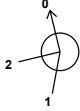
Link	Length (m)	Slope (1:X)	Dia (mm)	Link Type	US CL (m)	US IL (m)	US Depth (m)	DS CL (m)	DS IL (m)	DS Depth (m)
2.000	6.974	77.5	150	Circular	120.587	119.885	0.552	120.578	119.795	0.633
2.001	13.993	75.6	150	Circular	120.578	119.795	0.633	120.660	119.610	0.900
2.002	5.287	11.0	150	Circular	120.660	119.610	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	141.5	150	Circular	119.730	118.230	1.350	119.200	118.100	0.950
3.000	28.997	26.6	150	Circular	121.110	119.910	1.050	119.520	118.820	0.550
3.001	8.704	12.1	150	Circular	119.520	118.820	0.550	119.200	118.100	0.950
1.008	9.500	12.3	225	Circular	119.200	118.025	0.950	118.879	117.250	1.404
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	S15	450	Manhole	Adoptable
3.000	S13	450	Manhole	Adoptable	S14	450	Manhole	Adoptable
3.001	S14	450	Manhole	Adoptable	S15	450	Manhole	Adoptable
1.008	S15	450	Manhole	Adoptable	S18	1200	Manhole	Adoptable
4.000	S16	450	Manhole	Adoptable	S17	450	Manhole	Adoptable
4.001	S17	450	Manhole	Adoptable	S18	1200	Manhole	Adoptable
4.002	S18	1200	Manhole	Adoptable	EX-S19	1500	Manhole	Adoptable
1.009	EX-S19	1500	Manhole	Adoptable	DUMMY		Junction	

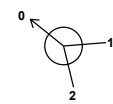
Manhole Schedule

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		1	1.000	119.715
						0	1.001	119.715	150
S03	539768.509	138647.372	120.518	0.863	450		1	1.001	119.655
						0	1.002	119.655	150
S04	539748.556	138642.818	120.518	1.118	450		1	1.002	119.400
						0	1.003	119.400	150
S05	539746.697	138650.969	120.518	1.223	450		1	1.003	119.295
						0	1.004	119.295	150
S06	539744.598	138678.749	119.887	0.937	450		1	1.004	118.950
						0	1.005	118.950	150
S07	539758.497	138682.111	119.840	1.100	450		1	1.005	118.740
						0	1.006	118.740	150
S08	539763.498	138667.104	120.587	0.702	450				
						0	2.000	119.885	150

Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)
S09	539765.899	138660.556	120.578	0.783	450		1 2.000	119.795	150
S10	539779.036	138665.374	120.660	1.050	450		0 2.001 1 2.001	119.795 119.610	150 150
EX-S11	539778.065	138670.571	120.430	1.300	450		0 2.002 1 2.002	119.610 119.130	150 150
EX-S12	539776.708	138686.166	119.730	1.500	1200		0 2.003 1 2.003 2 1.006	119.130 118.270 118.230	110 110 150
S13	539802.241	138658.850	121.110	1.200	450		0 3.000 1 3.000	119.910 118.820	150 150
S14	539796.384	138685.104	119.520	0.700	450		0 3.001 1 3.001 2 1.007	118.820 118.100 118.100	150 150 150
S15	539797.513	138691.182	119.200	1.175	450		0 1.008 1 1.008 2 1.008	118.025 118.025 118.025	225 225 225
S16	539814.743	138666.485	120.140	0.732	450		0 4.000	119.408	150

Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)
S17	539807.152	138700.642	119.228	1.709	450		1 4.000	117.519	150
S18	539795.439	138699.709	118.879	1.629	1200		0 4.001 1 4.001 2 1.008	117.519 117.500 117.250	150 150 225
EX-S19	539793.703	138701.108	118.742	1.624	1500		0 4.002 1 4.002	117.250 117.118	150 150
DUMMY	539793.329	138707.360	118.015	1.624			0 1.009 1 1.009	117.118 116.391	150 150

Node EX-S12 Online Orifice Control

Flap Valve	x	Invert Level (m)	118.230	Discharge Coefficient	0.600
Replaces Downstream Link	x	Diameter (m)	0.120		

Node S18 Online Orifice Control

Flap Valve	x	Invert Level (m)	117.250	Design Flow (l/s)	20.0	Discharge Coefficient	0.600
Replaces Downstream Link	x	Design Depth (m)	1.200	Diameter (m)	0.200		

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	Porosity	0.95	Pit Width (m)	3.500	Inf Depth (m)	
Side Inf Coefficient (m/hr)	0.00000	Invert Level (m)	118.950	Pit Length (m)	13.000	Number Required	1
Safety Factor	5.0	Time to half empty (mins)	13	Depth (m)	0.400		

Node EX-S11 Soakaway Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Porosity	0.95	Pit Width (m)	6.500	Inf Depth (m)	
Side Inf Coefficient (m/hr)	0.00000	Invert Level (m)	119.200	Pit Length (m)	4.000	Number Required	1
Safety Factor	5.0	Time to half empty (mins)	51	Depth (m)	0.800		

Node 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)	15

Depth (m)	Area (m ²)	Inf Area (m ²)	Depth (m)	Area (m ²)	Inf Area (m ²)	Depth (m)	Area (m ²)	Inf Area (m ²)
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
120 minute summer	S06	68	118.985	0.034	2.8	1.4966	0.0000	OK
120 minute summer	S07	68	118.770	0.030	2.5	0.0047	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	19	118.359	0.129	7.2	0.1463	0.0000	OK
15 minute summer	S13	10	119.949	0.038	5.0	0.0061	0.0000	OK
15 minute summer	S14	10	118.862	0.042	7.9	0.0066	0.0000	OK
15 minute summer	S15	11	118.072	0.047	14.5	0.0075	0.0000	OK
15 minute summer	S16	10	119.431	0.023	2.1	0.0036	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	
120 minute summer	S06	1.005	S07	2.3	0.844	0.107	0.0393	
120 minute summer	S07	1.006	EX-S12	2.5	0.285	0.085	0.1638	
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	1.051	0.089	0.0682	
30 minute summer	EX-S12	1.007	S15	7.0	0.818	0.472	0.1582	
15 minute summer	S13	3.000	S14	5.0	1.322	0.144	0.1092	
15 minute summer	S14	3.001	S15	7.8	2.039	0.152	0.0334	
15 minute summer	S15	1.008	S18	14.5	2.045	0.097	0.1320	
15 minute summer	S16	4.000	S17	2.1	0.569	0.050	0.1331	

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	S17	10	117.575	0.055	4.9	0.0088	0.0000	OK
30 minute summer	S18	21	117.385	0.135	18.2	4.7645	0.0000	OK
30 minute summer	EX-S19	22	117.166	0.048	12.4	0.0846	0.0000	OK
30 minute summer	DUMMY	22	116.437	0.046	12.5	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	S17	4.001	S18	4.8	0.931	0.196	0.0052	
30 minute summer	S18	4.002	EX-S19	12.4	2.027	0.246	0.0102	
30 minute summer	EX-S19	1.009	DUMMY	12.5	2.647	0.204	0.0295	15.9

Results for 30 year +35% CC Critical Storm Duration. Lowest mass balance: 99.95%

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	119.857	0.141	9.7	0.0225	0.0000	OK
15 minute summer	S03	12	119.842	0.187	12.8	0.0298	0.0000	SURCHARGED
15 minute summer	S04	12	119.746	0.346	13.8	0.0550	0.0000	SURCHARGED
15 minute summer	S05	12	119.685	0.390	25.0	0.0619	0.0000	SURCHARGED
30 minute summer	S06	23	119.207	0.257	28.5	11.1535	0.0000	SURCHARGED
30 minute summer	S07	21	119.169	0.429	14.2	0.0682	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	119.754	0.144	17.5	0.0229	0.0000	OK
60 minute summer	EX-S11	45	119.751	0.621	21.4	13.7220	0.0000	SURCHARGED
30 minute summer	EX-S12	21	119.142	0.912	31.5	1.0315	0.0000	SURCHARGED
15 minute summer	S13	10	120.012	0.102	27.9	0.0162	0.0000	OK
15 minute summer	S14	10	118.948	0.128	44.0	0.0203	0.0000	OK
30 minute summer	S15	19	118.149	0.124	62.5	0.0198	0.0000	OK
15 minute summer	S16	10	119.462	0.054	11.7	0.0086	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	0.1420	
15 minute summer	S02	1.001	S03	9.6	0.913	0.462	0.0768	
15 minute summer	S03	1.002	S04	11.9	1.018	0.598	0.3603	
15 minute summer	S04	1.003	S05	13.6	0.773	0.683	0.1472	
15 minute summer	S05	1.004	S06	25.3	1.584	1.279	0.4905	
30 minute summer	S06	1.005	S07	14.2	1.130	0.659	0.2517	
30 minute summer	S07	1.006	EX-S12	14.4	0.818	0.488	0.3285	
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	0.1908	
60 minute summer	S10	2.002	EX-S11	17.4	1.136	0.322	0.0924	
60 minute summer	EX-S11	2.003	EX-S12	4.0	1.288	0.217	0.0947	
30 minute summer	EX-S12	1.007	S15	22.7	1.291	1.525	0.3154	
15 minute summer	S13	3.000	S14	27.8	1.919	0.802	0.4166	
15 minute summer	S14	3.001	S15	43.6	2.970	0.847	0.1274	
30 minute summer	S15	1.008	S18	62.4	2.350	0.418	0.2957	
15 minute summer	S16	4.000	S17	11.6	0.843	0.280	0.4086	

Results for 30 year +35% CC Critical Storm Duration. Lowest mass balance: 99.95%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
30 minute summer	S17	22	117.896	0.377	24.9	0.0599	0.0000	SURCHARGED
30 minute summer	S18	22	117.884	0.634	85.6	22.4063	0.0000	SURCHARGED
30 minute summer	EX-S19	23	117.228	0.110	47.1	0.1936	0.0000	OK
30 minute summer	DUMMY	23	116.490	0.099	47.1	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)
30 minute summer	S17	4.001	S18	23.4	1.339	0.952	0.0176	
30 minute summer	S18	4.002	EX-S19	47.1	2.789	0.930	0.0259	
30 minute summer	EX-S19	1.009	DUMMY	47.1	3.607	0.772	0.0817	91.6

Results for 100 year +45% CC Critical Storm Duration. Lowest mass balance: 99.75%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	S01	12	120.210	0.325	4.4	0.0516	0.0000	SURCHARGED
15 minute summer	S02	12	120.205	0.490	12.5	0.0778	0.0000	SURCHARGED
15 minute summer	S03	12	120.185	0.529	13.5	0.0842	0.0000	SURCHARGED
15 minute summer	S04	12	120.066	0.666	14.8	0.1059	0.0000	SURCHARGED
15 minute summer	S05	12	119.993	0.698	29.4	0.1109	0.0000	SURCHARGED
30 minute summer	S06	24	119.583	0.633	37.3	17.4123	0.0000	SURCHARGED
30 minute summer	S07	24	119.493	0.753	14.9	0.1197	0.0000	SURCHARGED
30 minute summer	S08	19	120.192	0.307	14.6	0.0488	0.0000	SURCHARGED
30 minute summer	S09	19	120.140	0.345	23.2	0.0548	0.0000	SURCHARGED
60 minute summer	S10	47	120.071	0.461	24.0	0.0733	0.0000	SURCHARGED
60 minute summer	EX-S11	47	120.067	0.937	27.6	19.9337	0.0000	SURCHARGED
30 minute summer	EX-S12	24	119.371	1.141	35.3	1.2909	0.0000	SURCHARGED
15 minute summer	S13	11	120.647	0.737	38.0	0.1173	0.0000	SURCHARGED
15 minute summer	S14	11	119.360	0.540	55.8	0.0859	0.0000	FLOOD RISK
30 minute summer	S15	22	118.582	0.556	76.5	0.0885	0.0000	SURCHARGED
15 minute summer	S16	10	119.472	0.064	15.9	0.0102	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	0.468	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	0.646	0.3603	
15 minute summer	S04	1.003	S05	15.8	0.896	0.792	0.1472	
15 minute summer	S05	1.004	S06	28.4	1.618	1.438	0.4905	
30 minute summer	S06	1.005	S07	14.9	1.113	0.693	0.2517	
30 minute summer	S07	1.006	EX-S12	15.3	0.867	0.518	0.3285	
30 minute summer	S08	2.000	S09	13.5	0.822	0.667	0.1228	
30 minute summer	S09	2.001	S10	22.3	1.406	1.090	0.2463	
60 minute summer	S10	2.002	EX-S11	22.1	1.315	0.410	0.0931	
60 minute summer	EX-S11	2.003	EX-S12	5.3	1.298	0.286	0.1482	
30 minute summer	EX-S12	1.007	S15	25.6	1.456	1.721	0.3238	
15 minute summer	S13	3.000	S14	34.6	1.968	1.000	0.5105	
15 minute summer	S14	3.001	S15	55.1	3.130	1.070	0.1532	
30 minute summer	S15	1.008	S18	75.9	2.477	0.508	0.3778	
15 minute summer	S16	4.000	S17	15.8	1.096	0.381	0.4340	

Results for 100 year +45% CC Critical Storm Duration. Lowest mass balance: 99.75%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
30 minute summer	S17	22	118.502	0.983	34.1	0.1562	0.0000	SURCHARGED
30 minute summer	S18	22	118.475	1.225	107.2	28.7630	0.0000	SURCHARGED
30 minute summer	EX-S19	22	117.427	0.309	61.3	0.5454	0.0000	SURCHARGED
30 minute summer	DUMMY	22	116.543	0.152	59.8	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)
30 minute summer	S17	4.001	S18	31.9	1.813	1.300	0.0176	
30 minute summer	S18	4.002	EX-S19	61.3	3.480	1.210	0.0290	
30 minute summer	EX-S19	1.009	DUMMY	59.8	3.672	0.981	0.1103	125.8