

Design Settings

Rainfall Methodology	FEH-22	Minimum Velocity (m/s)	1.00
Return Period (years)	100	Connection Type	Level Soffits
Additional Flow (%)	45	Minimum Backdrop Height (m)	0.200
CV	1.000	Preferred Cover Depth (m)	1.200
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)
H1	0.017	5.00	129.779	1200	420759.126	426741.087	1.024	128.755
1	0.027	5.00	129.899	1200	420747.239	426777.796	1.084	128.815
2	0.062	5.00	129.817	1200	420751.228	426765.491	2.317	127.500
3	0.016	5.00	129.188	450	420764.269	426775.893	0.718	128.470
J1			128.815		420766.083	426770.299	2.874	125.941
4	0.014	5.00	128.336	450	420775.215	426779.442	0.876	127.460
J2			128.027		420777.031	426773.842	3.235	124.792
5	0.014	5.00	127.912	450	420777.548	426780.199	1.112	126.800
J3			127.859		420779.364	426774.597	3.312	124.547
6		5.00	127.590	2400	420784.968	426792.948	4.090	123.500
7	0.023	5.00	127.107	2700	420789.820	426777.981	4.007	123.100
8	0.011	5.00	126.661	450	420798.091	426784.861	0.581	126.080
J4			126.449		420799.322	426781.064	3.083	123.366
9	0.016	5.00	126.099	450	420807.459	426789.659	0.874	125.225
10			125.737	2700	420809.206	426784.270	2.707	123.030
11	0.057	5.00	125.400	450	420834.002	426798.264	1.130	124.270
12			125.366	1200	420835.748	426792.876	2.166	123.200
Tank			125.442		420831.955	426791.646	2.192	123.250
13	0.015	5.00	125.399	1500	420833.284	426787.557	3.449	121.950
14			124.414	600	420843.418	426756.436	2.838	121.576

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	H1	2	25.650	0.600	128.755	127.650	1.105	23.2	300	5.13	50.0
2.000	1	2	12.935	0.600	128.815	127.650	1.165	11.1	150	5.07	50.0
1.001	2	J1	15.614	0.600	127.500	125.941	1.559	10.0	300	5.18	50.0
1.009	13	14	32.729	0.600	122.250	121.876	0.374	87.5	150	6.16	50.0
3.000	3	J1	5.881	0.600	128.470	126.091	2.379	2.5	150	5.02	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	3.277	231.6	4.5	0.724	1.867	0.017	0.0	28	1.298
2.000	3.040	53.7	7.1	0.934	2.017	0.027	0.0	37	2.114
1.001	4.995	353.1	27.8	2.017	2.574	0.106	0.0	57	3.022
1.009	1.075	19.0	71.3	2.999	2.388	0.272	0.0	150	1.095
3.000	6.458	114.1	4.2	0.568	2.574	0.016	0.0	20	3.084

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)
1.002	J1	J2	11.507	0.600	125.941	124.792	1.149	10.0	300	5.22	50.0
1.003	J2	J3	2.452	0.600	124.792	124.547	0.245	10.0	300	5.23	50.0
1.004	J3	7	10.990	0.600	124.547	123.450	1.097	10.0	300	5.27	50.0
1.006	J4	10	10.391	0.600	123.366	123.330	0.036	288.6	750	5.44	50.0
1.007	10	Tank	23.915	0.600	123.330	123.250	0.080	298.9	750	5.65	50.0
4.000	4	J2	5.887	0.600	127.460	124.942	2.518	2.3	150	5.01	50.0
5.000	5	J3	5.889	0.600	126.800	124.697	2.103	2.8	100	5.02	50.0
7.000	8	J4	3.992	0.600	126.080	123.966	2.114	1.9	150	5.01	50.0
8.000	9	10	5.665	0.600	125.225	123.930	1.295	4.4	150	5.02	50.0
9.000	11	12	5.664	0.600	124.270	123.650	0.620	9.1	150	5.03	50.0
9.001	12	Tank	3.987	0.600	123.500	123.250	0.250	15.9	300	5.04	50.0
1.005	7	J4	9.990	0.600	123.400	123.366	0.034	293.8	750	5.35	50.0
6.000	6	7	15.734	0.600	123.500	123.450	0.050	314.7	750	5.14	50.0
1.008	Tank	13	4.300	0.600	123.250	122.300	0.950	4.5	450	5.65	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)
1.002	4.995	353.1	32.0	2.574	2.935	0.122	0.0	61	3.148
1.003	4.997	353.2	35.6	2.935	3.012	0.136	0.0	64	3.235
1.004	4.994	353.0	39.3	3.012	3.357	0.150	0.0	67	3.335
1.006	1.963	2208.2	48.2	2.333	1.657	0.184	0.0	48	0.662
1.007	1.929	2169.6	52.4	1.657	1.442	0.200	0.0	52	0.680
4.000	6.641	117.4	3.7	0.726	2.935	0.014	0.0	18	2.988
5.000	4.657	36.6	3.7	1.012	3.062	0.014	0.0	21	2.988
7.000	7.392	130.6	2.9	0.431	2.333	0.011	0.0	16	3.038
8.000	4.852	85.7	4.2	0.724	1.657	0.016	0.0	23	2.526
9.000	3.353	59.3	14.9	0.980	1.566	0.057	0.0	51	2.803
9.001	3.955	279.6	14.9	1.566	1.892	0.057	0.0	47	2.131
1.005	1.945	2188.5	45.3	2.957	2.333	0.173	0.0	47	0.643
6.000	1.879	2114.2	0.0	3.340	2.907	0.000	0.0	0	0.000
1.008	9.603	1527.4	67.3	1.742	2.649	0.257	0.0	64	4.943

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	25.650	23.2	300	Circular	129.779	128.755	0.724	129.817	127.650	1.867
2.000	12.935	11.1	150	Circular	129.899	128.815	0.934	129.817	127.650	2.017
1.001	15.614	10.0	300	Circular	129.817	127.500	2.017	128.815	125.941	2.574
1.009	32.729	87.5	150	Circular	125.399	122.250	2.999	124.414	121.876	2.388
3.000	5.881	2.5	150	Circular	129.188	128.470	0.568	128.815	126.091	2.574



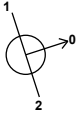

Link	US Node	Dia (mm)	Node Type	MH Type	DS Node	Dia (mm)	Node Type	MH Type
1.000	H1	1200	Manhole	Adoptable	2	1200	Manhole	Adoptable
2.000	1	1200	Manhole	Adoptable	2	1200	Manhole	Adoptable
1.001	2	1200	Manhole	Adoptable	J1		Junction	
1.009	13	1500	Manhole	Adoptable	14	600	Manhole	Adoptable
3.000	3	450	Manhole	Adoptable	J1		Junction	

Pipeline Schedule

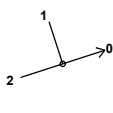

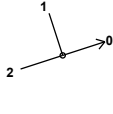

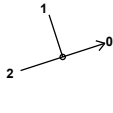

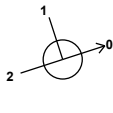

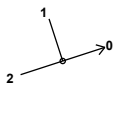

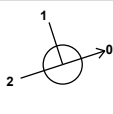

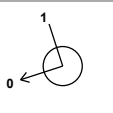
Link	Length (m)	Slope (1:X)	Dia (mm)	Link Type	US CL (m)	US IL (m)	US Depth (m)	DS CL (m)	DS IL (m)	DS Depth (m)
1.002	11.507	10.0	300	Circular	128.815	125.941	2.574	128.027	124.792	2.935
1.003	2.452	10.0	300	Circular	128.027	124.792	2.935	127.859	124.547	3.012
1.004	10.990	10.0	300	Circular	127.859	124.547	3.012	127.107	123.450	3.357
1.006	10.391	288.6	750	BC	126.449	123.366	2.333	125.737	123.330	1.657
1.007	23.915	298.9	750	BC	125.737	123.330	1.657	125.442	123.250	1.442
4.000	5.887	2.3	150	Circular	128.336	127.460	0.726	128.027	124.942	2.935
5.000	5.889	2.8	100	Circular	127.912	126.800	1.012	127.859	124.697	3.062
7.000	3.992	1.9	150	Circular	126.661	126.080	0.431	126.449	123.966	2.333
8.000	5.665	4.4	150	Circular	126.099	125.225	0.724	125.737	123.930	1.657
9.000	5.664	9.1	150	Circular	125.400	124.270	0.980	125.366	123.650	1.566
9.001	3.987	15.9	300	Circular	125.366	123.500	1.566	125.442	123.250	1.892
1.005	9.990	293.8	750	BC	127.107	123.400	2.957	126.449	123.366	2.333
6.000	15.734	314.7	750	BC	127.590	123.500	3.340	127.107	123.450	2.907
1.008	4.300	4.5	450	Circular	125.442	123.250	1.742	125.399	122.300	2.649

Link	US Node	Dia (mm)	Node Type	MH Type	DS Node	Dia (mm)	Node Type	MH Type
1.002	J1		Junction		J2		Junction	
1.003	J2		Junction		J3		Junction	
1.004	J3		Junction		7	2700	Manhole	Adoptable
1.006	J4		Junction		10	2700	Manhole	Adoptable
1.007	10	2700	Manhole	Adoptable	Tank		Junction	
4.000	4	450	Manhole	Adoptable	J2		Junction	
5.000	5	450	Manhole	Adoptable	J3		Junction	
7.000	8	450	Manhole	Adoptable	J4		Junction	
8.000	9	450	Manhole	Adoptable	10	2700	Manhole	Adoptable
9.000	11	450	Manhole	Adoptable	12	1200	Manhole	Adoptable
9.001	12	1200	Manhole	Adoptable	Tank		Junction	
1.005	7	2700	Manhole	Adoptable	J4		Junction	
6.000	6	2400	Manhole	Adoptable	7	2700	Manhole	Adoptable
1.008	Tank		Junction		13	1500	Manhole	Adoptable

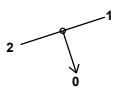


Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)
H1	420759.126	426741.087	129.779	1.024	1200				
						0	1.000	128.755	300
1	420747.239	426777.796	129.899	1.084	1200				
						0	2.000	128.815	150
2	420751.228	426765.491	129.817	2.317	1200		1	2.000	127.650
						2	1.000	127.650	300
						0	1.001	127.500	300
3	420764.269	426775.893	129.188	0.718	450				
						0	3.000	128.470	150

Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)	
J1	420766.083	426770.299	128.815	2.874			1 2 0	3.000 1.001 1.002	126.091 125.941 125.941	150 300 300
4	420775.215	426779.442	128.336	0.876	450		0	4.000	127.460	150
J2	420777.031	426773.842	128.027	3.235			1 2 0	4.000 1.002 1.003	124.942 124.792 124.792	150 300 300
5	420777.548	426780.199	127.912	1.112	450		0	5.000	126.800	100
J3	420779.364	426774.597	127.859	3.312			1 2 0	5.000 1.003 1.004	124.697 124.547 124.547	100 300 300
6	420784.968	426792.948	127.590	4.090	2400		0	6.000	123.500	750
7	420789.820	426777.981	127.107	4.007	2700		1 2 0	6.000 1.004 1.005	123.450 123.450 123.400	750 300 750
8	420798.091	426784.861	126.661	0.581	450		0	7.000	126.080	150
J4	420799.322	426781.064	126.449	3.083			1 2 0	7.000 1.005 1.006	123.966 123.366 123.366	150 750 750
9	420807.459	426789.659	126.099	0.874	450		0	8.000	125.225	150
10	420809.206	426784.270	125.737	2.707	2700		1 2 0	8.000 1.006 1.007	123.930 123.330 123.330	150 750 750
11	420834.002	426798.264	125.400	1.130	450		0	9.000	124.270	150
12	420835.748	426792.876	125.366	2.166	1200		1 0	9.000 9.001	123.650 123.500	150 300

Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)
Tank	420831.955	426791.646	125.442	2.192		 1 2 0	9.001	123.250	300
						0	1.007	123.250	750
						0	1.008	123.250	450
13	420833.284	426787.557	125.399	3.449	1500	 1 0	1.008	122.300	450
						0	1.009	122.250	150
14	420843.418	426756.436	124.414	2.838	600	 1	1.009	121.876	150

Simulation Settings

Rainfall Methodology	FEH-22	Analysis Speed	Detailed	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 (m ³ /ha)	20.0		

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
2	0	0	0
30	0	0	0
100	45	0	0

Node 7 Online Hydro-Brake® Control

Flap Valve	x	Objective	(HE) Minimise upstream storage
Replaces Downstream Link	x	Sump Available	✓
Invert Level (m)	123.400	Product Number	CTL-SHE-0199-2200-1600-2200
Design Depth (m)	1.600	Min Outlet Diameter (m)	0.225
Design Flow (l/s)	22.0	Min Node Diameter (mm)	1800

Node 13 Online Hydro-Brake® Control

Flap Valve	x	Objective	(HE) Minimise upstream storage
Replaces Downstream Link	x	Sump Available	✓
Invert Level (m)	122.250	Product Number	CTL-SHE-0078-3500-1850-3500
Design Depth (m)	1.850	Min Outlet Diameter (m)	0.100
Design Flow (l/s)	3.5	Min Node Diameter (mm)	1200

Node Tank Depth/Area Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Safety Factor	2.0	Invert Level (m)	123.250
Side Inf Coefficient (m/hr)	0.00000	Porosity	1.00	Time to half empty (mins)	240



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	132.0	132.0	1.200	132.0	180.9	1.201	0.0	180.9

Results for 1 year Critical Storm Duration. Lowest mass balance: 99.73%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m ³)	Flood (m ³)	Status
15 minute summer	H1	10	128.774	0.019	1.8	0.0275	0.0000	OK
15 minute summer	1	10	128.839	0.024	2.9	0.0391	0.0000	OK
15 minute summer	2	10	127.536	0.036	11.2	0.0607	0.0000	OK
15 minute summer	3	10	128.483	0.013	1.7	0.0079	0.0000	OK
15 minute summer	J1	10	125.980	0.039	12.8	0.0000	0.0000	OK
15 minute summer	4	10	127.472	0.012	1.5	0.0058	0.0000	OK
15 minute summer	J2	10	124.833	0.041	14.3	0.0000	0.0000	OK
15 minute summer	5	10	126.814	0.014	1.5	0.0058	0.0000	OK
15 minute summer	J3	10	124.590	0.043	15.7	0.0000	0.0000	OK
15 minute summer	6	13	123.556	0.056	6.0	0.2551	0.0000	OK
15 minute summer	7	13	123.557	0.157	18.1	0.9168	0.0000	OK
15 minute summer	8	10	126.091	0.010	1.2	0.0056	0.0000	OK
15 minute summer	J4	13	123.387	0.021	12.1	0.0000	0.0000	OK
15 minute summer	9	10	125.240	0.015	1.7	0.0079	0.0000	OK
240 minute summer	10	168	123.359	0.029	7.9	0.1668	0.0000	OK
15 minute summer	11	10	124.304	0.034	6.1	0.0402	0.0000	OK
15 minute summer	12	10	123.535	0.035	6.1	0.0393	0.0000	OK
240 minute summer	Tank	164	123.360	0.110	45.8	14.4816	0.0000	OK
240 minute summer	13	180	123.415	1.165	48.3	2.1695	0.0000	SURCHARGED
720 minute summer	14	330	121.915	0.039	2.8	0.0000	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
15 minute summer	H1	1.000	2	1.7	0.967	0.008	0.0462	
15 minute summer	1	2.000	2	2.9	1.597	0.053	0.0231	
15 minute summer	2	1.001	J1	11.1	2.188	0.032	0.0795	
15 minute summer	3	3.000	J1	1.7	2.348	0.015	0.0042	
15 minute summer	J1	1.002	J2	12.8	2.311	0.036	0.0637	
15 minute summer	4	4.000	J2	1.5	2.303	0.013	0.0038	
15 minute summer	J2	1.003	J3	14.2	2.394	0.040	0.0146	
15 minute summer	5	5.000	J3	1.5	2.280	0.041	0.0039	
15 minute summer	J3	1.004	7	15.7	2.096	0.045	0.1484	
15 minute summer	6	6.000	7	-6.0	-0.114	-0.003	1.9248	
15 minute summer	7	1.005	J4	11.5	0.374	0.005	0.3076	
15 minute summer	8	7.000	J4	1.2	2.330	0.009	0.0020	
15 minute summer	J4	1.006	10	12.1	0.380	0.005	0.3305	
15 minute summer	9	8.000	10	1.7	1.888	0.020	0.0051	
240 minute summer	10	1.007	Tank	7.9	0.214	0.004	2.4821	
15 minute summer	11	9.000	12	6.1	2.079	0.102	0.0165	
15 minute summer	12	9.001	Tank	6.1	2.516	0.022	0.0125	
240 minute summer	Tank	1.008	13	48.3	1.160	0.032	0.4048	
240 minute summer	13	1.009	14	2.8	0.767	0.146	0.1187	44.7

Results for 2 year Critical Storm Duration. Lowest mass balance: 99.46%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m ³)	Flood (m ³)	Status
15 minute summer	H1	10	128.778	0.023	2.7	0.0334	0.0000	OK
15 minute summer	1	10	128.844	0.029	4.3	0.0477	0.0000	OK
15 minute summer	2	10	127.544	0.044	16.8	0.0740	0.0000	OK
15 minute summer	3	10	128.486	0.016	2.5	0.0095	0.0000	OK
15 minute summer	J1	10	125.988	0.047	19.2	0.0000	0.0000	OK
15 minute summer	4	10	127.475	0.015	2.2	0.0070	0.0000	OK
15 minute summer	J2	10	124.842	0.050	21.4	0.0000	0.0000	OK
15 minute summer	5	10	126.817	0.017	2.2	0.0070	0.0000	OK
15 minute summer	J3	10	124.599	0.052	23.5	0.0000	0.0000	OK
15 minute summer	6	13	123.607	0.107	7.6	0.4838	0.0000	OK
15 minute summer	7	13	123.606	0.206	27.2	1.2050	0.0000	OK
15 minute summer	8	10	126.093	0.013	1.8	0.0068	0.0000	OK
240 minute summer	J4	176	123.409	0.043	9.5	0.0000	0.0000	OK
15 minute summer	9	10	125.243	0.018	2.5	0.0095	0.0000	OK
240 minute summer	10	176	123.409	0.079	10.3	0.4526	0.0000	OK
15 minute summer	11	10	124.313	0.043	9.1	0.0499	0.0000	OK
15 minute summer	12	10	123.541	0.041	9.1	0.0467	0.0000	OK
240 minute summer	Tank	176	123.410	0.159	47.7	21.0487	0.0000	OK
240 minute summer	13	172	123.444	1.194	39.6	2.2240	0.0000	SURCHARGED
1440 minute winter	14	720	121.915	0.039	2.8	0.0000	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
15 minute summer	H1	1.000	2	2.7	1.100	0.011	0.0619	
15 minute summer	1	2.000	2	4.3	1.792	0.079	0.0308	
15 minute summer	2	1.001	J1	16.7	2.472	0.047	0.1059	
15 minute summer	3	3.000	J1	2.5	2.632	0.022	0.0056	
15 minute summer	J1	1.002	J2	19.2	2.608	0.054	0.0847	
15 minute summer	4	4.000	J2	2.2	2.589	0.019	0.0050	
15 minute summer	J2	1.003	J3	21.4	2.701	0.060	0.0194	
15 minute summer	5	5.000	J3	2.2	2.552	0.060	0.0051	
15 minute summer	J3	1.004	7	23.5	1.999	0.067	0.2354	
15 minute summer	6	6.000	7	-7.6	-0.119	-0.004	3.1026	
15 minute summer	7	1.005	J4	16.7	0.429	0.008	0.3895	
15 minute summer	8	7.000	J4	1.8	2.641	0.014	0.0027	
240 minute summer	J4	1.006	10	9.5	0.346	0.004	0.9517	
15 minute summer	9	8.000	10	2.5	2.114	0.029	0.0067	
240 minute summer	10	1.007	Tank	10.3	0.217	0.005	4.2779	
15 minute summer	11	9.000	12	9.1	2.310	0.153	0.0222	
15 minute summer	12	9.001	Tank	9.1	2.700	0.032	0.0304	
240 minute summer	Tank	1.008	13	-40.8	1.207	-0.027	0.4487	
240 minute summer	13	1.009	14	2.8	0.767	0.147	0.1190	57.9

Results for 30 year Critical Storm Duration. Lowest mass balance: 96.09%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m ³)	Flood (m ³)	Status
15 minute summer	H1	10	128.791	0.036	7.1	0.0531	0.0000	OK
15 minute summer	1	10	128.864	0.049	11.3	0.0790	0.0000	OK
15 minute summer	2	10	127.572	0.072	44.0	0.1203	0.0000	OK
15 minute summer	3	10	128.495	0.025	6.7	0.0153	0.0000	OK
15 minute summer	J1	10	126.017	0.076	50.6	0.0000	0.0000	OK
15 minute summer	4	10	127.483	0.023	5.8	0.0112	0.0000	OK
15 minute summer	J2	10	124.872	0.080	56.3	0.0000	0.0000	OK
15 minute summer	5	10	126.828	0.028	5.8	0.0114	0.0000	OK
15 minute summer	J3	10	124.631	0.084	62.0	0.0000	0.0000	OK
30 minute summer	6	23	124.013	0.513	20.7	2.3228	0.0000	OK
30 minute summer	7	23	124.013	0.613	65.8	3.5872	0.0000	OK
15 minute summer	8	10	126.100	0.020	4.6	0.0107	0.0000	OK
240 minute winter	J4	232	123.634	0.268	11.9	0.0000	0.0000	OK
15 minute summer	9	10	125.255	0.030	6.7	0.0157	0.0000	OK
240 minute winter	10	232	123.634	0.304	12.6	1.7432	0.0000	OK
15 minute summer	11	10	124.345	0.075	23.8	0.0880	0.0000	OK
240 minute winter	12	220	123.637	0.137	9.3	0.1550	0.0000	OK
240 minute winter	Tank	232	123.635	0.384	26.7	50.7521	0.0000	OK
240 minute winter	13	228	123.637	1.387	34.3	2.5833	0.0000	SURCHARGED
240 minute winter	14	236	121.916	0.040	3.0	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)
15 minute summer	H1	1.000	2	7.0	1.472	0.030	0.1222	
15 minute summer	1	2.000	2	11.2	2.342	0.209	0.0619	
15 minute summer	2	1.001	J1	43.9	3.246	0.124	0.2112	
15 minute summer	3	3.000	J1	6.7	3.520	0.059	0.0112	
15 minute summer	J1	1.002	J2	50.5	3.462	0.143	0.1678	
15 minute summer	4	4.000	J2	5.8	3.454	0.049	0.0099	
15 minute summer	J2	1.003	J3	56.2	3.584	0.159	0.0385	
15 minute summer	5	5.000	J3	5.8	3.370	0.158	0.0101	
15 minute summer	J3	1.004	7	61.9	2.090	0.175	0.4758	
30 minute summer	6	6.000	7	-20.7	-0.066	-0.010	12.7051	
30 minute summer	7	1.005	J4	22.3	0.469	0.010	2.0461	
15 minute summer	8	7.000	J4	4.6	3.490	0.035	0.0053	
240 minute winter	J4	1.006	10	11.4	0.328	0.005	4.4644	
15 minute summer	9	8.000	10	6.7	2.798	0.078	0.0135	
240 minute winter	10	1.007	Tank	10.5	0.201	0.005	12.3570	
15 minute summer	11	9.000	12	23.7	2.909	0.400	0.0462	
240 minute winter	12	9.001	Tank	6.7	1.377	0.024	0.2029	
240 minute winter	Tank	1.008	13	33.4	1.017	0.022	0.6508	
240 minute winter	13	1.009	14	3.0	0.785	0.159	0.1261	78.7

Results for 100 year +45% CC Critical Storm Duration. Lowest mass balance: 95.46%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m ³)	Flood (m ³)	Status
15 minute summer	H1	10	128.804	0.049	13.1	0.0717	0.0000	OK
15 minute summer	1	10	128.884	0.069	20.8	0.1118	0.0000	OK
15 minute summer	2	10	127.600	0.100	81.4	0.1669	0.0000	OK
15 minute summer	3	10	128.505	0.034	12.3	0.0208	0.0000	OK
15 minute summer	J1	10	126.045	0.104	93.5	0.0000	0.0000	OK
15 minute summer	4	10	127.492	0.032	10.8	0.0152	0.0000	OK
60 minute summer	J2	42	125.872	1.080	73.7	0.0000	0.0000	SURCHARGED
15 minute summer	5	10	126.839	0.039	10.8	0.0159	0.0000	OK
60 minute summer	J3	42	125.871	1.324	81.3	0.0000	0.0000	SURCHARGED
60 minute summer	6	42	125.867	2.367	34.1	10.7072	0.0000	SURCHARGED
60 minute summer	7	42	125.864	2.464	93.1	14.4168	0.0000	SURCHARGED
15 minute summer	8	10	126.107	0.027	8.5	0.0145	0.0000	OK
360 minute winter	J4	352	124.044	0.678	14.6	0.0000	0.0000	OK
15 minute summer	9	10	125.266	0.041	12.3	0.0217	0.0000	OK
360 minute winter	10	352	124.044	0.714	14.9	4.0865	0.0000	OK
15 minute summer	11	10	124.390	0.119	43.9	0.1396	0.0000	OK
360 minute winter	12	352	124.044	0.544	5.8	0.6149	0.0000	SURCHARGED
360 minute winter	Tank	352	124.044	0.794	46.2	104.7653	0.0000	SURCHARGED
360 minute winter	13	352	124.044	1.794	38.1	3.3398	0.0000	SURCHARGED
360 minute winter	14	352	121.919	0.043	3.4	0.0000	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
15 minute summer	H1	1.000	2	13.0	1.763	0.056	0.1886	
15 minute summer	1	2.000	2	20.7	2.739	0.385	0.0977	
15 minute summer	2	1.001	J1	81.3	3.835	0.230	0.3309	
15 minute summer	3	3.000	J1	12.3	4.189	0.108	0.0172	
15 minute summer	J1	1.002	J2	93.4	4.118	0.264	0.4855	
15 minute summer	4	4.000	J2	10.8	4.126	0.092	0.0563	
60 minute summer	J2	1.003	J3	73.7	3.860	0.209	0.1727	
15 minute summer	5	5.000	J3	10.8	3.988	0.295	0.0295	
60 minute summer	J3	1.004	7	80.6	2.017	0.228	0.7739	
60 minute summer	6	6.000	7	-34.1	-0.049	-0.016	17.7089	
60 minute summer	7	1.005	J4	25.5	0.461	0.012	7.1977	
15 minute summer	8	7.000	J4	8.5	4.166	0.065	0.0081	
360 minute winter	J4	1.006	10	13.2	0.279	0.006	10.8433	
15 minute summer	9	8.000	10	12.3	3.291	0.143	0.0211	
360 minute winter	10	1.007	Tank	11.7	0.194	0.005	26.2592	
15 minute summer	11	9.000	12	43.7	3.231	0.738	0.0762	
360 minute winter	12	9.001	Tank	24.9	1.461	0.089	0.2808	
360 minute winter	Tank	1.008	13	-39.7	0.852	-0.026	0.6813	
360 minute winter	13	1.009	14	3.4	0.812	0.180	0.1376	109.0