

**Design Settings**

Rainfall Methodology	FEH-13	Minimum Velocity (m/s)	1.00
Return Period (years)	2	Connection Type	Level Soffits
Additional Flow (%)	0	Minimum Backdrop Height (m)	0.200
CV	0.750	Preferred Cover Depth (m)	1.200
Time of Entry (mins)	2.00	Include Intermediate Ground	✓
Maximum Time of Concentration (mins)	30.00	Enforce best practice design rules	✓
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)
SIC3.2A	0.010	2.00	60.200	450	449034.895	119667.260	1.650
TANK1			60.250		449035.265	119664.333	2.200
SIC3.2			60.100	600	449031.261	119663.931	2.130
SIC3.1A	0.010	2.00	60.050	450	449041.752	119676.081	1.700
TANK2			59.800		449042.419	119680.723	1.950
SIC3.1B	0.010	2.00	59.650	450	449039.423	119690.787	1.300
TANK3			59.800		449040.152	119685.516	1.950
SIC3.1			59.500	600	449030.263	119684.023	1.720
SIC3.0A	0.010	2.00	59.450	450	449038.081	119693.220	1.250
TANK4			59.350		449038.192	119697.666	1.620
SIC3.0B	0.016	2.00	59.200	450	449037.382	119711.122	1.000
TANK5			59.350		449038.314	119704.873	1.620
SIC3.0			59.200	1200	449028.861	119700.371	1.550
EX SW19			58.950	1200	449023.038	119700.482	1.710
SIC2.1A	0.015	2.00	59.000	450	449039.130	119725.512	1.200
TANK6			59.000		449038.450	119728.370	1.700
SIC2.1B	0.015	2.00	58.550	450	449035.797	119740.508	0.750
TANK7			59.000		449036.870	119736.400	1.700
SIC2.1			58.750	600	449037.680	119732.762	1.600
SIC2.0			58.420	1200	449025.460	119729.826	1.420
EX SW18			58.220	1200	449020.824	119729.515	1.320
SIC1.0A	0.017	2.00	58.150	450	449028.978	119749.183	0.800
TANK8			58.000		449023.640	119747.920	1.150
SIC1.0			57.950	1200	449021.361	119747.602	1.200
EX SW17			57.310	1200	449012.927	119753.455	0.660

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	SIC3.2A	TANK1	2.950	1.500	58.850	58.800	0.050	59.0	100	2.06	50.0
1.001	TANK1	SIC3.2	4.024	1.500	58.050	58.020	0.030	134.1	100	2.17	50.0
2.000	SIC3.1A	TANK2	4.690	1.500	58.650	58.600	0.050	93.8	100	2.11	50.0
2.001	TANK2	SIC3.1	12.596	1.500	57.850	57.830	0.020	629.8	100	2.92	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	0.867	6.8	1.4	1.250	1.350	0.010	0.0	30	0.667
1.001	0.573	4.5	1.4	2.100	1.980	0.010	0.0	38	0.501
2.000	0.687	5.4	1.4	1.300	1.100	0.010	0.0	34	0.566
2.001	0.262	2.1	1.4	1.850	1.570	0.010	0.0	59	0.280

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)
3.000	SIC3.1B	TANK3	5.321	1.500	58.650	58.600	0.050	106.4	100	2.14	50.0
3.001	TANK3	SIC3.1	10.001	1.500	57.850	57.830	0.020	500.1	100	2.70	50.0
4.000	SIC3.0A	TANK4	4.447	1.500	58.500	58.480	0.020	222.4	100	2.17	50.0
4.001	TANK4	SIC3.0	9.715	1.500	57.730	57.700	0.030	323.8	100	2.61	50.0
5.000	SIC3.0B	TANK5	6.318	1.500	58.500	58.480	0.020	315.9	100	2.28	50.0
5.001	TANK5	SIC3.0	10.470	1.500	57.730	57.700	0.030	349.0	100	2.78	50.0
1.003	SIC3.2	SIC3.1	20.117	1.500	57.970	57.780	0.190	105.9	150	2.57	50.0
1.004	SIC3.1	SIC3.0	16.408	1.500	57.780	57.650	0.130	126.2	150	3.27	50.0
1.005	SIC3.0	EX SW19	5.824	1.500	57.650	57.240	0.410	14.2	150	3.31	50.0
6.000	SIC2.1A	TANK6	2.938	1.500	58.100	58.050	0.050	58.8	100	2.06	50.0
6.001	TANK6	SIC2.1	4.459	1.500	57.300	57.200	0.100	44.6	100	2.13	50.0
7.000	SIC2.1B	TANK7	4.246	1.500	58.100	58.050	0.050	84.9	100	2.10	50.0
7.001	TANK7	SIC2.1	3.727	1.500	57.300	57.200	0.100	37.3	100	2.15	50.0
7.002	SIC2.1	SIC2.0	12.568	1.500	57.150	57.000	0.150	83.8	150	2.37	50.0
7.003	SIC2.0	EX SW18	4.646	1.500	57.000	56.900	0.100	46.5	150	2.43	50.0
8.000	SIC1.0A	TANK8	5.485	1.500	57.650	57.600	0.050	109.7	100	2.14	50.0
8.001	TANK8	SIC1.0	2.301	1.500	56.850	56.800	0.050	46.0	100	2.18	50.0
8.002	SIC1.0	EX SW17	10.266	1.500	56.750	56.650	0.100	102.7	150	2.38	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)
3.000	0.644	5.1	1.4	0.900	1.100	0.010	0.0	36	0.544
3.001	0.294	2.3	1.4	1.850	1.570	0.010	0.0	55	0.307
4.000	0.444	3.5	1.4	0.850	0.770	0.010	0.0	43	0.416
4.001	0.367	2.9	1.4	1.520	1.400	0.010	0.0	48	0.361
5.000	0.372	2.9	2.2	0.600	0.770	0.016	0.0	64	0.407
5.001	0.353	2.8	2.2	1.520	1.400	0.016	0.0	66	0.391
1.003	0.851	15.0	1.4	1.980	1.570	0.010	0.0	31	0.524
1.004	0.779	13.8	4.1	1.570	1.400	0.030	0.0	56	0.677
1.005	2.332	41.2	7.6	1.400	1.560	0.056	0.0	44	1.773
6.000	0.869	6.8	2.0	0.800	0.850	0.015	0.0	38	0.760
6.001	0.998	7.8	2.0	1.600	1.450	0.015	0.0	35	0.833
7.000	0.722	5.7	2.0	0.350	0.850	0.015	0.0	42	0.663
7.001	1.092	8.6	2.0	1.600	1.450	0.015	0.0	33	0.889
7.002	0.957	16.9	4.1	1.450	1.270	0.030	0.0	50	0.785
7.003	1.287	22.7	4.1	1.270	1.170	0.030	0.0	43	0.970
8.000	0.634	5.0	2.3	0.400	0.300	0.017	0.0	48	0.623
8.001	0.982	7.7	2.3	1.050	1.050	0.017	0.0	38	0.859
8.002	0.864	15.3	2.3	1.050	0.510	0.017	0.0	40	0.620

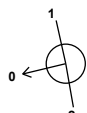
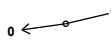
Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)
SIC3.2A	449034.895	119667.260	60.200	1.650	450				
						0	1.000	58.850	100
TANK1	449035.265	119664.333	60.250	2.200			1	1.000	58.800
						0	1.001	58.050	100

Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)
SIC3.2	449031.261	119663.931	60.100	2.130	600	0 1 1 1	1.001	58.020	100
						0	1.003	57.970	150
SIC3.1A	449041.752	119676.081	60.050	1.700	450	0 0 0	2.000	58.650	100
TANK2	449042.419	119680.723	59.800	1.950		0 1 1	2.000	58.600	100
						0 1 1 0	2.001	57.850	100
SIC3.1B	449039.423	119690.787	59.650	1.300	450	0 0 0	3.000	58.650	100
TANK3	449040.152	119685.516	59.800	1.950		1 0 1 1	3.000	58.600	100
						0 1 0	3.001	57.850	100
SIC3.1	449030.263	119684.023	59.500	1.720	600	0 1 2 3 1	3.001	57.830	100
						0 1 2 3 2	2.001	57.830	100
						0 1 2 3 3	1.003	57.780	150
						0 0 0	1.004	57.780	150
SIC3.0A	449038.081	119693.220	59.450	1.250	450	0 0 0	4.000	58.500	100
TANK4	449038.192	119697.666	59.350	1.620		0 1 1	4.000	58.480	100
						0 1 0	4.001	57.730	100
SIC3.0B	449037.382	119711.122	59.200	1.000	450	0 0 0	5.000	58.500	100
TANK5	449038.314	119704.873	59.350	1.620		1 0 1 1	5.000	58.480	100
						0 1 0	5.001	57.730	100
SIC3.0	449028.861	119700.371	59.200	1.550	1200	0 1 2 3 1	5.001	57.700	100
						0 1 2 3 2	4.001	57.700	100
						0 1 2 3 3	1.004	57.650	150
						0 0 0	1.005	57.650	150
EX SW19	449023.038	119700.482	58.950	1.710	1200	1 1 1	1.005	57.240	150
SIC2.1A	449039.130	119725.512	59.000	1.200	450	0 0 0	6.000	58.100	100

**Manhole Schedule**

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)	
TANK6	449038.450	119728.370	59.000	1.700			1	6.000	58.050	100
							0	6.001	57.300	100
SIC2.1B	449035.797	119740.508	58.550	0.750	450		0	7.000	58.100	100
TANK7	449036.870	119736.400	59.000	1.700			1	7.000	58.050	100
							0	7.001	57.300	100
SIC2.1	449037.680	119732.762	58.750	1.600	600		1	7.001	57.200	100
							2	6.001	57.200	100
							0	7.002	57.150	150
SIC2.0	449025.460	119729.826	58.420	1.420	1200		1	7.002	57.000	150
							0	7.003	57.000	150
EX SW18	449020.824	119729.515	58.220	1.320	1200		1	7.003	56.900	150
SIC1.0A	449028.978	119749.183	58.150	0.800	450		0	8.000	57.650	100
TANK8	449023.640	119747.920	58.000	1.150			1	8.000	57.600	100
							0	8.001	56.850	100
SIC1.0	449021.361	119747.602	57.950	1.200	1200		1	8.001	56.800	100
							0	8.002	56.750	150
EX SW17	449012.927	119753.455	57.310	0.660	1200		1	8.002	56.650	150

Simulation Settings

Rainfall Methodology FEH-13
Rainfall Events Singular
Summer CV 0.750
Winter CV 0.840

Analysis Speed Normal
Skip Steady State x
Drain Down Time (mins) 240
Additional Storage (m³/ha) 20.0

Starting Level (m)
Check Discharge Rate(s) x
Check Discharge Volume x

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 %)
2	0	0	0
30	0	0	0
100	40	0	0

Node SIC3.0 Online Hydro-Brake® Control

Flap Valve	x	Objective	(HE) Minimise upstream storage
Replaces Downstream Link	✓	Sump Available	✓
Invert Level (m)	57.650	Product Number	CTL-SHE-0049-1000-0800-1000
Design Depth (m)	0.800	Min Outlet Diameter (m)	0.075
Design Flow (l/s)	1.0	Min Node Diameter (mm)	1200

Node SIC2.0 Online Hydro-Brake® Control

Flap Valve	x	Objective	(HE) Minimise upstream storage
Replaces Downstream Link	✓	Sump Available	✓
Invert Level (m)	57.000	Product Number	CTL-SHE-0049-1000-0800-1000
Design Depth (m)	0.800	Min Outlet Diameter (m)	0.075
Design Flow (l/s)	1.0	Min Node Diameter (mm)	1200

Node SIC1.0 Online Hydro-Brake® Control

Flap Valve	x	Objective	(HE) Minimise upstream storage
Replaces Downstream Link	✓	Sump Available	✓
Invert Level (m)	56.750	Product Number	CTL-SHE-0049-1000-0800-1000
Design Depth (m)	0.800	Min Outlet Diameter (m)	0.075
Design Flow (l/s)	1.0	Min Node Diameter (mm)	1200

Node TANK1 Depth/Area Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Safety Factor	2.0	Invert Level (m)	58.050
Side Inf Coefficient (m/hr)	0.00000	Porosity	1.00	Time to half empty (mins)	0

Depth (m)	Area (m ²)	Inf Area (m ²)	Depth (m)	Area (m ²)	Inf Area (m ²)
0.000	8.0	8.0	0.750	8.0	8.0

Node TANK2 Depth/Area Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Safety Factor	2.0	Invert Level (m)	57.850
Side Inf Coefficient (m/hr)	0.00000	Porosity	1.00	Time to half empty (mins)	0

Depth (m)	Area (m ²)	Inf Area (m ²)	Depth (m)	Area (m ²)	Inf Area (m ²)
0.000	8.0	8.0	0.750	8.0	8.0

Node TANK3 Depth/Area Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Safety Factor	2.0	Invert Level (m)	57.850
Side Inf Coefficient (m/hr)	0.00000	Porosity	1.00	Time to half empty (mins)	0

Depth (m)	Area (m ²)	Inf Area (m ²)	Depth (m)	Area (m ²)	Inf Area (m ²)
0.000	8.0	8.0	0.750	8.0	8.0

**Node TANK4 Depth/Area Storage Structure**

Base Inf Coefficient (m/hr)	0.00000	Safety Factor	2.0	Invert Level (m)	57.730
Side Inf Coefficient (m/hr)	0.00000	Porosity	1.00	Time to half empty (mins)	10

Depth (m)	Area (m ²)	Inf Area (m ²)	Depth (m)	Area (m ²)	Inf Area (m ²)
0.000	8.0	8.0	0.750	8.0	8.0

Node TANK5 Depth/Area Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Safety Factor	2.0	Invert Level (m)	57.730
Side Inf Coefficient (m/hr)	0.00000	Porosity	1.00	Time to half empty (mins)	12

Depth (m)	Area (m ²)	Inf Area (m ²)	Depth (m)	Area (m ²)	Inf Area (m ²)
0.000	8.0	8.0	0.750	8.0	8.0

Node TANK6 Depth/Area Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Safety Factor	2.0	Invert Level (m)	57.300
Side Inf Coefficient (m/hr)	0.00000	Porosity	1.00	Time to half empty (mins)	0

Depth (m)	Area (m ²)	Inf Area (m ²)	Depth (m)	Area (m ²)	Inf Area (m ²)
0.000	8.0	8.0	0.750	8.0	8.0

Node TANK7 Depth/Area Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Safety Factor	2.0	Invert Level (m)	57.300
Side Inf Coefficient (m/hr)	0.00000	Porosity	1.00	Time to half empty (mins)	0

Depth (m)	Area (m ²)	Inf Area (m ²)	Depth (m)	Area (m ²)	Inf Area (m ²)
0.000	8.0	8.0	0.750	8.0	8.0

Node TANK8 Depth/Area Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Safety Factor	2.0	Invert Level (m)	56.850
Side Inf Coefficient (m/hr)	0.00000	Porosity	1.00	Time to half empty (mins)	32

Depth (m)	Area (m ²)	Inf Area (m ²)	Depth (m)	Area (m ²)	Inf Area (m ²)
0.000	8.0	8.0	0.750	8.0	8.0

**Results for 2 year Critical Storm Duration. Lowest mass balance: 99.07%**

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	SIC3.2A	9	58.888	0.038	1.9	0.0115	0.0000	OK
15 minute winter	TANK1	11	58.086	0.036	1.7	0.2890	0.0000	OK
15 minute winter	SIC3.2	11	57.999	0.029	1.2	0.0081	0.0000	OK
15 minute summer	SIC3.1A	9	58.692	0.042	1.9	0.0127	0.0000	OK
15 minute winter	TANK2	12	57.896	0.046	1.7	0.3692	0.0000	OK
15 minute summer	SIC3.1B	9	58.693	0.043	1.9	0.0156	0.0000	OK
15 minute winter	TANK3	12	57.895	0.045	1.7	0.3561	0.0000	OK
120 minute winter	SIC3.1	90	57.886	0.106	1.5	0.0301	0.0000	OK
15 minute summer	SIC3.0A	9	58.552	0.052	1.9	0.0193	0.0000	OK
120 minute winter	TANK4	90	57.886	0.156	0.8	1.2505	0.0000	SURCHARGED
15 minute summer	SIC3.0B	9	58.577	0.077	3.1	0.0476	0.0000	OK
120 minute winter	TANK5	90	57.887	0.157	0.8	1.2522	0.0000	SURCHARGED
120 minute winter	SIC3.0	90	57.886	0.236	1.4	0.2672	0.0000	SURCHARGED
15 minute summer	EX SW19	1	57.240	0.000	0.9	0.0000	0.0000	OK
15 minute summer	SIC2.1A	9	58.148	0.048	2.9	0.0235	0.0000	OK
30 minute winter	TANK6	24	57.346	0.046	1.8	0.3679	0.0000	OK
15 minute summer	SIC2.1B	9	58.153	0.053	2.9	0.0434	0.0000	OK
30 minute winter	TANK7	24	57.346	0.046	1.8	0.3674	0.0000	OK
30 minute winter	SIC2.1	25	57.346	0.196	3.4	0.0556	0.0000	SURCHARGED
15 minute winter	SIC2.0	14	57.346	0.346	3.8	0.3911	0.0000	SURCHARGED
15 minute summer	EX SW18	1	56.900	0.000	0.9	0.0000	0.0000	OK
15 minute summer	SIC1.0A	9	57.711	0.061	3.3	0.0515	0.0000	OK
15 minute winter	TANK8	13	56.911	0.061	2.9	0.4858	0.0000	OK
15 minute winter	SIC1.0	12	56.917	0.167	2.9	0.1888	0.0000	SURCHARGED
15 minute summer	EX SW17	1	56.650	0.000	0.9	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	SIC3.2A	1.000	TANK1	1.9	0.725	0.279	0.0077	
15 minute winter	TANK1	1.001	SIC3.2	1.2	0.485	0.267	0.0100	
15 minute winter	SIC3.2	1.003	SIC3.1	1.2	0.374	0.079	0.0754	
15 minute summer	SIC3.1A	2.000	TANK2	1.9	0.616	0.351	0.0144	
15 minute winter	TANK2	2.001	SIC3.1	0.8	0.303	0.389	0.0335	
15 minute summer	SIC3.1B	3.000	TANK3	1.9	0.589	0.374	0.0171	
15 minute winter	TANK3	3.001	SIC3.1	0.9	0.333	0.378	0.0264	
120 minute winter	SIC3.1	1.004	SIC3.0	1.4	0.135	0.099	0.2541	
15 minute summer	SIC3.0A	4.000	TANK4	1.9	0.508	0.541	0.0165	
120 minute winter	TANK4	4.001	SIC3.0	0.4	0.217	0.125	0.0760	
15 minute summer	SIC3.0B	5.000	TANK5	3.1	0.550	1.047	0.0349	
120 minute winter	TANK5	5.001	SIC3.0	0.4	0.251	0.157	0.0819	
120 minute winter	SIC3.0	Hydro-Brake®	EX SW19	0.9				8.1
15 minute summer	SIC2.1A	6.000	TANK6	2.9	0.809	0.425	0.0105	
30 minute winter	TANK6	6.001	SIC2.1	1.7	0.759	0.218	0.0253	
15 minute summer	SIC2.1B	7.000	TANK7	2.9	0.710	0.511	0.0173	
30 minute winter	TANK7	7.001	SIC2.1	1.7	0.809	0.202	0.0211	
30 minute winter	SIC2.1	7.002	SIC2.0	2.5	0.413	0.150	0.2213	
15 minute winter	SIC2.0	Hydro-Brake®	EX SW18	0.9				2.0
15 minute summer	SIC1.0A	8.000	TANK8	3.3	0.672	0.661	0.0269	
15 minute winter	TANK8	8.001	SIC1.0	2.9	0.743	0.370	0.0147	
15 minute winter	SIC1.0	Hydro-Brake®	EX SW17	0.9				1.1

**Results for 30 year Critical Storm Duration. Lowest mass balance: 99.07%**

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	SIC3.2A	9	58.915	0.065	4.7	0.0199	0.0000	OK
15 minute summer	TANK1	10	58.117	0.067	4.7	0.5354	0.0000	OK
120 minute winter	SIC3.2	116	58.108	0.138	1.1	0.0390	0.0000	OK
15 minute summer	SIC3.1A	9	58.725	0.075	4.7	0.0228	0.0000	OK
120 minute winter	TANK2	116	58.108	0.258	1.4	2.0633	0.0000	SURCHARGED
15 minute summer	SIC3.1B	9	58.729	0.078	4.7	0.0282	0.0000	OK
120 minute winter	TANK3	116	58.108	0.258	1.3	2.0632	0.0000	SURCHARGED
120 minute winter	SIC3.1	116	58.108	0.328	2.6	0.0928	0.0000	SURCHARGED
15 minute summer	SIC3.0A	9	58.597	0.097	4.7	0.0358	0.0000	OK
120 minute winter	TANK4	116	58.108	0.378	1.5	3.0223	0.0000	SURCHARGED
15 minute summer	SIC3.0B	9	58.694	0.194	7.5	0.1193	0.0000	SURCHARGED
120 minute winter	TANK5	116	58.108	0.378	1.8	3.0237	0.0000	SURCHARGED
120 minute winter	SIC3.0	116	58.108	0.458	1.8	0.5177	0.0000	SURCHARGED
15 minute summer	EX SW19	1	57.240	0.000	0.9	0.0000	0.0000	OK
15 minute summer	SIC2.1A	9	58.194	0.094	7.0	0.0463	0.0000	OK
60 minute winter	TANK6	58	57.566	0.266	2.9	2.1310	0.0000	SURCHARGED
15 minute summer	SIC2.1B	9	58.219	0.119	7.0	0.0982	0.0000	SURCHARGED
60 minute winter	TANK7	58	57.566	0.266	2.9	2.1307	0.0000	SURCHARGED
60 minute winter	SIC2.1	58	57.566	0.416	3.2	0.1177	0.0000	SURCHARGED
60 minute winter	SIC2.0	58	57.566	0.566	2.1	0.6396	0.0000	SURCHARGED
15 minute summer	EX SW18	1	56.900	0.000	0.9	0.0000	0.0000	OK
15 minute summer	SIC1.0A	9	57.819	0.169	8.0	0.1416	0.0000	SURCHARGED
30 minute winter	TANK8	28	57.101	0.251	5.0	2.0085	0.0000	SURCHARGED
30 minute winter	SIC1.0	28	57.100	0.350	3.3	0.3960	0.0000	SURCHARGED
15 minute summer	EX SW17	1	56.650	0.000	0.9	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	SIC3.2A	1.000	TANK1	4.7	0.903	0.690	0.0153	
15 minute summer	TANK1	1.001	SIC3.2	3.4	0.655	0.761	0.0210	
120 minute winter	SIC3.2	1.003	SIC3.1	1.1	0.260	0.073	0.3475	
15 minute summer	SIC3.1A	2.000	TANK2	4.7	0.768	0.870	0.0286	
120 minute winter	TANK2	2.001	SIC3.1	0.9	0.288	0.419	0.0986	
15 minute summer	SIC3.1B	3.000	TANK3	4.7	0.750	0.926	0.0332	
120 minute winter	TANK3	3.001	SIC3.1	0.8	0.309	0.365	0.0783	
120 minute winter	SIC3.1	1.004	SIC3.0	1.8	0.130	0.132	0.2889	
15 minute summer	SIC3.0A	4.000	TANK4	4.6	0.667	1.332	0.0302	
120 minute winter	TANK4	4.001	SIC3.0	-0.6	0.213	-0.195	0.0760	
15 minute summer	SIC3.0B	5.000	TANK5	7.2	0.920	2.452	0.0473	
120 minute winter	TANK5	5.001	SIC3.0	0.8	0.250	0.282	0.0819	
120 minute winter	SIC3.0	Hydro-Brake®	EX SW19	0.9				17.4
15 minute summer	SIC2.1A	6.000	TANK6	7.0	0.945	1.020	0.0216	
60 minute winter	TANK6	6.001	SIC2.1	1.6	0.716	0.205	0.0349	
15 minute summer	SIC2.1B	7.000	TANK7	6.9	0.885	1.212	0.0315	
60 minute winter	TANK7	7.001	SIC2.1	1.6	0.763	0.188	0.0292	
60 minute winter	SIC2.1	7.002	SIC2.0	2.1	0.469	0.124	0.2213	
60 minute winter	SIC2.0	Hydro-Brake®	EX SW18	0.9				8.2
15 minute summer	SIC1.0A	8.000	TANK8	7.7	0.984	1.543	0.0415	
30 minute winter	TANK8	8.001	SIC1.0	3.3	0.657	0.427	0.0180	
30 minute winter	SIC1.0	Hydro-Brake®	EX SW17	0.9				3.7

**Results for 100 year +40% CC Critical Storm Duration. Lowest mass balance: 99.07%**

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	SIC3.2A	9	58.977	0.127	8.2	0.0390	0.0000	SURCHARGED
120 minute winter	TANK1	120	58.401	0.351	2.6	2.8062	0.0000	SURCHARGED
120 minute winter	SIC3.2	120	58.401	0.431	1.8	0.1219	0.0000	SURCHARGED
15 minute summer	SIC3.1A	9	58.812	0.162	8.2	0.0489	0.0000	SURCHARGED
120 minute winter	TANK2	120	58.401	0.551	2.2	4.4069	0.0000	SURCHARGED
15 minute summer	SIC3.1B	9	58.823	0.173	8.2	0.0621	0.0000	SURCHARGED
120 minute winter	TANK3	120	58.401	0.551	2.2	4.4067	0.0000	SURCHARGED
120 minute winter	SIC3.1	120	58.401	0.621	2.5	0.1757	0.0000	SURCHARGED
15 minute summer	SIC3.0A	9	58.687	0.187	8.2	0.0693	0.0000	SURCHARGED
120 minute winter	TANK4	120	58.401	0.671	2.2	5.3643	0.0000	SURCHARGED
15 minute summer	SIC3.0B	9	58.946	0.446	13.1	0.2746	0.0000	FLOOD RISK
120 minute winter	TANK5	118	58.401	0.671	3.1	5.3663	0.0000	SURCHARGED
120 minute winter	SIC3.0	120	58.400	0.750	1.7	0.8487	0.0000	SURCHARGED
15 minute summer	EX SW19	1	57.240	0.000	0.9	0.0000	0.0000	OK
15 minute summer	SIC2.1A	9	58.340	0.240	12.3	0.1182	0.0000	SURCHARGED
60 minute winter	TANK6	59	57.899	0.599	5.1	4.7886	0.0000	SURCHARGED
15 minute summer	SIC2.1B	9	58.399	0.299	12.3	0.2471	0.0000	FLOOD RISK
60 minute winter	TANK7	59	57.899	0.599	5.1	4.7882	0.0000	SURCHARGED
60 minute winter	SIC2.1	59	57.898	0.748	2.8	0.2117	0.0000	SURCHARGED
60 minute winter	SIC2.0	59	57.897	0.897	1.9	1.0149	0.0000	SURCHARGED
15 minute summer	EX SW18	1	56.900	0.000	0.9	0.0000	0.0000	OK
15 minute summer	SIC1.0A	9	58.076	0.426	14.0	0.3571	0.0000	FLOOD RISK
60 minute winter	TANK8	57	57.438	0.588	5.7	4.7079	0.0000	SURCHARGED
60 minute winter	SIC1.0	57	57.438	0.688	2.6	0.7776	0.0000	SURCHARGED
15 minute summer	EX SW17	1	56.650	0.000	0.9	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	SIC3.2A	1.000	TANK1	8.1	1.034	1.187	0.0224	
120 minute winter	TANK1	1.001	SIC3.2	1.8	0.532	0.395	0.0315	
120 minute winter	SIC3.2	1.003	SIC3.1	1.4	0.246	0.094	0.3542	
15 minute summer	SIC3.1A	2.000	TANK2	7.9	1.016	1.472	0.0356	
120 minute winter	TANK2	2.001	SIC3.1	0.8	0.284	0.410	0.0986	
15 minute summer	SIC3.1B	3.000	TANK3	7.9	1.007	1.556	0.0404	
120 minute winter	TANK3	3.001	SIC3.1	0.8	0.307	0.364	0.0783	
120 minute winter	SIC3.1	1.004	SIC3.0	1.6	0.133	0.117	0.2889	
15 minute summer	SIC3.0A	4.000	TANK4	8.0	1.019	2.283	0.0338	
120 minute winter	TANK4	4.001	SIC3.0	-0.5	0.220	-0.181	0.0760	
15 minute summer	SIC3.0B	5.000	TANK5	11.9	1.515	4.060	0.0489	
120 minute winter	TANK5	5.001	SIC3.0	1.3	0.286	0.464	0.0819	
120 minute winter	SIC3.0	Hydro-Brake®	EX SW19	1.0				18.4
15 minute summer	SIC2.1A	6.000	TANK6	12.0	1.537	1.762	0.0228	
60 minute winter	TANK6	6.001	SIC2.1	1.4	0.678	0.176	0.0349	
15 minute summer	SIC2.1B	7.000	TANK7	11.7	1.499	2.069	0.0329	
60 minute winter	TANK7	7.001	SIC2.1	1.4	0.722	0.161	0.0292	
60 minute winter	SIC2.1	7.002	SIC2.0	1.9	0.528	0.112	0.2213	
60 minute winter	SIC2.0	Hydro-Brake®	EX SW18	1.1				14.7
15 minute summer	SIC1.0A	8.000	TANK8	12.8	1.637	2.570	0.0425	
60 minute winter	TANK8	8.001	SIC1.0	2.6	0.644	0.336	0.0180	
60 minute winter	SIC1.0	Hydro-Brake®	EX SW17	0.9				8.3