

Nodes

Name	Area (ha)	T of E (mins)	Diameter (mm)	Width (mm)	Invert Level (m)
S101	0.012	5.00	450		131.635
S102	0.012	5.00	450		131.501
SWALE 1	0.030	5.00			131.485
S103	0.019	5.00	1200		130.967
OB1	0.070	5.00	450	450	130.663
S104	0.291	5.00	1350		130.351
OB2	0.070	5.00	450	450	130.150
OB4	0.223	5.00	450	450	130.604
S105			1350		129.747
PI					129.630
S106			1350		129.617
SWALE 2	0.112	5.00			131.895
SWALE 3	0.104	5.00			131.895
S107			1200		131.361
S108	0.454	5.00	1350		131.136
S109	0.013	5.00	1350		131.036
S110	0.203	5.00	1350		130.800
S111			1350		130.252
TANK					129.400
HB			2100		129.376
S112			1200		129.295
EX MH					129.129

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	17.963	134.1	150	Circular	132.085	131.635	0.300	132.085	131.501	0.434
1.001	2.462	153.9	150	Circular	132.085	131.501	0.434	132.085	131.485	0.450
1.002	9.005	20.3	150	Circular	132.085	131.485	0.450	132.167	131.042	0.975
1.003	41.609	90.5	225	Circular	132.167	130.967	0.975	131.701	130.507	0.969
2.000	6.470	41.5	225	Circular	131.663	130.663	0.775	131.701	130.507	0.969
1.004	79.344	150.0	375	Circular	131.701	130.351	0.975	131.678	129.822	1.481
3.000	26.648	149.7	225	Circular	131.150	130.150	0.775	131.678	129.972	1.481
4.000	2.965	23.5	225	Circular	131.604	130.604	0.775	131.678	130.478	0.975
1.005	2.510	147.6	450	Circular	131.678	129.747	1.481	131.645	129.730	1.465
1.006	1.888	145.2	450	Circular	131.645	129.630	1.565	131.678	129.617	1.611
1.007	2.586	152.1	450	Circular	131.678	129.617	1.611	131.618	129.600	1.568

Link	US Node	Dia (mm)	Width (mm)	Node Type	DS Node	Dia (mm)	Node Type	MH Type
1.000	S101	450		Manhole	S102	450	Manhole	Adoptable
1.001	S102	450		Manhole	SWALE 1		Junction	
1.002	SWALE 1			Junction	S103	1200	Manhole	Adoptable
1.003	S103	1200		Manhole	S104	1350	Manhole	Adoptable
2.000	OB1	450	450	Manhole	S104	1350	Manhole	Adoptable
1.004	S104	1350		Manhole	S105	1350	Manhole	Adoptable
3.000	OB2	450	450	Manhole	S105	1350	Manhole	Adoptable
4.000	OB4	450	450	Manhole	S105	1350	Manhole	Adoptable
1.005	S105	1350		Manhole	PI		Junction	
1.006	PI			Junction	S106	1350	Manhole	Adoptable
1.007	S106	1350		Manhole	TANK		Junction	

Pipeline Schedule

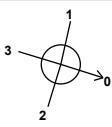
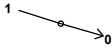
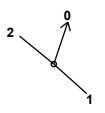
Link	Length (m)	Slope (1:X)	Dia (mm)	Link Type	US CL (m)	US IL (m)	US Depth (m)	DS CL (m)	DS IL (m)	DS Depth (m)
5.000	42.069	0.0	150	Circular	132.345	131.895	0.300	132.345	131.895	0.300
5.001	3.151	5.9	300	Circular	132.345	131.895	0.150	132.361	131.361	0.700
5.002	33.734	149.9	300	Circular	132.361	131.361	0.700	132.360	131.136	0.924
5.003	15.083	150.8	375	Circular	132.360	131.136	0.849	132.320	131.036	0.909
5.004	15.983	67.7	375	Circular	132.320	131.036	0.909	132.374	130.800	1.199
5.005	10.953	20.0	450	Circular	132.374	130.800	1.124	132.222	130.252	1.520
5.006	3.426	22.5	450	Circular	132.222	130.252	1.520	131.618	130.100	1.068
1.008	3.558	148.3	450	Circular	131.618	129.400	1.768	131.728	129.376	1.902
1.009	12.225	150.9	225	Circular	131.728	129.376	2.127	130.291	129.295	0.771
1.010	24.806	149.4	225	Circular	130.291	129.295	0.771	130.000	129.129	0.646

Link	US Node	Dia (mm)	Width (mm)	Node Type	DS Node	Dia (mm)	Node Type	MH Type
5.000	SWALE 2			Junction	SWALE 3		Junction	
5.001	SWALE 3			Junction	S107	1200	Manhole	Adoptable
5.002	S107	1200		Manhole	S108	1350	Manhole	Adoptable
5.003	S108	1350		Manhole	S109	1350	Manhole	Adoptable
5.004	S109	1350		Manhole	S110	1350	Manhole	Adoptable
5.005	S110	1350		Manhole	S111	1350	Manhole	Adoptable
5.006	S111	1350		Manhole	TANK		Junction	
1.008	TANK			Junction	HB	2100	Manhole	Adoptable
1.009	HB	2100		Manhole	S112	1200	Manhole	Adoptable
1.010	S112	1200		Manhole	EX MH		Junction	

Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)
S101	384003.585	408191.353	132.085	0.450	450				
						0	1.000	131.635	150
S102	384008.803	408208.542	132.085	0.584	450		1	1.000	131.501
						0	1.001	131.501	150
SWALE 1	384009.555	408218.860	132.085	0.600			1	1.001	131.485
						0	1.002	131.485	150
S103	384020.662	408224.113	132.167	1.200	1200		1	1.002	131.042
						0	1.003	130.967	225
OB1	384027.819	408269.391	131.663	1.000	450		0	2.000	130.663
						1	2.000	130.507	225
S104	384033.365	408265.993	131.701	1.350	1350		2	1.003	130.507
						0	1.004	130.351	375

Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)	
OB2	384101.552	408217.460	131.150	1.000	450	 0	3.000	130.150	225	
OB4	384109.944	408245.852	131.604	1.000	450	 0	4.000	130.604	225	
S105	384109.292	408242.959	131.678	1.931	1350	 1	4.000	130.478	225	
						2	3.000	129.972	225	
						3	1.004	129.822	375	
						0	1.005	129.747	450	
PI	384116.564	408240.658	131.645	2.015	 0	1	1.005	129.730	450	
S106	384123.242	408238.726	131.678	2.061	1350	 0	1	1.006	129.630	450
						0	1.006	129.617	450	
SWALE 2	384045.791	408164.114	132.345	0.450		 0	5.000	131.895	150	
						1	5.000	131.895	150	
SWALE 3	384134.148	408137.420	132.345	0.450		 0	5.001	131.895	300	
						1	5.001	131.361	300	
S107	384149.200	408136.184	132.361	1.000	1200	 0	5.002	131.361	300	
						1	5.002	131.136	300	
S108	384159.009	408168.461	132.360	1.224	1350	 0	5.003	131.136	375	
						1	5.003	131.036	375	
S109	384163.373	408182.898	132.320	1.284	1350	 0	5.004	131.036	375	
						1	5.004	130.800	375	
S110	384160.886	408198.686	132.374	1.574	1350	 0	5.005	130.800	450	
						1	5.005	130.252	450	
S111	384157.678	408209.158	132.222	1.970	1350	 0	5.006	130.252	450	
						1	5.006	130.100	450	
TANK	384140.036	408224.996	131.618	2.218		 2	1.007	129.600	450	
						0	1.008	129.400	450	
						1				

Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)	
HB	384144.624	408238.682	131.728	2.352	2100		1	1.008	129.376	450
S112	384148.174	408250.380	130.291	0.996	1200		0	1.009	129.376	225
						1	1.009	129.295	225	
EX MH	384171.028	408260.024	130.000	0.871			0	1.010	129.295	225
						1	1.010	129.129	225	

Simulation Settings

Rainfall Methodology	FSR	Analysis Speed	Detailed
Rainfall Events	Singular	Skip Steady State	✓
FSR Region	England and Wales	Drain Down Time (mins)	1440
M5-60 (mm)	19.000	Additional Storage (m³/ha)	0.0
Ratio-R	0.308	Starting Level (m)	
Summer CV	0.750	Check Discharge Rate(s)	x
Winter CV	0.840	Check Discharge Volume	x

Storm Durations

15	60	180	360	600	960	2160	4320
30	120	240	480	720	1440	2880	5760

Return Period (years)	Climate Change (CC %)	Additional Area (A %)	Additional Flow (Q %)
1	0	0	0
30	0	0	0
100	45	0	0

Node HB Online Hydro-Brake® Control

Flap Valve	x	Objective	(HE) Minimise upstream storage
Replaces Downstream Link	✓	Sump Available	✓
Invert Level (m)	129.376	Product Number	CTL-SHE-0177-1910-2224-1910
Design Depth (m)	2.224	Min Outlet Diameter (m)	0.225
Design Flow (l/s)	19.1	Min Node Diameter (mm)	2100

Node S102 Link Surround Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Porosity	0.30	Link	1.000
Side Inf Coefficient (m/hr)	0.00000	Invert Level (m)	131.501	Surround Shape	(Trench)
Safety Factor	2.0	Time to half empty (mins)	0	Diameter (mm)	150

Node SWALE 1 Depth/Area Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Safety Factor	2.0	Invert Level (m)	131.485
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	8.9	0.0	0.600	84.6	0.0

Node TANK Depth/Area Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Safety Factor	2.0	Invert Level (m)	129.400
Side Inf Coefficient (m/hr)	0.00000	Porosity	0.95	Time to half empty (mins)	392

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	715.0	0.0	1.200	715.0	0.0	1.201	0.0	0.0

Node SWALE 2 Depth/Area Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Safety Factor	2.0	Invert Level (m)	131.895
Side Inf Coefficient (m/hr)	0.00000	Porosity	1.00	Time to half empty (mins)	65

Depth (m)	Area (m ²)	Inf Area (m ²)	Depth (m)	Area (m ²)	Inf Area (m ²)
0.000	35.0	0.0	0.450	231.0	0.0

Node SWALE 3 Depth/Area Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Safety Factor	2.0	Invert Level (m)	131.895
Side Inf Coefficient (m/hr)	0.00000	Porosity	1.00	Time to half empty (mins)	3

Depth (m)	Area (m ²)	Inf Area (m ²)	Depth (m)	Area (m ²)	Inf Area (m ²)
0.000	14.7	0.0	0.450	100.8	0.0

Rainfall

Event	Peak Intensity (mm/hr)	Average Intensity (mm/hr)	Event	Peak Intensity (mm/hr)	Average Intensity (mm/hr)
1 year 15 minute summer	95.230	26.947	1 year 960 minute winter	5.217	2.074
1 year 15 minute winter	66.828	26.947	1 year 1440 minute summer	5.943	1.593
1 year 30 minute summer	64.434	18.233	1 year 1440 minute winter	3.994	1.593
1 year 30 minute winter	45.217	18.233	1 year 2160 minute summer	4.424	1.223
1 year 60 minute summer	45.726	12.084	1 year 2160 minute winter	3.048	1.223
1 year 60 minute winter	30.379	12.084	1 year 2880 minute summer	3.785	1.014
1 year 120 minute summer	29.850	7.888	1 year 2880 minute winter	2.544	1.014
1 year 120 minute winter	19.832	7.888	1 year 4320 minute summer	2.986	0.781
1 year 180 minute summer	23.812	6.128	1 year 4320 minute winter	1.967	0.781
1 year 180 minute winter	15.479	6.128	1 year 5760 minute summer	2.520	0.645
1 year 240 minute summer	19.370	5.119	1 year 5760 minute winter	1.631	0.645
1 year 240 minute winter	12.869	5.119	30 year 15 minute summer	232.978	65.925
1 year 360 minute summer	15.266	3.928	30 year 15 minute winter	163.494	65.925
1 year 360 minute winter	9.923	3.928	30 year 30 minute summer	158.380	44.816
1 year 480 minute summer	12.320	3.256	30 year 30 minute winter	111.144	44.816
1 year 480 minute winter	8.185	3.256	30 year 60 minute summer	110.635	29.238
1 year 600 minute summer	10.291	2.815	30 year 60 minute winter	73.503	29.238
1 year 600 minute winter	7.032	2.815	30 year 120 minute summer	70.036	18.508
1 year 720 minute summer	9.327	2.500	30 year 120 minute winter	46.530	18.508
1 year 720 minute winter	6.269	2.500	30 year 180 minute summer	54.352	13.987
1 year 960 minute summer	7.875	2.074	30 year 180 minute winter	35.330	13.987

**Rainfall**

Event	Peak Intensity (mm/hr)	Average Intensity (mm/hr)	Event	Peak Intensity (mm/hr)	Average Intensity (mm/hr)
30 year 240 minute summer	43.139	11.400	100 year +45% CC 60 minute winter	140.028	55.699
30 year 240 minute winter	28.660	11.400	100 year +45% CC 120 minute summer	133.463	35.270
30 year 360 minute summer	33.217	8.548	100 year +45% CC 120 minute winter	88.670	35.270
30 year 360 minute winter	21.592	8.548	100 year +45% CC 180 minute summer	103.117	26.535
30 year 480 minute summer	26.330	6.958	100 year +45% CC 180 minute winter	67.028	26.535
30 year 480 minute winter	17.493	6.958	100 year +45% CC 240 minute summer	81.370	21.504
30 year 600 minute summer	21.670	5.927	100 year +45% CC 240 minute winter	54.060	21.504
30 year 600 minute winter	14.806	5.927	100 year +45% CC 360 minute summer	62.215	16.010
30 year 720 minute summer	19.390	5.197	100 year +45% CC 360 minute winter	40.441	16.010
30 year 720 minute winter	13.032	5.197	100 year +45% CC 480 minute summer	49.047	12.962
30 year 960 minute summer	16.025	4.220	100 year +45% CC 480 minute winter	32.585	12.962
30 year 960 minute winter	10.615	4.220	100 year +45% CC 600 minute summer	40.185	10.991
30 year 1440 minute summer	11.720	3.141	100 year +45% CC 600 minute winter	27.457	10.991
30 year 1440 minute winter	7.877	3.141	100 year +45% CC 720 minute summer	35.820	9.600
30 year 2160 minute summer	8.446	2.334	100 year +45% CC 720 minute winter	24.073	9.600
30 year 2160 minute winter	5.820	2.334	100 year +45% CC 960 minute summer	29.413	7.745
30 year 2880 minute summer	7.047	1.889	100 year +45% CC 960 minute winter	19.483	7.745
30 year 2880 minute winter	4.736	1.889	100 year +45% CC 1440 minute summer	21.302	5.709
30 year 4320 minute summer	5.353	1.399	100 year +45% CC 1440 minute winter	14.316	5.709
30 year 4320 minute winter	3.525	1.399	100 year +45% CC 2160 minute summer	15.186	4.197
30 year 5760 minute summer	4.422	1.132	100 year +45% CC 2160 minute winter	10.464	4.197
30 year 5760 minute winter	2.862	1.132	100 year +45% CC 2880 minute summer	12.568	3.368
100 year +45% CC 15 minute summer	436.212	123.433	100 year +45% CC 2880 minute winter	8.446	3.368
100 year +45% CC 15 minute winter	306.113	123.433	100 year +45% CC 4320 minute summer	9.428	2.465
100 year +45% CC 30 minute summer	299.703	84.806	100 year +45% CC 4320 minute winter	6.209	2.465
100 year +45% CC 30 minute winter	210.318	84.806	100 year +45% CC 5760 minute summer	7.725	1.978
100 year +45% CC 60 minute summer	210.766	55.699	100 year +45% CC 5760 minute winter	5.000	1.978

Results for 1 year Critical Storm Duration. Lowest mass balance: 99.63%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	S101	10	131.666	0.031	1.5	0.0050	0.0000	OK
15 minute winter	S102	10	131.547	0.046	3.0	0.0095	0.0000	OK
15 minute winter	SWALE 1	11	131.527	0.042	6.6	0.4782	0.0000	OK
15 minute winter	S103	11	131.027	0.060	8.5	0.0680	0.0000	OK
15 minute winter	OB1	10	130.716	0.053	8.6	0.0108	0.0000	OK
15 minute winter	S104	11	130.496	0.145	51.7	0.2069	0.0000	OK
15 minute winter	OB2	10	130.220	0.069	8.6	0.0141	0.0000	OK
15 minute winter	OB4	10	130.701	0.097	27.3	0.0197	0.0000	OK
15 minute winter	S105	11	129.936	0.189	84.5	0.2711	0.0000	OK
15 minute winter	PI	11	129.835	0.205	84.5	0.0000	0.0000	OK
15 minute winter	S106	11	129.808	0.191	84.6	0.2729	0.0000	OK
60 minute winter	SWALE 2	43	132.008	0.113	7.7	6.7123	0.0000	OK
15 minute winter	SWALE 3	11	131.930	0.035	13.7	0.6300	0.0000	OK
15 minute winter	S107	11	131.438	0.077	13.4	0.0870	0.0000	OK
15 minute winter	S108	10	131.317	0.181	68.1	0.2583	0.0000	OK
15 minute winter	S109	11	131.185	0.149	68.4	0.2136	0.0000	OK
15 minute winter	S110	10	130.918	0.118	92.5	0.1688	0.0000	OK
15 minute winter	S111	11	130.380	0.128	92.2	0.1838	0.0000	OK
240 minute winter	TANK	180	129.634	0.234	47.2	159.0377	0.0000	OK
240 minute winter	HB	180	129.634	0.258	16.3	0.8933	0.0000	SURCHARGED
240 minute winter	S112	180	129.393	0.098	16.3	0.1108	0.0000	OK
240 minute winter	EX MH	180	129.225	0.096	16.3	0.0000	0.0000	OK

Link Event (Outflow)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)
15 minute winter	S101	1.000	S102	1.5	0.408	0.096	0.0655
15 minute winter	S102	1.001	SWALE 1	2.9	0.695	0.204	0.0105
15 minute winter	SWALE 1	1.002	S103	6.3	1.619	0.159	0.0351
15 minute winter	S103	1.003	S104	8.3	0.992	0.152	0.3488
15 minute winter	OB1	2.000	S104	8.6	1.264	0.106	0.0438
15 minute winter	S104	1.004	S105	50.4	1.310	0.309	3.0520
15 minute winter	OB2	3.000	S105	8.4	0.825	0.198	0.2712
15 minute winter	OB4	4.000	S105	27.2	1.929	0.253	0.0419
15 minute winter	S105	1.005	PI	84.5	1.425	0.318	0.1489
15 minute winter	PI	1.006	S106	84.6	1.261	0.316	0.1266
15 minute winter	S106	1.007	TANK	84.6	1.412	0.323	0.1550
60 minute winter	SWALE 2	5.000	SWALE 3	3.5	0.454	0.197	0.3414
15 minute winter	SWALE 3	5.001	S107	13.4	1.491	0.029	0.0296
15 minute winter	S107	5.002	S108	13.3	0.538	0.147	0.9780
15 minute winter	S108	5.003	S109	66.8	1.437	0.411	0.7033
15 minute winter	S109	5.004	S110	68.4	1.949	0.281	0.5629
15 minute winter	S110	5.005	S111	92.2	2.628	0.127	0.3842
15 minute winter	S111	5.006	TANK	92.5	2.751	0.135	0.1153
240 minute winter	TANK	1.008	HB	16.3	0.382	0.062	0.3154
240 minute winter	HB	Hydro-Brake®	S112	16.3			
240 minute winter	S112	1.010	EX MH	16.3	0.997	0.384	0.4056

Results for 30 year Critical Storm Duration. Lowest mass balance: 99.61%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	S101	10	131.684	0.049	3.6	0.0078	0.0000	OK
15 minute winter	S102	10	131.576	0.075	7.2	0.0156	0.0000	OK
15 minute winter	SWALE 1	11	131.553	0.068	16.1	0.8957	0.0000	OK
15 minute winter	S103	11	131.065	0.098	20.9	0.1111	0.0000	OK
15 minute winter	OB1	10	130.750	0.087	21.0	0.0177	0.0000	OK
15 minute winter	S104	10	130.605	0.254	128.3	0.3632	0.0000	OK
15 minute winter	OB2	10	130.265	0.115	21.0	0.0234	0.0000	OK
15 minute winter	OB4	10	130.785	0.180	66.9	0.0366	0.0000	OK
15 minute winter	S105	11	130.075	0.328	211.4	0.4699	0.0000	OK
360 minute winter	PI	280	130.023	0.393	36.5	0.0000	0.0000	OK
360 minute winter	S106	280	130.023	0.406	36.5	0.5803	0.0000	OK
60 minute winter	SWALE 2	44	132.089	0.194	18.7	14.9594	0.0000	FLOOD RISK
15 minute winter	SWALE 3	11	131.950	0.055	34.9	1.0997	0.0000	OK
15 minute winter	S107	11	131.497	0.136	34.4	0.1534	0.0000	OK
15 minute winter	S108	10	131.471	0.335	167.2	0.4792	0.0000	OK
15 minute winter	S109	10	131.301	0.265	169.4	0.3792	0.0000	OK
15 minute winter	S110	10	131.005	0.205	229.3	0.2931	0.0000	OK
15 minute winter	S111	10	130.471	0.219	228.5	0.3129	0.0000	OK
360 minute winter	TANK	280	130.023	0.622	80.0	422.8259	0.0000	SURCHARGED
360 minute winter	HB	280	130.022	0.646	19.2	2.2384	0.0000	SURCHARGED
360 minute winter	S112	280	129.402	0.107	19.1	0.1213	0.0000	OK
360 minute winter	EX MH	280	129.234	0.105	19.1	0.0000	0.0000	OK

Link Event (Outflow)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)
15 minute winter	S101	1.000	S102	3.6	0.517	0.233	0.1243
15 minute winter	S102	1.001	SWALE 1	7.1	0.872	0.495	0.0204
15 minute winter	SWALE 1	1.002	S103	15.5	2.053	0.390	0.0679
15 minute winter	S103	1.003	S104	20.8	1.268	0.381	0.6835
15 minute winter	OB1	2.000	S104	20.9	1.482	0.259	0.0995
15 minute winter	S104	1.004	S105	126.2	1.596	0.773	6.2716
15 minute winter	OB2	3.000	S105	20.6	1.041	0.486	0.5279
15 minute winter	OB4	4.000	S105	66.7	2.306	0.620	0.0850
15 minute winter	S105	1.005	PI	210.9	1.800	0.794	0.2939
15 minute winter	PI	1.006	S106	211.1	1.599	0.788	0.2489
15 minute winter	S106	1.007	TANK	211.5	1.782	0.808	0.3065
60 minute winter	SWALE 2	5.000	SWALE 3	8.1	0.709	0.456	0.4674
15 minute winter	SWALE 3	5.001	S107	34.4	1.884	0.075	0.0627
15 minute winter	S107	5.002	S108	36.1	0.757	0.399	1.7095
15 minute winter	S108	5.003	S109	165.5	1.757	1.018	1.4115
15 minute winter	S109	5.004	S110	169.4	2.342	0.696	1.1574
15 minute winter	S110	5.005	S111	228.5	3.120	0.315	0.8028
15 minute winter	S111	5.006	TANK	227.8	3.411	0.333	0.2292
180 minute winter	TANK	1.008	HB	19.2	0.369	0.072	0.5637
360 minute winter	HB	Hydro-Brake®	S112	19.1			
360 minute winter	S112	1.010	EX MH	19.1	1.038	0.449	0.4557

Results for 100 year +45% CC Critical Storm Duration. Lowest mass balance: 99.66%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	S101	10	131.704	0.069	6.7	0.0109	0.0000	OK
15 minute winter	S102	12	131.653	0.152	13.3	0.0414	0.0000	SURCHARGED
15 minute winter	SWALE 1	12	131.639	0.154	29.3	2.8625	0.0000	SURCHARGED
15 minute winter	S103	11	131.551	0.584	41.4	0.6602	0.0000	SURCHARGED
15 minute winter	OB1	11	131.488	0.824	39.3	0.1674	0.0000	FLOOD RISK
15 minute winter	S104	11	131.426	1.075	221.7	1.5389	0.0000	FLOOD RISK
480 minute winter	OB2	312	131.150	1.000	45.4	0.2030	151.1249	FLOOD
360 minute winter	OB4	248	131.407	0.803	21.0	0.1629	0.0000	FLOOD RISK
360 minute winter	S105	248	131.404	1.657	68.4	2.3715	0.0000	FLOOD RISK
360 minute winter	PI	248	131.404	1.774	65.2	0.0000	0.0000	FLOOD RISK
360 minute winter	S106	248	131.404	1.787	65.0	2.5570	0.0000	FLOOD RISK
60 minute winter	SWALE 2	46	132.200	0.305	35.7	30.9358	0.0000	FLOOD RISK
15 minute winter	SWALE 3	12	132.096	0.201	64.2	6.8351	0.0000	OK
15 minute summer	S107	12	132.112	0.751	81.8	0.8488	0.0000	FLOOD RISK
15 minute winter	S108	10	132.058	0.922	274.1	1.3190	0.0000	SURCHARGED
15 minute winter	S109	10	131.601	0.565	282.4	0.8080	0.0000	SURCHARGED
360 minute winter	S110	248	131.400	0.600	80.8	0.8586	0.0000	SURCHARGED
360 minute winter	S111	248	131.403	1.151	80.8	1.6465	0.0000	SURCHARGED
360 minute winter	TANK	248	131.403	2.003	174.9	815.4396	0.0000	FLOOD RISK
360 minute winter	HB	248	131.404	2.028	25.7	7.0247	0.0000	SURCHARGED
120 minute summer	S112	392	129.402	0.107	19.1	0.1213	0.0000	OK
120 minute winter	EX MH	490	129.234	0.105	19.1	0.0000	0.0000	OK

Link Event (Outflow)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)
15 minute winter	S101	1.000	S102	6.6	0.602	0.434	0.2203
15 minute winter	S102	1.001	SWALE 1	12.5	1.022	0.879	0.0433
15 minute winter	SWALE 1	1.002	S103	35.2	2.349	0.889	0.1585
15 minute summer	S103	1.003	S104	50.4	1.358	0.922	1.6548
15 minute winter	OB1	2.000	S104	38.6	1.459	0.477	0.2573
15 minute winter	S104	1.004	S105	220.5	1.999	1.352	8.7514
360 minute winter	OB2	3.000	S105	-45.7	-1.148	-1.077	1.0598
15 minute winter	OB4	4.000	S105	124.3	3.125	1.154	0.1175
15 minute winter	S105	1.005	PI	377.7	2.384	1.421	0.3977
15 minute winter	PI	1.006	S106	378.0	2.386	1.411	0.2991
15 minute winter	S106	1.007	TANK	378.3	2.388	1.445	0.4020
60 minute winter	SWALE 2	5.000	SWALE 3	11.5	0.883	0.648	0.5125
15 minute winter	SWALE 3	5.001	S107	83.1	1.920	0.180	0.1901
15 minute summer	S107	5.002	S108	90.1	1.280	0.995	2.3755
15 minute winter	S108	5.003	S109	275.1	2.494	1.691	1.6636
15 minute winter	S109	5.004	S110	278.8	2.578	1.145	1.6407
15 minute winter	S110	5.005	S111	391.2	3.407	0.539	1.2577
15 minute winter	S111	5.006	TANK	390.5	3.849	0.572	0.3467
240 minute winter	TANK	1.008	HB	37.5	0.386	0.142	0.5637
60 minute winter	HB	Hydro-Brake®	S112	19.1			
60 minute summer	S112	1.010	EX MH	19.1	1.038	0.449	0.4558