



03/08/2021

Design Settings

Rainfall Methodology	FSR	Maximum Time of Concentration (mins)	30.00
Return Period (years)	1	Maximum Rainfall (mm/hr)	1.0
Additional Flow (%)	0	Minimum Velocity (m/s)	1.00
FSR Region	England and Wales	Connection Type	Level Inverts
M5-60 (mm)	17.000	Minimum Backdrop Height (m)	0.000
Ratio-R	0.400	Preferred Cover Depth (m)	0.900
CV	1.000	Include Intermediate Ground	✓
Time of Entry (mins)	5.00	Enforce best practice design rules	✓

Circular Link Type

Shape	Circular	Auto Increment (mm)	75
Barrels	1	Follow Ground	x

Available Diameters (mm)

100 | 150

Nodes

Name	Area (ha)	T of E (mins)	Cover Level (m)	Diameter (mm)	Width (mm)	Easting (m)	Northing (m)	Depth (m)
EXSW01a	0.089	5.00	58.400	1200		387299.853	397926.771	1.000
EXSW01			59.060	1200		387328.362	397967.410	2.340
EXSW02	0.030	5.00	59.070	1200		387341.548	397969.577	2.440
SW01	0.079	5.00	58.450	1240	900	387369.489	397944.891	1.050
SW02			58.840	1240	900	387355.690	397956.723	1.667
SW03	0.024	5.00	58.430	1240	900	387346.529	397964.577	1.408
SW04jct			59.500			387346.021	397970.902	2.886
SW05	0.027	5.00	59.000	1200		387358.410	397974.572	2.429
SW06	0.089	5.00	58.850	1200		387376.015	397959.706	2.390
SW07a	0.042	8.00	59.750	1200		387432.939	397933.328	1.650
SW07	0.021	8.00	59.300	1200		387405.917	397934.070	2.971
EXSW03a	0.098	5.00	58.580	1200		387352.644	397918.667	1.780
SW08	0.075	8.00	58.700	1200		387364.368	397932.009	2.135
SW09			58.800	1200		387382.571	397916.403	2.451
SW10			59.270	1500		387394.896	397921.215	2.997
EXSW04	0.055	5.00	58.340	1200		387354.196	397895.911	1.380
EXSW05	0.055	5.00	59.080	1200		387402.556	397914.291	2.850
EXSW06			59.670	1200		387433.115	397925.977	3.750

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	EXSW01a	EXSW01	49.642	0.600	57.400	56.720	0.680	73.0	225	5.70	44.0
1.001	EXSW01	EXSW02	13.363	0.600	56.720	56.630	0.090	148.5	225	5.92	43.2
1.002	EXSW02	SW04jct	4.665	0.600	56.630	56.614	0.016	291.6	300	6.00	1.0
2.000	SW01	SW02	18.177	0.600	57.400	57.173	0.227	80.1	225	5.21	1.0
2.001	SW02	SW03	12.067	0.600	57.173	57.022	0.151	79.9	225	5.34	1.0
2.002	SW03	SW04jct	6.345	0.600	57.022	56.614	0.408	15.6	150	5.39	1.0
1.003	SW04jct	SW05	12.921	0.600	56.614	56.571	0.043	300.5	300	6.24	1.0
1.004	SW05	SW06	23.042	0.600	56.571	56.460	0.111	207.6	300	6.60	1.0
1.005	SW06	SW07	39.387	0.600	56.460	56.329	0.131	300.7	300	7.33	1.0
3.000	SW07a	SW07	27.032	0.600	58.100	56.479	1.621	16.7	100	8.24	1.0
1.006	SW07	SW10	16.933	0.600	56.329	56.273	0.056	302.4	300	8.55	1.0
4.000	EXSW03a	SW08	17.761	0.600	56.800	56.640	0.160	111.0	150	5.31	1.0
4.001	SW08	SW09	23.977	0.600	56.565	56.424	0.141	170.0	225	8.40	1.0
4.002	SW09	SW10	13.231	0.600	56.349	56.273	0.076	174.1	300	5.94	1.0
1.007	SW10	EXSW05	10.326	0.600	56.273	56.230	0.043	240.1	300	7.83	1.0
5.000	EXSW04	EXSW05	51.735	0.600	56.960	56.230	0.730	70.9	300	5.72	43.9
1.008	EXSW05	EXSW06	32.717	0.600	56.230	55.920	0.310	105.5	300	7.78	37.8

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	1.532	60.9	14.1	0.775	2.115	0.089	0.0	73	1.252
1.001	1.071	42.6	13.9	2.115	2.215	0.089	0.0	88	0.960
1.002	0.915	64.7	0.4	2.140	2.586	0.119	0.0	17	0.256
2.000	1.462	58.1	0.3	0.825	1.442	0.079	0.0	12	0.384
2.001	1.464	58.2	0.3	1.442	1.183	0.079	0.0	12	0.384
2.002	2.567	45.4	0.4	1.258	2.736	0.104	0.0	10	0.764
1.003	0.902	63.7	0.8	2.586	2.129	0.222	0.0	24	0.313
1.004	1.087	76.9	0.9	2.129	2.090	0.249	0.0	23	0.366
1.005	0.901	63.7	1.2	2.090	2.671	0.338	0.0	28	0.352
3.000	1.900	14.9	0.2	1.550	2.721	0.042	0.0	7	0.608
1.006	0.899	63.5	1.4	2.671	2.697	0.401	0.0	31	0.374
4.000	0.953	16.8	0.4	1.630	1.910	0.098	0.0	15	0.376
4.001	1.000	39.7	0.6	1.910	2.151	0.173	0.0	20	0.369
4.002	1.188	84.0	0.6	2.151	2.697	0.173	0.0	18	0.350
1.007	1.010	71.4	2.1	2.697	2.550	0.574	0.0	35	0.451
5.000	1.870	132.2	8.7	1.080	2.550	0.055	0.0	52	1.072
1.008	1.530	108.1	93.4	2.550	3.450	0.684	0.0	216	1.713

Pipeline Schedule

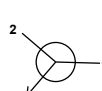
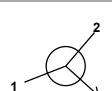
Link	Length (m)	Slope (1:X)	Dia (mm)	Link Type	US CL (m)	US IL (m)	US Depth (m)	DS CL (m)	DS IL (m)	DS Depth (m)
1.000	49.642	73.0	225	Circular	58.400	57.400	0.775	59.060	56.720	2.115
1.001	13.363	148.5	225	Circular	59.060	56.720	2.115	59.070	56.630	2.215
1.002	4.665	291.6	300	Circular	59.070	56.630	2.140	59.500	56.614	2.586
2.000	18.177	80.1	225	Circular	58.450	57.400	0.825	58.840	57.173	1.442
2.001	12.067	79.9	225	Circular	58.840	57.173	1.442	58.430	57.022	1.183
2.002	6.345	15.6	150	Circular	58.430	57.022	1.258	59.500	56.614	2.736
1.003	12.921	300.5	300	Circular	59.500	56.614	2.586	59.000	56.571	2.129
1.004	23.042	207.6	300	Circular	59.000	56.571	2.129	58.850	56.460	2.090
1.005	39.387	300.7	300	Circular	58.850	56.460	2.090	59.300	56.329	2.671
3.000	27.032	16.7	100	Circular	59.750	58.100	1.550	59.300	56.479	2.721
1.006	16.933	302.4	300	Circular	59.300	56.329	2.671	59.270	56.273	2.697
4.000	17.761	111.0	150	Circular	58.580	56.800	1.630	58.700	56.640	1.910
4.001	23.977	170.0	225	Circular	58.700	56.565	1.910	58.800	56.424	2.151
4.002	13.231	174.1	300	Circular	58.800	56.349	2.151	59.270	56.273	2.697
1.007	10.326	240.1	300	Circular	59.270	56.273	2.697	59.080	56.230	2.550
5.000	51.735	70.9	300	Circular	58.340	56.960	1.080	59.080	56.230	2.550
1.008	32.717	105.5	300	Circular	59.080	56.230	2.550	59.670	55.920	3.450

Link	US Node	Dia (mm)	Width (mm)	Node Type	MH Type	DS Node	Dia (mm)	Width (mm)	Node Type	MH Type
1.000	EXSW01a	1200		Manhole	Adoptable	EXSW01	1200		Manhole	Adoptable
1.001	EXSW01	1200		Manhole	Adoptable	EXSW02	1200		Manhole	Adoptable
1.002	EXSW02	1200		Manhole	Adoptable	SW04jct			Junction	
2.000	SW01	1240	900	Manhole	Adoptable	SW02	1240	900	Manhole	Adoptable
2.001	SW02	1240	900	Manhole	Adoptable	SW03	1240	900	Manhole	Adoptable
2.002	SW03	1240	900	Manhole	Adoptable	SW04jct			Junction	
1.003	SW04jct			Junction		SW05	1200		Manhole	Adoptable
1.004	SW05	1200		Manhole	Adoptable	SW06	1200		Manhole	Adoptable
1.005	SW06	1200		Manhole	Adoptable	SW07	1200		Manhole	Adoptable
3.000	SW07a	1200		Manhole	Adoptable	SW07	1200		Manhole	Adoptable
1.006	SW07	1200		Manhole	Adoptable	SW10	1500		Manhole	Adoptable
4.000	EXSW03a	1200		Manhole	Adoptable	SW08	1200		Manhole	Adoptable
4.001	SW08	1200		Manhole	Adoptable	SW09	1200		Manhole	Adoptable
4.002	SW09	1200		Manhole	Adoptable	SW10	1500		Manhole	Adoptable
1.007	SW10	1500		Manhole	Adoptable	EXSW05	1200		Manhole	Adoptable
5.000	EXSW04	1200		Manhole	Adoptable	EXSW05	1200		Manhole	Adoptable
1.008	EXSW05	1200		Manhole	Adoptable	EXSW06	1200		Manhole	Adoptable

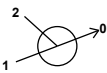
Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Width (mm)	Connections	Link	IL (m)	Dia (mm)
EXSW01a	387299.853	397926.771	58.400	1.000	1200					
							0	1.000	57.400	225
EXSW01	387328.362	397967.410	59.060	2.340	1200			1	1.000	56.720
							0	1.001	56.720	225

Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Width (mm)	Connections	Link	IL (m)	Dia (mm)	
EXSW02	387341.548	397969.577	59.070	2.440	1200			1	1.001	56.630	225
								0	1.002	56.630	300
SW01	387369.489	397944.891	58.450	1.050	1240	900		0	2.000	57.400	225
SW02	387355.690	397956.723	58.840	1.667	1240	900		1	2.000	57.173	225
								0	2.001	57.173	225
SW03	387346.529	397964.577	58.430	1.408	1240	900		1	2.001	57.022	225
								0	2.002	57.022	150
SW04jct	387346.021	397970.902	59.500	2.886				1	2.002	56.614	150
								2	1.002	56.614	300
								0	1.003	56.614	300
SW05	387358.410	397974.572	59.000	2.429	1200			1	1.003	56.571	300
								0	1.004	56.571	300
SW06	387376.015	397959.706	58.850	2.390	1200			1	1.004	56.460	300
								0	1.005	56.460	300
SW07a	387432.939	397933.328	59.750	1.650	1200			0	3.000	58.100	100
SW07	387405.917	397934.070	59.300	2.971	1200			1	3.000	56.479	100
								2	1.005	56.329	300
								0	1.006	56.329	300
EXSW03a	387352.644	397918.667	58.580	1.780	1200			0	4.000	56.800	150
SW08	387364.368	397932.009	58.700	2.135	1200			1	4.000	56.640	150
								0	4.001	56.565	225
SW09	387382.571	397916.403	58.800	2.451	1200			1	4.001	56.424	225
								0	4.002	56.349	300
SW10	387394.896	397921.215	59.270	2.997	1500			1	4.002	56.273	300
								2	1.006	56.273	300
								0	1.007	56.273	300

Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Width (mm)	Connections	Link	IL (m)	Dia (mm)
EXSW04	387354.196	397895.911	58.340	1.380	1200					
							0	5.000	56.960	300
EXSW05	387402.556	397914.291	59.080	2.850	1200					
							1	5.000	56.230	300
							2	1.007	56.230	300
							0	1.008	56.230	300
EXSW06	387433.115	397925.977	59.670	3.750	1200					
							1	1.008	55.920	300

Simulation Settings

Rainfall Methodology	FSR	Analysis Speed	Detailed
FSR Region	England and Wales	Skip Steady State	x
M5-60 (mm)	17.000	Drain Down Time (mins)	240
Ratio-R	0.400	Additional Storage (m³/ha)	0.0
Summer CV	1.000	Check Discharge Rate(s)	x
Winter CV	1.000	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 %)
1	0	0	0
2	0	0	0
5	0	0	0
10	0	0	0
30	0	0	0
100	0	0	0
100	40	0	0

Node SW10 Online Orifice Control

Flap Valve	x	Design Depth (m)	1.800	Discharge Coefficient	0.600
Replaces Downstream Link	✓	Design Flow (l/s)	87.5		
Invert Level (m)	56.273	Diameter (m)	0.189		

Node SW10 Online Orifice Control

Flap Valve	x	Invert Level (m)	57.920	Discharge Coefficient	0.600
Replaces Downstream Link	✓	Diameter (m)	0.225		

Node SW06 Depth/Area Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Safety Factor	2.0	Invert Level (m)	56.460
Side Inf Coefficient (m/hr)	0.00000	Porosity	0.95	Time to half empty (mins)	26



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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	48.0	0.0	1.500	48.0	0.0	1.501	0.0	0.0

Node SW09 Carpark Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Invert Level (m)	57.900	Slope (1:X)	36.0
Side Inf Coefficient (m/hr)	0.00000	Time to half empty (mins)	0	Depth (m)	0.300
Safety Factor	2.0	Width (m)	20.100	Inf Depth (m)	
Porosity	0.30	Length (m)	10.800		

Node SW07a Carpark Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Invert Level (m)	58.660	Slope (1:X)	65.6
Side Inf Coefficient (m/hr)	0.00000	Time to half empty (mins)	0	Depth (m)	0.350
Safety Factor	2.0	Width (m)	2.400	Inf Depth (m)	
Porosity	0.30	Length (m)	42.000		

Node SW06 Depth/Area Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Safety Factor	2.0	Invert Level (m)	56.460
Side Inf Coefficient (m/hr)	0.00000	Porosity	0.30	Time to half empty (mins)	26

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	8.0	0.0	1.500	8.0	0.0	1.501	0.0	0.0

Node SW06 Depth/Area Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Safety Factor	2.0	Invert Level (m)	58.725
Side Inf Coefficient (m/hr)	0.00000	Porosity	1.00	Time to half empty (mins)	

Depth (m)	Area (m ²)	Inf Area (m ²)	Depth (m)	Area (m ²)	Inf Area (m ²)
0.000	18.3	0.0	0.125	30.1	0.0

Node SW07 Carpark Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Invert Level (m)	58.800	Slope (1:X)	40.0
Side Inf Coefficient (m/hr)	0.00000	Time to half empty (mins)	0	Depth (m)	0.300
Safety Factor	2.0	Width (m)	10.800	Inf Depth (m)	
Porosity	0.30	Length (m)	12.000		

Node SW07 Depth/Area Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Safety Factor	2.0	Invert Level (m)	56.400
Side Inf Coefficient (m/hr)	0.00000	Porosity	0.95	Time to half empty (mins)	38

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	23.0	0.0	1.000	23.0	0.0	1.001	0.0	0.0

**Approval Settings**

Node Size	✓	Minimum Full Bore Velocity (m/s)	
Node Losses	✓	Maximum Full Bore Velocity (m/s)	3.000
Link Size	✓	Proportional Velocity	✓
Minimum Diameter (mm)	150	Return Period (years)	
Link Length	✓	Minimum Proportional Velocity (m/s)	0.750
Maximum Length (m)	100.000	Maximum Proportional Velocity (m/s)	3.000
Coordinates	✓	Surcharged Depth	✓
Accuracy (m)	1.000	Return Period (years)	
Crossings	✓	Maximum Surcharged Depth (m)	0.100
Cover Depth	✓	Flooding	✓
Minimum Cover Depth (m)		Return Period (years)	30
Maximum Cover Depth (m)	3.000	Time to Half Empty	x
Backdrops	✓	Discharge Rates	✓
Minimum Backdrop Height (m)		Discharge Volume	✓
Maximum Backdrop Height (m)	1.500	100 year 360 minute (m ³)	
Full Bore Velocity	✓		

Rainfall

Event	Peak Intensity (mm/hr)	Average Intensity (mm/hr)	Event	Peak Intensity (mm/hr)	Average Intensity (mm/hr)
1 year 15 minute summer	92.521	26.180	2 year 180 minute winter	15.687	6.210
1 year 15 minute winter	64.927	26.180	2 year 240 minute summer	19.039	5.032
1 year 30 minute summer	60.022	16.984	2 year 240 minute winter	12.649	5.032
1 year 30 minute winter	42.121	16.984	2 year 360 minute summer	14.516	3.735
1 year 60 minute summer	40.398	10.676	2 year 360 minute winter	9.436	3.735
1 year 60 minute winter	26.839	10.676	2 year 480 minute summer	11.436	3.022
1 year 120 minute summer	24.980	6.602	2 year 480 minute winter	7.598	3.022
1 year 120 minute winter	16.596	6.602	2 year 600 minute summer	9.363	2.561
1 year 180 minute summer	19.271	4.959	2 year 600 minute winter	6.398	2.561
1 year 180 minute winter	12.527	4.959	2 year 720 minute summer	8.339	2.235
1 year 240 minute summer	15.301	4.043	2 year 720 minute winter	5.605	2.235
1 year 240 minute winter	10.165	4.043	2 year 960 minute summer	6.846	1.803
1 year 360 minute summer	11.775	3.030	2 year 960 minute winter	4.535	1.803
1 year 360 minute winter	7.654	3.030	2 year 1440 minute summer	4.967	1.331
1 year 480 minute summer	9.342	2.469	2 year 1440 minute winter	3.338	1.331
1 year 480 minute winter	6.207	2.469	5 year 15 minute summer	155.864	44.104
1 year 600 minute summer	7.682	2.101	5 year 15 minute winter	109.378	44.104
1 year 600 minute winter	5.249	2.101	5 year 30 minute summer	100.117	28.330
1 year 720 minute summer	6.859	1.838	5 year 30 minute winter	70.257	28.330
1 year 720 minute winter	4.609	1.838	5 year 60 minute summer	66.258	17.510
1 year 960 minute summer	5.653	1.489	5 year 60 minute winter	44.020	17.510
1 year 960 minute winter	3.745	1.489	5 year 120 minute summer	40.063	10.587
1 year 1440 minute summer	4.127	1.106	5 year 120 minute winter	26.617	10.587
1 year 1440 minute winter	2.773	1.106	5 year 180 minute summer	30.473	7.842
2 year 15 minute summer	119.760	33.888	5 year 180 minute winter	19.808	7.842
2 year 15 minute winter	84.042	33.888	5 year 240 minute summer	23.940	6.327
2 year 30 minute summer	77.518	21.935	5 year 240 minute winter	15.905	6.327
2 year 30 minute winter	54.399	21.935	5 year 360 minute summer	18.136	4.667
2 year 60 minute summer	51.720	13.668	5 year 360 minute winter	11.789	4.667
2 year 60 minute winter	34.361	13.668	5 year 480 minute summer	14.219	3.758
2 year 120 minute summer	31.549	8.338	5 year 480 minute winter	9.447	3.758
2 year 120 minute winter	20.961	8.338	5 year 600 minute summer	11.603	3.174
2 year 180 minute summer	24.133	6.210	5 year 600 minute winter	7.928	3.174

Rainfall

Event	Peak Intensity (mm/hr)	Average Intensity (mm/hr)	Event	Peak Intensity (mm/hr)	Average Intensity (mm/hr)
5 year 720 minute summer	10.310	2.763	30 year 960 minute winter	8.133	3.233
5 year 720 minute winter	6.929	2.763	30 year 1440 minute summer	8.788	2.355
5 year 960 minute summer	8.430	2.220	30 year 1440 minute winter	5.906	2.355
5 year 960 minute winter	5.584	2.220	100 year 15 minute summer	291.766	82.560
5 year 1440 minute summer	6.081	1.630	100 year 15 minute winter	204.748	82.560
5 year 1440 minute winter	4.087	1.630	100 year 30 minute summer	191.982	54.324
10 year 15 minute summer	179.310	50.739	100 year 30 minute winter	134.724	54.324
10 year 15 minute winter	125.832	50.739	100 year 60 minute summer	129.253	34.158
10 year 30 minute summer	115.897	32.795	100 year 60 minute winter	85.873	34.158
10 year 30 minute winter	81.331	32.795	100 year 120 minute summer	78.836	20.834
10 year 60 minute summer	77.042	20.360	100 year 120 minute winter	52.377	20.834
10 year 60 minute winter	51.185	20.360	100 year 180 minute summer	59.966	15.431
10 year 120 minute summer	46.688	12.338	100 year 180 minute winter	38.980	15.431
10 year 120 minute winter	31.019	12.338	100 year 240 minute summer	46.975	12.414
10 year 180 minute summer	35.513	9.139	100 year 240 minute winter	31.209	12.414
10 year 180 minute winter	23.084	9.139	100 year 360 minute summer	35.264	9.075
10 year 240 minute summer	27.879	7.368	100 year 360 minute winter	22.923	9.075
10 year 240 minute winter	18.522	7.368	100 year 480 minute summer	27.350	7.228
10 year 360 minute summer	21.070	5.422	100 year 480 minute winter	18.171	7.228
10 year 360 minute winter	13.696	5.422	100 year 600 minute summer	22.137	6.055
10 year 480 minute summer	16.473	4.353	100 year 600 minute winter	15.126	6.055
10 year 480 minute winter	10.944	4.353	100 year 720 minute summer	19.562	5.243
10 year 600 minute summer	13.418	3.670	100 year 720 minute winter	13.147	5.243
10 year 600 minute winter	9.168	3.670	100 year 960 minute summer	15.851	4.174
10 year 720 minute summer	11.912	3.193	100 year 960 minute winter	10.500	4.174
10 year 720 minute winter	8.006	3.193	100 year 1440 minute summer	11.278	3.023
10 year 960 minute summer	9.726	2.561	100 year 1440 minute winter	7.579	3.023
10 year 960 minute winter	6.442	2.561	100 year +40% CC 15 minute summer	408.473	115.584
10 year 1440 minute summer	6.999	1.876	100 year +40% CC 15 minute winter	286.647	115.584
10 year 1440 minute winter	4.704	1.876	100 year +40% CC 30 minute summer	268.775	76.054
30 year 15 minute summer	226.195	64.005	100 year +40% CC 30 minute winter	188.614	76.054
30 year 15 minute winter	158.733	64.005	100 year +40% CC 60 minute summer	180.954	47.821
30 year 30 minute summer	147.452	41.724	100 year +40% CC 60 minute winter	120.222	47.821
30 year 30 minute winter	103.475	41.724	100 year +40% CC 120 minute summer	110.370	29.168
30 year 60 minute summer	98.615	26.061	100 year +40% CC 120 minute winter	73.327	29.168
30 year 60 minute winter	65.517	26.061	100 year +40% CC 180 minute summer	83.953	21.604
30 year 120 minute summer	59.946	15.842	100 year +40% CC 180 minute winter	54.572	21.604
30 year 120 minute winter	39.827	15.842	100 year +40% CC 240 minute summer	65.765	17.380
30 year 180 minute summer	45.598	11.734	100 year +40% CC 240 minute winter	43.693	17.380
30 year 180 minute winter	29.640	11.734	100 year +40% CC 360 minute summer	49.370	12.705
30 year 240 minute summer	35.759	9.450	100 year +40% CC 360 minute winter	32.092	12.705
30 year 240 minute winter	23.758	9.450	100 year +40% CC 480 minute summer	38.291	10.119
30 year 360 minute summer	26.939	6.932	100 year +40% CC 480 minute winter	25.439	10.119
30 year 360 minute winter	17.511	6.932	100 year +40% CC 600 minute summer	30.992	8.477
30 year 480 minute summer	20.981	5.545	100 year +40% CC 600 minute winter	21.176	8.477
30 year 480 minute winter	13.940	5.545	100 year +40% CC 720 minute summer	27.387	7.340
30 year 600 minute summer	17.039	4.661	100 year +40% CC 720 minute winter	18.406	7.340
30 year 600 minute winter	11.642	4.661	100 year +40% CC 960 minute summer	22.191	5.844
30 year 720 minute summer	15.093	4.045	100 year +40% CC 960 minute winter	14.700	5.844
30 year 720 minute winter	10.143	4.045	100 year +40% CC 1440 minute summer	15.789	4.232
30 year 960 minute summer	12.278	3.233	100 year +40% CC 1440 minute winter	10.611	4.232

**Results for 1 year Critical Storm Duration. Lowest mass balance: 99.09%**

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	EXSW01a	10	57.471	0.071	13.4	0.0801	0.0000	OK
15 minute summer	EXSW01	11	56.806	0.086	13.2	0.0967	0.0000	OK
15 minute summer	EXSW02	11	56.777	0.147	17.4	0.1664	0.0000	OK
15 minute summer	SW01	10	57.471	0.071	12.0	0.0795	0.0000	OK
15 minute summer	SW02	10	57.246	0.073	11.9	0.0818	0.0000	OK
15 minute summer	SW03	10	57.082	0.060	15.4	0.0671	0.0000	OK
15 minute summer	SW04jct	11	56.772	0.158	32.6	0.0000	0.0000	OK
15 minute summer	SW05	11	56.723	0.152	36.6	0.1719	0.0000	OK
30 minute summer	SW06	23	56.642	0.182	44.3	8.9637	0.0000	OK
15 minute summer	SW07a	11	58.139	0.039	4.7	0.0443	0.0000	OK
30 minute summer	SW07	22	56.633	0.304	40.0	5.4362	0.0000	SURCHARGED
15 minute summer	EXSW03a	10	56.915	0.115	14.9	0.1306	0.0000	OK
15 minute summer	SW08	11	56.693	0.128	22.9	0.1449	0.0000	OK
30 minute summer	SW09	22	56.623	0.274	21.1	0.3097	0.0000	OK
30 minute summer	SW10	22	56.621	0.348	37.5	0.6149	0.0000	SURCHARGED
15 minute summer	EXSW04	10	57.010	0.050	8.2	0.0564	0.0000	OK
30 minute summer	EXSW05	20	56.373	0.143	46.3	0.1614	0.0000	OK
30 minute summer	EXSW06	20	56.055	0.135	46.0	0.0000	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	EXSW01a	1.000	EXSW01	13.2	1.109	0.217	0.6045	
15 minute summer	EXSW01	1.001	EXSW02	13.1	0.631	0.307	0.2761	
15 minute summer	EXSW02	1.002	SW04jct	17.4	0.484	0.269	0.1678	
15 minute summer	SW01	2.000	SW02	11.9	1.083	0.205	0.1998	
15 minute summer	SW02	2.001	SW03	11.8	1.197	0.202	0.1189	
15 minute summer	SW03	2.002	SW04jct	15.3	1.133	0.337	0.0768	
15 minute summer	SW04jct	1.003	SW05	32.7	0.891	0.513	0.4741	
15 minute summer	SW05	1.004	SW06	36.3	1.228	0.473	0.8308	
30 minute summer	SW06	1.005	SW07	33.0	0.724	0.519	2.2684	
15 minute summer	SW07a	3.000	SW07	4.7	1.662	0.315	0.1430	
30 minute summer	SW07	1.006	SW10	28.7	0.451	0.452	1.1924	
15 minute summer	EXSW03a	4.000	SW08	14.6	1.044	0.868	0.2491	
15 minute summer	SW08	4.001	SW09	23.0	1.017	0.578	0.6073	
30 minute summer	SW09	4.002	SW10	19.5	0.534	0.232	0.9120	
30 minute summer	SW10	Orifice	EXSW05	37.4				
30 minute summer	SW10	Orifice	EXSW05	0.0				
15 minute summer	EXSW04	5.000	EXSW05	8.1	0.508	0.061	1.0125	
30 minute summer	EXSW05	1.008	EXSW06	46.0	1.444	0.426	1.0438	57.9

**Results for 2 year Critical Storm Duration. Lowest mass balance: 99.09%**

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	EXSW01a	10	57.481	0.081	17.4	0.0918	0.0000	OK
15 minute summer	EXSW01	11	56.826	0.106	17.2	0.1201	0.0000	OK
15 minute summer	EXSW02	11	56.806	0.176	22.4	0.1987	0.0000	OK
15 minute summer	SW01	10	57.482	0.082	15.5	0.0916	0.0000	OK
15 minute summer	SW02	10	57.257	0.084	15.4	0.0942	0.0000	OK
15 minute summer	SW03	10	57.092	0.070	19.9	0.0778	0.0000	OK
15 minute summer	SW04jct	11	56.800	0.186	42.1	0.0000	0.0000	OK
15 minute summer	SW05	11	56.751	0.180	47.0	0.2035	0.0000	OK
30 minute summer	SW06	23	56.727	0.267	57.1	13.1126	0.0000	OK
15 minute summer	SW07a	12	58.144	0.044	6.0	0.0500	0.0000	OK
30 minute summer	SW07	23	56.712	0.383	45.7	7.2504	0.0000	SURCHARGED
15 minute summer	EXSW03a	11	56.981	0.181	19.2	0.2049	0.0000	SURCHARGED
30 minute summer	SW08	21	56.721	0.156	27.6	0.1765	0.0000	OK
30 minute summer	SW09	22	56.698	0.349	27.3	0.3943	0.0000	SURCHARGED
30 minute summer	SW10	23	56.695	0.422	42.0	0.7453	0.0000	SURCHARGED
15 minute summer	EXSW04	10	57.017	0.057	10.7	0.0642	0.0000	OK
30 minute summer	EXSW05	20	56.389	0.159	55.1	0.1794	0.0000	OK
30 minute summer	EXSW06	20	56.070	0.150	55.0	0.0000	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	EXSW01a	1.000	EXSW01	17.2	1.178	0.282	0.7723	
15 minute summer	EXSW01	1.001	EXSW02	16.8	0.643	0.395	0.3454	
15 minute summer	EXSW02	1.002	SW04jct	22.4	0.504	0.346	0.2071	
15 minute summer	SW01	2.000	SW02	15.4	1.154	0.265	0.2424	
15 minute summer	SW02	2.001	SW03	15.2	1.270	0.262	0.1450	
15 minute summer	SW03	2.002	SW04jct	19.8	1.340	0.437	0.0813	
15 minute summer	SW04jct	1.003	SW05	42.0	0.942	0.659	0.5818	
15 minute summer	SW05	1.004	SW06	46.4	1.263	0.604	1.1039	
30 minute summer	SW06	1.005	SW07	36.8	0.729	0.578	2.6907	
15 minute summer	SW07a	3.000	SW07	6.0	1.757	0.402	0.1509	
30 minute summer	SW07	1.006	SW10	32.8	0.465	0.516	1.1924	
15 minute summer	EXSW03a	4.000	SW08	18.6	1.067	1.105	0.2961	
30 minute summer	SW08	4.001	SW09	27.3	1.030	0.686	0.8292	
30 minute summer	SW09	4.002	SW10	25.7	0.576	0.305	0.9317	
30 minute summer	SW10	Orifice	EXSW05	42.0				
30 minute summer	SW10	Orifice	EXSW05	0.0				
15 minute summer	EXSW04	5.000	EXSW05	10.5	0.558	0.079	1.1797	
30 minute summer	EXSW05	1.008	EXSW06	55.0	1.508	0.508	1.1928	74.8

**Results for 5 year Critical Storm Duration. Lowest mass balance: 99.09%**

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	EXSW01a	10	57.494	0.094	22.6	0.1059	0.0000	OK
15 minute summer	EXSW01	11	56.863	0.143	22.3	0.1619	0.0000	OK
30 minute summer	EXSW02	23	56.848	0.218	25.6	0.2464	0.0000	OK
15 minute summer	SW01	10	57.496	0.096	20.2	0.1067	0.0000	OK
15 minute summer	SW02	10	57.271	0.098	20.1	0.1091	0.0000	OK
15 minute summer	SW03	11	57.111	0.089	26.0	0.0997	0.0000	OK
30 minute summer	SW04jct	23	56.848	0.234	48.5	0.0000	0.0000	OK
30 minute summer	SW05	23	56.847	0.276	54.1	0.3118	0.0000	OK
30 minute summer	SW06	23	56.841	0.381	73.1	18.7122	0.0000	SURCHARGED
15 minute summer	SW07a	12	58.152	0.052	7.9	0.0587	0.0000	OK
30 minute summer	SW07	23	56.822	0.493	48.9	9.7963	0.0000	SURCHARGED
15 minute summer	EXSW03a	11	57.159	0.359	25.0	0.4063	0.0000	SURCHARGED
15 minute summer	SW08	12	56.874	0.309	38.3	0.3496	0.0000	SURCHARGED
30 minute summer	SW09	22	56.812	0.463	33.2	0.5235	0.0000	SURCHARGED
30 minute summer	SW10	22	56.805	0.532	48.0	0.9396	0.0000	SURCHARGED
15 minute summer	EXSW04	10	57.025	0.065	13.9	0.0731	0.0000	OK
15 minute summer	EXSW05	12	56.407	0.177	65.1	0.2006	0.0000	OK
15 minute summer	EXSW06	12	56.086	0.166	65.3	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	EXSW01a	1.000	EXSW01	22.3	1.213	0.367	1.0425	
15 minute summer	EXSW01	1.001	EXSW02	21.1	0.641	0.496	0.4390	
30 minute summer	EXSW02	1.002	SW04jct	25.5	0.505	0.395	0.2652	
15 minute summer	SW01	2.000	SW02	20.1	1.232	0.345	0.2960	
15 minute summer	SW02	2.001	SW03	19.9	1.282	0.342	0.1875	
15 minute summer	SW03	2.002	SW04jct	25.8	1.622	0.568	0.0905	
30 minute summer	SW04jct	1.003	SW05	48.1	0.942	0.755	0.8181	
30 minute summer	SW05	1.004	SW06	53.2	1.086	0.692	1.5919	
30 minute summer	SW06	1.005	SW07	38.4	0.724	0.602	2.7736	
15 minute summer	SW07a	3.000	SW07	7.9	1.831	0.529	0.1612	
30 minute summer	SW07	1.006	SW10	36.8	0.523	0.580	1.1924	
15 minute summer	EXSW03a	4.000	SW08	24.2	1.375	1.437	0.3127	
15 minute summer	SW08	4.001	SW09	36.1	1.120	0.909	0.9536	
30 minute summer	SW09	4.002	SW10	32.5	0.609	0.387	0.9317	
30 minute summer	SW10	Orifice	EXSW05	47.9				
30 minute summer	SW10	Orifice	EXSW05	0.0				
15 minute summer	EXSW04	5.000	EXSW05	13.7	0.588	0.103	1.3782	
15 minute summer	EXSW05	1.008	EXSW06	65.3	1.566	0.604	1.3636	75.1

**Results for 10 year Critical Storm Duration. Lowest mass balance: 99.09%**

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	EXSW01a	10	57.501	0.101	26.0	0.1145	0.0000	OK
30 minute summer	EXSW01	21	56.945	0.225	23.1	0.2548	0.0000	SURCHARGED
30 minute summer	EXSW02	23	56.941	0.311	29.1	0.3514	0.0000	SURCHARGED
15 minute summer	SW01	10	57.504	0.104	23.3	0.1161	0.0000	OK
15 minute summer	SW02	10	57.279	0.106	23.1	0.1186	0.0000	OK
15 minute summer	SW03	11	57.126	0.104	30.0	0.1163	0.0000	OK
30 minute summer	SW04jct	23	56.940	0.326	55.5	0.0000	0.0000	SURCHARGED
30 minute summer	SW05	23	56.937	0.366	61.9	0.4139	0.0000	SURCHARGED
30 minute summer	SW06	24	56.930	0.470	83.1	23.0844	0.0000	SURCHARGED
15 minute summer	SW07a	12	58.156	0.056	9.0	0.0636	0.0000	OK
30 minute summer	SW07	23	56.906	0.577	47.7	11.7258	0.0000	SURCHARGED
15 minute summer	EXSW03a	11	57.369	0.569	28.8	0.6430	0.0000	SURCHARGED
30 minute summer	SW08	20	56.983	0.418	39.3	0.4726	0.0000	SURCHARGED
30 minute summer	SW09	22	56.890	0.541	38.5	0.6121	0.0000	SURCHARGED
30 minute summer	SW10	23	56.884	0.611	51.8	1.0805	0.0000	SURCHARGED
15 minute summer	EXSW04	10	57.029	0.069	16.0	0.0785	0.0000	OK
15 minute summer	EXSW05	12	56.419	0.189	71.8	0.2132	0.0000	OK
15 minute summer	EXSW06	12	56.096	0.176	71.5	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	EXSW01a	1.000	EXSW01	25.7	1.245	0.422	1.2667	
30 minute summer	EXSW01	1.001	EXSW02	21.3	0.625	0.500	0.5313	
30 minute summer	EXSW02	1.002	SW04jct	28.6	0.503	0.442	0.3285	
15 minute summer	SW01	2.000	SW02	23.1	1.272	0.398	0.3306	
15 minute summer	SW02	2.001	SW03	22.9	1.287	0.394	0.2179	
15 minute summer	SW03	2.002	SW04jct	29.7	1.788	0.654	0.0973	
30 minute summer	SW04jct	1.003	SW05	54.9	0.959	0.861	0.9099	
30 minute summer	SW05	1.004	SW06	60.1	1.103	0.782	1.6226	
30 minute summer	SW06	1.005	SW07	35.6	0.712	0.558	2.7736	
15 minute summer	SW07a	3.000	SW07	9.0	1.895	0.603	0.1670	
30 minute summer	SW07	1.006	SW10	40.3	0.573	0.635	1.1924	
15 minute summer	EXSW03a	4.000	SW08	27.3	1.551	1.621	0.3127	
30 minute summer	SW08	4.001	SW09	38.5	1.064	0.969	0.9536	
30 minute summer	SW09	4.002	SW10	37.6	0.614	0.447	0.9317	
30 minute summer	SW10	Orifice	EXSW05	51.9				
30 minute summer	SW10	Orifice	EXSW05	0.0				
15 minute summer	EXSW04	5.000	EXSW05	15.7	0.611	0.119	1.5039	
15 minute summer	EXSW05	1.008	EXSW06	71.5	1.598	0.661	1.4642	86.4

**Results for 30 year Critical Storm Duration. Lowest mass balance: 99.09%**

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m ³)	Flood (m ³)	Status
15 minute summer	EXSW01a	10	57.516	0.116	32.8	0.1311	0.0000	OK
30 minute summer	EXSW01	21	57.156	0.436	29.4	0.4929	0.0000	SURCHARGED
30 minute summer	EXSW02	22	57.142	0.512	32.6	0.5788	0.0000	SURCHARGED
15 minute summer	SW01	10	57.520	0.120	29.3	0.1338	0.0000	OK
15 minute summer	SW02	12	57.323	0.150	29.1	0.1674	0.0000	OK
15 minute summer	SW03	12	57.304	0.282	37.3	0.3152	0.0000	SURCHARGED
30 minute summer	SW04jct	22	57.140	0.526	64.1	0.0000	0.0000	SURCHARGED
30 minute summer	SW05	24	57.135	0.564	71.2	0.6382	0.0000	SURCHARGED
30 minute summer	SW06	24	57.126	0.666	96.6	32.7141	0.0000	SURCHARGED
30 minute summer	SW07a	20	58.167	0.067	11.4	0.0763	0.0000	OK
30 minute summer	SW07	23	57.093	0.764	47.9	16.0069	0.0000	SURCHARGED
15 minute summer	EXSW03a	11	57.849	1.049	36.3	1.1860	0.0000	SURCHARGED
30 minute summer	SW08	20	57.229	0.664	49.9	0.7504	0.0000	SURCHARGED
30 minute summer	SW09	23	57.076	0.727	48.5	0.8217	0.0000	SURCHARGED
30 minute summer	SW10	23	57.067	0.794	60.0	1.4030	0.0000	SURCHARGED
15 minute summer	EXSW04	10	57.038	0.078	20.1	0.0881	0.0000	OK
30 minute summer	EXSW05	19	56.441	0.211	83.5	0.2381	0.0000	OK
15 minute summer	EXSW06	12	56.115	0.195	83.2	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	EXSW01a	1.000	EXSW01	32.5	1.288	0.533	1.4987	
30 minute summer	EXSW01	1.001	EXSW02	23.2	0.622	0.545	0.5315	
30 minute summer	EXSW02	1.002	SW04jct	31.5	0.495	0.487	0.3285	
15 minute summer	SW01	2.000	SW02	29.1	1.318	0.501	0.4171	
15 minute summer	SW02	2.001	SW03	28.4	1.285	0.488	0.4095	
15 minute summer	SW03	2.002	SW04jct	33.5	1.941	0.739	0.1117	
30 minute summer	SW04jct	1.003	SW05	62.3	0.973	0.977	0.9099	
30 minute summer	SW05	1.004	SW06	67.4	1.114	0.878	1.6226	
30 minute summer	SW06	1.005	SW07	35.2	0.698	0.553	2.7736	
30 minute summer	SW07a	3.000	SW07	11.3	1.708	0.756	0.1817	
30 minute summer	SW07	1.006	SW10	46.3	0.658	0.729	1.1924	
15 minute summer	EXSW03a	4.000	SW08	32.3	1.836	1.920	0.3127	
30 minute summer	SW08	4.001	SW09	48.5	1.219	1.219	0.9536	
30 minute summer	SW09	4.002	SW10	46.9	0.666	0.558	0.9317	
30 minute summer	SW10	Orifice	EXSW05	60.0				
30 minute summer	SW10	Orifice	EXSW05	0.0				
15 minute summer	EXSW04	5.000	EXSW05	19.8	0.659	0.150	1.7342	
30 minute summer	EXSW05	1.008	EXSW06	82.9	1.644	0.766	1.6523	142.6

**Results for 100 year Critical Storm Duration. Lowest mass balance: 99.09%**

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	EXSW01a	12	57.560	0.160	42.4	0.1805	0.0000	OK
30 minute summer	EXSW01	21	57.459	0.739	37.5	0.8359	0.0000	SURCHARGED
30 minute summer	EXSW02	23	57.432	0.802	42.7	0.9067	0.0000	SURCHARGED
15 minute summer	SW01	12	57.807	0.407	37.8	0.4538	0.0000	SURCHARGED
15 minute summer	SW02	12	57.734	0.561	35.2	0.6265	0.0000	SURCHARGED
15 minute summer	SW03	12	57.682	0.660	45.3	0.7367	0.0000	SURCHARGED
30 minute summer	SW04jct	23	57.430	0.816	73.9	0.0000	0.0000	SURCHARGED
30 minute summer	SW05	24	57.419	0.848	83.6	0.9590	0.0000	SURCHARGED
30 minute summer	SW06	25	57.405	0.945	119.4	46.4473	0.0000	SURCHARGED
30 minute summer	SW07a	22	58.587	0.487	14.9	0.5508	0.0000	SURCHARGED
30 minute summer	SW07	24	57.364	1.035	46.1	22.2335	0.0000	SURCHARGED
15 minute summer	EXSW03a	11	58.580	1.780	46.9	2.0132	0.2361	FLOOD
30 minute summer	SW08	20	57.616	1.051	64.4	1.1882	0.0000	SURCHARGED
30 minute summer	SW09	23	57.340	0.991	62.3	1.1206	0.0000	SURCHARGED
30 minute summer	SW10	24	57.323	1.050	70.1	1.8561	0.0000	SURCHARGED
15 minute summer	EXSW04	10	57.049	0.089	26.0	0.1005	0.0000	OK
30 minute summer	EXSW05	19	56.478	0.248	100.7	0.2800	0.0000	OK
30 minute summer	EXSW06	19	56.144	0.224	99.9	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	EXSW01a	1.000	EXSW01	41.6	1.297	0.682	1.7346	
30 minute summer	EXSW01	1.001	EXSW02	29.8	0.750	0.701	0.5315	
30 minute summer	EXSW02	1.002	SW04jct	40.5	0.575	0.626	0.3285	
15 minute summer	SW01	2.000	SW02	35.2	1.378	0.605	0.7229	
15 minute summer	SW02	2.001	SW03	34.3	1.276	0.589	0.4799	
15 minute summer	SW03	2.002	SW04jct	37.6	2.137	0.829	0.1117	
30 minute summer	SW04jct	1.003	SW05	72.0	1.022	1.130	0.9099	
30 minute summer	SW05	1.004	SW06	81.4	1.155	1.059	1.6226	
30 minute summer	SW06	1.005	SW07	41.4	0.684	0.650	2.7736	
30 minute summer	SW07a	3.000	SW07	13.2	1.734	0.885	0.2115	
30 minute summer	SW07	1.006	SW10	55.7	0.791	0.877	1.1924	
15 minute summer	EXSW03a	4.000	SW08	40.7	2.314	2.419	0.3127	
30 minute summer	SW08	4.001	SW09	62.3	1.566	1.567	0.9536	
30 minute summer	SW09	4.002	SW10	60.2	0.855	0.716	0.9317	
30 minute summer	SW10	Orifice	EXSW05	70.1				
30 minute summer	SW10	Orifice	EXSW05	0.0				
15 minute summer	EXSW04	5.000	EXSW05	25.7	0.710	0.194	2.0318	
30 minute summer	EXSW05	1.008	EXSW06	99.9	1.688	0.924	1.9383	186.3

**Results for 100 year +40% CC Critical Storm Duration. Lowest mass balance: 99.09%**

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	EXSW01a	11	58.400	1.000	59.3	1.1310	0.3166	FLOOD
60 minute summer	EXSW01	41	58.129	1.409	36.6	1.5939	0.0000	SURCHARGED
60 minute summer	EXSW02	41	58.110	1.480	47.1	1.6740	0.0000	SURCHARGED
15 minute summer	SW01	11	58.450	1.050	53.0	1.1718	1.4497	FLOOD
30 minute summer	SW02	20	58.373	1.200	41.7	1.3389	0.0000	SURCHARGED
30 minute summer	SW03	20	58.317	1.295	50.2	1.4451	0.0000	FLOOD RISK
60 minute summer	SW04jct	41	58.106	1.492	82.2	0.0000	0.0000	SURCHARGED
60 minute summer	SW05	42	58.090	1.519	91.8	1.7175	0.0000	SURCHARGED
60 minute summer	SW06	40	58.082	1.622	127.5	73.8583	0.0000	SURCHARGED
30 minute summer	SW07a	24	59.021	0.921	20.9	2.7509	0.0000	SURCHARGED
60 minute summer	SW07	41	57.986	1.657	64.9	23.7460	0.0000	SURCHARGED
15 minute summer	EXSW03a	9	58.580	1.780	65.6	2.0132	5.7067	FLOOD
30 minute summer	SW08	22	58.156	1.591	71.7	1.7993	0.0000	SURCHARGED
60 minute summer	SW09	41	57.930	1.581	63.3	1.8913	0.0000	SURCHARGED
60 minute summer	SW10	41	57.916	1.643	88.7	2.9040	0.0000	SURCHARGED
15 minute summer	EXSW04	10	57.066	0.106	36.4	0.1199	0.0000	OK
30 minute summer	EXSW05	20	56.643	0.413	122.8	0.4676	0.0000	SURCHARGED
30 minute summer	EXSW06	20	56.186	0.266	122.5	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	EXSW01a	1.000	EXSW01	51.3	1.290	0.842	1.9743	
60 minute summer	EXSW01	1.001	EXSW02	34.3	0.862	0.805	0.5315	
60 minute summer	EXSW02	1.002	SW04jct	44.9	0.638	0.694	0.3285	
15 minute summer	SW01	2.000	SW02	44.9	1.398	0.772	0.7229	
30 minute summer	SW02	2.001	SW03	35.7	1.276	0.614	0.4799	
30 minute summer	SW03	2.002	SW04jct	44.5	2.528	0.981	0.1117	
60 minute summer	SW04jct	1.003	SW05	80.3	1.140	1.260	0.9099	
60 minute summer	SW05	1.004	SW06	89.6	1.272	1.166	1.6226	
60 minute summer	SW06	1.005	SW07	59.0	0.838	0.927	2.7736	
30 minute summer	SW07a	3.000	SW07	13.7	1.745	0.915	0.2115	
60 minute summer	SW07	1.006	SW10	65.5	0.930	1.031	1.1924	
15 minute summer	EXSW03a	4.000	SW08	41.3	2.348	2.455	0.3127	
30 minute summer	SW08	4.001	SW09	68.8	1.730	1.732	0.9536	
60 minute summer	SW09	4.002	SW10	61.2	0.869	0.729	0.9317	
60 minute summer	SW10	Orifice	EXSW05	88.9				
60 minute summer	SW10	Orifice	EXSW05	0.0				
15 minute summer	EXSW04	5.000	EXSW05	36.0	0.760	0.273	2.3971	
30 minute summer	EXSW05	1.008	EXSW06	122.5	1.742	1.133	2.2326	254.5