Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)
S3	518619.143	134210.535	66.085	1.535	1350	1	1.001	64.625	225
						0	1.002	64.550	300
S4	518626.443	134202.518	65.528	1.528	1350	1	1.002	64.000	300
						0	1.003	64.000	300
S5	518634.092	134189.000	64.733	1.533	1350	1	1.003	63.200	300
						0	1.004	63.200	300
S6	518636.626	134169.571	63.934	1.534	1350	1	1.004	62.400	300
						0	1.005	62.400	300
S7	518578.746	134161.529	65.044	3.086	1350	1	1.005	62.108	300
						0	1.006	61.958	450
S8	518569.478	134151.602	64.729	2.825	1350	1	1.006	61.904	450
						0	1.007	61.904	450
S9	518564.243	134120.701	63.330	1.700	1350	1	1.007	61.630	450
						0	1.008	61.630	450
S13	518577.429	134101.428	62.211	1.531	1350				
						0	2.000	60.680	300
S 14	518613.755	134096.814	61.461	1.561	1350	1	2.000	59.900	300
						0	2.001	59.900	300
S 15	518651.204	134095.241	60.730	1.530	1350	1	2.001	59.200	300
						0	2.002	59.200	300
S16	518653.158	134089.890	60.581	1.731	1350	1	2.002	59.000	300
						0	2.003	58.850	450
S17	518644.526	134048.434	59.694	1.694	1350	1	2.003	58.000	450
						0	2.004	58.000	450
S18	518639.883	134044.824	59.559	1.859	1350	1	2.004	57.850	450
						0	2.005	57.700	600

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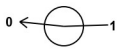
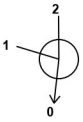
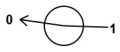
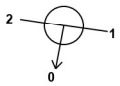
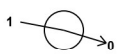
Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)
S19	518619.478	134044.181	59.164	1.850	1350		1	2.005	57.314	600
							0	2.006	57.314	600
S21	518511.050	134063.330	59.989	2.047	1350		0	3.000	57.942	300
S10	518564.682	134049.861	60.004	2.765	1500		1	3.001	57.439	300
							2	1.008	57.388	450
							0	1.009	57.239	600
S11	518563.944	134043.156	59.685	2.748	1500		1	2.007	57.136	600
							2	1.009	56.937	600
							0	1.010	56.937	600
S12	518553.198	134000.054	57.644	1.844	1500		1	1.010	55.801	600
							0	1.011	55.800	600
S22	518619.759	133992.622	58.388	1.445	1350		0	4.000	56.943	225
S23	518599.021	133993.291	58.088	1.488	1350		1	4.000	56.600	225
							0	4.001	56.600	225
S24	518578.510	133996.210	58.088	2.408	1500		1	4.001	55.905	225
							2	1.011	55.680	600
							0	1.012	55.680	600
HW 1.1	518576.866	133987.534	57.000	1.500			1	1.012	55.500	600
							0	1.013	55.500	600
BASIN A	518619.692	133973.522	57.000	1.695			1	5.001	55.305	300
							2	1.013	55.305	600
							0	1.014	55.305	600
S25	518626.986	133966.349	57.714	2.601	1800		1	1.014	55.113	600
							0	1.015	55.113	300
END OF PIPE	518648.752	133960.867	57.410	2.391	1200		1	1.015	55.019	300
S21A	518535.033	134058.797	59.660	1.940	1200		1	3.000	57.720	300
							0	3.001	57.720	300

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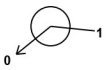
Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)
S20	518571.319	134049.138	59.661	2.500	1350	1	2.006	57.161	600
									
						0	2.007	57.161	600
S26	518519.022	134009.090	57.068	1.532	1500				
						0	5.000	55.536	300
S27	518519.107	134000.115	56.703	1.203	1200	 1	5.000	55.500	300
						0	5.001	55.500	300

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	0.750	Drain Down Time (mins)	4320	Check Discharge Volume	x
Winter CV	0.840	Additional Storage (m³/ha)	0.0		

Storm Durations

15	60	180	360	600	960	2160	4320	7200	10080
30	120	240	480	720	1440	2880	5760	8640	

Return Period (years)	Climate Change (CC %)	Additional Area (A %)	Additional Flow (Q %)
2	0	0	0
30	0	0	0
100	20	0	0
100	40	0	0

Node S25 Online Hydro-Brake® Control

Flap Valve	x	Objective	(HE) Minimise upstream storage
Replaces Downstream Link	x	Sump Available	✓
Invert Level (m)	55.113	Product Number	CTL-SHE-0079-3400-1587-3400
Design Depth (m)	1.587	Min Outlet Diameter (m)	0.100
Design Flow (l/s)	3.4	Min Node Diameter (mm)	1200

Node S25 Online Hydro-Brake® Control

Flap Valve	x	Objective	(HE) Minimise upstream storage
Replaces Downstream Link	x	Sump Available	✓
Invert Level (m)	56.100	Product Number	CTL-SHE-0222-2460-0600-2460
Design Depth (m)	0.600	Min Outlet Diameter (m)	0.300
Design Flow (l/s)	24.6	Min Node Diameter (mm)	1500

Node BASIN A Depth/Area Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Safety Factor	2.0	Invert Level (m)	55.300
Side Inf Coefficient (m/hr)	0.00000	Porosity	1.00	Time to half empty (mins)	540

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Depth (m)	Area (m²)	Inf Area (m²)	Depth (m)	Area (m²)	Inf Area (m²)	Depth (m)	Area (m²)	Inf Area (m²)	Depth (m)	Area (m²)	Inf Area (m²)
0.000	40.6	0.0	0.500	876.0	0.0	1.000	1225.7	0.0	1.500	1590.7	0.0
0.100	173.1	0.0	0.600	944.8	0.0	1.100	1297.3	0.0	1.600	1665.2	0.0
0.200	368.4	0.0	0.700	1014.1	0.0	1.200	1369.6	0.0	1.700	1740.7	0.0
0.300	631.3	0.0	0.800	1084.1	0.0	1.300	1442.4	0.0			
0.400	807.8	0.0	0.900	1154.6	0.0	1.400	1515.8	0.0			

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Results for 2 year Critical Storm Duration. Lowest mass balance: 98.18%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	S1	10	65.055	0.055	5.5	0.0625	0.0000	OK
15 minute winter	S2	11	64.879	0.072	10.8	0.0813	0.0000	OK
15 minute winter	S3	11	64.602	0.052	15.8	0.0742	0.0000	OK
15 minute winter	S4	10	64.059	0.059	21.2	0.0840	0.0000	OK
15 minute winter	S5	11	63.269	0.069	26.4	0.0982	0.0000	OK
15 minute winter	S6	11	62.551	0.151	38.9	0.2157	0.0000	OK
15 minute winter	S7	11	62.121	0.163	50.0	0.2330	0.0000	OK
15 minute winter	S8	11	62.053	0.149	62.0	0.2127	0.0000	OK
15 minute winter	S9	11	61.723	0.093	73.9	0.1329	0.0000	OK
15 minute winter	S13	10	60.736	0.056	12.8	0.0804	0.0000	OK
15 minute winter	S 14	10	59.981	0.081	25.4	0.1164	0.0000	OK
15 minute winter	S 15	10	59.300	0.100	37.6	0.1427	0.0000	OK
15 minute winter	S16	11	58.948	0.098	49.6	0.1405	0.0000	OK
15 minute winter	S17	11	58.124	0.124	61.6	0.1774	0.0000	OK
15 minute winter	S18	11	57.814	0.114	73.7	0.1625	0.0000	OK
15 minute winter	S19	11	57.498	0.184	85.8	0.2627	0.0000	OK
15 minute winter	S21	10	58.013	0.071	12.6	0.1020	0.0000	OK
15 minute winter	S10	11	57.358	0.119	97.4	0.2105	0.0000	OK
15 minute winter	S11	11	57.104	0.167	195.4	0.2953	0.0000	OK
15 minute winter	S12	11	56.087	0.287	206.8	0.5069	0.0000	OK
15 minute winter	S22	10	57.009	0.066	12.8	0.0949	0.0000	OK
15 minute winter	S23	10	56.682	0.082	25.4	0.1175	0.0000	OK
1440 minute winter	S24	1380	55.994	0.314	34.6	0.5546	0.0000	OK
1440 minute winter	HW 1.1	1290	55.999	0.499	141.2	0.0000	0.0000	OK
1440 minute winter	BASIN A	1380	55.994	0.689	132.0	426.1096	0.0000	SURCHARGED

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 winter	S1	1.000	S2	5.3	0.584	0.134	0.2999	
15 minute winter	S2	1.001	S3	10.6	0.996	0.208	0.2014	
15 minute winter	S3	1.002	S4	15.7	1.775	0.063	0.0965	
15 minute winter	S4	1.003	S5	21.0	1.929	0.083	0.1692	
15 minute winter	S5	1.004	S6	26.2	1.167	0.116	0.4659	
15 minute winter	S6	1.005	S7	38.0	1.098	0.485	2.0242	
15 minute winter	S7	1.006	S8	50.0	1.029	0.246	0.6608	
15 minute winter	S8	1.007	S9	61.9	1.812	0.205	1.0842	
15 minute winter	S9	1.008	S10	73.2	3.153	0.092	1.6452	
15 minute winter	S13	2.000	S 14	12.6	1.038	0.078	0.4489	
15 minute winter	S 14	2.001	S 15	24.8	1.389	0.163	0.6721	
15 minute winter	S 15	2.002	S16	37.0	2.021	0.177	0.1048	
15 minute winter	S16	2.003	S17	49.3	1.628	0.107	1.2903	
15 minute winter	S17	2.004	S18	61.7	1.966	0.119	0.1851	
15 minute winter	S18	2.005	S19	73.9	1.363	0.078	1.1221	
15 minute winter	S19	2.006	S20	86.7	1.057	0.183	2.6521	
15 minute winter	S21	3.000	S21A	12.5	0.994	0.118	0.3059	
15 minute winter	S10	1.009	S11	97.4	1.894	0.067	0.3494	
15 minute winter	S11	1.010	S12	194.7	2.001	0.177	4.3628	
15 minute winter	S12	1.011	S24	204.4	1.857	0.435	2.8502	
15 minute winter	S22	4.000	S23	12.7	1.110	0.189	0.2370	
15 minute winter	S23	4.001	S24	25.0	1.977	0.262	0.2625	
1440 minute winter	S24	1.012	HW 1.1	41.2	1.177	0.042	1.7603	
1440 minute winter	HW 1.1	1.013	BASIN A	128.9	0.833	0.095	1.3304	
1440 minute winter	BASIN A	1.014	S25	39.2	0.490	0.042	2.8816	

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Results for 2 year Critical Storm Duration. Lowest mass balance: 98.18%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
1440 minute winter	S25	1380	55.994	0.881	39.2	2.2410	0.0000	SURCHARGED
60 minute summer	END OF PIPE	870	55.059	0.040	2.9	0.0000	0.0000	OK
15 minute winter	S21A	11	57.790	0.070	12.5	0.0794	0.0000	OK
15 minute winter	S20	11	57.377	0.216	86.7	0.3089	0.0000	OK
1440 minute winter	S26	1380	55.994	0.458	0.9	0.8085	0.0000	SURCHARGED
1440 minute winter	S27	1350	55.994	0.494	0.8	0.5584	0.0000	SURCHARGED

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
1440 minute winter	S25	1.015	END OF PIPE	2.9	0.506	0.041	0.1296	671.5
15 minute winter	S21A	3.001	S10	12.3	1.001	0.116	0.3810	
15 minute winter	S20	2.007	S11	86.0	1.038	0.256	0.8640	
1440 minute winter	S26	5.000	S27	0.8	0.128	0.038	7.5186	
1440 minute winter	S27	5.001	BASIN A	0.7	0.067	0.015	7.3265	

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Results for 30 year Critical Storm Duration. Lowest mass balance: 96.18%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	S1	10	65.090	0.090	14.0	0.1022	0.0000	OK
15 minute winter	S2	10	64.931	0.124	27.7	0.1402	0.0000	OK
15 minute winter	S3	10	64.636	0.086	40.9	0.1232	0.0000	OK
15 minute winter	S4	10	64.098	0.098	54.7	0.1406	0.0000	OK
15 minute winter	S5	10	63.312	0.112	68.4	0.1603	0.0000	OK
15 minute winter	S6	11	62.804	0.404	100.7	0.5776	0.0000	SURCHARGED
15 minute winter	S7	11	62.242	0.284	126.4	0.4060	0.0000	OK
15 minute winter	S8	11	62.154	0.250	157.1	0.3575	0.0000	OK
15 minute winter	S9	11	61.781	0.151	187.7	0.2167	0.0000	OK
15 minute winter	S13	10	60.770	0.090	32.8	0.1291	0.0000	OK
15 minute winter	S 14	10	60.036	0.136	65.2	0.1946	0.0000	OK
15 minute winter	S 15	10	59.382	0.182	97.0	0.2606	0.0000	OK
15 minute winter	S16	10	59.012	0.162	128.2	0.2312	0.0000	OK
15 minute winter	S17	11	58.219	0.219	159.6	0.3128	0.0000	OK
15 minute winter	S18	10	57.904	0.204	189.8	0.2916	0.0000	OK
15 minute winter	S19	11	57.643	0.329	221.0	0.4703	0.0000	OK
15 minute winter	S21	10	58.061	0.119	32.4	0.1698	0.0000	OK
15 minute winter	S10	11	57.460	0.221	249.2	0.3902	0.0000	OK
15 minute winter	S11	11	57.229	0.292	503.5	0.5161	0.0000	OK
15 minute winter	S12	11	56.330	0.530	534.7	0.9366	0.0000	OK
15 minute winter	S22	10	57.058	0.115	32.8	0.1641	0.0000	OK
15 minute winter	S23	10	56.747	0.147	65.3	0.2109	0.0000	OK
480 minute winter	S24	376	56.266	0.586	69.3	1.0361	0.0000	OK
30 minute summer	HW 1.1	30	56.316	0.816	526.6	0.0000	0.0000	SURCHARGED
480 minute winter	BASIN A	368	56.266	0.961	228.6	727.6603	0.0000	SURCHARGED

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 winter	S1	1.000	S2	13.7	0.738	0.345	0.6102	
15 minute winter	S2	1.001	S3	27.2	1.264	0.534	0.4078	
15 minute winter	S3	1.002	S4	40.7	2.230	0.162	0.1991	
15 minute winter	S4	1.003	S5	54.4	2.474	0.215	0.3418	
15 minute winter	S5	1.004	S6	67.9	1.384	0.301	0.9247	
15 minute winter	S6	1.005	S7	95.5	1.382	1.220	3.8241	
15 minute winter	S7	1.006	S8	126.3	1.298	0.622	1.3284	
15 minute winter	S8	1.007	S9	156.9	2.297	0.519	2.1495	
15 minute winter	S9	1.008	S10	187.0	4.089	0.236	3.2407	
15 minute winter	S13	2.000	S 14	32.5	1.337	0.200	0.8941	
15 minute winter	S 14	2.001	S 15	64.2	1.694	0.422	1.4201	
15 minute winter	S 15	2.002	S16	95.9	2.479	0.459	0.2203	
15 minute winter	S16	2.003	S17	127.3	2.004	0.277	2.6979	
15 minute winter	S17	2.004	S18	158.7	2.438	0.307	0.3834	
15 minute winter	S18	2.005	S19	190.1	1.579	0.201	2.4682	
15 minute winter	S19	2.006	S20	222.9	1.323	0.472	5.4441	
15 minute winter	S21	3.000	S21A	32.0	1.258	0.303	0.6220	
15 minute winter	S10	1.009	S11	249.2	2.184	0.171	0.7762	
15 minute winter	S11	1.010	S12	503.9	2.452	0.457	8.8664	
15 minute winter	S12	1.011	S24	532.8	2.329	1.133	5.7652	
15 minute winter	S22	4.000	S23	32.5	1.365	0.485	0.4967	
15 minute winter	S23	4.001	S24	64.4	2.464	0.673	0.5678	
480 minute winter	S24	1.012	HW 1.1	183.6	1.768	0.187	2.4802	
30 minute summer	HW 1.1	1.013	BASIN A	525.1	3.217	0.385	1.4084	
480 minute winter	BASIN A	1.014	S25	39.3	0.452	0.042	2.8816	

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Results for 30 year Critical Storm Duration. Lowest mass balance: 96.18%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
480 minute winter	S25	368	56.266	1.153	39.3	2.9349	0.0000	SURCHARGED
480 minute winter	END OF PIPE	368	55.126	0.107	20.1	0.0000	0.0000	OK
15 minute winter	S21A	11	57.836	0.116	32.0	0.1313	0.0000	OK
15 minute winter	S20	11	57.525	0.364	222.9	0.5212	0.0000	OK
480 minute winter	S26	368	56.266	0.730	3.7	1.2906	0.0000	SURCHARGED
480 minute winter	S27	368	56.266	0.766	3.6	0.8668	0.0000	SURCHARGED

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
480 minute winter	S25	1.015	END OF PIPE	20.1	0.858	0.280	0.5251	989.1
15 minute winter	S21A	3.001	S10	31.7	1.294	0.299	0.7574	
15 minute winter	S20	2.007	S11	223.4	1.380	0.666	1.6857	
480 minute winter	S26	5.000	S27	3.6	0.156	0.181	7.5186	
480 minute winter	S27	5.001	BASIN A	3.4	0.049	0.072	7.3265	

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Results for 100 year +20% CC Critical Storm Duration. Lowest mass balance: 97.31%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	S1	10	65.115	0.115	21.3	0.1298	0.0000	OK
15 minute winter	S2	10	64.973	0.166	42.2	0.1881	0.0000	OK
15 minute winter	S3	10	64.660	0.110	62.2	0.1580	0.0000	OK
15 minute winter	S4	10	64.118	0.118	83.2	0.1691	0.0000	OK
15 minute winter	S5	11	63.614	0.414	104.6	0.5919	0.0000	SURCHARGED
15 minute winter	S6	11	63.416	1.016	143.3	1.4536	0.0000	SURCHARGED
15 minute winter	S7	11	62.336	0.378	186.8	0.5407	0.0000	OK
15 minute winter	S8	11	62.225	0.321	233.0	0.4591	0.0000	OK
15 minute winter	S9	11	61.819	0.189	279.0	0.2709	0.0000	OK
15 minute winter	S13	10	60.792	0.112	49.7	0.1606	0.0000	OK
15 minute winter	S 14	10	60.078	0.178	98.9	0.2550	0.0000	OK
15 minute winter	S 15	10	59.451	0.251	147.1	0.3594	0.0000	OK
15 minute winter	S16	10	59.057	0.207	194.4	0.2964	0.0000	OK
15 minute winter	S17	10	58.287	0.287	242.1	0.4102	0.0000	OK
15 minute winter	S18	10	57.973	0.273	288.2	0.3902	0.0000	OK
15 minute winter	S19	11	57.759	0.445	336.1	0.6366	0.0000	OK
15 minute winter	S21	10	58.094	0.152	49.1	0.2174	0.0000	OK
15 minute winter	S10	11	57.570	0.331	374.2	0.5843	0.0000	OK
15 minute winter	S11	11	57.411	0.474	760.2	0.8382	0.0000	OK
15 minute winter	S12	11	56.766	0.966	806.3	1.7076	0.0000	SURCHARGED
15 minute winter	S22	11	57.193	0.250	49.7	0.3578	0.0000	SURCHARGED
15 minute winter	S23	11	56.990	0.390	96.1	0.5583	0.0000	SURCHARGED
480 minute winter	S24	376	56.513	0.833	104.5	1.4723	0.0000	SURCHARGED
480 minute winter	HW 1.1	376	56.513	1.013	265.5	0.0000	0.0000	SURCHARGED
480 minute winter	BASIN A	376	56.513	1.208	366.3	1045.8220	0.0000	SURCHARGED

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 winter	S1	1.000	S2	20.9	0.803	0.526	0.8470	
15 minute winter	S2	1.001	S3	41.3	1.377	0.811	0.5681	
15 minute winter	S3	1.002	S4	61.9	2.520	0.246	0.2671	
15 minute winter	S4	1.003	S5	83.3	2.511	0.329	0.7452	
15 minute winter	S5	1.004	S6	96.4	1.480	0.427	1.3798	
15 minute winter	S6	1.005	S7	140.1	1.989	1.789	4.0456	
15 minute winter	S7	1.006	S8	186.3	1.421	0.917	1.7858	
15 minute winter	S8	1.007	S9	232.3	2.507	0.769	2.8863	
15 minute winter	S9	1.008	S10	280.0	4.546	0.353	4.3641	
15 minute winter	S13	2.000	S 14	49.3	1.458	0.303	1.2384	
15 minute winter	S 14	2.001	S 15	97.4	1.806	0.640	1.9978	
15 minute winter	S 15	2.002	S16	145.3	2.672	0.695	0.3069	
15 minute winter	S16	2.003	S17	193.0	2.173	0.421	3.7637	
15 minute winter	S17	2.004	S18	240.3	2.670	0.464	0.5284	
15 minute winter	S18	2.005	S19	287.7	1.650	0.303	3.5401	
15 minute winter	S19	2.006	S20	337.1	1.468	0.713	7.4194	
15 minute winter	S21	3.000	S21A	48.6	1.381	0.459	0.8586	
15 minute winter	S10	1.009	S11	375.0	2.261	0.257	1.3429	
15 minute winter	S11	1.010	S12	759.6	2.754	0.689	11.5648	
15 minute winter	S12	1.011	S24	804.7	2.875	1.711	6.8944	
15 minute winter	S22	4.000	S23	46.4	1.391	0.693	0.8252	
15 minute winter	S23	4.001	S24	91.0	2.489	0.952	0.8240	
480 minute winter	S24	1.012	HW 1.1	150.4	1.690	0.153	2.4875	
480 minute winter	HW 1.1	1.013	BASIN A	353.5	1.414	0.259	1.4084	
480 minute winter	BASIN A	1.014	S25	34.1	0.426	0.036	2.8816	

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Results for 100 year +20% CC Critical Storm Duration. Lowest mass balance: 97.31%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
480 minute winter	S25	376	56.513	1.400	34.1	3.5622	0.0000	SURCHARGED
240 minute winter	END OF PIPE	288	55.146	0.127	27.5	0.0000	0.0000	OK
15 minute winter	S21A	10	57.868	0.148	48.6	0.1672	0.0000	OK
15 minute winter	S20	11	57.628	0.467	337.1	0.6677	0.0000	OK
480 minute winter	S26	376	56.513	0.977	5.6	1.7266	0.0000	SURCHARGED
480 minute winter	S27	376	56.513	1.013	5.4	1.1458	0.0000	FLOOD RISK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
480 minute winter	S25	1.015	END OF PIPE	27.5	0.932	0.384	0.6629	1471.4
15 minute winter	S21A	3.001	S10	47.9	1.436	0.453	1.0331	
15 minute winter	S20	2.007	S11	338.5	1.591	1.009	2.2070	
480 minute winter	S26	5.000	S27	5.4	0.177	0.275	7.5186	
480 minute winter	S27	5.001	BASIN A	5.3	0.076	0.112	7.3265	

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Results for 100 year +40% CC Critical Storm Duration. Lowest mass balance: 97.56%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	S1	10	65.126	0.126	24.8	0.1425	0.0000	OK
15 minute winter	S2	11	64.999	0.192	49.2	0.2167	0.0000	OK
15 minute winter	S3	10	64.669	0.119	72.3	0.1696	0.0000	OK
15 minute winter	S4	11	64.201	0.201	97.0	0.2874	0.0000	OK
15 minute winter	S5	11	64.068	0.868	117.6	1.2422	0.0000	SURCHARGED
15 minute winter	S6	11	63.798	1.398	165.7	1.9999	0.0000	FLOOD RISK
15 minute winter	S7	11	62.394	0.436	218.2	0.6246	0.0000	OK
15 minute winter	S8	11	62.266	0.362	272.5	0.5185	0.0000	OK
15 minute winter	S9	10	61.830	0.200	327.0	0.2857	0.0000	OK
15 minute winter	S13	10	60.802	0.122	57.9	0.1746	0.0000	OK
15 minute winter	S 14	10	60.101	0.201	115.3	0.2873	0.0000	OK
15 minute winter	S 15	11	59.521	0.321	171.2	0.4593	0.0000	SURCHARGED
15 minute winter	S16	10	59.076	0.226	222.8	0.3237	0.0000	OK
15 minute winter	S17	11	58.319	0.319	280.1	0.4570	0.0000	OK
15 minute winter	S18	10	57.997	0.297	335.0	0.4250	0.0000	OK
15 minute winter	S19	11	57.967	0.653	394.7	0.9347	0.0000	SURCHARGED
15 minute winter	S21	10	58.110	0.168	57.3	0.2398	0.0000	OK
15 minute winter	S10	12	57.843	0.604	436.7	1.0668	0.0000	SURCHARGED
15 minute winter	S11	12	57.766	0.829	820.7	1.4654	0.0000	SURCHARGED
15 minute winter	S12	12	56.927	1.127	870.1	1.9915	0.0000	SURCHARGED
15 minute winter	S22	11	57.630	0.687	57.9	0.9826	0.0000	SURCHARGED
15 minute winter	S23	11	57.352	0.752	108.2	1.0759	0.0000	SURCHARGED
600 minute winter	S24	465	56.651	0.971	102.3	1.7156	0.0000	SURCHARGED
600 minute winter	HW 1.1	465	56.651	1.151	253.7	0.0000	0.0000	SURCHARGED
600 minute winter	BASIN A	465	56.651	1.346	120.3	1242.6450	0.0000	SURCHARGED

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 winter	S1	1.000	S2	24.4	0.823	0.614	0.9606	
15 minute winter	S2	1.001	S3	48.2	1.402	0.946	0.6502	
15 minute winter	S3	1.002	S4	72.3	2.495	0.287	0.4051	
15 minute winter	S4	1.003	S5	92.8	2.598	0.366	0.9363	
15 minute winter	S5	1.004	S6	114.2	1.622	0.507	1.3798	
15 minute winter	S6	1.005	S7	163.7	2.325	2.091	4.0825	
15 minute winter	S7	1.006	S8	217.9	1.471	1.073	1.9956	
15 minute winter	S8	1.007	S9	272.5	2.630	0.902	3.1938	
15 minute winter	S9	1.008	S10	326.9	4.434	0.412	7.8890	
15 minute winter	S13	2.000	S 14	57.4	1.487	0.353	1.4097	
15 minute winter	S 14	2.001	S 15	113.3	1.810	0.745	2.2588	
15 minute winter	S 15	2.002	S16	168.9	2.693	0.808	0.3442	
15 minute winter	S16	2.003	S17	224.7	2.238	0.490	4.2325	
15 minute winter	S17	2.004	S18	280.8	2.760	0.542	0.5958	
15 minute winter	S18	2.005	S19	340.8	1.683	0.359	4.1912	
15 minute winter	S19	2.006	S20	384.1	1.516	0.813	9.1018	
15 minute winter	S21	3.000	S21A	56.7	1.455	0.535	0.9719	
15 minute winter	S10	1.009	S11	411.0	2.245	0.281	1.8996	
15 minute winter	S11	1.010	S12	822.7	2.921	0.746	12.5127	
15 minute winter	S12	1.011	S24	870.7	3.091	1.852	7.2112	
15 minute winter	S22	4.000	S23	53.6	1.404	0.801	0.8252	
15 minute winter	S23	4.001	S24	107.2	2.695	1.121	0.8240	
600 minute winter	S24	1.012	HW 1.1	107.8	1.512	0.110	2.4875	
600 minute winter	HW 1.1	1.013	BASIN A	-162.8	1.396	-0.119	1.4084	
600 minute winter	BASIN A	1.014	S25	45.1	0.473	0.048	2.8816	

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