

Design Settings

Rainfall Methodology	FEH-22	Minimum Velocity (m/s)	1.00
Return Period (years)	2	Connection Type	Level Soffits
Additional Flow (%)	0	Minimum Backdrop Height (m)	0.200
CV	1.000	Preferred Cover Depth (m)	0.900
Time of Entry (mins)	5.00	Include Intermediate Ground	✓
Maximum Time of Concentration (mins)	30.00	Enforce best practice design rules	✓
Maximum Rainfall (mm/hr)	150.0		

Nodes

Name	Area (ha)	T of E (mins)	Cover Level (m)	Diameter (mm)	Easting (m)	Northing (m)	Depth (m)
PS14	0.028	5.00	49.950	600	509067.058	127407.283	1.125
PS13	0.028	5.00	49.950	600	509051.039	127414.730	1.229
PS12	0.016	5.00	49.950	600	509042.052	127418.908	1.288
PS11	0.016	5.00	49.950	600	509032.219	127423.478	1.427
PS10			49.950	600	509045.871	127452.862	1.560
PS9	0.007	5.00	50.287	450	509105.882	127488.674	1.050
PS8	0.007	5.00	49.950	600	509101.570	127479.393	1.125
PS7	0.055	5.00	49.950	600	509095.195	127465.672	1.215
PS6	0.007	5.00	49.973	450	509080.142	127500.897	1.050
PS5	0.007	5.00	49.950	450	509075.561	127491.038	1.135
PS4	0.016	5.00	49.950	600	509069.354	127477.678	1.458
PS3	0.016	5.00	49.844	600	509059.523	127482.245	1.587
Vortex			49.809	1200	509058.204	127482.858	1.950
RWT			49.809	1800	509058.954	127485.665	2.043
PS2			49.795	1200	509059.523	127487.795	2.039
HB		5.00	49.950	1200	509036.877	127400.409	2.194
15_OUT			48.587	450	509010.674	127382.491	1.132

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	PS14	PS13	17.665	0.600	48.825	48.721	0.104	169.9	225	5.29	53.1
1.001	PS13	PS12	9.911	0.600	48.721	48.662	0.059	168.0	225	5.46	52.7
1.002	PS12	PS11	10.843	0.600	48.662	48.598	0.064	169.4	225	5.64	52.1
1.003	PS11	PS10	32.401	0.600	48.523	48.390	0.133	243.6	300	6.18	50.5
1.004	PS10	PS3	32.400	0.600	48.390	48.257	0.133	243.6	300	6.72	48.7
2.000	PS9	PS8	10.234	0.600	49.237	48.900	0.337	30.4	150	5.09	53.7
2.001	PS8	PS7	15.130	0.600	48.825	48.735	0.090	168.1	225	5.34	53.0

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	1.000	39.8	5.4	0.900	1.004	0.028	0.0	56	0.703
1.001	1.006	40.0	10.7	1.004	1.063	0.056	0.0	80	0.856
1.002	1.001	39.8	13.6	1.063	1.127	0.072	0.0	90	0.906
1.003	1.003	70.9	16.1	1.127	1.260	0.088	0.0	97	0.816
1.004	1.003	70.9	15.5	1.260	1.287	0.088	0.0	95	0.808
2.000	1.833	32.4	1.4	0.900	0.900	0.007	0.0	21	0.903
2.001	1.005	40.0	2.7	0.900	0.990	0.014	0.0	39	0.573

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)
2.002	PS7	PS4	28.494	0.600	48.735	48.567	0.168	169.6	225	5.82	51.6
3.000	PS6	PS5	10.871	0.600	48.923	48.815	0.108	100.7	150	5.18	53.5
3.001	PS5	PS4	14.731	0.600	48.815	48.642	0.173	85.2	150	5.41	52.8
2.003	PS4	PS3	10.840	0.600	48.492	48.257	0.235	46.1	300	5.90	51.4
1.005	PS3	Vortex	1.454	0.600	48.257	48.251	0.006	242.4	300	6.74	48.7
1.006	Vortex	RWT	2.905	0.600	47.859	47.841	0.018	161.4	225	6.79	48.5
1.007	RWT	PS2	2.205	0.600	47.766	47.756	0.010	220.5	300	6.82	48.4
4.000	HB	15_OUT	31.744	0.600	47.756	47.455	0.301	105.5	150	5.54	52.4

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)
2.002	1.001	39.8	12.9	0.990	1.158	0.069	0.0	87	0.893
3.000	1.001	17.7	1.4	0.900	0.985	0.007	0.0	28	0.589
3.001	1.090	19.3	2.7	0.985	1.158	0.014	0.0	38	0.769
2.003	2.321	164.0	18.4	1.158	1.287	0.099	0.0	67	1.547
1.005	1.005	71.1	35.7	1.287	1.258	0.203	0.0	150	1.006
1.006	1.026	40.8	35.6	1.725	1.743	0.203	0.0	163	1.152
1.007	1.055	74.5	35.5	1.743	1.739	0.203	0.0	146	1.042
4.000	0.978	17.3	0.0	2.044	0.982	0.000	0.0	0	0.000

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	17.665	169.9	225	Circular	49.950	48.825	0.900	49.950	48.721	1.004
1.001	9.911	168.0	225	Circular	49.950	48.721	1.004	49.950	48.662	1.063
1.002	10.843	169.4	225	Circular	49.950	48.662	1.063	49.950	48.598	1.127
1.003	32.401	243.6	300	Circular	49.950	48.523	1.127	49.950	48.390	1.260
1.004	32.400	243.6	300	Circular	49.950	48.390	1.260	49.844	48.257	1.287
2.000	10.234	30.4	150	Circular	50.287	49.237	0.900	49.950	48.900	0.900
2.001	15.130	168.1	225	Circular	49.950	48.825	0.900	49.950	48.735	0.990
2.002	28.494	169.6	225	Circular	49.950	48.735	0.990	49.950	48.567	1.158
3.000	10.871	100.7	150	Circular	49.973	48.923	0.900	49.950	48.815	0.985
3.001	14.731	85.2	150	Circular	49.950	48.815	0.985	49.950	48.642	1.158
2.003	10.840	46.1	300	Circular	49.950	48.492	1.158	49.844	48.257	1.287
1.005	1.454	242.4	300	Circular	49.844	48.257	1.287	49.809	48.251	1.258

Link	US Node	Dia (mm)	Node Type	MH Type	DS Node	Dia (mm)	Node Type	MH Type
1.000	PS14	600	Manhole	Adoptable	PS13	600	Manhole	Adoptable
1.001	PS13	600	Manhole	Adoptable	PS12	600	Manhole	Adoptable
1.002	PS12	600	Manhole	Adoptable	PS11	600	Manhole	Adoptable
1.003	PS11	600	Manhole	Adoptable	PS10	600	Manhole	Adoptable
1.004	PS10	600	Manhole	Adoptable	PS3	600	Manhole	Adoptable
2.000	PS9	450	Manhole	Adoptable	PS8	600	Manhole	Adoptable
2.001	PS8	600	Manhole	Adoptable	PS7	600	Manhole	Adoptable
2.002	PS7	600	Manhole	Adoptable	PS4	600	Manhole	Adoptable
3.000	PS6	450	Manhole	Adoptable	PS5	450	Manhole	Adoptable
3.001	PS5	450	Manhole	Adoptable	PS4	600	Manhole	Adoptable
2.003	PS4	600	Manhole	Adoptable	PS3	600	Manhole	Adoptable
1.005	PS3	600	Manhole	Adoptable	Vortex	1200	Manhole	Private

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)
1.006	2.905	161.4	225	Circular	49.809	47.859	1.725	49.809	47.841	1.743
1.007	2.205	220.5	300	Circular	49.809	47.766	1.743	49.795	47.756	1.739
4.000	31.744	105.5	150	Circular	49.950	47.756	2.044	48.587	47.455	0.982

Link	US Node	Dia (mm)	Node Type	MH Type	DS Node	Dia (mm)	Node Type	MH Type
1.006	Vortex	1200	Manhole	Private	RWT	1800	Manhole	Private
1.007	RWT	1800	Manhole	Private	PS2	1200	Manhole	Private
4.000	HB	1200	Manhole	Adoptable	15_OUT	450	Manhole	Adoptable

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	0.850	Drain Down Time (mins)	2440	Check Discharge Volume	x
Winter CV	0.900	Additional Storage (m³/ha)	0.0		

Storm Durations

15	30	60	120	180	240	360
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Return Period (years)	Climate Change (CC %)	Additional Area (A %)	Additional Flow (Q %)
2	0	0	0
10	0	0	0
30	0	0	0
100	0	0	0
100	45	0	0

Node PS2 Offline Hydro-Brake® Control

Flap Valve	x	Objective	(HE) Minimise upstream storage
Loop to Node	HB	Sump Available	✓
Invert Level (m)	47.756	Product Number	CTL-SHE-0106-6100-1700-6100
Design Depth (m)	1.700	Min Outlet Diameter (m)	0.150
Design Flow (l/s)	6.1	Min Node Diameter (mm)	1200

Node PS2 Carpark Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Invert Level (m)	49.430	Slope (1:X)	9999.0
Side Inf Coefficient (m/hr)	0.00000	Time to half empty (mins)	0	Depth (m)	0.300
Safety Factor	2.0	Width (m)	41.500	Inf Depth (m)	
Porosity	0.30	Length (m)	41.500		

Node PS2 Depth/Area Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Safety Factor	2.0	Invert Level (m)	47.829
Side Inf Coefficient (m/hr)	0.00000	Porosity	0.30	Time to half empty (mins)	148

Depth (m)	Area (m²)	Inf Area (m²)	Depth (m)	Area (m²)	Inf Area (m²)	Depth (m)	Area (m²)	Inf Area (m²)
0.000	120.0	120.0	1.600	120.0	182.1	1.601	0.0	182.1

Results for 2 year Critical Storm Duration. Lowest mass balance: 99.83%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	PS14	10	48.874	0.049	4.3	0.0140	0.0000	OK
15 minute winter	PS13	10	48.796	0.075	8.5	0.0213	0.0000	OK
15 minute summer	PS12	11	48.747	0.085	10.9	0.0240	0.0000	OK
15 minute summer	PS11	11	48.613	0.090	13.3	0.0254	0.0000	OK
15 minute summer	PS10	11	48.476	0.086	13.4	0.0243	0.0000	OK
15 minute summer	PS9	10	49.256	0.019	1.1	0.0030	0.0000	OK
15 minute summer	PS8	10	48.860	0.035	2.2	0.0099	0.0000	OK
15 minute summer	PS7	11	48.815	0.080	10.6	0.0226	0.0000	OK
15 minute summer	PS6	10	48.948	0.025	1.1	0.0040	0.0000	OK
15 minute summer	PS5	11	48.849	0.034	2.2	0.0054	0.0000	OK
15 minute summer	PS4	11	48.553	0.061	14.9	0.0172	0.0000	OK
15 minute summer	PS3	11	48.411	0.154	30.3	0.0436	0.0000	OK
60 minute winter	Vortex	47	48.109	0.250	16.1	0.2824	0.0000	SURCHARGED
60 minute winter	RWT	48	48.108	0.342	15.8	0.8701	0.0000	SURCHARGED
60 minute winter	PS2	48	48.108	0.352	15.0	10.4498	0.0000	OK
60 minute winter	HB	48	47.816	0.060	5.6	0.0678	0.0000	OK
60 minute winter	15_OUT	48	47.514	0.059	5.6	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 winter	PS14	1.000	PS13	4.2	0.476	0.107	0.1590	
15 minute winter	PS13	1.001	PS12	8.4	0.668	0.210	0.1246	
15 minute summer	PS12	1.002	PS11	10.9	0.829	0.273	0.1423	
15 minute summer	PS11	1.003	PS10	13.4	0.789	0.189	0.5564	
15 minute summer	PS10	1.004	PS3	13.0	0.497	0.183	0.8590	
15 minute summer	PS9	2.000	PS8	1.1	0.836	0.033	0.0131	
15 minute summer	PS8	2.001	PS7	2.1	0.266	0.053	0.1248	
15 minute summer	PS7	2.002	PS4	10.4	0.838	0.261	0.3531	
15 minute summer	PS6	3.000	PS5	1.1	0.439	0.060	0.0267	
15 minute summer	PS5	3.001	PS4	2.1	0.709	0.109	0.0435	
15 minute summer	PS4	2.003	PS3	14.9	0.716	0.091	0.2524	
15 minute summer	PS3	1.005	Vortex	29.7	0.897	0.418	0.0482	
60 minute winter	Vortex	1.006	RWT	15.8	0.842	0.387	0.1155	
60 minute winter	RWT	1.007	PS2	15.0	0.374	0.201	0.1553	
60 minute winter	PS2	Hydro-Brake®	HB	5.6				23.5
60 minute winter	HB	4.000	15_OUT	5.6	0.869	0.326	0.2056	23.5



Results for 10 year Critical Storm Duration. Lowest mass balance: 99.83%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	PS14	10	48.895	0.070	8.5	0.0197	0.0000	OK
15 minute summer	PS13	10	48.835	0.114	16.9	0.0323	0.0000	OK
15 minute summer	PS12	11	48.788	0.126	21.4	0.0357	0.0000	OK
15 minute summer	PS11	11	48.653	0.130	25.9	0.0367	0.0000	OK
15 minute summer	PS10	11	48.514	0.124	26.1	0.0350	0.0000	OK
15 minute summer	PS9	10	49.263	0.026	2.1	0.0042	0.0000	OK
15 minute summer	PS8	10	48.873	0.048	4.2	0.0137	0.0000	OK
15 minute summer	PS7	11	48.853	0.118	20.7	0.0333	0.0000	OK
15 minute summer	PS6	10	48.958	0.035	2.1	0.0055	0.0000	OK
15 minute summer	PS5	10	48.863	0.048	4.2	0.0077	0.0000	OK
15 minute summer	PS4	11	48.577	0.085	29.0	0.0240	0.0000	OK
60 minute winter	PS3	56	48.511	0.254	31.6	0.0720	0.0000	OK
60 minute winter	Vortex	56	48.511	0.652	31.5	0.7376	0.0000	SURCHARGED
60 minute winter	RWT	57	48.510	0.744	30.8	1.8942	0.0000	SURCHARGED
60 minute winter	PS2	57	48.510	0.754	29.2	25.3893	0.0000	OK
360 minute summer	HB	224	47.817	0.061	5.8	0.0692	0.0000	OK
360 minute summer	15_OUT	224	47.515	0.060	5.8	0.0000	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	PS14	1.000	PS13	8.4	0.553	0.212	0.2705	
15 minute summer	PS13	1.001	PS12	16.6	0.774	0.416	0.2131	
15 minute summer	PS12	1.002	PS11	21.3	0.981	0.536	0.2358	
15 minute summer	PS11	1.003	PS10	26.1	0.934	0.369	0.9159	
15 minute summer	PS10	1.004	PS3	25.8	0.602	0.364	1.3745	
15 minute summer	PS9	2.000	PS8	2.1	1.014	0.064	0.0210	
15 minute summer	PS8	2.001	PS7	4.1	0.310	0.103	0.2062	
15 minute summer	PS7	2.002	PS4	20.3	0.995	0.511	0.5827	
15 minute summer	PS6	3.000	PS5	2.1	0.523	0.117	0.0434	
15 minute summer	PS5	3.001	PS4	4.1	0.853	0.212	0.0707	
15 minute summer	PS4	2.003	PS3	29.1	0.831	0.177	0.4002	
60 minute winter	PS3	1.005	Vortex	31.5	0.914	0.444	0.0935	
60 minute winter	Vortex	1.006	RWT	30.8	0.825	0.755	0.1155	
60 minute winter	RWT	1.007	PS2	29.2	0.453	0.392	0.1553	
60 minute winter	PS2	Hydro-Brake®	HB	5.8				46.5
360 minute summer	HB	4.000	15_OUT	5.8	0.878	0.338	0.2112	70.9

Results for 30 year Critical Storm Duration. Lowest mass balance: 99.83%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	PS14	10	48.905	0.080	11.0	0.0226	0.0000	OK
15 minute summer	PS13	10	48.858	0.136	21.9	0.0386	0.0000	OK
15 minute summer	PS12	11	48.813	0.151	27.8	0.0426	0.0000	OK
60 minute winter	PS11	60	48.759	0.236	18.2	0.0667	0.0000	OK
60 minute winter	PS10	61	48.759	0.369	18.2	0.1044	0.0000	SURCHARGED
15 minute summer	PS9	10	49.267	0.030	2.8	0.0048	0.0000	OK
15 minute summer	PS8	10	48.881	0.056	5.6	0.0158	0.0000	OK
15 minute summer	PS7	10	48.875	0.140	27.1	0.0395	0.0000	OK
15 minute summer	PS6	10	48.963	0.040	2.8	0.0064	0.0000	OK
15 minute summer	PS5	10	48.871	0.056	5.6	0.0090	0.0000	OK
60 minute winter	PS4	60	48.759	0.267	20.3	0.0755	0.0000	OK
60 minute winter	PS3	60	48.759	0.502	41.6	0.1420	0.0000	SURCHARGED
60 minute winter	Vortex	60	48.759	0.900	41.4	1.0176	0.0000	SURCHARGED
60 minute winter	RWT	61	48.758	0.992	40.4	2.5254	0.0000	SURCHARGED
60 minute winter	PS2	61	48.758	1.002	38.2	34.6028	0.0000	OK
180 minute summer	HB	216	47.817	0.061	5.8	0.0692	0.0000	OK
180 minute summer	15_OUT	216	47.515	0.060	5.8	0.0000	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	PS14	1.000	PS13	10.9	0.579	0.274	0.3338	
15 minute summer	PS13	1.001	PS12	21.5	0.807	0.538	0.2645	
15 minute summer	PS12	1.002	PS11	27.7	1.036	0.695	0.2896	
60 minute winter	PS11	1.003	PS10	18.2	0.838	0.256	2.1035	
60 minute winter	PS10	1.004	PS3	18.1	0.541	0.256	2.2816	
15 minute summer	PS9	2.000	PS8	2.8	1.100	0.085	0.0257	
15 minute summer	PS8	2.001	PS7	5.5	0.331	0.137	0.2536	
15 minute summer	PS7	2.002	PS4	26.5	1.056	0.666	0.7150	
15 minute summer	PS6	3.000	PS5	2.8	0.565	0.156	0.0534	
15 minute summer	PS5	3.001	PS4	5.4	0.918	0.280	0.0868	
60 minute winter	PS4	2.003	PS3	20.3	0.711	0.124	0.7406	
60 minute winter	PS3	1.005	Vortex	41.4	0.997	0.583	0.1024	
60 minute winter	Vortex	1.006	RWT	40.4	1.017	0.991	0.1155	
60 minute winter	RWT	1.007	PS2	38.2	0.543	0.512	0.1553	
60 minute winter	PS2	Hydro-Brake®	HB	5.8				61.6
180 minute summer	HB	4.000	15_OUT	5.8	0.878	0.338	0.2112	75.7

Results for 100 year Critical Storm Duration. Lowest mass balance: 99.83%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute winter	PS14	60	49.040	0.215	7.5	0.0610	0.0000	OK
60 minute winter	PS13	60	49.040	0.319	15.0	0.0904	0.0000	SURCHARGED
60 minute winter	PS12	60	49.041	0.379	19.3	0.1071	0.0000	SURCHARGED
60 minute winter	PS11	60	49.041	0.518	23.6	0.1465	0.0000	SURCHARGED
60 minute winter	PS10	60	49.041	0.651	23.7	0.1842	0.0000	SURCHARGED
15 minute winter	PS9	10	49.271	0.034	3.5	0.0054	0.0000	OK
60 minute winter	PS8	60	49.041	0.216	3.8	0.0611	0.0000	OK
60 minute winter	PS7	60	49.041	0.306	18.5	0.0866	0.0000	SURCHARGED
60 minute winter	PS6	60	49.041	0.118	1.9	0.0188	0.0000	OK
60 minute winter	PS5	60	49.041	0.226	3.8	0.0359	0.0000	SURCHARGED
60 minute winter	PS4	60	49.041	0.549	26.5	0.1554	0.0000	SURCHARGED
60 minute winter	PS3	60	49.041	0.784	51.4	0.2220	0.0000	SURCHARGED
60 minute winter	Vortex	60	49.041	1.182	48.0	1.3371	0.0000	SURCHARGED
60 minute winter	RWT	60	49.040	1.274	46.6	3.2435	0.0000	SURCHARGED
60 minute winter	PS2	60	49.040	1.284	44.0	45.0771	0.0000	OK
360 minute winter	HB	376	47.817	0.061	5.8	0.0692	0.0000	OK
360 minute winter	15_OUT	376	47.515	0.060	5.8	0.0000	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
60 minute winter	PS14	1.000	PS13	7.5	0.538	0.189	0.6971	
60 minute winter	PS13	1.001	PS12	15.0	0.756	0.375	0.3942	
60 minute winter	PS12	1.002	PS11	19.3	0.956	0.484	0.4312	
60 minute winter	PS11	1.003	PS10	23.7	0.889	0.334	2.2817	
60 minute winter	PS10	1.004	PS3	21.8	0.558	0.308	2.2816	
15 minute winter	PS9	2.000	PS8	3.5	1.172	0.107	0.0302	
60 minute winter	PS8	2.001	PS7	3.8	0.308	0.095	0.5974	
60 minute winter	PS7	2.002	PS4	18.5	0.970	0.464	1.1332	
60 minute winter	PS6	3.000	PS5	1.9	0.509	0.107	0.1765	
60 minute winter	PS5	3.001	PS4	3.8	0.835	0.197	0.2593	
60 minute winter	PS4	2.003	PS3	26.5	0.757	0.162	0.7633	
60 minute winter	PS3	1.005	Vortex	48.0	1.047	0.675	0.1024	
60 minute winter	Vortex	1.006	RWT	46.6	1.173	1.143	0.1155	
60 minute winter	RWT	1.007	PS2	44.0	0.624	0.590	0.1553	
60 minute winter	PS2	Hydro-Brake®	HB	5.8				79.6
360 minute winter	HB	4.000	15_OUT	5.8	0.878	0.338	0.2112	116.1

Results for 100 year +45% CC Critical Storm Duration. Lowest mass balance: 99.83%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute winter	PS14	44	49.503	0.678	10.8	0.1919	0.0000	SURCHARGED
60 minute winter	PS13	44	49.502	0.781	21.4	0.2211	0.0000	SURCHARGED
60 minute winter	PS12	44	49.498	0.836	26.8	0.2367	0.0000	SURCHARGED
60 minute winter	PS11	44	49.491	0.968	31.5	0.2739	0.0000	SURCHARGED
60 minute winter	PS10	44	49.484	1.094	29.3	0.3097	0.0000	SURCHARGED
60 minute winter	PS9	44	49.497	0.260	2.7	0.0414	0.0000	SURCHARGED
60 minute winter	PS8	44	49.497	0.672	5.4	0.1901	0.0000	SURCHARGED
60 minute winter	PS7	44	49.496	0.761	26.3	0.2155	0.0000	SURCHARGED
60 minute winter	PS6	44	49.485	0.562	3.3	0.0893	0.0000	SURCHARGED
60 minute winter	PS5	44	49.484	0.669	5.4	0.1063	0.0000	SURCHARGED
60 minute winter	PS4	44	49.481	0.989	38.5	0.2799	0.0000	SURCHARGED
60 minute winter	PS3	44	49.478	1.221	60.7	0.3455	0.0000	SURCHARGED
60 minute winter	Vortex	44	49.471	1.612	59.1	1.8233	0.0000	SURCHARGED
120 minute winter	RWT	116	49.460	1.694	35.0	4.3105	0.0000	SURCHARGED
120 minute winter	PS2	116	49.459	1.703	33.1	73.2511	0.0000	OK
120 minute winter	HB	118	47.818	0.062	6.0	0.0703	0.0000	OK
120 minute winter	15_OUT	118	47.516	0.061	6.0	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)
60 minute winter	PS14	1.000	PS13	10.6	0.573	0.266	0.7026	
60 minute winter	PS13	1.001	PS12	20.7	0.797	0.518	0.3942	
60 minute winter	PS12	1.002	PS11	25.5	1.015	0.640	0.4312	
60 minute winter	PS11	1.003	PS10	29.3	0.915	0.413	2.2817	
60 minute winter	PS10	1.004	PS3	25.8	0.564	0.364	2.2816	
60 minute winter	PS9	2.000	PS8	2.7	1.095	0.084	0.1802	
60 minute winter	PS8	2.001	PS7	5.3	0.335	0.133	0.6017	
60 minute winter	PS7	2.002	PS4	27.1	1.033	0.681	1.1332	
60 minute winter	PS6	3.000	PS5	2.7	0.573	0.153	0.1914	
60 minute winter	PS5	3.001	PS4	5.4	0.898	0.280	0.2593	
60 minute winter	PS4	2.003	PS3	31.9	0.775	0.195	0.7633	
60 minute winter	PS3	1.005	Vortex	59.1	1.061	0.832	0.1024	
60 minute winter	Vortex	1.006	RWT	57.3	1.441	1.404	0.1155	
120 minute winter	RWT	1.007	PS2	33.1	0.470	0.444	0.1553	
120 minute winter	PS2	Hydro-Brake®	HB	6.0				133.9
120 minute winter	HB	4.000	15_OUT	6.0	0.884	0.348	0.2157	133.9