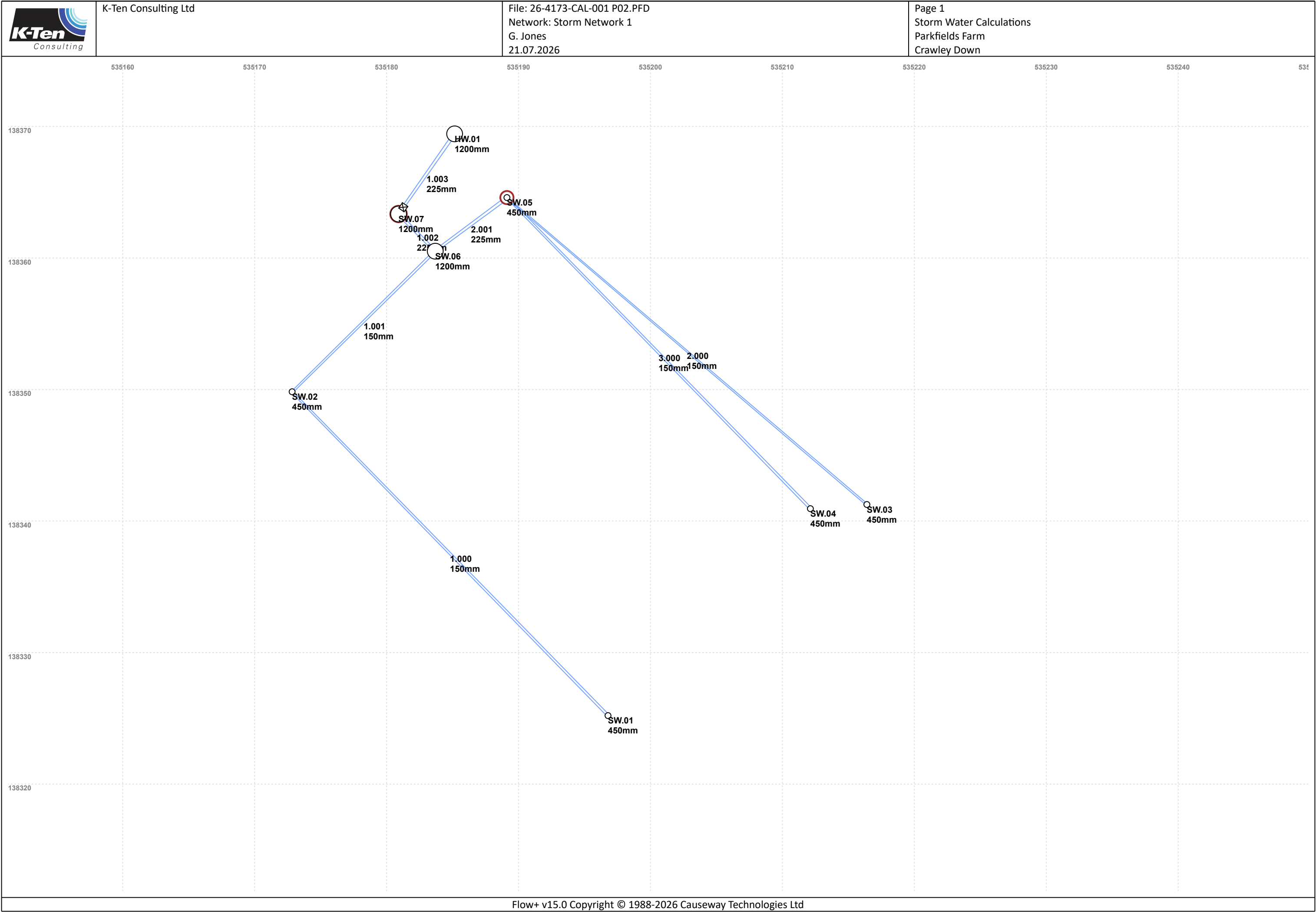




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Design Settings

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)	1.200
Time of Entry (mins)	4.00	Include Intermediate Ground	✓
Maximum Time of Concentration (mins)	30.00	Enforce best practice design rules	✓
Maximum Rainfall (mm/hr)	100.0		

Nodes

Name	Area (ha)	T of E (mins)	Cover Level (m)	Diameter (mm)	Easting (m)	Northing (m)	Depth (m)
✓ SW.01	0.009	4.00	118.200	450	535196.785	138325.209	0.600
✓ SW.02	0.025	4.00	118.200	450	535172.842	138349.830	0.830
✓ SW.03	0.011	4.00	118.020	450	535216.406	138341.258	0.525
✓ SW.04	0.009	4.00	118.200	450	535212.125	138340.940	0.745
✓ SW.05	0.034	4.00	118.100	450	535189.123	138364.594	0.865
✓ SW.06			118.100	1200	535183.691	138360.517	1.065
✓ SW.07			118.100	1200	535180.909	138363.345	1.350
✓ HW.01			117.450	1200	535185.159	138369.439	0.750

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	SW.01	SW.02	34.343	0.600	117.600	117.370	0.230	149.3	150	4.70	55.7
1.001	SW.02	SW.06	15.229	0.600	117.370	117.110	0.260	58.6	150	4.89	55.7
2.000	SW.03	SW.05	35.902	0.600	117.495	117.310	0.185	194.1	150	4.83	55.7
3.000	SW.04	SW.05	32.994	0.600	117.455	117.310	0.145	227.5	150	4.83	55.7
2.001	SW.05	SW.06	6.792	0.600	117.235	117.035	0.200	34.0	225	4.88	55.7
1.002	SW.06	SW.07	3.967	0.600	117.035	116.750	0.285	13.9	225	4.91	55.7
1.003	SW.07	HW.01	7.430	0.600	116.750	116.700	0.050	148.6	225	5.03	55.6

Name	Vel (m/s)	Cap (l/s)	Flow (l/s)	US Depth (m)	DS Depth (m)	Σ Area (ha)	Σ Add Inflow (l/s)	Pro Depth (mm)	Pro Velocity (m/s)
1.000	0.820	14.5	1.8	0.450	0.680	0.009	0.0	36	0.562
1.001	1.316	23.3	6.8	0.680	0.840	0.034	0.0	55	1.143
2.000	0.718	12.7	2.2	0.375	0.640	0.011	0.0	42	0.540
3.000	0.662	11.7	1.8	0.595	0.640	0.009	0.0	40	0.482
2.001	2.252	89.6	10.9	0.640	0.840	0.054	0.0	52	1.529
1.002	3.525	140.2	17.7	0.840	1.125	0.088	0.0	54	2.441
1.003	1.070	42.5	17.7	1.125	0.525	0.088	0.0	101	1.020

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	34.343	149.3	150	Circular_Default Sewer Type	118.200	117.600	0.450	118.200	117.370	0.680
1.001	15.229	58.6	150	Circular_Default Sewer Type	118.200	117.370	0.680	118.100	117.110	0.840
2.000	35.902	194.1	150	Circular_Default Sewer Type	118.020	117.495	0.375	118.100	117.310	0.640
3.000	32.994	227.5	150	Circular_Default Sewer Type	118.200	117.455	0.595	118.100	117.310	0.640
2.001	6.792	34.0	225	Circular_Default Sewer Type	118.100	117.235	0.640	118.100	117.035	0.840
1.002	3.967	13.9	225	Circular_Default Sewer Type	118.100	117.035	0.840	118.100	116.750	1.125
1.003	7.430	148.6	225	Circular_Default Sewer Type	118.100	116.750	1.125	117.450	116.700	0.525

Link	US Node	Dia (mm)	Node Type	MH Type	DS Node	Dia (mm)	Node Type	MH Type
1.000	SW.01	450	Manhole	Adoptable	SW.02	450	Manhole	Adoptable
1.001	SW.02	450	Manhole	Adoptable	SW.06	1200	Manhole	Adoptable
2.000	SW.03	450	Manhole	Adoptable	SW.05	450	Manhole	Adoptable
3.000	SW.04	450	Manhole	Adoptable	SW.05	450	Manhole	Adoptable
2.001	SW.05	450	Manhole	Adoptable	SW.06	1200	Manhole	Adoptable
1.002	SW.06	1200	Manhole	Adoptable	SW.07	1200	Manhole	Adoptable
1.003	SW.07	1200	Manhole	Adoptable	HW.01	1200	Manhole	Adoptable

Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)
SW.01	535196.785	138325.209	118.200	0.600	450				
						0	1.000	117.600	150
SW.02	535172.842	138349.830	118.200	0.830	450		1	1.000	117.370
						0	1.001	117.370	150
SW.03	535216.406	138341.258	118.020	0.525	450				
						0	2.000	117.495	150
SW.04	535212.125	138340.940	118.200	0.745	450				
						0	3.000	117.455	150
SW.05	535189.123	138364.594	118.100	0.865	450		1	3.000	117.310
						2	2.000	117.310	150
						0	2.001	117.235	225
SW.06	535183.691	138360.517	118.100	1.065	1200		1	2.001	117.035
						2	1.001	117.110	150
						0	1.002	117.035	225
SW.07	535180.909	138363.345	118.100	1.350	1200		1	1.002	116.750
						0	1.003	116.750	225

Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)
HW.01	535185.159	138369.439	117.450	0.750	1200	1	1.003	116.700	225



Simulation Settings

Rainfall Methodology	FEH-22	Skip Steady State	✓	2 year (l/s)	0.4
Rainfall Events	Singular	Drain Down Time (mins)	2160	30 year (l/s)	0.8
Summer CV	1.000	Additional Storage (m³/ha)	20.0	100 year (l/s)	1.0
Winter CV	1.000	Starting Level (m)		Check Discharge Volume	✓
Analysis Speed	Normal	Check Discharge Rate(s)	✓	100 year 360 minute (m³)	

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
10	0	0	0
30	0	0	0
100	0	0	0
100	45	0	0

Pre-development Discharge Rate

Site Makeup	Greenfield	Growth Factor 30 year	1.95
Greenfield Method	FEH	Growth Factor 100 year	2.48
Positively Drained Area (ha)	0.088	Betterment (%)	0
SAAR (mm)	813	QMed	0.4
Host	1	QBar	0.4
BFIHost	0.500	Q 2 year (l/s)	0.4
Region	1	Q 30 year (l/s)	0.8
QBar/QMed conversion factor	1.111	Q 100 year (l/s)	1.0
Growth Factor 2 year	0.90		

Pre-development Discharge Volume

Site Makeup	Greenfield	Return Period (years)	100
Greenfield Method	FSR/FEH	Climate Change (%)	0
Positively Drained Area (ha)	0.088	Storm Duration (mins)	360
Soil Index	1	Betterment (%)	0
SPR	0.10	PR	
CWI		Runoff Volume (m³)	

Node SW.07 Online Orifice Control

Flap Valve	x	Design Depth (m)	1.100	Discharge Coefficient	0.600
Replaces Downstream Link	x	Design Flow (l/s)	2.0		
Invert Level (m)	116.750	Diameter (m)	0.030		

Node SW.05 Carpark Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Invert Level (m)	117.235	Slope (1:X)	150.0
Side Inf Coefficient (m/hr)	0.00000	Time to half empty (mins)	160	Depth (m)	0.275
Safety Factor	3.0	Width (m)	35.000	Inf Depth (m)	
Porosity	0.30	Length (m)	5.700		

Node SW.07 Depth/Area Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Safety Factor	3.0	Invert Level (m)	116.750
Side Inf Coefficient (m/hr)	0.00000	Porosity	0.95	Time to half empty (mins)	444

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	42.0	35.0	1.000	42.0	58.0	1.001	0.0	58.0

Rainfall

Event	Peak Intensity (mm/hr)	Average Intensity (mm/hr)
2 year 15 minute summer	113.056	31.991
2 year 15 minute winter	79.337	31.991
2 year 30 minute summer	73.923	20.918
2 year 30 minute winter	51.876	20.918
2 year 60 minute summer	50.096	13.239
2 year 60 minute winter	33.283	13.239
2 year 120 minute summer	34.924	9.229
2 year 120 minute winter	23.203	9.229
2 year 180 minute summer	28.258	7.272
2 year 180 minute winter	18.369	7.272
2 year 240 minute summer	22.982	6.073
2 year 240 minute winter	15.268	6.073
2 year 360 minute summer	18.027	4.639
2 year 360 minute winter	11.718	4.639
2 year 480 minute summer	14.360	3.795
2 year 480 minute winter	9.540	3.795
2 year 600 minute summer	11.831	3.236
2 year 600 minute winter	8.083	3.236
2 year 720 minute summer	10.581	2.836
2 year 720 minute winter	7.111	2.836
2 year 960 minute summer	8.730	2.299
2 year 960 minute winter	5.783	2.299
2 year 1440 minute summer	6.366	1.706
2 year 1440 minute winter	4.278	1.706
2 year 2160 minute summer	4.616	1.276
2 year 2160 minute winter	3.181	1.276
2 year 2880 minute summer	3.906	1.047
2 year 2880 minute winter	2.625	1.047
2 year 4320 minute summer	3.086	0.807
2 year 4320 minute winter	2.032	0.807
2 year 5760 minute summer	2.656	0.680
2 year 5760 minute winter	1.719	0.680
2 year 7200 minute summer	2.356	0.601
2 year 7200 minute winter	1.521	0.601
2 year 8640 minute summer	2.144	0.547
2 year 8640 minute winter	1.384	0.547

Rainfall

Event	Peak Intensity (mm/hr)	Average Intensity (mm/hr)
2 year 10080 minute summer	1.989	0.507
2 year 10080 minute winter	1.284	0.507
10 year 15 minute summer	223.349	63.200
10 year 15 minute winter	156.736	63.200
10 year 30 minute summer	147.014	41.600
10 year 30 minute winter	103.168	41.600
10 year 60 minute summer	99.898	26.400
10 year 60 minute winter	66.370	26.400
10 year 120 minute summer	62.460	16.506
10 year 120 minute winter	41.497	16.506
10 year 180 minute summer	48.217	12.408
10 year 180 minute winter	31.342	12.408
10 year 240 minute summer	38.155	10.083
10 year 240 minute winter	25.349	10.083
10 year 360 minute summer	29.023	7.469
10 year 360 minute winter	18.866	7.469
10 year 480 minute summer	22.734	6.008
10 year 480 minute winter	15.104	6.008
10 year 600 minute summer	18.519	5.065
10 year 600 minute winter	12.653	5.065
10 year 720 minute summer	16.425	4.402
10 year 720 minute winter	11.039	4.402
10 year 960 minute summer	13.382	3.524
10 year 960 minute winter	8.864	3.524
10 year 1440 minute summer	9.614	2.577
10 year 1440 minute winter	6.461	2.577
10 year 2160 minute summer	6.858	1.895
10 year 2160 minute winter	4.725	1.895
10 year 2880 minute summer	5.720	1.533
10 year 2880 minute winter	3.844	1.533
10 year 4320 minute summer	4.398	1.150
10 year 4320 minute winter	2.896	1.150
10 year 5760 minute summer	3.699	0.947
10 year 5760 minute winter	2.394	0.947
10 year 7200 minute summer	3.220	0.821
10 year 7200 minute winter	2.078	0.821
10 year 8640 minute summer	2.883	0.735
10 year 8640 minute winter	1.861	0.735
10 year 10080 minute summer	2.637	0.673
10 year 10080 minute winter	1.702	0.673
30 year 15 minute summer	293.575	83.072
30 year 15 minute winter	206.018	83.072
30 year 30 minute summer	195.284	55.259
30 year 30 minute winter	137.042	55.259
30 year 60 minute summer	133.071	35.167
30 year 60 minute winter	88.409	35.167
30 year 120 minute summer	80.412	21.251
30 year 120 minute winter	53.424	21.251
30 year 180 minute summer	61.196	15.748
30 year 180 minute winter	39.779	15.748
30 year 240 minute summer	48.047	12.697
30 year 240 minute winter	31.921	12.697

Rainfall

Event	Peak Intensity (mm/hr)	Average Intensity (mm/hr)
30 year 360 minute summer	36.257	9.330
30 year 360 minute winter	23.568	9.330
30 year 480 minute summer	28.305	7.480
30 year 480 minute winter	18.805	7.480
30 year 600 minute summer	23.029	6.299
30 year 600 minute winter	15.735	6.299
30 year 720 minute summer	20.424	5.474
30 year 720 minute winter	13.726	5.474
30 year 960 minute summer	16.675	4.391
30 year 960 minute winter	11.046	4.391
30 year 1440 minute summer	12.032	3.225
30 year 1440 minute winter	8.086	3.225
30 year 2160 minute summer	8.582	2.372
30 year 2160 minute winter	5.913	2.372
30 year 2880 minute summer	7.133	1.912
30 year 2880 minute winter	4.794	1.912
30 year 4320 minute summer	5.422	1.418
30 year 4320 minute winter	3.571	1.418
30 year 5760 minute summer	4.506	1.154
30 year 5760 minute winter	2.917	1.154
30 year 7200 minute summer	3.877	0.989
30 year 7200 minute winter	2.502	0.989
30 year 8640 minute summer	3.433	0.876
30 year 8640 minute winter	2.215	0.876
30 year 10080 minute summer	3.108	0.793
30 year 10080 minute winter	2.006	0.793
100 year 15 minute summer	372.015	105.267
100 year 15 minute winter	261.063	105.267
100 year 30 minute summer	249.447	70.585
100 year 30 minute winter	175.051	70.585
100 year 60 minute summer	171.164	45.234
100 year 60 minute winter	113.717	45.234
100 year 120 minute summer	101.282	26.766
100 year 120 minute winter	67.289	26.766
100 year 180 minute summer	76.473	19.679
100 year 180 minute winter	49.709	19.679
100 year 240 minute summer	59.852	15.817
100 year 240 minute winter	39.764	15.817
100 year 360 minute summer	45.156	11.620
100 year 360 minute winter	29.352	11.620
100 year 480 minute summer	35.415	9.359
100 year 480 minute winter	23.529	9.359
100 year 600 minute summer	28.975	7.925
100 year 600 minute winter	19.798	7.925
100 year 720 minute summer	25.843	6.926
100 year 720 minute winter	17.368	6.926
100 year 960 minute summer	21.315	5.613
100 year 960 minute winter	14.119	5.613
100 year 1440 minute summer	15.603	4.182
100 year 1440 minute winter	10.486	4.182
100 year 2160 minute summer	11.223	3.102
100 year 2160 minute winter	7.733	3.102

Rainfall

Event	Peak Intensity (mm/hr)	Average Intensity (mm/hr)
100 year 2880 minute summer	9.329	2.500
100 year 2880 minute winter	6.270	2.500
100 year 4320 minute summer	7.010	1.833
100 year 4320 minute winter	4.617	1.833
100 year 5760 minute summer	5.746	1.471
100 year 5760 minute winter	3.719	1.471
100 year 7200 minute summer	4.871	1.243
100 year 7200 minute winter	3.144	1.243
100 year 8640 minute summer	4.253	1.085
100 year 8640 minute winter	2.745	1.085
100 year 10080 minute summer	3.800	0.969
100 year 10080 minute winter	2.453	0.969
100 year +45% CC 15 minute summer	539.421	152.638
100 year +45% CC 15 minute winter	378.541	152.638
100 year +45% CC 30 minute summer	361.699	102.348
100 year +45% CC 30 minute winter	253.824	102.348
100 year +45% CC 60 minute summer	248.188	65.589
100 year +45% CC 60 minute winter	164.890	65.589
100 year +45% CC 120 minute summer	146.859	38.810
100 year +45% CC 120 minute winter	97.569	38.810
100 year +45% CC 180 minute summer	110.885	28.535
100 year +45% CC 180 minute winter	72.078	28.535
100 year +45% CC 240 minute summer	86.785	22.935
100 year +45% CC 240 minute winter	57.658	22.935
100 year +45% CC 360 minute summer	65.476	16.849
100 year +45% CC 360 minute winter	42.561	16.849
100 year +45% CC 480 minute summer	51.352	13.571
100 year +45% CC 480 minute winter	34.117	13.571
100 year +45% CC 600 minute summer	42.014	11.492
100 year +45% CC 600 minute winter	28.707	11.492
100 year +45% CC 720 minute summer	37.472	10.043
100 year +45% CC 720 minute winter	25.183	10.043
100 year +45% CC 960 minute summer	30.907	8.138
100 year +45% CC 960 minute winter	20.473	8.138
100 year +45% CC 1440 minute summer	22.625	6.064
100 year +45% CC 1440 minute winter	15.205	6.064
100 year +45% CC 2160 minute summer	16.273	4.497
100 year +45% CC 2160 minute winter	11.213	4.497
100 year +45% CC 2880 minute summer	13.527	3.625
100 year +45% CC 2880 minute winter	9.091	3.625
100 year +45% CC 4320 minute summer	10.165	2.658
100 year +45% CC 4320 minute winter	6.694	2.658
100 year +45% CC 5760 minute summer	8.332	2.133
100 year +45% CC 5760 minute winter	5.393	2.133
100 year +45% CC 7200 minute summer	7.063	1.802
100 year +45% CC 7200 minute winter	4.559	1.802
100 year +45% CC 8640 minute summer	6.167	1.573
100 year +45% CC 8640 minute winter	3.981	1.573
100 year +45% CC 10080 minute summer	5.511	1.406
100 year +45% CC 10080 minute winter	3.557	1.406

Results for 2 year Critical Storm Duration. Lowest mass balance: 95.84%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	SW.01	10	117.635	0.035	1.8	0.0163	0.0000	OK
15 minute summer	SW.02	10	117.428	0.058	6.9	0.0440	0.0000	OK
15 minute summer	SW.03	10	117.537	0.042	2.3	0.0244	0.0000	OK
15 minute summer	SW.04	10	117.494	0.039	1.8	0.0157	0.0000	OK
15 minute summer	SW.05	12	117.280	0.045	10.8	1.5810	0.0000	OK
360 minute summer	SW.06	264	117.086	0.051	4.3	0.0580	0.0000	OK
360 minute summer	SW.07	240	117.088	0.338	4.3	13.8839	0.0000	SURCHARGED
360 minute summer	HW.01	240	116.724	0.024	1.1	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	SW.01	1.000	SW.02	1.8	0.383	0.123	0.1617	
15 minute summer	SW.02	1.001	SW.06	6.8	1.119	0.292	0.0927	
15 minute summer	SW.03	2.000	SW.05	2.1	0.537	0.169	0.1442	
15 minute summer	SW.04	3.000	SW.05	1.7	0.484	0.143	0.1148	
15 minute summer	SW.05	2.001	SW.06	7.0	1.285	0.078	0.0401	
360 minute summer	SW.06	1.002	SW.07	4.3	1.035	0.031	0.0923	
360 minute summer	SW.07	1.003	HW.01	1.1	0.448	0.025	0.0174	24.7

Results for 10 year Critical Storm Duration. Lowest mass balance: 98.57%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	SW.01	10	117.651	0.051	3.6	0.0232	0.0000	OK
15 minute summer	SW.02	10	117.458	0.088	13.7	0.0666	0.0000	OK
15 minute summer	SW.03	10	117.556	0.061	4.5	0.0355	0.0000	OK
15 minute summer	SW.04	10	117.512	0.057	3.6	0.0229	0.0000	OK
15 minute summer	SW.05	12	117.303	0.068	21.6	2.9693	0.0000	OK
240 minute summer	SW.06	184	117.280	0.245	9.2	0.2770	0.0000	SURCHARGED
240 minute summer	SW.07	184	117.280	0.530	18.6	21.7478	0.0000	SURCHARGED
240 minute summer	HW.01	184	116.727	0.027	1.3	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	SW.01	1.000	SW.02	3.6	0.453	0.247	0.2729	
15 minute summer	SW.02	1.001	SW.06	13.6	1.323	0.584	0.1565	
15 minute summer	SW.03	2.000	SW.05	4.3	0.649	0.341	0.2390	
15 minute summer	SW.04	3.000	SW.05	3.5	0.589	0.296	0.1939	
15 minute summer	SW.05	2.001	SW.06	15.1	1.566	0.169	0.0724	
240 minute summer	SW.06	1.002	SW.07	18.6	1.326	0.133	0.1578	
240 minute summer	SW.07	1.003	HW.01	1.3	0.480	0.031	0.0206	35.1

Results for 30 year Critical Storm Duration. Lowest mass balance: 98.96%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	SW.01	10	117.659	0.059	4.8	0.0271	0.0000	OK
15 minute summer	SW.02	10	117.477	0.107	18.1	0.0813	0.0000	OK
15 minute summer	SW.03	10	117.567	0.072	5.9	0.0417	0.0000	OK
15 minute summer	SW.04	10	117.523	0.068	4.8	0.0271	0.0000	OK
180 minute winter	SW.05	172	117.353	0.117	6.0	6.0072	0.0000	OK
180 minute winter	SW.06	172	117.353	0.317	9.8	0.3591	0.0000	SURCHARGED
180 minute winter	SW.07	172	117.352	0.602	22.6	24.7182	0.0000	SURCHARGED
180 minute winter	HW.01	172	116.728	0.028	1.4	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	SW.01	1.000	SW.02	4.8	0.479	0.330	0.3409	
15 minute summer	SW.02	1.001	SW.06	18.0	1.397	0.772	0.1957	
15 minute summer	SW.03	2.000	SW.05	5.7	0.701	0.449	0.2918	
15 minute summer	SW.04	3.000	SW.05	4.6	0.639	0.397	0.2400	
180 minute winter	SW.05	2.001	SW.06	6.0	1.154	0.067	0.2062	
180 minute winter	SW.06	1.002	SW.07	22.6	1.467	0.161	0.1578	
180 minute winter	SW.07	1.003	HW.01	1.4	0.490	0.033	0.0216	41.5

Results for 100 year Critical Storm Duration. Lowest mass balance: 98.55%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	SW.01	10	117.668	0.068	6.1	0.0310	0.0000	OK
15 minute summer	SW.02	10	117.505	0.135	23.0	0.1028	0.0000	OK
15 minute summer	SW.03	10	117.578	0.083	7.4	0.0480	0.0000	OK
15 minute summer	SW.04	10	117.533	0.078	6.1	0.0313	0.0000	OK
240 minute winter	SW.05	228	117.440	0.205	7.7	11.3062	0.0000	OK
240 minute winter	SW.06	228	117.440	0.405	10.0	0.4576	0.0000	SURCHARGED
240 minute winter	SW.07	228	117.440	0.690	9.4	28.2919	0.0000	SURCHARGED
240 minute winter	HW.01	228	116.729	0.029	1.5	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	SW.01	1.000	SW.02	6.1	0.494	0.420	0.4189	
15 minute summer	SW.02	1.001	SW.06	22.5	1.436	0.967	0.2541	
15 minute summer	SW.03	2.000	SW.05	7.2	0.747	0.567	0.3453	
15 minute summer	SW.04	3.000	SW.05	5.9	0.683	0.507	0.2864	
240 minute winter	SW.05	2.001	SW.06	5.8	1.093	0.065	0.2639	
240 minute winter	SW.06	1.002	SW.07	9.4	1.406	0.067	0.1578	
240 minute winter	SW.07	1.003	HW.01	1.5	0.500	0.036	0.0227	55.8

Results for 100 year +45% CC Critical Storm Duration. Lowest mass balance: 98.22%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
240 minute winter	SW.01	228	117.967	0.367	1.4	0.1684	0.0000	FLOOD RISK
240 minute winter	SW.02	228	117.967	0.597	5.4	0.4539	0.0000	FLOOD RISK
240 minute winter	SW.03	228	117.967	0.472	1.8	0.2726	0.0000	FLOOD RISK
240 minute winter	SW.04	228	117.967	0.512	1.4	0.2051	0.0000	FLOOD RISK
240 minute winter	SW.05	228	117.966	0.731	10.0	16.0446	0.0000	FLOOD RISK
240 minute winter	SW.06	228	117.965	0.930	15.9	1.0521	0.0000	FLOOD RISK
240 minute winter	SW.07	228	117.967	1.216	12.1	41.2958	0.0000	FLOOD RISK
240 minute winter	HW.01	228	116.733	0.033	2.0	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)
240 minute winter	SW.01	1.000	SW.02	1.4	0.370	0.097	0.6046	
240 minute winter	SW.02	1.001	SW.06	5.4	0.948	0.232	0.2681	
240 minute winter	SW.03	2.000	SW.05	1.8	0.501	0.142	0.6320	
240 minute winter	SW.04	3.000	SW.05	1.4	0.456	0.120	0.5809	
240 minute winter	SW.05	2.001	SW.06	6.6	1.104	0.074	0.2701	
240 minute winter	SW.06	1.002	SW.07	12.1	1.522	0.086	0.1578	
240 minute winter	SW.07	1.003	HW.01	2.0	0.544	0.048	0.0279	80.7