

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)	0.350
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)	75.0		

Nodes

Name	Area (ha)	T of E (mins)	Cover Level (m)	Diameter (mm)	Easting (m)	Northing (m)	Depth (m)	Invert Level (m)
S1	0.023	5.00	25.580	600	519740.169	122189.552	0.880	24.700
S2	0.009	5.00	25.580	600	519740.990	122195.284	0.916	24.664
S3	0.009	5.00	25.500	600	519745.987	122216.735	1.057	24.443
S4	0.028	5.00	25.470	600	519705.535	122231.462	1.218	24.252
S5	0.046	5.00	25.500	600	519692.223	122234.519	1.393	24.107
AT1	0.000	5.00	25.000	600	519677.514	122246.068	1.300	23.700
S7	0.052		25.000	1200	519684.398	122255.292	1.350	23.650
S8	0.029	5.00	25.550	600	519720.806	122202.888	0.600	24.950
S9	0.029	5.00	25.520	600	519703.585	122209.063	0.795	24.725
S10	0.028	5.00	25.500	600	519689.143	122222.324	1.000	24.500
S11	0.031	5.00	25.700	600	519653.930	122214.082	0.600	25.100
S12	0.031	5.00	25.500	600	519663.726	122226.366	0.700	24.800
S13	0.022	5.00	25.000	600	519662.536	122241.545	0.861	24.139
S16	0.049	5.00	25.000	600	519653.158	122248.383	0.720	24.280

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)
1.006	S1	S2	5.790	0.600	24.700	24.664	0.036	160.8	150	5.12	53.5
1.000	S2	S3	22.025	0.600	24.664	24.518	0.146	150.9	150	5.57	51.7
1.002	S3	S4	43.049	0.600	24.443	24.252	0.191	225.4	225	6.40	48.6
1.003	S4	S5	13.658	0.600	24.252	24.182	0.070	195.1	225	6.64	47.8
1.004	S5	AT1	18.701	0.600	24.107	23.700	0.407	45.9	300	6.78	47.3
1.005	AT1	S7	11.510	0.600	23.700	23.650	0.050	230.2	300	6.96	46.7
2.000	S11	S12	15.712	0.600	25.100	24.800	0.300	52.4	225	5.14	53.4

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)
1.006	0.790	14.0	4.4	0.730	0.766	0.023	0.0	58	0.703
1.000	0.816	14.4	6.0	0.766	0.832	0.032	0.0	67	0.777
1.002	0.867	34.5	7.2	0.832	0.993	0.041	0.0	70	0.689
1.003	0.932	37.1	11.9	0.993	1.093	0.069	0.0	87	0.832
1.004	2.325	164.4	34.4	1.093	1.000	0.201	0.0	93	1.853
1.005	1.032	72.9	56.3	1.000	1.050	0.334	0.0	198	1.135
2.000	1.811	72.0	6.0	0.375	0.475	0.031	0.0	44	1.104

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)
2.001	S12	S13	15.226	0.600	24.800	24.139	0.661	23.0	225	5.24	53.0
2.002	S13	AT1	15.646	0.600	24.139	23.700	0.439	35.6	225	5.36	52.6
3.000	S16	S13	11.606	0.600	24.280	24.139	0.141	82.3	225	5.13	53.5
4.000	S8	S9	18.295	0.600	24.950	24.800	0.150	122.0	150	5.34	52.7
4.001	S9	S10	19.607	0.600	24.725	24.500	0.225	87.1	225	5.57	51.7
4.002	S10	S5	12.578	0.600	24.500	24.182	0.318	39.6	225	5.67	51.3

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)
2.001	2.737	108.8	11.9	0.475	0.636	0.062	0.0	50	1.805
2.002	2.198	87.4	25.3	0.636	1.075	0.133	0.0	83	1.914
3.000	1.442	57.3	9.5	0.495	0.636	0.049	0.0	62	1.076
4.000	0.908	16.1	5.5	0.450	0.570	0.029	0.0	61	0.825
4.001	1.401	55.7	10.8	0.570	0.775	0.058	0.0	67	1.093
4.002	2.086	82.9	15.9	0.775	1.093	0.086	0.0	66	1.617

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	5.790	160.8	150	Circular	25.580	24.700	0.730	25.580	24.664	0.766
1.000	22.025	150.9	150	Circular	25.580	24.664	0.766	25.500	24.518	0.832
1.002	43.049	225.4	225	Circular	25.500	24.443	0.832	25.470	24.252	0.993
1.003	13.658	195.1	225	Circular	25.470	24.252	0.993	25.500	24.182	1.093
1.004	18.701	45.9	300	Circular	25.500	24.107	1.093	25.000	23.700	1.000
1.005	11.510	230.2	300	Circular	25.000	23.700	1.000	25.000	23.650	1.050
2.000	15.712	52.4	225	Circular	25.700	25.100	0.375	25.500	24.800	0.475
2.001	15.226	23.0	225	Circular	25.500	24.800	0.475	25.000	24.139	0.636
2.002	15.646	35.6	225	Circular	25.000	24.139	0.636	25.000	23.700	1.075
3.000	11.606	82.3	225	Circular	25.000	24.280	0.495	25.000	24.139	0.636

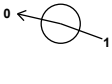
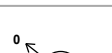
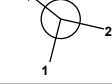
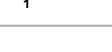
Link	US Node	Dia (mm)	Node Type	MH Type	DS Node	Dia (mm)	Node Type	MH Type
1.006	S1	600	Manhole	Adoptable	S2	600	Manhole	Adoptable
1.000	S2	600	Manhole	Adoptable	S3	600	Manhole	Adoptable
1.002	S3	600	Manhole	Adoptable	S4	600	Manhole	Adoptable
1.003	S4	600	Manhole	Adoptable	S5	600	Manhole	Adoptable
1.004	S5	600	Manhole	Adoptable	AT1	600	Manhole	Adoptable
1.005	AT1	600	Manhole	Adoptable	S7	1200	Manhole	Adoptable
2.000	S11	600	Manhole	Adoptable	S12	600	Manhole	Adoptable
2.001	S12	600	Manhole	Adoptable	S13	600	Manhole	Adoptable
2.002	S13	600	Manhole	Adoptable	AT1	600	Manhole	Adoptable
3.000	S16	600	Manhole	Adoptable	S13	600	Manhole	Adoptable

Pipeline Schedule

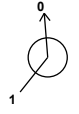
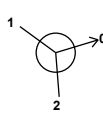
Link	Length (m)	Slope (1:X)	Dia (mm)	Link Type	US CL (m)	US IL (m)	US Depth (m)	DS CL (m)	DS IL (m)	DS Depth (m)
4.000	18.295	122.0	150	Circular	25.550	24.950	0.450	25.520	24.800	0.570
4.001	19.607	87.1	225	Circular	25.520	24.725	0.570	25.500	24.500	0.775
4.002	12.578	39.6	225	Circular	25.500	24.500	0.775	25.500	24.182	1.093

Link	US Node	Dia (mm)	Node Type	MH Type	DS Node	Dia (mm)	Node Type	MH Type
4.000	S8	600	Manhole	Adoptable	S9	600	Manhole	Adoptable
4.001	S9	600	Manhole	Adoptable	S10	600	Manhole	Adoptable
4.002	S10	600	Manhole	Adoptable	S5	600	Manhole	Adoptable

Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)	
S1	519740.169	122189.552	25.580	0.880	600		0	1.006	24.700	150
S2	519740.990	122195.284	25.580	0.916	600		1	1.006	24.664	150
							0	1.000	24.664	150
S3	519745.987	122216.735	25.500	1.057	600		1	1.000	24.518	150
							0	1.002	24.443	225
S4	519705.535	122231.462	25.470	1.218	600		1	1.002	24.252	225
							0	1.003	24.252	225
S5	519692.223	122234.519	25.500	1.393	600		1	4.002	24.182	225
							2	1.003	24.182	225
							0	1.004	24.107	300
AT1	519677.514	122246.068	25.000	1.300	600		1	2.002	23.700	225
							2	1.004	23.700	300
							0	1.005	23.700	300
S7	519684.398	122255.292	25.000	1.350	1200		1	1.005	23.650	300
S8	519720.806	122202.888	25.550	0.600	600		0	4.000	24.950	150
S9	519703.585	122209.063	25.520	0.795	600		1	4.000	24.800	150
							0	4.001	24.725	225

Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)	
S10	519689.143	122222.324	25.500	1.000	600		1 0	4.001 4.002	24.500 24.500	225 225
S11	519653.930	122214.082	25.700	0.600	600		0 0	2.000 2.000	25.100 25.100	225 225
S12	519663.726	122226.366	25.500	0.700	600		1 0	2.000 2.001	24.800 24.800	225 225
S13	519662.536	122241.545	25.000	0.861	600		1 2 0	3.000 2.001 2.002	24.139 24.139 24.139	225 225 225
S16	519653.158	122248.383	25.000	0.720	600		0 0	3.000 3.000	24.280 24.280	225 225

Simulation Settings

Rainfall Methodology	FEH-22	Analysis Speed	Normal	Starting Level (m)	
Rainfall Events	Singular	Skip Steady State	x	Check Discharge Rate(s)	x
Summer CV	1.000	Drain Down Time (mins)	240	Check Discharge Volume	x
Winter CV	1.000	Additional Storage (m³/ha)	0.0		

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

Node S7 Online Hydro-Brake® Control

Flap Valve	x	Objective	(HE) Minimise upstream storage
Replaces Downstream Link	x	Sump Available	✓
Invert Level (m)	23.650	Product Number	CTL-SHE-0104-5400-1350-5400
Design Depth (m)	1.350	Min Outlet Diameter (m)	0.150
Design Flow (l/s)	5.4	Min Node Diameter (mm)	1200

Node S16 Depth/Area Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Safety Factor	2.0	Invert Level (m)	24.300
Side Inf Coefficient (m/hr)	0.00000	Porosity	1.00	Time to half empty (mins)	248

Depth (m)	Area (m ²)	Inf Area (m ²)	Depth (m)	Area (m ²)	Inf Area (m ²)
0.000	179.5	179.5	0.700	293.1	299.2

Node AT1 Depth/Area Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Safety Factor	2.0	Invert Level (m)	23.700
Side Inf Coefficient (m/hr)	0.00000	Porosity	0.95	Time to half empty (mins)	

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	180.0	180.0	0.800	180.0	218.0	0.801	0.0	218.0

Results for 1 year Critical Storm Duration. Lowest mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	S1	10	24.748	0.048	2.7	0.0135	0.0000	OK
15 minute summer	S2	11	24.717	0.053	3.8	0.0149	0.0000	OK
15 minute summer	S3	11	24.499	0.056	4.7	0.0158	0.0000	OK
15 minute summer	S4	11	24.325	0.073	7.8	0.0205	0.0000	OK
15 minute summer	S5	10	24.194	0.087	22.8	0.0246	0.0000	OK
240 minute summer	AT1	160	23.884	0.184	14.7	31.5196	0.0000	OK
240 minute summer	S7	160	23.884	0.234	5.2	0.2644	0.0000	OK
15 minute summer	S8	10	24.998	0.048	3.4	0.0135	0.0000	OK
15 minute summer	S9	10	24.779	0.054	6.7	0.0152	0.0000	OK
15 minute summer	S10	10	24.555	0.055	10.0	0.0155	0.0000	OK
15 minute summer	S11	10	25.134	0.034	3.7	0.0097	0.0000	OK
15 minute summer	S12	10	24.839	0.039	7.4	0.0112	0.0000	OK
15 minute summer	S13	10	24.200	0.061	11.2	0.0172	0.0000	OK
120 minute summer	S16	72	24.307	0.027	3.2	1.4449	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	S1	1.006	S2	2.7	0.524	0.192	0.0298	67.5
15 minute summer	S2	1.000	S3	3.7	0.680	0.257	0.1201	
15 minute summer	S3	1.002	S4	4.7	0.508	0.137	0.4029	
15 minute summer	S4	1.003	S5	7.7	0.722	0.208	0.1459	
15 minute summer	S5	1.004	AT1	23.0	2.185	0.140	0.2271	
240 minute summer	AT1	1.005	S7	4.8	0.269	0.065	0.5997	
240 minute summer	S7	Hydro-Brake®		5.1				
15 minute summer	S8	4.000	S9	3.4	0.712	0.209	0.0864	
15 minute summer	S9	4.001	S10	6.7	0.914	0.121	0.1444	
15 minute summer	S10	4.002	S5	9.9	1.373	0.119	0.0908	
15 minute summer	S11	2.000	S12	3.7	0.864	0.051	0.0666	
15 minute summer	S12	2.001	S13	7.3	1.135	0.067	0.1013	
15 minute summer	S13	2.002	AT1	11.4	1.960	0.130	0.1280	
120 minute summer	S16	3.000	S13	1.8	0.588	0.032	0.0445	

Results for 2 year Critical Storm Duration. Lowest mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	S1	10	24.761	0.061	4.1	0.0172	0.0000	OK
15 minute summer	S2	11	24.730	0.066	5.7	0.0187	0.0000	OK
15 minute summer	S3	11	24.512	0.069	7.1	0.0194	0.0000	OK
15 minute summer	S4	11	24.344	0.092	11.9	0.0260	0.0000	OK
15 minute summer	S5	10	24.213	0.106	34.8	0.0300	0.0000	OK
240 minute summer	AT1	168	23.970	0.270	19.7	46.2725	0.0000	OK
240 minute summer	S7	168	23.970	0.320	5.4	0.3618	0.0000	OK
15 minute summer	S8	10	25.010	0.060	5.2	0.0170	0.0000	OK
15 minute summer	S9	10	24.792	0.067	10.3	0.0190	0.0000	OK
15 minute summer	S10	10	24.569	0.069	15.2	0.0195	0.0000	OK
15 minute summer	S11	10	25.142	0.042	5.6	0.0120	0.0000	OK
15 minute summer	S12	10	24.848	0.048	11.1	0.0137	0.0000	OK
15 minute summer	S13	9	24.211	0.072	16.7	0.0204	0.0000	OK
30 minute summer	S16	23	24.313	0.033	7.9	2.4752	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	S1	1.006	S2	4.1	0.573	0.291	0.0410	91.6
15 minute summer	S2	1.000	S3	5.6	0.757	0.386	0.1619	
15 minute summer	S3	1.002	S4	7.1	0.561	0.206	0.5477	
15 minute summer	S4	1.003	S5	11.8	0.809	0.319	0.1997	
15 minute summer	S5	1.004	AT1	35.1	2.335	0.213	0.3479	
240 minute summer	AT1	1.005	S7	5.2	0.265	0.071	0.7898	
240 minute summer	S7	Hydro-Brake®		5.4				
15 minute summer	S8	4.000	S9	5.1	0.796	0.319	0.1178	
15 minute summer	S9	4.001	S10	10.3	1.017	0.184	0.1979	
15 minute summer	S10	4.002	S5	15.1	1.538	0.182	0.1238	
15 minute summer	S11	2.000	S12	5.6	0.975	0.077	0.0896	
15 minute summer	S12	2.001	S13	11.1	1.324	0.102	0.1309	
15 minute summer	S13	2.002	AT1	16.9	2.030	0.194	0.2169	
30 minute summer	S16	3.000	S13	2.7	0.706	0.047	0.0709	

Results for 10 year Critical Storm Duration. Lowest mass balance: 99.95%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	S1	10	24.796	0.096	8.1	0.0270	0.0000	OK
15 minute summer	S2	10	24.766	0.102	11.2	0.0290	0.0000	OK
15 minute summer	S3	11	24.542	0.099	14.1	0.0281	0.0000	OK
15 minute summer	S4	11	24.392	0.140	23.5	0.0396	0.0000	OK
15 minute summer	S5	10	24.256	0.149	68.4	0.0421	0.0000	OK
180 minute winter	AT1	172	24.242	0.542	27.4	92.9035	0.0000	SURCHARGED
180 minute winter	S7	172	24.242	0.592	5.6	0.6696	0.0000	OK
15 minute summer	S8	10	25.040	0.090	10.2	0.0255	0.0000	OK
15 minute summer	S9	10	24.823	0.098	20.2	0.0276	0.0000	OK
15 minute summer	S10	10	24.601	0.101	29.9	0.0286	0.0000	OK
15 minute summer	S11	10	25.160	0.060	10.9	0.0170	0.0000	OK
15 minute summer	S12	10	24.868	0.068	21.7	0.0192	0.0000	OK
180 minute winter	S13	172	24.243	0.104	10.2	0.0293	0.0000	OK
30 minute summer	S16	22	24.328	0.048	15.6	5.2793	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	S1	1.006	S2	8.0	0.656	0.575	0.0713	120.5
15 minute summer	S2	1.000	S3	11.0	0.886	0.764	0.2738	
15 minute summer	S3	1.002	S4	14.1	0.660	0.410	0.9210	
15 minute summer	S4	1.003	S5	23.5	0.957	0.635	0.3358	
15 minute summer	S5	1.004	AT1	68.7	2.481	0.418	0.7253	
180 minute winter	AT1	1.005	S7	5.4	0.217	0.074	0.8105	
180 minute winter	S7	Hydro-Brake®		5.4				
15 minute summer	S8	4.000	S9	10.0	0.937	0.625	0.1960	
15 minute summer	S9	4.001	S10	20.1	1.190	0.361	0.3310	
15 minute summer	S10	4.002	S5	29.6	1.820	0.357	0.2050	
15 minute summer	S11	2.000	S12	10.8	1.170	0.150	0.1456	
15 minute summer	S12	2.001	S13	21.6	1.627	0.199	0.2047	
180 minute winter	S13	2.002	AT1	10.2	1.278	0.117	0.4505	
30 minute summer	S16	3.000	S13	5.8	0.849	0.101	0.1177	

Results for 30 year Critical Storm Duration. Lowest mass balance: 99.92%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	S1	10	24.820	0.120	10.5	0.0341	0.0000	OK
15 minute summer	S2	11	24.794	0.130	14.4	0.0367	0.0000	OK
15 minute summer	S3	11	24.558	0.115	18.1	0.0325	0.0000	OK
15 minute summer	S4	11	24.419	0.167	30.4	0.0473	0.0000	OK
180 minute winter	S5	176	24.369	0.262	21.6	0.0741	0.0000	OK
180 minute winter	AT1	176	24.369	0.669	34.6	114.5759	0.0000	SURCHARGED
180 minute winter	S7	176	24.369	0.719	5.6	0.8128	0.0000	OK
15 minute summer	S8	10	25.059	0.109	13.3	0.0309	0.0000	OK
15 minute summer	S9	10	24.840	0.115	26.4	0.0325	0.0000	OK
15 minute summer	S10	10	24.619	0.119	39.0	0.0337	0.0000	OK
15 minute summer	S11	10	25.169	0.069	14.2	0.0196	0.0000	OK
15 minute summer	S12	10	24.878	0.078	28.3	0.0220	0.0000	OK
180 minute winter	S13	176	24.369	0.230	13.1	0.0651	0.0000	SURCHARGED
180 minute winter	S16	176	24.369	0.089	6.7	12.9422	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	S1	1.006	S2	10.3	0.681	0.742	0.0905	120.1
15 minute summer	S2	1.000	S3	14.2	0.939	0.986	0.3318	
15 minute summer	S3	1.002	S4	18.2	0.695	0.528	1.1191	
15 minute summer	S4	1.003	S5	30.4	1.032	0.821	0.4021	
180 minute winter	S5	1.004	AT1	21.6	1.355	0.131	1.2686	
180 minute winter	AT1	1.005	S7	5.4	0.200	0.074	0.8105	
180 minute winter	S7	Hydro-Brake®		5.4				
15 minute summer	S8	4.000	S9	13.1	0.988	0.816	0.2429	
15 minute summer	S9	4.001	S10	26.2	1.259	0.471	0.4087	
15 minute summer	S10	4.002	S5	38.7	1.935	0.467	0.2517	
15 minute summer	S11	2.000	S12	14.1	1.254	0.196	0.1769	
15 minute summer	S12	2.001	S13	28.2	1.730	0.259	0.2487	
180 minute winter	S13	2.002	AT1	13.0	1.378	0.149	0.6223	
180 minute winter	S16	3.000	S13	-4.6	0.679	-0.081	0.3158	

Results for 100 year +45% CC Critical Storm Duration. Lowest mass balance: 99.57%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	S1	12	25.343	0.643	19.2	0.1820	0.0000	FLOOD RISK
15 minute summer	S2	12	25.274	0.610	24.8	0.1726	0.0000	SURCHARGED
120 minute summer	S3	72	25.037	0.594	15.5	0.1680	0.0000	SURCHARGED
120 minute summer	S4	72	25.022	0.770	25.5	0.2178	0.0000	SURCHARGED
120 minute summer	S5	72	25.006	0.899	73.8	0.2544	0.0000	SURCHARGED
120 minute summer	AT1	72	24.966	1.266	110.5	137.2438	0.0000	FLOOD RISK
120 minute summer	S7	72	24.967	1.317	25.3	1.4890	0.0000	OK
15 minute summer	S8	11	25.314	0.364	24.2	0.1029	0.0000	FLOOD RISK
120 minute summer	S9	72	25.044	0.319	22.0	0.0902	0.0000	SURCHARGED
120 minute summer	S10	72	25.029	0.529	32.6	0.1496	0.0000	SURCHARGED
15 minute summer	S11	10	25.198	0.098	25.9	0.0276	0.0000	OK
15 minute summer	S12	10	24.909	0.109	51.6	0.0308	0.0000	OK
360 minute winter	S13	352	24.894	0.755	27.2	0.2138	0.0000	FLOOD RISK
360 minute winter	S16	352	24.895	0.615	31.9	135.6725	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)
15 minute summer	S1	1.006	S2	17.3	0.986	1.243	0.1019	100.1
15 minute summer	S2	1.000	S3	22.8	1.298	1.585	0.3877	
120 minute summer	S3	1.002	S4	14.9	0.650	0.433	1.7121	
120 minute summer	S4	1.003	S5	23.8	0.938	0.642	0.5432	
120 minute summer	S5	1.004	AT1	73.3	1.725	0.446	1.3169	
120 minute summer	AT1	1.005	S7	-14.2	-0.201	-0.194	0.8105	
120 minute summer	S7	Hydro-Brake®		5.4				
15 minute summer	S8	4.000	S9	23.3	1.323	1.450	0.3221	
120 minute summer	S9	4.001	S10	22.0	1.286	0.395	0.7798	
120 minute summer	S10	4.002	S5	33.3	1.741	0.402	0.5002	
15 minute summer	S11	2.000	S12	25.8	1.450	0.358	0.2792	
15 minute summer	S12	2.001	S13	51.6	1.877	0.474	0.4314	
360 minute winter	S13	2.002	AT1	-19.0	1.359	-0.217	0.6223	
360 minute winter	S16	3.000	S13	-27.1	-0.680	-0.472	0.4616	