

Design Settings

Rainfall Methodology	FSR	Maximum Time of Concentration (mins)	30.00
Return Period (years)	1	Maximum Rainfall (mm/hr)	50.0
Additional Flow (%)	0	Minimum Velocity (m/s)	1.00
FSR Region	England and Wales	Connection Type	Level Soffits
M5-60 (mm)	18.300	Minimum Backdrop Height (m)	0.200
Ratio-R	0.353	Preferred Cover Depth (m)	0.500
CV	0.750	Include Intermediate Ground	✓
Time of Entry (mins)	5.00	Enforce best practice design rules	✓

Nodes

Name	Area (ha)	T of E (mins)	Cover Level (m)	Diameter (mm)	Easting (m)	Northing (m)	Depth (m)	Invert Level (m)
1	0.006	5.00	81.000	300	385153.305	403448.298	0.600	80.400
2	0.006	5.00	81.000	450	385156.566	403439.326	0.695	80.305
3	0.007	5.00	81.000	450	385167.644	403443.460	0.864	80.136
4	0.007	5.00	81.150	450	385170.051	403436.947	1.083	80.067
5	0.006	5.00	80.150	300	385203.883	403461.287	0.650	79.500
6	0.007	5.00	80.150	450	385205.374	403457.088	0.695	79.455
7	0.006	5.00	80.150	300	385191.181	403461.513	0.650	79.500
8	0.007	5.00	80.150	450	385194.347	403452.992	0.812	79.338
9	0.006	5.00	80.363	300	385181.994	403457.351	1.049	79.314
10	0.007	5.00	80.678	450	385184.849	403449.475	1.603	79.075
11	0.007	5.00	79.850	300	385207.194	403450.859	0.650	79.200
12	0.007	5.00	80.872	600	385186.188	403442.936	2.022	78.850
13	0.007	5.00	79.850	300	385216.294	403441.108	0.600	79.250
14	0.006	5.00	81.150	300	385165.010	403422.781	0.600	80.550
15	0.007	5.00	81.000	450	385187.914	403431.291	1.300	79.700
16	0.006	5.00	80.557	1200	385190.187	403432.145	1.765	78.792
C01			80.450	450	385192.399	403432.008	1.830	78.620

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	1	2	9.396	0.600	80.400	80.305	0.095	98.9	100	5.20	46.3
1.001	2	3	11.825	0.600	80.305	80.186	0.119	99.4	100	5.46	45.4
1.002	3	4	6.944	0.600	80.136	80.067	0.069	100.6	150	5.57	45.0
1.003	4	12	17.213	0.600	80.067	79.895	0.172	100.1	150	5.86	44.0
2.000	5	6	4.305	0.600	79.500	79.455	0.045	95.7	100	5.09	46.7
2.001	6	8	11.763	0.600	79.455	79.338	0.117	100.5	100	5.35	45.8
3.000	7	8	8.940	0.600	79.500	79.338	0.162	55.2	100	5.14	46.5

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	0.773	6.1	0.8	0.500	0.595	0.006	0.0	24	0.524
1.001	0.771	6.1	1.5	0.595	0.714	0.012	0.0	34	0.639
1.002	1.001	17.7	2.3	0.714	0.933	0.019	0.0	37	0.694
1.003	1.004	17.7	3.1	0.933	0.827	0.026	0.0	42	0.757
2.000	0.786	6.2	0.8	0.550	0.595	0.006	0.0	24	0.533
2.001	0.767	6.0	1.6	0.595	0.712	0.013	0.0	36	0.651
3.000	1.039	8.2	0.8	0.550	0.712	0.006	0.0	21	0.649

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	8	10	10.128	0.600	79.338	79.200	0.138	73.4	100	5.53	45.3
4.000	9	10	8.377	0.600	79.314	79.150	0.164	51.1	150	5.10	46.7
2.003	10	12	6.675	0.600	79.075	78.850	0.225	29.7	225	5.58	45.0
5.000	11	12	22.451	0.600	79.200	78.975	0.225	99.8	100	5.49	45.7
1.004	12	16	11.508	0.600	78.850	78.792	0.058	198.4	225	6.07	43.4
6.000	13	16	27.603	0.600	79.250	78.792	0.458	60.3	100	5.46	45.5
7.000	14	15	24.284	0.600	80.550	79.700	0.850	28.6	100	5.28	46.5
7.001	15	16	2.428	0.600	79.700	79.661	0.039	62.3	100	5.32	46.0
1.005	16	C01	2.217	0.600	78.792	78.620	0.172	12.9	150	6.08	43.3

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)
2.002	0.899	7.1	3.2	0.712	1.378	0.026	0.0	47	0.878
4.000	1.411	24.9	0.8	0.899	1.378	0.006	0.0	18	0.629
2.003	2.411	95.8	4.8	1.378	1.797	0.039	0.0	34	1.264
5.000	0.770	6.0	0.9	0.550	1.797	0.007	0.0	25	0.542
1.004	0.924	36.8	9.3	1.797	1.540	0.079	0.0	77	0.773
6.000	0.994	7.8	0.9	0.500	1.665	0.007	0.0	22	0.648
7.000	1.449	11.4	0.8	0.500	1.200	0.006	0.0	18	0.819
7.001	0.977	7.7	1.6	1.200	0.796	0.013	0.0	31	0.770
1.005	2.821	49.8	12.3	1.615	1.680	0.105	0.0	51	2.344

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	9.396	98.9	100	1 STANDARD	81.000	80.400	0.500	81.000	80.305	0.595
1.001	11.825	99.4	100	1 STANDARD	81.000	80.305	0.595	81.000	80.186	0.714
1.002	6.944	100.6	150	1 STANDARD	81.000	80.136	0.714	81.150	80.067	0.933
1.003	17.213	100.1	150	1 STANDARD	81.150	80.067	0.933	80.872	79.895	0.827
2.000	4.305	95.7	100	1 STANDARD	80.150	79.500	0.550	80.150	79.455	0.595
2.001	11.763	100.5	100	1 STANDARD	80.150	79.455	0.595	80.150	79.338	0.712
3.000	8.940	55.2	100	1 STANDARD	80.150	79.500	0.550	80.150	79.338	0.712
2.002	10.128	73.4	100	1 STANDARD	80.150	79.338	0.712	80.678	79.200	1.378
4.000	8.377	51.1	150	1 STANDARD	80.363	79.314	0.899	80.678	79.150	1.378
2.003	6.675	29.7	225	1 STANDARD	80.678	79.075	1.378	80.872	78.850	1.797
5.000	22.451	99.8	100	1 STANDARD	79.850	79.200	0.550	80.872	78.975	1.797

Link	US Node	Dia (mm)	Node Type	MH Type	DS Node	Dia (mm)	Node Type	MH Type
1.000	1	300	Manhole	1 STANDARD	2	450	Manhole	1 STANDARD
1.001	2	450	Manhole	1 STANDARD	3	450	Manhole	1 STANDARD
1.002	3	450	Manhole	1 STANDARD	4	450	Manhole	1 STANDARD
1.003	4	450	Manhole	1 STANDARD	12	600	Manhole	1 STANDARD
2.000	5	300	Manhole	1 STANDARD	6	450	Manhole	1 STANDARD
2.001	6	450	Manhole	1 STANDARD	8	450	Manhole	1 STANDARD
3.000	7	300	Manhole	1 STANDARD	8	450	Manhole	1 STANDARD
2.002	8	450	Manhole	1 STANDARD	10	450	Manhole	1 STANDARD
4.000	9	300	Manhole	1 STANDARD	10	450	Manhole	1 STANDARD
2.003	10	450	Manhole	1 STANDARD	12	600	Manhole	1 STANDARD
5.000	11	300	Manhole	1 STANDARD	12	600	Manhole	1 STANDARD

Pipeline Schedule

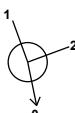
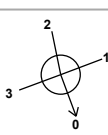
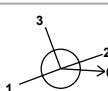
Link	Length (m)	Slope (1:X)	Dia (mm)	Link Type	US CL (m)	US IL (m)	US Depth (m)	DS CL (m)	DS IL (m)	DS Depth (m)
1.004	11.508	198.4	225	1 STANDARD	80.872	78.850	1.797	80.557	78.792	1.540
6.000	27.603	60.3	100	1 STANDARD	79.850	79.250	0.500	80.557	78.792	1.665
7.000	24.284	28.6	100	1 STANDARD	81.150	80.550	0.500	81.000	79.700	1.200
7.001	2.428	62.3	100	1 STANDARD	81.000	79.700	1.200	80.557	79.661	0.796
1.005	2.217	12.9	150	1 STANDARD	80.557	78.792	1.615	80.450	78.620	1.680

Link	US Node	Dia (mm)	Node Type	MH Type	DS Node	Dia (mm)	Node Type	MH Type
1.004	12	600	Manhole	1 STANDARD	16	1200	Manhole	1 STANDARD
6.000	13	300	Manhole	1 STANDARD	16	1200	Manhole	1 STANDARD
7.000	14	300	Manhole	1 STANDARD	15	450	Manhole	1 STANDARD
7.001	15	450	Manhole	1 STANDARD	16	1200	Manhole	1 STANDARD
1.005	16	1200	Manhole	1 STANDARD	C01	450	Manhole	1 STANDARD

Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)	
1	385153.305	403448.298	81.000	0.600	300		0	1.000	80.400	100
2	385156.566	403439.326	81.000	0.695	450		1	1.000	80.305	100
						0	1.001	80.305	100	
3	385167.644	403443.460	81.000	0.864	450		1	1.001	80.186	100
						0	1.002	80.136	150	
4	385170.051	403436.947	81.150	1.083	450		1	1.002	80.067	150
						0	1.003	80.067	150	
5	385203.883	403461.287	80.150	0.650	300		0	2.000	79.500	100
6	385205.374	403457.088	80.150	0.695	450		1	2.000	79.455	100
						0	2.001	79.455	100	
7	385191.181	403461.513	80.150	0.650	300		0	3.000	79.500	100
8	385194.347	403452.992	80.150	0.812	450		1	3.000	79.338	100
						2	2.001	79.338	100	
						0	2.002	79.338	100	

Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)	
9	385181.994	403457.351	80.363	1.049	300		0	4.000	79.314	150
10	385184.849	403449.475	80.678	1.603	450		1 2 0	4.000 2.002 2.003	79.150 79.200 79.075	150 100 225
11	385207.194	403450.859	79.850	0.650	300		0	5.000	79.200	100
12	385186.188	403442.936	80.872	2.022	600		1 2 3 0	5.000 2.003 1.003 1.004	78.975 78.850 79.895 78.850	100 225 150 225
13	385216.294	403441.108	79.850	0.600	300		0	6.000	79.250	100
14	385165.010	403422.781	81.150	0.600	300		0	7.000	80.550	100
15	385187.914	403431.291	81.000	1.300	450		1 0	7.000 7.001	79.700 79.700	100 100
16	385190.187	403432.145	80.557	1.765	1200		1 2 3 0	7.001 6.000 1.004 1.005	79.661 78.792 78.792 78.792	100 100 225 150
C01	385192.399	403432.008	80.450	1.830	450		1	1.005	78.620	150

Simulation Settings

Rainfall Methodology	FSR	Analysis Speed	Detailed
Rainfall Events	Singular	Skip Steady State	x
FSR Region	England and Wales	Drain Down Time (mins)	240
M5-60 (mm)	18.300	Additional Storage (m³/ha)	20.0
Ratio-R	0.353	Starting Level (m)	
Summer CV	0.750	Check Discharge Rate(s)	x
Winter CV	0.840	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
30	0	0	0
100	40	0	0

Node 16 Online Hydro-Brake® Control

Flap Valve	x	Objective	(HE) Minimise upstream storage
Replaces Downstream Link	x	Sump Available	✓
Invert Level (m)	78.792	Product Number	CTL-SHE-0099-5000-1450-5000
Design Depth (m)	1.450	Min Outlet Diameter (m)	0.150
Design Flow (l/s)	5.0	Min Node Diameter (mm)	1200

Node 12 Depth/Area Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Safety Factor	2.0	Invert Level (m)	78.900
Side Inf Coefficient (m/hr)	0.00000	Porosity	0.95	Time to half empty (mins)	54

Depth (m)	Area (m²)	Inf Area (m²)	Depth (m)	Area (m²)	Inf Area (m²)	Depth (m)	Area (m²)	Inf Area (m²)
0.000	36.8	35.0	0.800	36.8	56.6	0.801	0.0	56.6

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 winter	1	11	80.423	0.023	0.7	0.0062	0.0000	OK
15 minute winter	2	11	80.338	0.033	1.4	0.0111	0.0000	OK
15 minute winter	3	10	80.174	0.038	2.3	0.0121	0.0000	OK
15 minute winter	4	10	80.110	0.043	3.2	0.0124	0.0000	OK
15 minute winter	5	11	79.523	0.023	0.7	0.0058	0.0000	OK
15 minute winter	6	10	79.490	0.035	1.6	0.0126	0.0000	OK
15 minute summer	7	11	79.520	0.020	0.7	0.0051	0.0000	OK
15 minute winter	8	10	79.386	0.048	3.2	0.0160	0.0000	OK
15 minute summer	9	11	79.332	0.018	0.7	0.0033	0.0000	OK
15 minute winter	10	10	79.109	0.034	4.7	0.0083	0.0000	OK
15 minute winter	11	10	79.225	0.025	0.9	0.0073	0.0000	OK
30 minute winter	12	25	78.973	0.123	7.8	2.6025	0.0000	OK
15 minute winter	13	10	79.273	0.023	0.9	0.0068	0.0000	OK
15 minute summer	14	11	80.567	0.017	0.7	0.0046	0.0000	OK
15 minute winter	15	10	79.734	0.034	1.6	0.0090	0.0000	OK
30 minute winter	16	24	78.972	0.180	4.5	0.2161	0.0000	SURCHARGED
30 minute winter	C01	24	78.649	0.029	4.2	0.0000	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute winter	1	1.000	2	0.7	0.389	0.115	0.0171	
15 minute winter	2	1.001	3	1.4	0.620	0.231	0.0267	
15 minute winter	3	1.002	4	2.3	0.593	0.128	0.0266	
15 minute winter	4	1.003	12	3.1	0.747	0.174	0.0710	
15 minute winter	5	2.000	6	0.7	0.382	0.113	0.0081	
15 minute winter	6	2.001	8	1.6	0.511	0.261	0.0363	
15 minute summer	7	3.000	8	0.7	0.318	0.086	0.0213	
15 minute winter	8	2.002	10	3.1	0.850	0.437	0.0369	
15 minute summer	9	4.000	10	0.7	0.613	0.028	0.0096	
15 minute winter	10	2.003	12	4.7	0.646	0.049	0.0787	
15 minute winter	11	5.000	12	0.8	0.542	0.139	0.0349	
30 minute winter	12	1.004	16	3.5	0.338	0.095	0.3234	
15 minute winter	13	6.000	16	0.9	0.240	0.111	0.1262	
15 minute summer	14	7.000	15	0.7	0.470	0.062	0.0376	
15 minute winter	15	7.001	16	1.6	0.721	0.203	0.0053	
30 minute winter	16	1.005	C01	4.2	1.575	0.083	0.0059	7.8

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 winter	1	10	80.427	0.027	1.0	0.0073	0.0000	OK
15 minute winter	2	10	80.345	0.040	2.0	0.0132	0.0000	OK
15 minute winter	3	11	80.180	0.044	3.0	0.0141	0.0000	OK
15 minute winter	4	11	80.118	0.051	4.1	0.0146	0.0000	OK
15 minute winter	5	10	79.527	0.027	1.0	0.0069	0.0000	OK
15 minute winter	6	10	79.495	0.040	2.1	0.0145	0.0000	OK
15 minute winter	7	10	79.523	0.023	1.0	0.0060	0.0000	OK
15 minute winter	8	11	79.396	0.058	4.1	0.0191	0.0000	OK
15 minute winter	9	10	79.335	0.021	1.0	0.0038	0.0000	OK
15 minute winter	10	11	79.114	0.039	6.1	0.0095	0.0000	OK
15 minute winter	11	11	79.229	0.029	1.1	0.0083	0.0000	OK
30 minute winter	12	25	79.009	0.159	9.8	3.8689	0.0000	OK
15 minute winter	13	11	79.275	0.025	1.1	0.0077	0.0000	OK
15 minute winter	14	10	80.570	0.020	1.0	0.0054	0.0000	OK
15 minute winter	15	10	79.739	0.039	2.1	0.0104	0.0000	OK
30 minute winter	16	25	79.008	0.216	4.9	0.2592	0.0000	SURCHARGED
30 minute winter	C01	25	78.650	0.030	4.4	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 winter	1	1.000	2	1.0	0.427	0.161	0.0216	
15 minute winter	2	1.001	3	1.9	0.673	0.312	0.0334	
15 minute winter	3	1.002	4	3.0	0.635	0.170	0.0330	
15 minute winter	4	1.003	12	4.1	0.808	0.233	0.0879	
15 minute winter	5	2.000	6	1.0	0.424	0.158	0.0100	
15 minute winter	6	2.001	8	2.1	0.543	0.341	0.0447	
15 minute winter	7	3.000	8	1.0	0.332	0.120	0.0269	
15 minute winter	8	2.002	10	4.1	0.908	0.582	0.0459	
15 minute winter	9	4.000	10	1.0	0.677	0.039	0.0121	
15 minute winter	10	2.003	12	6.1	0.682	0.064	0.1040	
15 minute winter	11	5.000	12	1.1	0.583	0.182	0.0423	
30 minute winter	12	1.004	16	3.9	0.336	0.106	0.3978	
15 minute winter	13	6.000	16	1.1	0.240	0.141	0.1295	
15 minute winter	14	7.000	15	1.0	0.508	0.086	0.0477	
15 minute winter	15	7.001	16	2.0	0.774	0.267	0.0064	
30 minute winter	16	1.005	C01	4.4	1.599	0.089	0.0061	10.0

Results for 30 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 winter	1	10	80.437	0.037	1.8	0.0100	0.0000	OK
15 minute winter	2	10	80.362	0.057	3.6	0.0189	0.0000	OK
15 minute winter	3	10	80.199	0.063	5.6	0.0203	0.0000	OK
15 minute winter	4	11	80.138	0.071	7.7	0.0205	0.0000	OK
15 minute winter	5	10	79.538	0.038	1.8	0.0096	0.0000	OK
15 minute winter	6	10	79.513	0.058	3.9	0.0208	0.0000	OK
15 minute winter	7	10	79.532	0.032	1.8	0.0081	0.0000	OK
15 minute winter	8	11	79.461	0.123	7.7	0.0406	0.0000	SURCHARGED
15 minute winter	9	10	79.342	0.028	1.8	0.0052	0.0000	OK
60 minute winter	10	47	79.206	0.131	6.3	0.0321	0.0000	OK
15 minute winter	11	10	79.241	0.041	2.1	0.0117	0.0000	OK
60 minute winter	12	47	79.206	0.356	12.7	10.8236	0.0000	SURCHARGED
15 minute winter	13	10	79.285	0.035	2.1	0.0107	0.0000	OK
15 minute winter	14	10	80.577	0.027	1.8	0.0073	0.0000	OK
15 minute winter	15	10	79.757	0.057	3.9	0.0153	0.0000	OK
60 minute winter	16	47	79.205	0.413	5.4	0.4948	0.0000	SURCHARGED
60 minute winter	C01	47	78.652	0.032	5.0	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 winter	1	1.000	2	1.8	0.492	0.293	0.0341	
15 minute winter	2	1.001	3	3.5	0.782	0.578	0.0531	
15 minute winter	3	1.002	4	5.6	0.731	0.314	0.0529	
15 minute winter	4	1.003	12	7.6	0.948	0.429	0.1382	
15 minute winter	5	2.000	6	1.8	0.481	0.288	0.0159	
15 minute winter	6	2.001	8	3.8	0.603	0.638	0.0737	
15 minute winter	7	3.000	8	1.8	0.356	0.219	0.0445	
15 minute winter	8	2.002	10	7.5	0.978	1.060	0.0763	
15 minute winter	9	4.000	10	1.8	0.803	0.072	0.0186	
60 minute winter	10	2.003	12	6.3	0.433	0.066	0.2125	
15 minute winter	11	5.000	12	2.0	0.690	0.338	0.1174	
60 minute winter	12	1.004	16	4.6	0.338	0.126	0.4577	
15 minute winter	13	6.000	16	2.1	0.341	0.266	0.1420	
15 minute winter	14	7.000	15	1.8	0.571	0.156	0.0766	
15 minute winter	15	7.001	16	3.8	0.897	0.498	0.0103	
60 minute winter	16	1.005	C01	5.0	1.645	0.100	0.0067	24.9

Results for 100 year +40% CC Critical Storm Duration. Lowest mass balance: 99.73%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	1	10	80.452	0.052	3.3	0.0141	0.0000	OK
15 minute winter	2	11	80.411	0.106	6.6	0.0352	0.0000	SURCHARGED
15 minute winter	3	10	80.228	0.092	10.0	0.0295	0.0000	OK
15 minute winter	4	11	80.172	0.105	13.8	0.0301	0.0000	OK
15 minute winter	5	12	79.793	0.293	3.3	0.0747	0.0000	SURCHARGED
15 minute winter	6	12	79.783	0.328	5.9	0.1181	0.0000	SURCHARGED
15 minute winter	7	12	79.694	0.194	3.3	0.0494	0.0000	SURCHARGED
15 minute winter	8	12	79.674	0.336	11.1	0.1112	0.0000	SURCHARGED
60 minute winter	9	60	79.646	0.332	1.8	0.0614	0.0000	SURCHARGED
60 minute winter	10	60	79.646	0.571	11.3	0.1404	0.0000	SURCHARGED
60 minute winter	11	59	79.647	0.447	2.1	0.1278	0.0000	FLOOD RISK
60 minute winter	12	60	79.646	0.796	22.8	26.3735	0.0000	SURCHARGED
60 minute winter	13	59	79.646	0.396	2.1	0.1205	0.0000	FLOOD RISK
15 minute winter	14	10	80.587	0.037	3.3	0.0100	0.0000	OK
15 minute winter	15	10	79.790	0.090	7.1	0.0240	0.0000	OK
60 minute winter	16	59	79.645	0.853	7.5	1.0230	0.0000	SURCHARGED
30 minute summer	C01	19	78.652	0.032	5.0	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 winter	1	1.000	2	3.3	0.543	0.538	0.0560	
15 minute winter	2	1.001	3	6.3	0.859	1.045	0.0865	
15 minute winter	3	1.002	4	10.0	0.816	0.564	0.0848	
15 minute winter	4	1.003	12	13.7	1.078	0.770	0.2182	
15 minute winter	5	2.000	6	2.4	0.482	0.393	0.0337	
15 minute winter	6	2.001	8	5.3	0.674	0.876	0.0920	
15 minute winter	7	3.000	8	2.5	0.402	0.312	0.0699	
15 minute winter	8	2.002	10	10.8	1.376	1.524	0.0792	
60 minute winter	9	4.000	10	1.8	0.777	0.072	0.1475	
60 minute winter	10	2.003	12	10.5	0.480	0.110	0.2655	
60 minute winter	11	5.000	12	2.0	0.573	0.327	0.1757	
60 minute winter	12	1.004	16	4.7	0.389	0.129	0.4577	
60 minute winter	13	6.000	16	2.0	0.330	0.256	0.2160	
15 minute winter	14	7.000	15	3.3	0.631	0.287	0.1218	
15 minute winter	15	7.001	16	6.9	1.007	0.903	0.0166	
60 minute winter	16	1.005	C01	5.0	1.647	0.100	0.0067	45.6