

Design Settings

Frequency of use (kDU)	0.50	Minimum Velocity (m/s)	1.00
Flow per dwelling per day (l/day)	4000	Connection Type	Level Soffits
Domestic Flow (l/s/ha)	0.0	Minimum Backdrop Height (m)	0.200
Industrial Flow (l/s/ha)	0.0	Preferred Cover Depth (m)	1.200
Additional Flow (%)	0	Include Intermediate Ground	✓

Nodes

Name	Dwellings	Cover Level (m)	Diameter (mm)	Easting (m)	Northing (m)	Depth (m)
EXISTING 1	1	28.100	600	381826.903	394309.426	0.800
F1	1	28.100	600	381825.968	394308.280	0.850
F2		27.800	600	381822.620	394307.749	0.612
F3		27.825	600	381818.713	394300.248	0.743
F4		28.005	600	381820.843	394298.925	0.954
F5		28.080	600	381830.471	394297.901	1.150
F6		28.080	600	381836.120	394297.636	1.221
C1		28.110	1200	381839.422	394300.995	1.310
EXISTING 2		28.050	1200	381847.827	394302.688	1.530

Links

Name	US Node	DS Node	Length (m)	ks (mm) / n	US IL (m)	DS IL (m)	Fall (m)	Slope (1:X)	Dia (mm)
1.000	EXISTING 1	F1	1.479	1.500	27.300	27.250	0.050	29.6	100
1.001	F1	F2	3.390	1.500	27.250	27.188	0.062	54.7	100
1.002	F2	F3	8.458	1.500	27.188	27.082	0.106	79.8	100
1.003	F3	F4	2.507	1.500	27.082	27.051	0.031	80.9	100
1.004	F4	F5	9.682	1.500	27.051	26.930	0.121	80.0	100
1.005	F5	F6	5.655	1.500	26.930	26.859	0.071	79.7	100
1.006	F6	C1	4.710	1.500	26.859	26.800	0.059	79.8	100
1.007	C1	EXISTING 2	8.574	1.500	26.800	26.520	0.280	30.6	100

Name	Pro Vel @ 1/3 Q (m/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)	US Depth (m)	DS Depth (m)	Σ Area (ha)	Σ Dwellings (ha)	Σ Units (ha)	Σ Add Inflow (ha)	Pro Depth (mm)	Pro Velocity (m/s)
1.000	0.207	1.227	9.6	0.0	0.700	0.750	0.000	1	0.0	0.0	5	0.278
1.001	0.203	0.901	7.1	0.1	0.750	0.512	0.000	2	0.0	0.0	8	0.293
1.002	0.187	0.745	5.8	0.1	0.512	0.643	0.000	2	0.0	0.0	9	0.258
1.003	0.186	0.740	5.8	0.1	0.643	0.854	0.000	2	0.0	0.0	9	0.256
1.004	0.187	0.744	5.8	0.1	0.854	1.050	0.000	2	0.0	0.0	9	0.258
1.005	0.187	0.745	5.9	0.1	1.050	1.121	0.000	2	0.0	0.0	9	0.258
1.006	0.187	0.745	5.8	0.1	1.121	1.210	0.000	2	0.0	0.0	9	0.258
1.007	0.239	1.205	9.5	0.1	1.210	1.430	0.000	2	0.0	0.0	7	0.365

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	1.479	29.6	100	Circular	28.100	27.300	0.700	28.100	27.250	0.750
1.001	3.390	54.7	100	Circular	28.100	27.250	0.750	27.800	27.188	0.512
1.002	8.458	79.8	100	Circular	27.800	27.188	0.512	27.825	27.082	0.643
1.003	2.507	80.9	100	Circular	27.825	27.082	0.643	28.005	27.051	0.854
1.004	9.682	80.0	100	Circular	28.005	27.051	0.854	28.080	26.930	1.050
1.005	5.655	79.7	100	Circular	28.080	26.930	1.050	28.080	26.859	1.121
1.006	4.710	79.8	100	Circular	28.080	26.859	1.121	28.110	26.800	1.210
1.007	8.574	30.6	100	Circular	28.110	26.800	1.210	28.050	26.520	1.430

Link	US Node	Dia (mm)	Node Type	MH Type	DS Node	Dia (mm)	Node Type	MH Type
1.000	EXISTING 1	600	Manhole	Adoptable	F1	600	Manhole	Adoptable
1.001	F1	600	Manhole	Adoptable	F2	600	Manhole	Adoptable
1.002	F2	600	Manhole	Adoptable	F3	600	Manhole	Adoptable
1.003	F3	600	Manhole	Adoptable	F4	600	Manhole	Adoptable
1.004	F4	600	Manhole	Adoptable	F5	600	Manhole	Adoptable
1.005	F5	600	Manhole	Adoptable	F6	600	Manhole	Adoptable
1.006	F6	600	Manhole	Adoptable	C1	1200	Manhole	Adoptable
1.007	C1	1200	Manhole	Adoptable	EXISTING 2	1200	Manhole	Adoptable

Simulation Settings

Analysis Speed	Normal	Drain Down Time (mins)	240
Skip Steady State	x	Foul Event Duration (mins)	30

Storm Durations

15	30	60	120	180	240	360	480	600	720	960	1440
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Results for Foul Event 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
Foul Event	EXISTING 1	1	27.300	0.000	0.0	0.0000	0.0000	OK
Foul Event	F1	1	27.250	0.000	0.0	0.0000	0.0000	OK
Foul Event	F2	1	27.188	0.000	0.0	0.0000	0.0000	OK
Foul Event	F3	1	27.082	0.000	0.0	0.0000	0.0000	OK
Foul Event	F4	1	27.051	0.000	0.0	0.0000	0.0000	OK
Foul Event	F5	1	26.930	0.000	0.0	0.0000	0.0000	OK
Foul Event	F6	1	26.859	0.000	0.0	0.0000	0.0000	OK
Foul Event	C1	1	26.800	0.000	0.0	0.0000	0.0000	OK
Foul Event	EXISTING 2	1	26.520	0.000	0.0	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)
Foul Event	EXISTING 1	1.000	F1	0.0	0.000	0.000	0.0000	
Foul Event	F1	1.001	F2	0.0	0.000	0.000	0.0000	
Foul Event	F2	1.002	F3	0.0	0.000	0.000	0.0000	
Foul Event	F3	1.003	F4	0.0	0.000	0.000	0.0000	
Foul Event	F4	1.004	F5	0.0	0.000	0.000	0.0000	
Foul Event	F5	1.005	F6	0.0	0.000	0.000	0.0000	
Foul Event	F6	1.006	C1	0.0	0.000	0.000	0.0000	
Foul Event	C1	1.007	EXISTING 2	0.0	0.000	0.000	0.0000	0.0