



Design Settings

Frequency of use (kDU)	0.50	Minimum Velocity (m/s)	0.75
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)	Manhole Type	Easting (m)	Northing (m)	Depth (m)
F1	4	160.468	Adoptable	407470.243	341875.981	2.118
F2		159.154	Adoptable	407484.833	341885.315	2.004
F3	8	156.538	Adoptable	407515.983	341890.493	2.338
F4		154.665	Adoptable	407536.184	341899.967	2.315
F5		153.882	Adoptable	407545.653	341901.790	2.332
F6	6	151.508	Adoptable	407577.609	341902.214	2.308
F7	3	150.188	Adoptable	407604.221	341899.214	1.538
F8	1	149.915	Adoptable	407603.705	341888.169	1.365
F9		149.790	Adoptable	407609.701	341879.250	1.340
F10		149.200	Adoptable	407622.926	341873.858	0.870

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	F1	F2	17.320	1.500	158.350	157.150	1.200	14.4	150
1.001	F2	F3	31.577	1.500	157.150	154.200	2.950	10.7	150
1.002	F3	F4	22.312	1.500	154.200	152.350	1.850	12.1	150
1.003	F4	F5	9.643	1.500	152.350	151.550	0.800	12.1	150
1.004	F5	F6	31.959	1.500	151.550	149.200	2.350	13.6	150
1.005	F6	F7	26.781	1.500	149.200	148.650	0.550	48.7	150
1.006	F7	F8	11.057	1.500	148.650	148.550	0.100	110.6	150
1.007	F8	F9	10.747	1.500	148.550	148.450	0.100	107.5	150
1.008	F9	F10	14.282	1.500	148.450	148.330	0.120	119.0	150

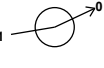
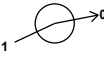
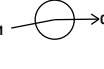
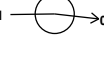
Name	Pro Vel @ 1/3 Q (m/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)	US Depth (m)	DS Depth (m)	Σ Area (ha)	Σ Dwellings (ha)	Σ Units (ha)	Σ Add Inflow (ha)	Pro Depth (mm)	Pro Velocity (m/s)
1.000	0.359	2.314	40.9	0.2	1.968	1.854	0.000	4	0.0	0.0	7	0.533
1.001	0.418	2.687	47.5	0.2	1.854	2.188	0.000	4	0.0	0.0	7	0.620
1.002	0.584	2.531	44.7	0.6	2.188	2.165	0.000	12	0.0	0.0	12	0.837
1.003	0.584	2.532	44.7	0.6	2.165	2.182	0.000	12	0.0	0.0	12	0.837
1.004	0.550	2.384	42.1	0.6	2.182	2.158	0.000	12	0.0	0.0	13	0.815
1.005	0.414	1.257	22.2	0.8	2.158	1.388	0.000	18	0.0	0.0	20	0.592
1.006	0.327	0.833	14.7	1.0	1.388	1.215	0.000	21	0.0	0.0	26	0.462
1.007	0.340	0.845	14.9	1.0	1.215	1.190	0.000	22	0.0	0.0	27	0.475
1.008	0.323	0.802	14.2	1.0	1.190	0.720	0.000	22	0.0	0.0	27	0.458

Pipeline Schedule

Link	Length (m)	Slope (1:X)	Dia (mm)	US CL (m)	US IL (m)	US Depth (m)	DS CL (m)	DS IL (m)	DS Depth (m)
1.000	17.320	14.4	150	160.468	158.350	1.968	159.154	157.150	1.854
1.001	31.577	10.7	150	159.154	157.150	1.854	156.538	154.200	2.188
1.002	22.312	12.1	150	156.538	154.200	2.188	154.665	152.350	2.165
1.003	9.643	12.1	150	154.665	152.350	2.165	153.882	151.550	2.182
1.004	31.959	13.6	150	153.882	151.550	2.182	151.508	149.200	2.158
1.005	26.781	48.7	150	151.508	149.200	2.158	150.188	148.650	1.388
1.006	11.057	110.6	150	150.188	148.650	1.388	149.915	148.550	1.215
1.007	10.747	107.5	150	149.915	148.550	1.215	149.790	148.450	1.190
1.008	14.282	119.0	150	149.790	148.450	1.190	149.200	148.330	0.720

Link	US Node	Dia (mm)	DS Node	Dia (mm)
1.000	F1	1200	F2	1200
1.001	F2	1200	F3	1200
1.002	F3	1200	F4	1200
1.003	F4	1200	F5	1200
1.004	F5	1200	F6	1200
1.005	F6	1200	F7	1200
1.006	F7	1200	F8	1200
1.007	F8	1200	F9	1200
1.008	F9	1200	F10	1200

Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)
F1	407470.243	341875.981	160.468	2.118	1200				
						0	1.000	158.350	150
F2	407484.833	341885.315	159.154	2.004	1200		1	1.000	157.150
						0	1.001	157.150	150
F3	407515.983	341890.493	156.538	2.338	1200		1	1.001	154.200
						0	1.002	154.200	150
F4	407536.184	341899.967	154.665	2.315	1200		1	1.002	152.350
						0	1.003	152.350	150
F5	407545.653	341901.790	153.882	2.332	1200		1	1.003	151.550
						0	1.004	151.550	150
F6	407577.609	341902.214	151.508	2.308	1200		1	1.004	149.200
						0	1.005	149.200	150



Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)
F7	407604.221	341899.214	150.188	1.538	1200		1 1.005	148.650	150
F8	407603.705	341888.169	149.915	1.365	1200		0 1 1.006	148.650 148.550	150 150
F9	407609.701	341879.250	149.790	1.340	1200		1 1.007	148.450	150
F10	407622.926	341873.858	149.200	0.870	1200		0 1 1.008	148.450 148.330	150 150

Simulation Settings

Analysis Speed	Normal	Drain Down Time (mins)	240
Skip Steady State	x	Foul Event Duration (mins)	60

Storm Durations

15 | 30 | 60 | 120 | 180 | 240 | 360 | 480 | 600 | 720 | 960 | 1440

Results for Foul Event Critical Storm Duration. Lowest mass balance: 91.95%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
Foul Event	F1	3	158.359	0.008	0.2	0.0096	0.0000	OK
Foul Event	F2	6	157.157	0.007	0.2	0.0082	0.0000	OK
Foul Event	F3	8	154.212	0.012	0.6	0.0140	0.0000	OK
Foul Event	F4	8	152.362	0.012	0.6	0.0140	0.0000	OK
Foul Event	F5	9	151.563	0.013	0.6	0.0143	0.0000	OK
Foul Event	F6	16	149.221	0.021	0.9	0.0235	0.0000	OK
Foul Event	F7	186	149.028	0.378	1.0	0.4277	0.0000	SURCHARGED
Foul Event	F8	264	149.028	0.478	1.0	0.5406	0.0000	SURCHARGED
Foul Event	F9	199	149.028	0.578	1.0	0.6538	0.0000	SURCHARGED
Foul Event	F10	229	149.028	0.698	1.0	0.7898	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	F1	1.000	F2	0.2	0.819	0.005	0.0057	
Foul Event	F2	1.001	F3	0.2	0.446	0.004	0.0156	
Foul Event	F3	1.002	F4	0.6	0.950	0.013	0.0153	
Foul Event	F4	1.003	F5	0.6	0.991	0.013	0.0067	
Foul Event	F5	1.004	F6	0.6	0.587	0.014	0.0348	
Foul Event	F6	1.005	F7	0.9	0.506	0.041	0.2554	
Foul Event	F7	1.006	F8	1.0	0.470	0.069	0.1947	
Foul Event	F8	1.007	F9	1.0	0.479	0.067	0.1892	
Foul Event	F9	1.008	F10	1.0	0.458	0.070	0.2514	0.0