

Design Settings

Frequency of use (kDU)	1.00	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)
1	10	116.924	Adoptable	414573.098	415412.626	2.024
2	20	112.572	Adoptable	414627.743	415380.302	2.072
3		111.200	Adoptable	414644.102	415407.957	1.350
4		111.229	Adoptable	414642.898	415414.181	1.429
5		111.850	Adoptable	414558.162	415463.801	2.850
6		109.600	Adoptable	414567.223	415478.185	1.350
7		109.550	Adoptable	414570.209	415479.021	1.350

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	1	2	63.490	1.500	114.900	110.500	4.400	14.4	150
1.001	2	3	32.131	1.500	110.500	109.850	0.650	49.4	150
1.002	3	4	6.339	1.500	109.850	109.800	0.050	126.8	150
1.003	4	5	98.195	1.500	109.800	109.000	0.800	122.7	150
1.004	5	6	17.000	1.500	109.000	108.250	0.750	22.7	150
1.005	6	7	3.101	1.500	108.250	108.200	0.050	62.0	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	0.501	2.314	40.9	0.5	1.874	1.922	0.000	10	0.0	0.0	11	0.738
1.001	0.492	1.248	22.0	1.4	1.922	1.200	0.000	30	0.0	0.0	25	0.684
1.002	0.351	0.777	13.7	1.4	1.200	1.279	0.000	30	0.0	0.0	33	0.495
1.003	0.356	0.790	14.0	1.4	1.279	2.700	0.000	30	0.0	0.0	32	0.498
1.004	0.630	1.845	32.6	1.4	2.700	1.200	0.000	30	0.0	0.0	21	0.903
1.005	0.450	1.113	19.7	1.4	1.200	1.200	0.000	30	0.0	0.0	27	0.636

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	63.490	14.4	150	Circular	116.924	114.900	1.874	112.572	110.500	1.922
1.001	32.131	49.4	150	Circular	112.572	110.500	1.922	111.200	109.850	1.200
1.002	6.339	126.8	150	Circular	111.200	109.850	1.200	111.229	109.800	1.279
1.003	98.195	122.7	150	Circular	111.229	109.800	1.279	111.850	109.000	2.700
1.004	17.000	22.7	150	Circular	111.850	109.000	2.700	109.600	108.250	1.200

Link	US Node	Dia (mm)	Node Type	MH Type	DS Node	Dia (mm)	Node Type	MH Type
1.000	1	1200	Manhole	Adoptable	2	1200	Manhole	Adoptable
1.001	2	1200	Manhole	Adoptable	3	1200	Manhole	Adoptable
1.002	3	1200	Manhole	Adoptable	4	1200	Manhole	Adoptable
1.003	4	1200	Manhole	Adoptable	5	1200	Manhole	Adoptable
1.004	5	1200	Manhole	Adoptable	6	1200	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)
1.005	3.101	62.0	150	Circular	109.600	108.250	1.200	109.550	108.200	1.200

Link	US Node	Dia (mm)	Node Type	MH Type	DS Node	Dia (mm)	Node Type	MH Type
1.005	6	1200	Manhole	Adoptable	7	1200	Manhole	Adoptable

Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)
1	414573.098	415412.626	116.924	2.024	1200				
						0	1.000	114.900	150
2	414627.743	415380.302	112.572	2.072	1200		1	1.000	110.500
						0	1.001	110.500	150
3	414644.102	415407.957	111.200	1.350	1200		1	1.001	109.850
						0	1.002	109.850	150
4	414642.898	415414.181	111.229	1.429	1200		1	1.002	109.800
						0	1.003	109.800	150
5	414558.162	415463.801	111.850	2.850	1200		1	1.003	109.000
						0	1.004	109.000	150
6	414567.223	415478.185	109.600	1.350	1200		1	1.004	108.250
						0	1.005	108.250	150
7	414570.209	415479.021	109.550	1.350	1200		1	1.005	108.200
									150

Simulation Settings

Analysis Speed	Detailed	Drain Down Time (mins)	240
Skip Steady State	✓	Foul Event Duration (mins)	3600

Storm Durations

15	60	180	360	600	960	2160	4320
30	120	240	480	720	1440	2880	

Pre-development Discharge Rate

Site Makeup	Greenfield	SPR	0.10	Betterment (%)	0
Greenfield Method	IH124	Region	1	QBar	
Positively Drained Area (ha)		Growth Factor 1 year	0.85	Q 1 year (l/s)	
SAAR (mm)		Growth Factor 30 year	1.95	Q 30 year (l/s)	
Soil Index	1	Growth Factor 100 year	2.48	Q 100 year (l/s)	

Pre-development Discharge Volume

Site Makeup	Greenfield	SPR	0.10	Storm Duration (mins)	360
Greenfield Method	FSR/FEH	CWI		Betterment (%)	0
Positively Drained Area (ha)		Return Period (years)	100	PR	
Soil Index	1	Climate Change (%)	0	Runoff Volume (m ³)	