

Design Settings

Frequency of use (kDU)	1.00	Additional Flow (%)	0	Preferred Cover Depth (m)	1.200
Flow per dwelling per day (l/day)	4000	Minimum Velocity (m/s)	0.75	Include Intermediate Ground	✓
Domestic Flow (l/s/ha)	225.0	Connection Type	Level Soffits		
Industrial Flow (l/s/ha)	0.0	Minimum Backdrop Height (m)	0.200		

Nodes

Name	Dwellings	Add Inflow (l/s)	Cover Level (m)	Manhole Type	Depth (m)
89	2	5.7	10.108	Adoptable	1.293
91	7		10.148	Adoptable	1.485
93	36		10.341	Adoptable	1.455
95	10		10.250	Adoptable	1.423
97	2		10.036	Adoptable	1.545
99	10		10.080	Adoptable	1.981
101	14		10.224	Adoptable	2.124
103	12		10.423	Adoptable	2.512
105	11		10.144	Adoptable	2.729
107	7		9.614	Adoptable	1.814
109	3		9.901	Adoptable	2.641
111	13		9.722	Adoptable	1.562
113	10		9.441	Adoptable	1.712
115	5		9.481	Adoptable	1.893
117	0		9.125	Adoptable	1.634
119	0		8.841	Adoptable	1.590
121	2		9.614	Adoptable	2.572
EXFMH-7703			9.570	Adoptable	2.670

Links

Name	US Node	DS Node	Length (m)	US IL (m)	DS IL (m)	Slope (1:X)	Dia (mm)
1.000	89	91	22.740	8.815	8.663	149.6	150
1.001	91	97	25.788	8.663	8.491	149.9	150
2.000	93	95	8.833	8.886	8.827	149.7	150
2.001	95	97	50.383	8.827	8.491	149.9	150
1.002	97	99	58.740	8.491	8.099	149.8	150
1.003	99	103	28.077	8.099	7.911	149.3	150
3.000	101	103	27.198	8.100	7.911	143.9	150
1.004	103	105	74.323	7.911	7.415	149.8	150
1.005	105	109	23.142	7.415	7.260	149.3	150
4.000	107	109	30.492	7.800	7.260	56.5	150
1.006	109	121	32.656	7.260	7.042	149.8	150
5.000	111	113	64.386	8.160	7.729	149.4	150
5.001	113	115	21.133	7.729	7.588	149.9	150

Name	Pro Vel @ 1/3 Q (m/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)	Σ Area (ha)	Σ Dwellings (ha)	Σ Units (ha)	Σ Add Inflow (ha)	Pro Depth (mm)	Pro Velocity (m/s)
1.000	0.512	0.715	12.6	5.8	0.000	2	0.0	5.7	71	0.699
1.001	0.521	0.714	12.6	6.1	0.000	9	0.0	5.7	74	0.708
2.000	0.355	0.715	12.6	1.7	0.000	36	0.0	0.0	37	0.494
2.001	0.379	0.714	12.6	2.1	0.000	46	0.0	0.0	42	0.529
1.002	0.570	0.714	12.6	8.3	0.000	57	0.0	5.7	89	0.763
1.003	0.583	0.716	12.6	8.8	0.000	67	0.0	5.7	92	0.774
3.000	0.263	0.729	12.9	0.6	0.000	14	0.0	0.0	23	0.374
1.004	0.600	0.714	12.6	10.0	0.000	93	0.0	5.7	100	0.792
1.005	0.612	0.716	12.6	10.5	0.000	104	0.0	5.7	105	0.801
4.000	0.283	1.167	20.6	0.3	0.000	7	0.0	0.0	13	0.410
1.006	0.618	0.715	12.6	11.0	0.000	114	0.0	5.7	108	0.805
5.000	0.258	0.716	12.6	0.6	0.000	13	0.0	0.0	23	0.361
5.001	0.309	0.714	12.6	1.1	0.000	23	0.0	0.0	30	0.429

Links

Name	US Node	DS Node	Length (m)	US IL (m)	DS IL (m)	Slope (1:X)	Dia (mm)
5.002	115	117	14.453	7.588	7.491	149.0	150
5.003	117	119	35.963	7.491	7.251	149.8	150
5.004	119	121	31.293	7.251	7.042	149.7	150
1.007	121	EXFMH-7703	21.230	7.042	6.900	149.5	150

Name	Pro Vel @ 1/3 Q (m/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)	Σ Area (ha)	Σ Dwellings (ha)	Σ Units (ha)	Σ Add Inflow (ha)	Pro Depth (mm)	Pro Velocity (m/s)
5.002	0.323	0.716	12.7	1.3	0.000	28	0.0	0.0	33	0.457
5.003	0.322	0.714	12.6	1.3	0.000	28	0.0	0.0	33	0.455
5.004	0.322	0.715	12.6	1.3	0.000	28	0.0	0.0	33	0.455
1.007	0.638	0.715	12.6	12.4	0.000	144	0.0	5.7	120	0.816

Simulation Settings

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

Storm Durations

15	30	60	120	180	240	360	480	600	720	960	1440
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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 years	1.95	Q 30 year (l/s)	
Soil Index	1	Growth Factor 100 years	2.48	Q 100 year (l/s)	



Banners Gate Limited
10-11 Birmingham Street
Halesowen
B63 3HN

File: PHASE 1 - FW NETWORK 02 - 202
Network: Foul Network 2
Oliver Bayley
18/07/2022

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PHASE 1 - SOUTHERN SITE
Foul Water - Network 02

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 (m³)	