

Woods Hardwick		Page 0
15-17 Goldington Road	FWS Net 1	
Bedford	17748 Yapton Road	
MK40 3NH	Barnham	
Date 28/08/2019 12:12	Designed by c.smith	
File FW BARNHAM 170719.MDX	Checked by	
Micro Drainage	Network 2018.1.1	

FOUL SEWERAGE DESIGN			
Design Criteria for FWS BARNHAM 090719.FWS			
Pipe Sizes STANDARD Manhole Sizes STANDARD			
Industrial Flow (l/s/ha)	0.00	Add Flow / Climate Change (%)	10
Industrial Peak Flow Factor	0.00	Minimum Backdrop Height (m)	0.200
Flow Per Person (l/per/day)	225.00	Maximum Backdrop Height (m)	0.000
Persons per House	3.00	Min Design Depth for Optimisation (m)	1.200
Domestic (l/s/ha)	0.00	Min Vel for Auto Design only (m/s)	0.75
Domestic Peak Flow Factor	6.00	Min Slope for Optimisation (1:X)	500
Designed with Level Soffits			

Network Design Table for FWS BARNHAM 090719.FWS											
PN	Length (m)	Fall (m)	Slope (1:X)	Area (ha)	Houses	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)	Section Type	Auto Design
1.000	39.000	0.260	150.0	0.000	24	0.0	1.500	o	150	Pipe/Conduit	
1.001	47.507	0.320	148.5	0.000	9	0.0	1.500	o	150	Pipe/Conduit	
1.002	26.541	0.129	205.7	0.000	5	0.0	1.500	o	150	Pipe/Conduit	
Network Results Table											
PN	US/IL (m)	Σ Area (ha)	Σ Base Flow (l/s)	Σ Hse	Add Flow (l/s)	P.Dep (mm)	P.Vel (m/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)	
1.000	7.200	0.000	0.0	24	0.1	32	0.45	0.71	12.6	1.2	
1.001	6.940	0.000	0.0	33	0.2	37	0.50	0.72	12.7	1.7	
1.002	6.620	0.000	0.0	38	0.2	44	0.46	0.61	10.8	2.0	

Free Flowing Outfall Details for FWS BARNHAM 090719.FWS								
Outfall Pipe Number	Outfall Name	C. Level (m)	I. Level (m)	Min I. Level (m)	D,L (mm)	W (mm)		
1.002	4	8.564	6.491	0.000	0	0		