

Preece Consultants		Page 1
11 Hawthorn Drive Towcester NN12 7AE	Roseway Stoke Golding	
Date 01.12.22 File 1716.SIM	Designed By ndp Checked By	
Micro Drainage	Simulation W.11.2	

Global Variables

Region	FSR - England & Wales
Return Period (yrs)	30
M5-60 (mm)	19.000
Ratio R	0.400
Volumetric Runoff Coef	0.750
Profile Type	Summer
PIMP (%)	100
Areal Reduction Factor	1.000
Storm Duration (mins)	600
Hot Start (mins)	0
Hot Start Level (mm)	0
Manhole Headloss Coefficient	0.500
MADD Factor * 10m ³ /ha Storage	0.000
Foul Sewage/Hectare (l/s)	0.00
Additional Flow - % of Total Flow	0
Number of Input Hydrographs	0
Number of Time/Area Diagrams	0
Number of Bifurcations	0
Number of Overflows	0
Number of Off-Line Controls	0
Number of On-Line Controls	1

Starting Storm file name

P:\DATA\1716.SWS

Freely Discharging Outfalls

Outfall Pipe Number	Outfall MH/No	C.Level (m)	I.Level (m)	D,L (mm)	B (mm)
1.010	1402	102.910	100.930	1200	0

Preece Consultants		Page 2
11 Hawthorn Drive Towcester NN12 7AE	Roseway Stoke Golding	
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On-Line Controls (Head/Flow)

US/PN	Volume (m ³)	Ctrl MH Name	Invert (m)	Headloss (m)	Flow (l/s)
1.008	0.748	12	104.450	0.1	5.6650
				0.2	11.6810
				0.3	12.2440
				0.4	12.2510
				0.5	12.0470
				0.6	11.7150
				0.7	11.0410
				0.8	10.3670
				0.9	10.9570
				1.0	11.5130
				1.2	12.5470
				1.4	13.0310
				1.6	13.0310
				1.8	13.0310
				2.0	13.0310
				2.2	13.0310

Storage Pond at pipe 1.007 USMH HW1

Storage Pond Invert Level (m) 104.510

Depth (m)	Area (m ²)	Depth (m)	Area (m ²)	Depth (m)	Area (m ²)	Depth (m)	Area (m ²)	Depth (m)	Area (m ²)	Depth (m)	Area (m ²)
0.0	510.0	0.5	660.0	1.0	830.0	1.5	1010.0	2.0	0.0	2.5	0.0
0.1	535.0	0.6	700.0	1.1	865.0	1.6	0.0	2.1	0.0		
0.2	565.0	0.7	730.0	1.2	900.0	1.7	0.0	2.2	0.0		
0.3	600.0	0.8	760.0	1.3	935.0	1.8	0.0	2.3	0.0		
0.4	630.0	0.9	800.0	1.4	975.0	1.9	0.0	2.4	0.0		

Preece Consultants		Page 4
11 Hawthorn Drive Towcester NN12 7AE	Roseway Stoke Golding	
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Summary of Results

	Return Period (years)	30	Analysis Time Step		Fine		
	Storm Duration (mins)	600	DTS Status		ON		
	Profile Type	Summer	DVD Status		OFF		
	Margin for Flood Risk warning (mm)	300	Inertia Status		OFF		
PN	Water Lev. (m)	Surcharged Depth (m)	Flooded Vol (m³)	Flow/ Capacity	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	109.260	-0.240	0.000	0.09	0.0	7.0	0 K
1.001	109.130	-0.230	0.000	0.12	0.0	9.9	0 K
1.002	108.905	-0.280	0.000	0.15	0.0	16.7	0 K
1.003	108.825	-0.275	0.000	0.16	0.0	26.8	0 K
2.000	108.750	-0.250	0.000	0.07	0.0	4.3	0 K
2.001	108.622	-0.228	0.000	0.13	0.0	8.5	0 K
1.004	108.312	-0.373	0.000	0.07	0.0	40.9	0 K
1.005	106.228	-0.372	0.000	0.07	0.0	47.0	0 K
3.000	106.327	-0.173	0.000	0.12	0.0	5.2	0 K
3.001	106.015	-0.185	0.000	0.07	0.0	8.9	0 K
1.006	104.994	-0.206	0.000	0.33	0.0	59.1	0 K
1.007	104.992	-0.789	0.000	0.01	0.0	19.2	0 K
1.008	105.023	0.073	0.000	0.08	0.0	13.9	SURCH'ED
1.009	105.042	0.142	0.000	0.04	0.0	12.2	SURCH'ED
1.010	104.236	-0.414	0.000	0.02	0.0	13.0	0 K