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45 Bridgeman Terrace Wigan WN1 1TT	LEEK ROAD BUXTON VOLUMES	
Date 11/12/2017 File sw.mdx	Designed by GWH Checked by	
XP Solutions	Network 2017.1.2	

Summary of Critical Results by Maximum Level (Rank 1) for SW.SWS

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m ³ /ha Storage	2.000
Hot Start Level (mm)	0	Inlet Coeffiecient	0.800
Manhole Headloss Coefff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

Synthetic Rainfall Details

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Margin for Flood Risk Warning (mm) 300.0      DVD Status   ON
      Analysis Timestep   Fine Inertia Status OFF
            DTS Status    OFF
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								Water	Surcharged	Flooded	
	US/MH		Climate	First (X)	First (Y)	First (Z)	Overflow	Level	Depth	Volume	Flow /
PN	Name	Storm	Change	Surcharge	Flood	Overflow	Act.	(m)	(m)	(m³)	Cap.
1.000	1	15 Winter	+40%					356.530	-0.093	0.000	0.30
1.001	2	15 Winter	+40%					353.165	-0.151	0.000	0.23
1.002	3	15 Winter	+40%					351.624	-0.092	0.000	0.64
1.003	4	60 Winter	+40%					348.030	-0.735	0.000	0.02
2.000	5	15 Winter	+40%					365.756	-0.094	0.000	0.29
2.001	6	15 Winter	+40%					361.067	-0.158	0.000	0.19
2.002	7	15 Winter	+40%					357.188	-0.143	0.000	0.28
2.003	8	15 Winter	+40%					354.102	-0.128	0.000	0.38
2.004	9	15 Winter	+40%					351.727	-0.101	0.000	0.58
1.004	10	60 Winter	+40%					348.029	-0.659	0.000	0.05
1.005	11	60 Winter	+40%					348.016	-0.562	0.000	0.05
1.006	12	60 Winter	+40%					348.000	-0.462	0.000	0.05
3.000	13	15 Winter	+40%					357.675	-0.044	0.000	0.83
3.001	14	15 Winter	+40%					357.202	-0.143	0.000	0.28
3.002	15	15 Winter	+40%					355.917	-0.128	0.000	0.38
4.000	16	15 Winter	+40%					363.063	-0.087	0.000	0.36
4.001	17	15 Winter	+40%					360.814	-0.151	0.000	0.24
4.002	18	15 Winter	+40%					358.574	-0.133	0.000	0.35
4.003	19	15 Winter	+40%					356.652	-0.209	0.000	0.20
3.003	20	15 Winter	+40%					354.131	-0.164	0.000	0.42
3.004	21	15 Winter	+40%					350.906	-0.239	0.000	0.28
3.005	22	15 Winter	+40%					349.046	-0.207	0.000	0.42

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Summary of Critical Results by Maximum Level (Rank 1) for SW.SWS

PN	US/MH Name	Overflow (l/s)	Pipe Flow (l/s)	Level Exceeded	Status
1.000	1		17.9	OK	
1.001	2		33.0	OK	
1.002	3		47.9	OK	
1.003	4		38.4	OK	
2.000	5		17.9	OK	
2.001	6		33.0	OK	
2.002	7		47.9	OK	
2.003	8		63.1	OK	
2.004	9		78.5	OK	
1.004	10		94.0	OK	
1.005	11		97.2	OK	
1.006	12		91.0	OK	
3.000	13		17.7	OK	
3.001	14		32.8	OK	
3.002	15		48.0	OK	
4.000	16		17.9	OK	
4.001	17		33.0	OK	
4.002	18		47.9	OK	
4.003	19		63.2	OK	
3.003	20		126.8	OK	
3.004	21		142.1	OK	
3.005	22		157.3	OK	

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Summary of Critical Results by Maximum Level (Rank 1) for SW.SWS

PN	US/MH Name	Storm	Climate Change	First (X) Surcharge	First (Y) Flood	First (Z) Overflow	Overflow Act.	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.
1.007	23	60 Winter	+40%					347.983	-0.333	0.000	0.09
1.008	24	60 Winter	+40%					347.934	-0.249	0.000	0.08
5.000	25	15 Winter	+40%					354.204	-0.093	0.000	0.30
5.001	26	60 Winter	+40%					347.893	-0.325	0.000	0.01
5.002	27	60 Winter	+40%					347.893	-0.233	0.000	0.01
1.009	28	60 Winter	+40%					347.892	-0.185	0.000	0.06
1.010	29	60 Winter	+40%	+0%/15 Summer				347.813	0.717	0.000	0.73

		Pipe			
PN	US/MH Name	Overflow (l/s)	Flow (l/s)	Status	Level Exceeded
1.007	23		169.6	OK	
1.008	24		140.7	OK	
5.000	25		17.9	OK	
5.001	26		15.0	OK	
5.002	27		15.1	OK	
1.009	28		111.0	OK	
1.010	29		78.6	SURCHARGED	