Summary of Critical Results by Maximum Level (Rank 1) for PRELIM DESIGN 2.SWS

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	0.000
Hot Start Level (mm)	0	Inlet Coeffiecient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

Number of Input Hydrographs	0	Number of Storage Structures	2
Number of Online Controls	2	Number of Time/Area Diagrams	0
Number of Offline Controls	0	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.326
Return Period (years)	30	Cv (Summer)	0.750
Region	England and Wales	Cv (Winter)	0.840
M5-60 (mm)	19.000		

Margin for Flood Risk Warning (mm)	300.0
Analysis Timestep	2.5 Second Increment (Extended)
DTS Status	ON
DVD Status	ON
Inertia Status	ON

Profile(s)	Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720
Sensitivity flows(s) (%)	0

PN	US/MH Name	Storm	Climate Change	First (X) Surcharge	First (Y) Flood	First (Z) Overflow	Overflow Act.	Water Level (m)
S1.000	S1	15 Winter	+0%					183.693
S1.001	S2	15 Winter	+0%					181.689
S2.000	S18	15 Winter	+0%					180.909
S1.002	S3	15 Winter	+0%					180.684
S1.003	S4	15 Winter	+0%					179.265
S1.004	S5	15 Winter	+0%					177.629
S1.005	S6	240 Winter	+0%	+0%/15 Winter				176.466
S1.006	S7	15 Winter	+0%					175.338
S1.007	S8	15 Winter	+0%					174.737
S1.008	S9	15 Winter	+0%					174.233
S3.000	S19	15 Winter	+0%					175.481
S3.001	S20	15 Winter	+0%					174.564
S1.009	S10	15 Winter	+0%					173.667
S1.010	S11	15 Winter	+0%					172.897
S4.000	S21	15 Winter	+0%					172.341
S1.011	S12	15 Winter	+0%					172.139
S1.012	S13	15 Winter	+0%					170.887
S5.000	S22	15 Winter	+0%					174.853
S5.001	S23	15 Winter	+0%					172.879

Summary of Critical Results by Maximum Level (Rank 1) for PRELIM DESIGN 2.SWS

PN	US/MH Name	Surcharged Depth (m)	Flooded Volume (m^3)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status	Level Exceeded
S1.000	S1	-0.132	0.000	0.36			40.4	OK	
S1.001	S2	-0.131	0.000	0.37			43.0	OK	
S2.000	S18	-0.091	0.000	0.66			34.6	OK	
S1.002	S3	-0.085	0.000	0.70			86.1	OK	
S1.003	S4	-0.148	0.000	0.51			124.0	OK	
S1.004	S5	-0.125	0.000	0.63			155.1	OK	
S1.005	S6	0.673	0.000	0.08			4.1	SURCHARGED	
S1.006	S7	-0.204	0.000	0.23			37.7	OK	
S1.007	S8	-0.205	0.000	0.22			37.7	OK	
S1.008	S9	-0.180	0.000	0.34			59.0	OK	
S3.000	S19	-0.169	0.000	0.14			16.5	OK	
S3.001	S20	-0.140	0.000	0.31			33.3	OK	
S1.009	S10	-0.165	0.000	0.42			92.3	OK	
S1.010	S11	-0.157	0.000	0.46			100.9	OK	
S4.000	S21	-0.153	0.000	0.48			39.9	OK	
S1.011	S12	-0.134	0.000	0.58			146.0	OK	
S1.012	S13	-0.109	0.000	0.72			191.1	OK	
S5.000	S22	-0.112	0.000	0.50			53.3	OK	
S5.001	S23	-0.092	0.000	0.65			83.4	OK	

Summary of Critical Results by Maximum Level (Rank 1) for PRELIM DESIGN 2.SWS

PN	US/MH Name	Storm	Climate Change	First (X) Surcharge	First (Y) Flood	First (Z) Overflow	Overflow Act.	Water Level (m)
S5.002	S24	15 Winter	+0%					170.299
S5.003	S25	15 Winter	+0%					169.325
S6.000	S26	180 Winter	+0%					168.465
S1.013	S14	180 Winter	+0%	+0%/15 Winter				168.466
S1.014	S15	480 Winter	+0%					167.165
S1.015	S16	480 Winter	+0%					166.938

PN	US/MH Name	Surcharged Depth (m)	Flooded Volume (m^3)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status	Level Exceeded
S5.002	S24	-0.058	0.000	0.90			106.2	OK	
S5.003	S25	-0.071	0.000	0.93			106.0	OK	
S6.000	S26	-0.223	0.000	0.01			17.6	OK	
S1.013	S14	0.841	0.000	0.38			14.6	SURCHARGED	
S1.014	S15	-0.385	0.000	0.05			14.6	OK	
S1.015	S16	-0.362	0.000	0.09			14.6	OK	