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XP Solutions Network 2020.1		

Summary of Critical Results by Maximum Level (Rank 1) for STORM WEST

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	10.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	2.000
Hot Start Level (mm)	0	Inlet Coefficient	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	1
Number of Online Controls	1	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	0.350
Region England and Wales Cv (Summer)			0.750
M5-60 (mm)	19.000	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880, 4320, 5760, 7200, 8640, 10080
Return Period(s) (years)	100
Climate Change (%)	40

PN	US/MH Name	Storm	Return Period	Climate Change	First (X) Surchage	First (Y) Flood	First (Z) Overflow	Overflow Act.
S1.000	S1	15 Winter	100	+40%	100/15 Summer			
S1.001	S2	15 Winter	100	+40%	100/15 Summer			
S1.002	S3	15 Winter	100	+40%	100/15 Summer			
S2.000	S4	15 Winter	100	+40%	100/15 Summer			
S3.000	S5	15 Winter	100	+40%	100/15 Summer			
S1.003	S6	15 Winter	100	+40%	100/15 Summer			
S4.000	S7	15 Winter	100	+40%	100/15 Summer	100/15 Summer		
S5.000	S8	15 Winter	100	+40%	100/15 Summer			
S1.004	S9	15 Winter	100	+40%	100/15 Summer			
S6.000	S10	15 Winter	100	+40%	100/15 Summer			
S1.005	S11	15 Winter	100	+40%	100/15 Summer	100/15 Winter		
S7.000	S12	15 Winter	100	+40%	100/15 Summer			
S8.000	S13	15 Winter	100	+40%	100/15 Summer			
S1.006	S14	15 Winter	100	+40%	100/15 Summer			
S9.000	S15	15 Winter	100	+40%	100/15 Summer			
S1.007	S16	15 Winter	100	+40%	100/15 Summer			
S10.000	S17	15 Winter	100	+40%	100/15 Summer			
S11.000	S18	15 Winter	100	+40%	100/15 Summer			

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Summary of Critical Results by Maximum Level (Rank 1) for STORM WEST

PN	US/MH Name	Water Surcharged		Flooded		Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
		Level (m)	Depth (m)	Volume (m³)	Flow / Cap.					
S1.000	S1	16.085	0.387	0.000	0.40				17.1	SURCHARGED
S1.001	S2	16.046	0.629	0.000	0.75				30.7	SURCHARGED
S1.002	S3	15.988	0.732	0.000	0.60				30.1	SURCHARGED
S2.000	S4	15.801	1.099	0.000	0.23				2.8	FLOOD RISK
S3.000	S5	15.807	1.057	0.000	0.22				3.8	FLOOD RISK
S1.003	S6	15.796	1.133	0.000	0.63				50.6	FLOOD RISK
S4.000	S7	15.521	1.130	9.746	1.48				49.3	FLOOD
S5.000	S8	15.681	1.204	0.000	0.35				7.9	FLOOD RISK
S1.004	S9	15.660	1.327	0.000	1.83				65.1	FLOOD RISK
S6.000	S10	15.657	1.085	0.000	0.20				7.3	FLOOD RISK
S1.005	S11	15.639	1.406	0.009	2.38				69.0	FLOOD
S7.000	S12	15.788	1.139	0.000	0.65				22.1	FLOOD RISK
S8.000	S13	15.606	1.050	0.000	0.20				6.9	FLOOD RISK
S1.006	S14	15.586	1.382	0.000	2.51				72.8	FLOOD RISK
S9.000	S15	15.436	1.019	0.000	0.45				13.7	FLOOD RISK
S1.007	S16	15.384	1.209	0.000	1.05				78.9	FLOOD RISK
S10.000	S17	15.213	1.023	0.000	0.46				13.6	FLOOD RISK
S11.000	S18	15.190	1.084	0.000	0.39				8.3	FLOOD RISK

PN	US/MH Name	Level Exceeded
S1.000	S1	
S1.001	S2	
S1.002	S3	
S2.000	S4	
S3.000	S5	
S1.003	S6	
S4.000	S7	5
S5.000	S8	
S1.004	S9	
S6.000	S10	
S1.005	S11	1
S7.000	S12	
S8.000	S13	
S1.006	S14	
S9.000	S15	
S1.007	S16	
S10.000	S17	
S11.000	S18	

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PN	US/MH Name	Storm	Return Period	Climate Change	First (X) Surcharge	First (Y) Flood	First (Z) Overflow	Overflow Act.	
S1.008	S19	15 Winter	100	+40%	100/15 Summer	100/15 Winter			
S12.000	S20	15 Winter	100	+40%	100/15 Summer				
S1.009	S21	15 Winter	100	+40%	100/15 Summer				
S13.000	S22	15 Winter	100	+40%	100/15 Summer				
S1.010	S23	240 Winter	100	+40%	100/15 Summer				
S1.011	S24	240 Winter	100	+40%	100/15 Summer				
S14.000	S25	240 Winter	100	+40%	100/15 Summer				
S1.012	S26	240 Winter	100	+40%	100/15 Summer	100/180 Winter			
S1.013	S27	240 Winter	100	+40%	100/15 Summer	100/180 Winter			
S15.000	S28	180 Winter	100	+40%	100/15 Summer				
S16.000	S29	180 Winter	100	+40%	100/15 Summer				
S1.014	S30	180 Winter	100	+40%	100/15 Summer				
S1.015	S31	360 Winter	100	+40%	100/15 Summer				
PN	US/MH Name	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
S1.008	S19	15.167	1.200	0.113	1.80			113.3	FLOOD
S12.000	S20	14.978	0.885	0.000	0.25			6.9	FLOOD RISK
S1.009	S21	14.968	1.064	0.000	1.27			119.2	FLOOD RISK
S13.000	S22	14.903	1.063	0.000	1.54			27.8	FLOOD RISK
S1.010	S23	14.883	1.140	0.000	0.88			54.1	FLOOD RISK
S1.011	S24	14.879	1.196	0.000	0.76			56.6	FLOOD RISK
S14.000	S25	14.877	1.040	0.000	0.09			2.4	FLOOD RISK
S1.012	S26	14.877	1.219	14.192	0.73			58.6	FLOOD
S1.013	S27	14.920	1.297	0.302	0.72			60.4	FLOOD
S15.000	S28	14.974	1.109	0.000	0.13			4.1	FLOOD RISK
S16.000	S29	14.923	0.934	0.000	0.21			6.0	FLOOD RISK
S1.014	S30	14.987	1.405	0.000	1.20			86.6	FLOOD RISK
S1.015	S31	15.008	1.447	0.000	0.00		371	0.0	FLOOD RISK
PN	US/MH Name	Level Exceeded							
S1.008	S19	1							
S12.000	S20								
S1.009	S21								
S13.000	S22								
S1.010	S23								
S1.011	S24								
S14.000	S25								
S1.012	S26	4							
S1.013	S27	4							
S15.000	S28								
S16.000	S29								
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	<table><tr><td></td><td>US/MH</td><td>Level</td></tr><tr><td>PN</td><td>Name</td><td>Exceeded</td></tr><tr><td>S1.014</td><td>S30</td><td></td></tr><tr><td>S1.015</td><td>S31</td><td></td></tr></table>		US/MH	Level	PN	Name	Exceeded	S1.014	S30		S1.015	S31		
	US/MH	Level												
PN	Name	Exceeded												
S1.014	S30													
S1.015	S31													
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