

JPP Consulting Ltd		Page 1
Cedar Barn White Lodge Walgrave Northampton NN6 9PY	Highover Farm, Walsworth Surface Water 1 in 100 Year + 40%CC FSR	
Date 31/07/2026 13:48 File Drainage Network1.MDX	Designed by SWF Checked by	
XP Solutions Network 2020.1.3		

Simulation Criteria for Storm

Volumetric Runoff Coeff	0.750	Additional Flow - % of Total Flow	0.000
Areal Reduction Factor	1.000	MADD Factor * 10m ³ /ha Storage	0.000
Hot Start (mins)	0	Inlet Coefficient	0.800
Hot Start Level (mm)	0	Flow per Person per Day (l/per/day)	0.000
Manhole Headloss Coeff (Global)	0.500	Run Time (mins)	60
Foul Sewage per hectare (l/s)	0.000	Output Interval (mins)	1

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

Synthetic Rainfall Details

Rainfall Model	FSR	Profile Type	Summer
Return Period (years)	2	Cv (Summer)	0.750
Region	England and Wales	Cv (Winter)	0.840
M5-60 (mm)	20.000	Storm Duration (mins)	30
Ratio R	0.450		

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Cedar Barn White Lodge
Walgrave
Northampton NN6 9PY

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XP Solutions

Highover Farm, Walsworth
Surface Water
1 in 100 Year + 40%CC FSR

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Network 2020.1.3

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

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 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 0

Number of Online Controls 0

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 0.450

Region England and Wales Cv (Summer) 0.750

M5-60 (mm) 20.000 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0

Analysis Timestep 2.5 Second Increment (Extended)

DTS Status OFF

DVD Status ON

Inertia Status ON

Profile(s) Summer and Winter

Duration(s) (mins) 15, 30

Return Period(s) (years) 100

Climate Change (%) 40

PN	US/MH Name	Storm	Return Period	Climate Change	First (X) Surge	First (Y) Flood	First (Z) Overflow	Overflow Act.
S1.000	SA1	15 Winter	100	+40%				
S1.001	SA2	15 Winter	100	+40%	100/15 Summer			
S1.002	SA3	15 Winter	100	+40%	100/15 Summer			
S1.003	SA4	15 Winter	100	+40%	100/15 Summer			
S1.004	SA5	15 Winter	100	+40%	100/15 Summer			
S2.000	SA6	15 Winter	100	+40%	100/15 Summer			
S2.001	SA7	15 Winter	100	+40%	100/15 Summer			
S3.000	SA8	15 Winter	100	+40%	100/15 Winter			
S2.002	SA9	15 Winter	100	+40%	100/15 Summer			
S2.003	SA10	15 Winter	100	+40%	100/15 Summer			
S4.000	SA11	15 Winter	100	+40%	100/15 Summer			
S1.005	SA12	15 Winter	100	+40%	100/15 Summer			
S1.006	SA13	15 Winter	100	+40%	100/15 Summer			
S5.000	SA14	15 Winter	100	+40%				
S6.000	SA15	15 Winter	100	+40%	100/15 Summer			
S5.001	SA16	15 Winter	100	+40%	100/15 Summer			
S7.000	SA17	15 Winter	100	+40%				
S7.001	SA18	15 Winter	100	+40%	100/15 Summer			
S7.002	SA19	15 Winter	100	+40%	100/15 Summer			
S7.003	SA20	15 Winter	100	+40%	100/15 Summer	100/15 Winter		

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

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					
S1.000	SA1	71.099	-0.051	0.000	0.86				46.8	OK
S1.001	SA2	70.813	0.113	0.000	0.71				93.0	SURCHARGED
S1.002	SA3	70.667	0.277	0.000	0.80				134.0	SURCHARGED
S1.003	SA4	70.253	0.653	0.000	0.88				163.7	SURCHARGED
S1.004	SA5	69.610	0.885	0.000	0.98				199.3	SURCHARGED
S2.000	SA6	69.659	0.634	0.000	0.82				42.7	SURCHARGED
S2.001	SA7	69.505	0.705	0.000	0.90				84.2	SURCHARGED
S3.000	SA8	69.604	0.054	0.000	0.62				46.8	SURCHARGED
S2.002	SA9	69.264	0.764	0.000	1.83				166.6	SURCHARGED
S2.003	SA10	68.683	0.358	0.000	0.51				205.2	SURCHARGED
S4.000	SA11	68.645	0.945	0.000	1.05				42.2	FLOOD RISK
S1.005	SA12	68.442	0.912	0.000	2.22				483.9	SURCHARGED
S1.006	SA13	67.682	0.302	0.000	1.32				486.1	SURCHARGED
S5.000	SA14	70.649	-0.051	0.000	0.92				63.2	OK
S6.000	SA15	70.298	0.598	0.000	2.12				31.3	SURCHARGED
S5.001	SA16	69.603	0.053	0.000	1.38				94.6	SURCHARGED
S7.000	SA17	70.231	-0.094	0.000	0.62				51.9	OK
S7.001	SA18	69.620	0.945	0.000	1.16				92.6	FLOOD RISK
S7.002	SA19	69.326	0.871	0.000	0.83				142.0	SURCHARGED
S7.003	SA20	68.475	1.200	0.104	1.89				196.2	FLOOD

PN	US/MH Name	Level Exceeded
S1.000	SA1	
S1.001	SA2	
S1.002	SA3	
S1.003	SA4	
S1.004	SA5	
S2.000	SA6	
S2.001	SA7	
S3.000	SA8	
S2.002	SA9	
S2.003	SA10	
S4.000	SA11	
S1.005	SA12	
S1.006	SA13	
S5.000	SA14	
S6.000	SA15	
S5.001	SA16	
S7.000	SA17	
S7.001	SA18	
S7.002	SA19	
S7.003	SA20	1

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