100 year Return Period Summary of Critical Results by Maximum Level (Rank 1) for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coeffiecient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 1 Number of Storage Structures 1 Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
FEH Rainfall Version 2013 Cv (Summer) 0.750
Site Location GB 562797 173610 TQ 62797 73610 Cv (Winter) 0.840

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

Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 240, 360, 480, 960, 1440
Return Period(s) (years) 100
Climate Change (%) 40

WARNING: Half Drain Time has not been calculated as the structure is too full.

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PN	US/MH Name	Storm	Return Period	Climate Change	First Surcharge	(X) First Flood	(Y) First Overflow	(Z) Overflow Act.	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status

PN	US/MH Name	Level Exceeded

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PN	US/MH Name	Storm	Return Period	Climate Change	First (X) Surcharge	First (Y) Flood	First (Z) Overflow	Overflow Act.	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)
S1.000	SRE1.1	15 Winter	100	+40%	100/15 Summer				22.652	0.602	0.000	0.56		
S1.001	SS1	15 Winter	100	+40%	100/15 Summer				22.582	0.762	0.000	1.43		
S2.000	SRE1.2	15 Winter	100	+40%	100/15 Summer				22.429	0.379	0.000	0.21		
S1.002	SJUNCT	15 Summer	100	+40%					21.725	0.000	0.000	1.41		
S1.003	SS2	15 Winter	100	+40%	100/15 Summer				22.246	0.467	0.000	0.32		
S3.000	SRE2.1	360 Winter	100	+40%	100/15 Summer				22.244	0.194	0.000	0.01		
S1.004	SJUNCT	15 Summer	100	+40%					21.583	0.000	0.000	0.36		
S1.005	SS3	360 Winter	100	+40%	100/15 Summer				22.243	1.079	0.000	0.16		
S4.000	SRE3.1	360 Winter	100	+40%	100/15 Summer				22.243	0.472	0.000	0.04		
S1.006	SJUNCT	15 Summer	100	+40%					21.154	0.000	0.000	0.66		
S5.000	SRE4.1	360 Winter	100	+40%	100/15 Winter				22.242	0.287	0.000	0.04		
S1.007	SS4	360 Winter	100	+40%	100/15 Summer				22.242	1.181	0.000	0.12		
S6.000	SRE5.1	15 Winter	100	+40%	100/15 Summer				22.301	0.147	0.000	0.93		
S6.001	SS5	360 Winter	100	+40%	100/15 Summer				22.243	0.195	0.000	0.09		
S7.000	SRE6.1	360 Winter	100	+40%	100/15 Winter				22.242	0.386	0.000	0.01		
S6.002	SS6	360 Winter	100	+40%	100/15 Summer				22.242	1.274	0.000	0.14		
S1.008	SJUNCT	15 Summer	100	+40%					20.928	0.000	0.000	2.00		
S8.000	SRE7.1	15 Winter	100	+40%	100/15 Summer				22.543	0.743	0.000	1.64		
S9.000	SRE7.2	15 Winter	100	+40%	100/15 Summer				22.463	0.708	0.000	0.53		
S8.001	SS7	15 Winter	100	+40%	100/15 Summer				22.432	0.838	0.000	1.58		
S10.000	SRE8.1	360 Winter	100	+40%	100/15 Summer				22.243	0.452	0.000	0.05		
S8.002	SS8	360 Winter	100	+40%	100/15 Summer				22.242	0.778	0.000	0.16		
S11.000	SRE9.1	15 Winter	100	+40%	100/15 Summer				23.076	0.496	0.000	1.20		
S12.000	SRE9.2	360 Winter	100	+40%	100/15 Summer				22.241	0.248	0.000	0.00		
S11.001	SS9	360 Winter	100	+40%	100/15 Summer				22.241	0.346	0.000	0.33		

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100 year Return Period Summary of Critical Results by Maximum Level (Rank 1) for Storm

PN	US/MH Name	Pipe Flow (l/s)	Status	Level Exceeded
S1.000	SRE1.1	4.9	FLOOD RISK	
S1.001	SS1	8.8	FLOOD RISK	
S2.000	SRE1.2	2.5	FLOOD RISK	
S1.002	SJUNCT	11.1	SURCHARGED*	
S1.003	SS2	18.9	SURCHARGED	
S3.000	SRE2.1	0.2	SURCHARGED	
S1.004	SJUNCT	25.1	SURCHARGED*	
S1.005	SS3	4.9	SURCHARGED	
S4.000	SRE3.1	0.7	SURCHARGED	
S1.006	SJUNCT	28.4	SURCHARGED*	
S5.000	SRE4.1	0.9	SURCHARGED	
S1.007	SS4	6.3	SURCHARGED	
S6.000	SRE5.1	6.8	SURCHARGED	
S6.001	SS5	3.7	SURCHARGED	
S7.000	SRE6.1	0.2	FLOOD RISK	
S6.002	SS6	4.2	SURCHARGED	
S1.008	SJUNCT	59.8	SURCHARGED*	
S8.000	SRE7.1	10.6	FLOOD RISK	
S9.000	SRE7.2	4.3	FLOOD RISK	
S8.001	SS7	12.6	FLOOD RISK	
S10.000	SRE8.1	0.6	FLOOD RISK	
S8.002	SS8	5.0	SURCHARGED	
S11.000	SRE9.1	14.4	FLOOD RISK	
S12.000	SRE9.2	0.0	SURCHARGED	

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PN	US/MH Name	Pipe Flow (l/s)	Status	Level Exceeded
S11.001	SS9	2.4	SURCHARGED	

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PN	US/MH Name	Storm	Return Period	Climate Change	First (X) Surcharge	First (Y) Flood	First (Z) Overflow	Overflow Act.	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)
S13.000	SRE10.1	15 Winter	100	+40%					22.537					
S13.001	SS10	360 Winter	100	+40%	100/240 Winter				22.241					
S1.009	SS11-CP	360 Winter	100	+40%	100/15 Summer				22.241					
S1.010	SATT1	360 Winter	100	+40%	100/15 Summer				22.239					
S1.011	SSWP12	240 Winter	100	+40%	100/15 Summer				22.308					
S1.012	SS13-CP	15 Summer	100	+40%					22.512					

PN	US/MH Name	Pipe Flow (l/s)	Status	Level Exceeded
S13.000	SRE10.1	7.7	OK	
S13.001	SS10	2.7	SURCHARGED	
S1.009	SS11-CP	21.0	SURCHARGED	
S1.010	SATT1	3.2	SURCHARGED*	
S1.011	SSWP12	2.0	SURCHARGED	
S1.012	SS13-CP	2.0	OK	

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