30 year Return Period Summary of Critical Results by Maximum Level (Rank 1) for Surface Network 2

Simulation Criteria

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

Number of Input Hydrographs 0 Number of Online Controls 2 Number of Offline Controls 0 Number of Storage Structures 4 Number of Time/Area Diagrams 0 Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model FEH Site Location GB 490175 99535 SZ 90175 99535 Cv (Summer) 1.000
FEH Rainfall Version 2013 Data Type Point Cv (Winter) 1.000

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

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

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

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)	Pipe Flow (l/s)	Status	Level Exceeded
1.000	SWMH17.1	30 Summer	30	+40%					5.150	0.000	0.000	0.44			117.1	OK	
1.001	SWMH17.2	480 Winter	30	+40%	30/30 Summer				5.093	0.053	0.000	0.06			12.3	SURCHARGED	
1.002	SWMH17.3	480 Winter	30	+40%	30/15 Summer				5.092	0.092	0.000	0.05			13.4	SURCHARGED	
1.003	SWMH17.4	480 Winter	30	+40%	30/30 Summer				5.092	0.142	0.000	0.06			14.5	SURCHARGED	
2.000	SWMH18.1	480 Winter	30	+40%	30/120 Summer				5.092	0.182	0.000	0.08			15.7	SURCHARGED	
1.004	SWMH17.5	480 Winter	30	+40%	30/120 Summer				5.092	0.202	0.000	0.15			27.8	SURCHARGED	
3.000	SWCP19.1	480 Winter	30	+40%	30/15 Summer				5.092	0.542	0.000	0.00			0.0	SURCHARGED	
3.001	SWCP19.2	480 Winter	30	+40%	30/120 Summer				5.092	0.212	0.000	0.01			1.0	SURCHARGED	
4.000	Headwall 12	480 Winter	30	+40%	30/120 Summer				5.092	0.192	0.000	0.00			1.2	SURCHARGED*	
1.005	SWCP17.6	480 Winter	30	+40%	30/15 Summer				5.091	0.611	0.000	0.46			20.6	SURCHARGED	
1.006	SWMH17.7	480 Winter	30	+40%	30/60 Summer				5.090	0.260	0.000	0.12			19.9	SURCHARGED	
5.000	HWMH20.1	480 Winter	30	+40%	30/120 Summer				5.090	0.155	0.000	0.02			0.7	SURCHARGED	
5.001	HWMH20.2	480 Winter	30	+40%	30/120 Summer				5.090	0.235	0.000	0.08			2.7	SURCHARGED	
1.007	SWCP17.8	480 Winter	30	+40%	30/60 Summer				5.090	0.290	0.000	0.10			21.2	SURCHARGED	
1.008	Headwall 13	1440 Summer	30	+40%					4.790	0.000	0.000	0.04			12.2	SURCHARGED*	
1.009	Headwall 14	480 Winter	30	+40%	30/60 Summer				5.089	0.304	0.000	0.01			4.7	FLOOD RISK*	
1.010	SWMH17.9	480 Summer	30	+40%	30/15 Summer				5.080	0.760	0.000	0.31			3.7	SURCHARGED	
6.000	SWMH21.1	15 Summer	30	+40%	30/15 Summer				5.416	0.266	0.000	0.30			19.2	SURCHARGED	
6.001	SWMH21.2	15 Summer	30	+40%	30/15 Summer				5.404	0.319	0.000	0.62			39.5	SURCHARGED	
6.002	SWMH21.3	15 Summer	30	+40%	30/15 Summer				5.326	0.341	0.000	1.15			123.7	SURCHARGED	
6.003	SWMH21.4	960 Winter	30	+40%	30/15 Summer				5.191	0.416	0.000	0.07			10.1	SURCHARGED	
6.004	SWMH21.5	960 Winter	30	+40%	30/15 Summer				5.191	0.471	0.000	0.12			12.6	SURCHARGED	
6.005	SWCP21.6	960 Winter	30	+40%	30/15 Summer				5.191	0.496	0.000	0.13			12.4	SURCHARGED	
6.006	Headwall 15	15 Summer	30	+40%					4.675	0.000	0.000	1.33			185.9	SURCHARGED*	
6.007	Headwall 16	960 Winter	30	+40%	30/15 Summer				5.190	0.550	0.000	0.01			2.3	SURCHARGED*	

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6.008	SWMH21.7	960 Winter	30	+40%	30/15 Summer				5.218	0.898	0.000	0.10			1.2	SURCHARGED	

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