


Tridax Ltd		Page 1
Honeywood House Whitfield Kent CT16 3EH	Stalisfield Lodge SW Network	
Date 26/10/2023 12:08	Designed by prl	
File T-2023-081 SW NETWORK.MDX	Checked by	
XP Solutions	Network 2020.1.3	

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 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 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 FSR Ratio R 0.400
Return Period (years) 100 Cv (Summer) 0.750
Region England and Wales Cv (Winter) 0.840
M5-60 (mm) 26.250

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) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Sensitivity flows(s) (%) 0, +40

PN	Event	US/CL (m)	Water Level (m)	Flooded Volume (m³)	Flow / Cap.	Discharge Vol (m³)	Pipe Flow (l/s)	Status
1.000	15 minute 100 year Winter Q+40%	17.300	17.111	0.000	1.24	5.473	11.2	FLOOD RISK
1.001	15 minute 100 year Winter Q+40%	17.100	16.836	0.000	1.55	18.765	32.7	FLOOD RISK
2.000	30 minute 100 year Winter Q+40%	16.850	16.592	0.000	0.42	8.126	10.4	FLOOD RISK
1.002	30 minute 100 year Winter Q+40%	16.900	16.580	0.000	0.76	47.738	57.5	SURCHARGED
3.000	15 minute 100 year Winter Q+40%	16.850	16.677	0.000	0.50	5.473	9.2	FLOOD RISK
3.001	30 minute 100 year Winter Q+40%	16.700	16.625	0.000	0.91	15.235	16.2	FLOOD RISK
3.002	30 minute 100 year Winter Q+40%	16.700	16.606	0.000	0.97	15.235	16.2	FLOOD RISK
3.003	30 minute 100 year Winter Q+40%	16.700	16.593	0.000	1.21	20.821	22.0	FLOOD RISK
3.004	30 minute 100 year Winter Q+40%	16.700	16.565	0.000	0.90	26.412	27.9	FLOOD RISK
4.000	30 minute 100 year Winter Q+40%	16.600	16.570	0.000	0.97	29.965	37.5	FLOOD RISK
1.003	30 minute 100 year Winter Q+40%	16.600	16.539	0.000	2.14	111.225	131.1	FLOOD RISK
5.000	30 minute 100 year Winter Q+40%	16.500	16.458	0.000	0.43	13.204	16.9	FLOOD RISK
1.004	30 minute 100 year Winter Q+40%	16.500	16.453	0.000	0.88	113.599	49.2	FLOOD RISK
1.005	30 minute 100 year Winter Q+40%	16.500	16.375	0.000	0.83	113.143	46.2	FLOOD RISK
1.006	30 minute 100 year Winter Q+40%	16.500	14.343	0.000	0.53	112.857	46.2	OK
1.007	30 minute 100 year Winter Q+40%	16.500	14.181	0.000	0.59	112.566	46.2	OK