



Tridax Ltd		Page 1
Honeywood House Whitfield Kent CT16 3EH	Stalisfield Lodge Existing Discharge	
Date 25/10/2023 10:05 File T-2023-081 Existing.MDX	Designed by prl Checked by	
XP Solutions	Network 2020.1.3	

Existing Network Details for Storm

PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	k (mm)	HYD SECT	DIA (mm)	Section Type
1.000	18.400	0.230	80.0	0.170	5.00	0.600	o	225	Pipe/Conduit

PN	US/MH Name	US/CL (m)	US/IL (m)	US C.Depth (m)	DS/CL (m)	DS/IL (m)	DS C.Depth (m)	Ctrl	US/MH (mm)
1.000	EX	16.500	14.409	1.866	16.500	14.179	2.096		1200

Tridax Ltd		Page 2
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1 year Return Period 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 \* 10m<sup>3</sup>/ha Storage 2.000  
Hot Start Level (mm) 0    Inlet Coefficient 0.800  
Manhole Headloss Coeff (Global) 0.500    Flow per Person per Day (1/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 0    Number of Storage Structures 0    Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model    FSR M5-60 (mm) 26.250 Cv (Summer) 0.750  
Region England and Wales    Ratio R 0.400 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0    DVD Status OFF  
Analysis Timestep    Fine Inertia Status OFF  
DTS Status    ON

Profile(s)    Summer and Winter  
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440  
Return Period(s) (years)    1, 30, 100  
Climate Change (%)    0, 0, 0

PN	Event	US/CL (m)	Water Flooded		Pipe		Status	
			Level (m)	Volume (m <sup>3</sup> )	Flow / Cap.	Discharge Vol (m <sup>3</sup> ) (l/s)		
1.000	15 minute 1 year Winter I+0%	16.500	14.536	0.000	0.60	14.782	31.5	OK

Tridax Ltd		Page 3
Honeywood House Whitfield Kent CT16 3EH	Stalisfield Lodge Existing Discharge	
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30 year Return Period 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 \* 10m<sup>3</sup>/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 0    Number of Storage Structures 0    Number of Real Time Controls 0


Synthetic Rainfall Details

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Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440  
Return Period(s) (years)    1, 30, 100  
Climate Change (%)    0, 0, 0

PN	Event	US/CL (m)	Water Flooded		Flow / Cap.	Discharge Vol (m <sup>3</sup> )	Pipe Flow (l/s)	Status
			Level (m)	Volume (m <sup>3</sup> )				
1.000	15 minute 30 year Winter I+0%	16.500	15.123	0.000	1.42	36.137	74.1	SURCHARGED

Tridax Ltd		Page 4
Honeywood House Whitfield Kent CT16 3EH	Stalisfield Lodge Existing Discharge	
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100 year Return Period 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 \* 10m<sup>3</sup>/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 0    Number of Storage Structures 0    Number of Real Time Controls 0

Synthetic Rainfall Details

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Analysis Timestep    Fine Inertia Status OFF  
DTS Status    ON

Profile(s)    Summer and Winter  
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440  
Return Period(s) (years)    1, 30, 100  
Climate Change (%)    0, 0, 0

PN	Event	Water Flooded			Pipe		Status
		US/CL (m)	Level (m)	Volume (m <sup>3</sup> )	Flow / Discharge Cap. Vol (m <sup>3</sup> ) (l/s)	Flow (l/s)	
1.000	15 minute 100 year Winter I+0%	16.500	15.614	0.000	1.82	47.338	95.1 SURCHARGED