Existing Network Details for Storm

PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)	Section Type
1.000	10.050	0.502	20.0	0.003	5.00	0.0	0.600	o	100	Pipe/Conduit
1.001	24.570	0.246	99.9	0.008	0.00	0.0	0.600	o	225	Pipe/Conduit
1.002	7.570	0.077	98.3	0.000	0.00	0.0	0.600	o	225	Pipe/Conduit
2.000	5.760	0.753	7.6	0.006	5.00	0.0	0.600	o	100	Pipe/Conduit
1.003	3.000	0.029	103.4	0.000	0.00	0.0	0.600	o	100	Pipe/Conduit

Network Results Table

PN	US/IL (m)	Σ I.Area (ha)	Σ Base Flow (l/s)	Vel (m/s)	Cap (l/s)
1.000	1.412	0.003	0.0	1.73	13.6
1.001	0.910	0.011	0.0	1.31	52.0
1.002	0.664	0.011	0.0	1.32	52.4
2.000	1.340	0.006	0.0	2.81	22.1
1.003	0.587	0.017	0.0	0.76	5.9

ADUR & WORTHING
PLANNING SERVICES

PLAN	AWDM/ 0250/17
DATE VALID	24 MAY 2017

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Online Controls for Storm

Orifice Manhole: Flow Control, DS/PN: 1.003, Volume (m^3): 0.7

Diameter (m) 0.062 Discharge Coefficient 0.600 Invert Level (m) 0.587

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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 * 10m³/ha Storage	2.000
Hot Start Level (mm)	0	Inlet Coeffiecient	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 0 Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model	FSR	M5-60 (mm) 19.900	Cv (Summer) 0.750
Region	England and Wales	Ratio R 0.350	Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 100.0 DVD Status OFF
Analysis Timestep Fine Inertia Status OFF
DTS Status ON

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

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)
1.000	RE1.0	30 Summer	1	+0%					1.423	-0.089
1.001	MHS1.1	30 Summer	1	+0%					0.934	-0.201
1.002	MHS1.2	30 Summer	1	+0%	100/30 Summer				0.691	-0.198
2.000	RE2.0	30 Summer	1	+0%					1.352	-0.088
1.003	Flow Control	30 Summer	1	+0%	30/30 Summer				0.672	-0.015

PN	US/MH Name	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status	Level Exceeded
1.000	RE1.0	0.000	0.03		0.3	OK	
1.001	MHS1.1	0.000	0.02		1.2	OK	
1.002	MHS1.2	0.000	0.03		1.1	OK	
2.000	RE2.0	0.000	0.04		0.7	OK	
1.003	Flow Control	0.000	0.39		1.8	OK	

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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 * 10m³/ha Storage	2.000
Hot Start Level (mm)	0	Inlet Coeffiecient	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 0 Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model	FSR	M5-60 (mm) 19.900	Cv (Summer) 0.750
Region	England and Wales	Ratio R 0.350	Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 100.0 DVD Status OFF
Analysis Timestep Fine Inertia Status OFF
DTS Status ON

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

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)
1.000	RE1.0	30 Summer	30	+0%					1.429	-0.083
1.001	MHS1.1	30 Summer	30	+0%					0.949	-0.186
1.002	MHS1.2	30 Summer	30	+0%	100/30 Summer				0.820	-0.069
2.000	RE2.0	30 Summer	30	+0%					1.360	-0.080
1.003	Flow Control	30 Summer	30	+0%	30/30 Summer				0.818	0.131

PN	US/MH Name	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status	Level Exceeded
1.000	RE1.0	0.000	0.07		0.9	OK	
1.001	MHS1.1	0.000	0.07		3.2	OK	
1.002	MHS1.2	0.000	0.06		2.3	OK	
2.000	RE2.0	0.000	0.09		1.7	OK	
1.003	Flow Control	0.000	0.76		3.6	SURCHARGED	

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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 * 10m³/ha Storage	2.000
Hot Start Level (mm)	0	Inlet Coeffiecient	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 0 Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model	FSR	M5-60 (mm)	19.900
Region	England and Wales	Ratio R	0.350
Cv (Summer)	0.750		
Cv (Winter)	0.840		

Margin for Flood Risk Warning (mm) 100.0 DVD Status OFF
Analysis Timestep Fine Inertia Status OFF
DTS Status ON

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

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)
1.000	RE1.0	30 Summer	100	+30%					1.434	-0.078
1.001	MHS1.1	30 Winter	100	+30%					1.049	-0.086
1.002	MHS1.2	30 Winter	100	+30%	100/30 Summer				1.041	0.152
2.000	RE2.0	30 Summer	100	+30%					1.366	-0.074
1.003	Flow Control	30 Winter	100	+30%	30/30 Summer				1.038	0.351

PN	US/MH Name	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status	Level Exceeded
1.000	RE1.0	0.000	0.11		1.5	OK	
1.001	MHS1.1	0.000	0.10		4.9	OK	
1.002	MHS1.2	0.000	0.09		3.6	SURCHARGED	
2.000	RE2.0	0.000	0.15		2.9	OK	
1.003	Flow Control	0.000	1.03		4.9	SURCHARGED	

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