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Surface water Drainage Calculations

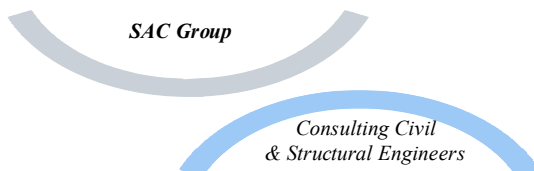
David Mcphearson

**New Development
Abbots Bromley**

Plot 5 (4 Similar)

Job No. F-088

Feb 16



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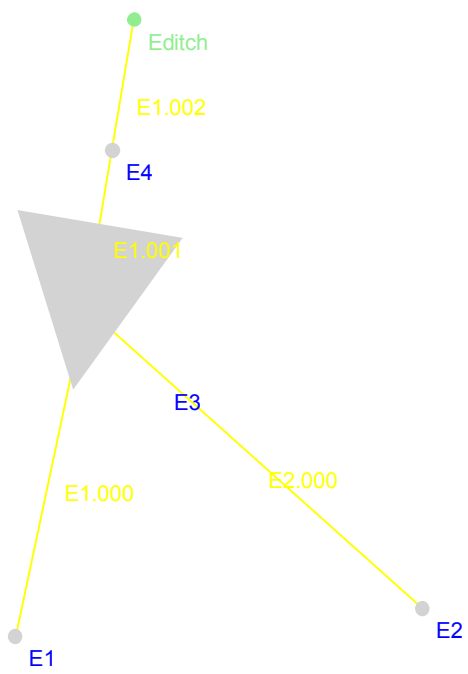
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GENERAL NOTES

The drainage has been modeled using Microdrainage computer software for a 1 in 1 year, 1 in 30 year and a 1 in 100 year storm return period. A 20% climate increase has been included in the calculations.

The design has been undertaken on the principle that water can back up manholes for the 1 in 30 year storm but flooding is not permitted whilst flooding is permitted for a 1 in 100 year storm providing buildings are not affected. In this instance the computer model indicated flooding occurred for any rainfall event.

Soakaways have been adopted on the site. Five soakaway tests were undertaken and the tests results determined a very low infiltration rate in the impermeable clay strata. The soakaways adopted in the design have therefore been used as retention tanks to slow the outflow into the on site pond



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Micro Drainage		Network 2014.1.1

Existing Network Details for Existing

PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)
E1.000	10.068	0.200	50.3	0.004	4.00	0.0	0.600	o	100
E2.000	13.475	0.850	15.9	0.014	4.00	0.0	0.600	o	100
E1.001	4.735	0.100	47.3	0.000	0.00	0.0	0.600	o	150
E1.002	3.944	0.700	5.6	0.000	0.00	0.0	0.600	o	150

Network Results Table

PN	US/IL (m)	Σ I.Area (ha)	Σ Base Flow (l/s)	Vel (m/s)	Cap (l/s)
E1.000	7.800	0.004	0.0	1.09	8.6
E2.000	8.450	0.014	0.0	1.95	15.3
E1.001	7.600	0.018	0.0	1.47	25.9
E1.002	7.500	0.018	0.0	4.27	75.5

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Manhole Schedules for Existing

MH Name	MH CL (m)	MH Depth (m)	MH Connection	MH Diam.,L*W (mm)	PN	Pipe Out Invert Level (m)	Diameter (mm)	PN	Pipes In Invert Level (m)	Diameter (mm)	Backdrop (mm)
E1	8.270	0.470	Open Manhole	450	E1.000	7.800	100				
E2	8.900	0.450	Open Manhole	450	E2.000	8.450	100				
E3	8.000	0.400	Open Manhole	450	E1.001	7.600	150	E1.000	7.600	100	
E4	8.000	0.500	Open Manhole	450	E1.002	7.500	150	E2.000	7.600	100	
Editch	7.300	0.500	Open Manhole	0		OUTFALL		E1.001	7.500	150	
								E1.002	6.800	150	

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PIPELINE SCHEDULES for Existing

Upstream Manhole

PN	Hyd Sect	Diam (mm)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
E1.000	o	100	E1	8.270	7.800	0.370	Open Manhole	450
E2.000	o	100	E2	8.900	8.450	0.350	Open Manhole	450
E1.001	o	150	E3	8.000	7.600	0.250	Open Manhole	450
E1.002	o	150	E4	8.000	7.500	0.350	Open Manhole	450

Downstream Manhole

PN	Length (m)	Slope (1:X)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
E1.000	10.068	50.3	E3	8.000	7.600	0.300	Open Manhole	450
E2.000	13.475	15.9	E3	8.000	7.600	0.300	Open Manhole	450
E1.001	4.735	47.3	E4	8.000	7.500	0.350	Open Manhole	450
E1.002	3.944	5.6	Editch	7.300	6.800	0.350	Open Manhole	0

Free Flowing Outfall Details for Existing

Outfall Pipe Number	Outfall Name	C. Level (m)	I. Level (m)	Min I. Level (m)	D,L (mm)	W (mm)
E1.002	Editch	7.300	6.800	0.000	0	0

Simulation Criteria for Existing

Volumetric Runoff Coeff	0.750	Additional Flow - % of Total Flow	0.000
Areal Reduction Factor	1.000	MADD Factor * 10m ³ /ha Storage	2.000
Hot Start (mins)	0	Inlet Coeffiecient	0.800
Hot Start Level (mm)	0	Flow per Person per Day (l/per/day)	0.000
Manhole Headloss Coeff (Global)	0.500	Run Time (mins)	60
Foul Sewage per hectare (l/s)	0.000	Output Interval (mins)	1

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.400
Return Period (years)	100	Profile Type	Summer
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.100	Cv (Winter)	0.840

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Synthetic Rainfall Details

Storm Duration (mins) 30

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Storage Structures for Existing

Cellular Storage Manhole: E3, DS/PN: E1.001

Invert Level (m) 6.000 Safety Factor 5.0
Infiltration Coefficient Base (m/hr) 0.00001 Porosity 0.95
Infiltration Coefficient Side (m/hr) 0.00001

Depth (m)	Area (m ²)	Inf. Area (m ²)	Depth (m)	Area (m ²)	Inf. Area (m ²)
0.000	3.2	3.2	2.100	0.0	17.6
2.000	3.2	17.6			

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Summary Wizard of 15 minute 1 year Summer I+20% for Existing

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


Synthetic Rainfall Details

Rainfall Model FSR Ratio R 0.400
Region England and Wales Cv (Summer) 0.750
M5-60 (mm) 19.100 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 (%) 20, 20, 20

PN	US/MH Name	Rank	Water		Flooded			Pipe		Status
			Level (m)	Surch'd Depth (m)	Volume (m ³)	Flow / Cap.	O'flow (l/s)	Pipe Flow (l/s)		
E1.000	E1	15	7.820	-0.080	0.000	0.09	0.0	0.7	OK	
E2.000	E2	15	8.477	-0.073	0.000	0.16	0.0	2.4	OK	
E1.001	E3	72	6.374	-1.376	0.000	0.00	0.0	0.0	OK	
E1.002	E4	50	7.500	-0.150	0.000	0.00	0.0	0.0	OK	

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Summary Wizard of 60 minute 1 year Summer I+20% for Existing

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


Synthetic Rainfall Details

Rainfall Model FSR Ratio R 0.400
Region England and Wales Cv (Summer) 0.750
M5-60 (mm) 19.100 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 (%) 20, 20, 20

PN	US/MH Name	Rank	Water		Flooded		Pipe		Status
			Level (m)	Surch'd Depth (m)	Volume (m ³)	Flow / O'flow Cap. (l/s)	Flow (l/s)		
E1.000	E1	25	7.815	-0.085	0.000	0.05	0.0	0.4	OK
E2.000	E2	25	8.471	-0.079	0.000	0.10	0.0	1.5	OK
E1.001	E3	68	6.616	-1.134	0.000	0.00	0.0	0.0	OK
E1.002	E4	48	7.500	-0.150	0.000	0.00	0.0	0.0	OK

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Summary Wizard of 120 minute 1 year Summer I+20% for Existing

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


Synthetic Rainfall Details

Rainfall Model FSR Ratio R 0.400
Region England and Wales Cv (Summer) 0.750
M5-60 (mm) 19.100 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 (%) 20, 20, 20

PN	US/MH Name	Rank	Water		Flooded			Pipe		Status
			Level (m)	Surch'd Depth (m)	Volume (m ³)	Flow / Cap.	O'flow (l/s)	Pipe Flow (l/s)		
E1.000	E1	35	7.812	-0.088	0.000	0.03	0.0	0.3	OK	
E2.000	E2	35	8.466	-0.084	0.000	0.06	0.0	0.9	OK	
E1.001	E3	66	6.763	-0.987	0.000	0.00	0.0	0.0	OK	
E1.002	E4	49	7.500	-0.150	0.000	0.00	0.0	0.0	OK	

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Summary Wizard of 180 minute 1 year Summer I+20% for Existing

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

Synthetic Rainfall Details

Rainfall Model FSR Ratio R 0.400
Region England and Wales Cv (Summer) 0.750
M5-60 (mm) 19.100 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 (%) 20, 20, 20

PN	US/MH Name	Rank	Water		Flooded			Pipe		Status
			Level (m)	Surch'ed Depth (m)	Volume (m³)	Flow / O'flow Cap. (l/s)	Flow (l/s)			
E1.000	E1	41	7.811	-0.089	0.000	0.03	0.0	0.2	OK	
E2.000	E2	41	8.465	-0.085	0.000	0.05	0.0	0.7	OK	
E1.001	E3	64	6.862	-0.888	0.000	0.00	0.0	0.0	OK	
E1.002	E4	52	7.500	-0.150	0.000	0.00	0.0	0.0	OK	

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Summary Wizard of 240 minute 1 year Summer I+20% for Existing

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


Synthetic Rainfall Details

Rainfall Model FSR Ratio R 0.400
 Region England and Wales Cv (Summer) 0.750
 M5-60 (mm) 19.100 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 (%) 20, 20, 20

PN	US/MH Name	Rank	Water		Flooded			Pipe		Status
			Level (m)	Surch'ed Depth (m)	Volume (m³)	Flow / Cap.	O'flow (l/s)	Pipe Flow (l/s)		
E1.000	E1	45	7.810	-0.090	0.000	0.02	0.0	0.2	OK	
E2.000	E2	45	8.463	-0.087	0.000	0.04	0.0	0.6	OK	
E1.001	E3	62	6.938	-0.812	0.000	0.00	0.0	0.0	OK	
E1.002	E4	55	7.500	-0.150	0.000	0.00	0.0	0.0	OK	

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Summary Wizard of 360 minute 1 year Summer I+20% for Existing

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

Synthetic Rainfall Details

Rainfall Model FSR Ratio R 0.400
Region England and Wales Cv (Summer) 0.750
M5-60 (mm) 19.100 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 (%) 20, 20, 20

PN	US/MH Name	Rank	Water		Flooded			Pipe		Status
			Level (m)	Surch'd Depth (m)	Volume (m ³)	Flow / Cap.	O'flow (l/s)	Pipe Flow (l/s)		
E1.000	E1	53	7.808	-0.092	0.000	0.02	0.0	0.1	OK	
E2.000	E2	53	8.462	-0.088	0.000	0.03	0.0	0.5	OK	
E1.001	E3	58	7.054	-0.696	0.000	0.00	0.0	0.0	OK	
E1.002	E4	56	7.500	-0.150	0.000	0.00	0.0	0.0	OK	

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Summary Wizard of 480 minute 1 year Summer I+20% for Existing

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

Synthetic Rainfall Details

Rainfall Model FSR Ratio R 0.400
Region England and Wales Cv (Summer) 0.750
M5-60 (mm) 19.100 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 (%) 20, 20, 20

PN	US/MH Name	Rank	Water		Flooded			Pipe		Status
			Level (m)	Surch'd Depth (m)	Volume (m ³)	Flow / Cap.	O'flow (l/s)	Pipe Flow (l/s)		
E1.000	E1	58	7.806	-0.094	0.000	0.01	0.0	0.1	OK	
E2.000	E2	58	8.461	-0.089	0.000	0.03	0.0	0.4	OK	
E1.001	E3	57	7.139	-0.611	0.000	0.00	0.0	0.0	OK	
E1.002	E4	53	7.500	-0.150	0.000	0.00	0.0	0.0	OK	

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Summary Wizard of 600 minute 1 year Summer I+20% for Existing

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


Synthetic Rainfall Details

Rainfall Model FSR Ratio R 0.400
Region England and Wales Cv (Summer) 0.750
M5-60 (mm) 19.100 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 (%) 20, 20, 20

PN	US/MH Name	Rank	Water		Flooded			Pipe		Status
			Level (m)	Surch'd Depth (m)	Volume (m ³)	Flow / Cap.	O'flow (l/s)	Pipe Flow (l/s)		
E1.000	E1	63	7.805	-0.095	0.000	0.01	0.0	0.1	OK	
E2.000	E2	63	8.460	-0.090	0.000	0.02	0.0	0.3	OK	
E1.001	E3	53	7.209	-0.541	0.000	0.00	0.0	0.0	OK	
E1.002	E4	54	7.500	-0.150	0.000	0.00	0.0	0.0	OK	

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Summary Wizard of 720 minute 1 year Summer I+20% for Existing

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


Synthetic Rainfall Details

Rainfall Model FSR Ratio R 0.400
Region England and Wales Cv (Summer) 0.750
M5-60 (mm) 19.100 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 (%) 20, 20, 20

PN	US/MH Name	Rank	Water		Flooded			Pipe		Status
			Level (m)	Surch'd Depth (m)	Volume (m ³)	Flow / Cap. (l/s)	O'flow (l/s)	Flow (l/s)		
E1.000	E1	65	7.805	-0.095	0.000	0.01	0.0	0.1	OK	
E2.000	E2	65	8.459	-0.091	0.000	0.02	0.0	0.3	OK	
E1.001	E3	52	7.270	-0.480	0.000	0.00	0.0	0.0	OK	
E1.002	E4	43	7.500	-0.150	0.000	0.00	0.0	0.0	OK	

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Summary Wizard of 960 minute 1 year Summer I+20% for Existing

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


Synthetic Rainfall Details

Rainfall Model FSR Ratio R 0.400
Region England and Wales Cv (Summer) 0.750
M5-60 (mm) 19.100 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 (%) 20, 20, 20

PN	US/MH Name	Rank	Water		Flooded		Pipe		Status
			Level (m)	Surch'd Depth (m)	Volume (m ³)	Flow / O'flow Cap. (l/s)	Flow (l/s)		
E1.000	E1	68	7.804	-0.096	0.000	0.01	0.0	0.1	OK
E2.000	E2	68	8.457	-0.093	0.000	0.02	0.0	0.2	OK
E1.001	E3	47	7.372	-0.378	0.000	0.00	0.0	0.0	OK
E1.002	E4	42	7.500	-0.150	0.000	0.00	0.0	0.0	OK

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Summary Wizard of 30 minute 30 year Summer I+20% for Existing

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


Synthetic Rainfall Details

Rainfall Model FSR Ratio R 0.400
Region England and Wales Cv (Summer) 0.750
M5-60 (mm) 19.100 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 (%) 20, 20, 20

PN	US/MH Name	Rank	Water		Flooded		Pipe		Status
			Level (m)	Surch'd Depth (m)	Volume (m ³)	Flow / O'flow Cap. (l/s)	Pipe Flow (l/s)		
E1.000	E1	7	7.829	-0.071	0.000	0.18	0.0	1.4	OK
E2.000	E2	7	8.491	-0.059	0.000	0.35	0.0	5.0	OK
E1.001	E3	54	7.194	-0.556	0.000	0.00	0.0	0.0	OK
E1.002	E4	46	7.500	-0.150	0.000	0.00	0.0	0.0	OK

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Summary Wizard of 60 minute 30 year Summer I+20% for Existing

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


Synthetic Rainfall Details

Rainfall Model FSR Ratio R 0.400
Region England and Wales Cv (Summer) 0.750
M5-60 (mm) 19.100 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 (%) 20, 20, 20

PN	US/MH Name	Rank	Water		Flooded			Pipe		Status
			Level (m)	Surch'd Depth (m)	Volume (m ³)	Flow / Cap.	O'flow (l/s)	Pipe Flow (l/s)		
E1.000	E1	11	7.824	-0.076	0.000	0.13	0.0	1.0	OK	
E2.000	E2	11	8.484	-0.066	0.000	0.25	0.0	3.6	OK	
E1.001	E3	45	7.489	-0.261	0.000	0.00	0.0	0.0	OK	
E1.002	E4	67	7.500	-0.150	0.000	0.00	0.0	0.0	OK	

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Summary Wizard of 120 minute 30 year Summer I+20% for Existing

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

Synthetic Rainfall Details

Rainfall Model FSR Ratio R 0.400
Region England and Wales Cv (Summer) 0.750
M5-60 (mm) 19.100 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 (%) 20, 20, 20

PN	US/MH Name	Rank	Water		Flooded			Pipe		Status
			Level (m)	Surch'd Depth (m)	Volume (m ³)	Flow / Cap.	O'flow (l/s)	Pipe Flow (l/s)		
E1.000	E1	18	7.819	-0.081	0.000	0.08	0.0	0.6	OK	
E2.000	E2	18	8.476	-0.074	0.000	0.15	0.0	2.2	OK	
E1.001	E3	39	7.614	-0.136	0.000	0.02	0.0	0.4	OK	
E1.002	E4	39	7.505	-0.145	0.000	0.01	0.0	0.4	OK	

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Summary Wizard of 180 minute 30 year Summer I+20% for Existing

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m ³ /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 Storage Structures	1
Number of Online Controls	0	Number of Time/Area Diagrams	0
Number of Offline Controls	0	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.400
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.100	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 (%)	20, 20, 20

PN	US/MH Name	Rank	Water		Flooded			Pipe		Status
			Level (m)	Surch'd Depth (m)	Volume (m ³)	Flow / Cap. (l/s)	O'flow (l/s)	Flow (l/s)		
E1.000	E1	22	7.816	-0.084	0.000	0.06	0.0	0.5	OK	
E2.000	E2	22	8.473	-0.077	0.000	0.12	0.0	1.7	OK	
E1.001	E3	30	7.617	-0.133	0.000	0.03	0.0	0.6	OK	
E1.002	E4	30	7.508	-0.142	0.000	0.01	0.0	0.6	OK	

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Summary Wizard of 240 minute 30 year Summer I+20% for Existing

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m ³ /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 Storage Structures	1
Number of Online Controls	0	Number of Time/Area Diagrams	0
Number of Offline Controls	0	Number of Real Time Controls	0


Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.400
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)		19.100 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 (%)		20, 20, 20

PN	US/MH Name	Rank	Water		Flooded			Pipe		Status
			Level (m)	Surch'd Depth (m)	Volume (m ³)	Flow / Cap.	O'flow (l/s)	Pipe Flow (l/s)		
E1.000	E1	26	7.814	-0.086	0.000	0.05	0.0	0.4	OK	
E2.000	E2	26	8.471	-0.079	0.000	0.10	0.0	1.4	OK	
E1.001	E3	24	7.619	-0.131	0.000	0.04	0.0	0.7	OK	
E1.002	E4	26	7.509	-0.141	0.000	0.01	0.0	0.7	OK	

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Summary Wizard of 360 minute 30 year Summer I+20% for Existing

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

Synthetic Rainfall Details

Rainfall Model FSR Ratio R 0.400
Region England and Wales Cv (Summer) 0.750
M5-60 (mm) 19.100 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 (%) 20, 20, 20

PN	US/MH Name	Rank	Water		Flooded		Pipe		Status
			Level (m)	Surch'd Depth (m)	Volume (m ³)	Flow / O'flow Cap. (l/s)	Pipe Flow (l/s)		
E1.000	E1	33	7.812	-0.088	0.000	0.04	0.0	0.3	OK
E2.000	E2	33	8.467	-0.083	0.000	0.07	0.0	1.0	OK
E1.001	E3	21	7.619	-0.131	0.000	0.04	0.0	0.7	OK
E1.002	E4	23	7.510	-0.140	0.000	0.01	0.0	0.7	OK

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Summary Wizard of 480 minute 30 year Summer I+20% for Existing

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m ³ /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 Storage Structures	1
Number of Online Controls	0	Number of Time/Area Diagrams	0
Number of Offline Controls	0	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.400
Region England and Wales Cv (Summer)	0.750		
M5-60 (mm)	19.100	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 (%)	20, 20, 20

PN	US/MH Name	Rank	Water		Flooded			Pipe		Status
			Level (m)	Surch'ed Depth (m)	Volume (m ³)	Flow / Cap.	O'flow (l/s)	Pipe Flow (l/s)		
E1.000	E1	37	7.811	-0.089	0.000	0.03	0.0	0.2	OK	
E2.000	E2	37	8.465	-0.085	0.000	0.06	0.0	0.8	OK	
E1.001	E3	22	7.619	-0.131	0.000	0.03	0.0	0.7	OK	
E1.002	E4	22	7.511	-0.139	0.000	0.01	0.0	0.7	OK	

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Summary Wizard of 720 minute 30 year Summer I+20% for Existing

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


Synthetic Rainfall Details

Rainfall Model FSR Ratio R 0.400
Region England and Wales Cv (Summer) 0.750
M5-60 (mm) 19.100 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 (%) 20, 20, 20

PN	US/MH Name	Rank	Water		Flooded			Pipe		Status
			Level (m)	Surch'd Depth (m)	Volume (m ³)	Flow / Cap.	O'flow (l/s)	Pipe Flow (l/s)		
E1.000	E1	48	7.810	-0.090	0.000	0.02	0.0	0.2	OK	
E2.000	E2	48	8.463	-0.087	0.000	0.04	0.0	0.6	OK	
E1.001	E3	27	7.618	-0.132	0.000	0.03	0.0	0.6	OK	
E1.002	E4	27	7.509	-0.141	0.000	0.01	0.0	0.6	OK	

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Summary Wizard of 960 minute 30 year Summer I+20% for Existing

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


Synthetic Rainfall Details

Rainfall Model FSR Ratio R 0.400
Region England and Wales Cv (Summer) 0.750
M5-60 (mm) 19.100 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 (%) 20, 20, 20

PN	US/MH Name	Rank	Water		Flooded		Pipe		Status
			Level (m)	Surch'd Depth (m)	Volume (m ³)	Flow / O'flow Cap. (l/s)	Pipe Flow (l/s)		
E1.000	E1	52	7.808	-0.092	0.000	0.02	0.0	0.1	OK
E2.000	E2	52	8.462	-0.088	0.000	0.03	0.0	0.5	OK
E1.001	E3	35	7.616	-0.134	0.000	0.03	0.0	0.5	OK
E1.002	E4	35	7.507	-0.143	0.000	0.01	0.0	0.5	OK

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Summary Wizard of 15 minute 100 year Summer I+20% for Existing

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


Synthetic Rainfall Details

Rainfall Model FSR Ratio R 0.400
Region England and Wales Cv (Summer) 0.750
M5-60 (mm) 19.100 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 (%) 20, 20, 20

PN	US/MH Name	Rank	Water		Flooded			Pipe		Status
			Level (m)	Surch'ed Depth (m)	Volume (m ³)	Flow / Cap.	O'flow (l/s)	Pipe Flow (l/s)		
E1.000	E1	2	7.835	-0.065	0.000	0.27	0.0	2.2	OK	
E2.000	E2	2	8.501	-0.049	0.000	0.52	0.0	7.6	OK	
E1.001	E3	55	7.189	-0.561	0.000	0.00	0.0	0.0	OK	
E1.002	E4	65	7.500	-0.150	0.000	0.00	0.0	0.0	OK	

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Summary Wizard of 30 minute 100 year Summer I+20% for Existing

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


Synthetic Rainfall Details

Rainfall Model FSR Ratio R 0.400
Region England and Wales Cv (Summer) 0.750
M5-60 (mm) 19.100 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 (%) 20, 20, 20

PN	US/MH Name	Rank	Water		Flooded			Pipe		Status
			Level (m)	Surch'ed Depth (m)	Volume (m ³)	Flow / Cap.	O'flow (l/s)	Pipe Flow (l/s)		
E1.000	E1	3	7.833	-0.067	0.000	0.24	0.0	1.9	OK	
E2.000	E2	3	8.497	-0.053	0.000	0.45	0.0	6.6	OK	
E1.001	E3	42	7.562	-0.188	0.000	0.00	0.0	0.0	OK	
E1.002	E4	66	7.500	-0.150	0.000	0.00	0.0	0.0	OK	

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Summary Wizard of 60 minute 100 year Summer I+20% for Existing

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

Synthetic Rainfall Details

Rainfall Model FSR Ratio R 0.400
Region England and Wales Cv (Summer) 0.750
M5-60 (mm) 19.100 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 (%) 20, 20, 20

PN	US/MH Name	Rank	Water		Flooded			Pipe		Status
			Level (m)	Surch'd Depth (m)	Volume (m ³)	Flow / Cap.	O'flow (l/s)	Pipe Flow (l/s)		
E1.000	E1	8	7.828	-0.072	0.000	0.17	0.0	1.3	OK	
E2.000	E2	8	8.489	-0.061	0.000	0.32	0.0	4.7	OK	
E1.001	E3	9	7.626	-0.124	0.000	0.07	0.0	1.3	OK	
E1.002	E4	9	7.516	-0.134	0.000	0.03	0.0	1.4	OK	

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Summary Wizard of 120 minute 100 year Summer I+20% for Existing

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

Synthetic Rainfall Details

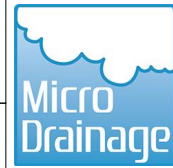
Rainfall Model FSR Ratio R 0.400
 Region England and Wales Cv (Summer) 0.750
 M5-60 (mm) 19.100 Cv (Winter) 0.840

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 (%) 20, 20, 20

PN	US/MH		Water		Flooded		Pipe		Status
	Name	Rank	Level (m)	Surch'd Depth (m)	Volume (m³)	Flow / Cap. (l/s)	O'flow (l/s)	Flow (l/s)	
E1.000	E1	12	7.821	-0.079	0.000	0.10	0.0	0.8	OK
E2.000	E2	12	8.480	-0.070	0.000	0.20	0.0	2.9	OK
E1.001	E3	6	7.632	-0.118	0.000	0.11	0.0	2.1	OK
E1.002	E4	6	7.519	-0.131	0.000	0.04	0.0	2.1	OK

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Summary Wizard of 180 minute 100 year Summer I+20% for Existing

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


Synthetic Rainfall Details

Rainfall Model FSR Ratio R 0.400
Region England and Wales Cv (Summer) 0.750
M5-60 (mm) 19.100 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 (%) 20, 20, 20

PN	US/MH		Water		Flooded			Pipe		Status
	Name	Rank	Level (m)	Surch'ed Depth (m)	Volume (m³)	Flow / Cap.	O'flow (l/s)	Flow (l/s)		
E1.000	E1	16	7.819	-0.081	0.000	0.08	0.0	0.6	OK	
E2.000	E2	16	8.476	-0.074	0.000	0.16	0.0	2.3	OK	
E1.001	E3	3	7.634	-0.116	0.000	0.10	0.0	2.1	OK	
E1.002	E4	3	7.520	-0.130	0.000	0.04	0.0	2.1	OK	

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Summary Wizard of 240 minute 100 year Summer I+20% for Existing

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


Synthetic Rainfall Details

Rainfall Model FSR Ratio R 0.400
Region England and Wales Cv (Summer) 0.750
M5-60 (mm) 19.100 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 (%) 20, 20, 20

PN	US/MH Name	Rank	Water		Flooded		Pipe		Status
			Level (m)	Surch'd Depth (m)	Volume (m ³)	Flow / O'flow Cap. (l/s)	Flow (l/s)		
E1.000	E1	20	7.817	-0.083	0.000	0.07	0.0	0.5	OK
E2.000	E2	20	8.473	-0.077	0.000	0.13	0.0	1.8	OK
E1.001	E3	5	7.632	-0.118	0.000	0.09	0.0	1.8	OK
E1.002	E4	5	7.519	-0.131	0.000	0.04	0.0	1.8	OK

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Summary Wizard of 360 minute 100 year Summer I+20% for Existing

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m ³ /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 Storage Structures	1
Number of Online Controls	0	Number of Time/Area Diagrams	0
Number of Offline Controls	0	Number of Real Time Controls	0


Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.400
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)		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 (%)		20, 20, 20

PN	US/MH Name	Rank	Water		Flooded		Pipe		Status
			Level (m)	Surch'ed Depth (m)	Volume (m ³)	Flow / O'flow Cap. (l/s)	Pipe Flow (l/s)		
E1.000	E1	28	7.814	-0.086	0.000	0.05	0.0	0.4	OK
E2.000	E2	28	8.470	-0.080	0.000	0.09	0.0	1.3	OK
E1.001	E3	8	7.630	-0.120	0.000	0.08	0.0	1.5	OK
E1.002	E4	7	7.518	-0.132	0.000	0.03	0.0	1.5	OK

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Summary Wizard of 480 minute 100 year Summer I+20% for Existing

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

Synthetic Rainfall Details

Rainfall Model FSR Ratio R 0.400
Region England and Wales Cv (Summer) 0.750
M5-60 (mm) 19.100 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 (%) 20, 20, 20

PN	US/MH Name	Rank	Water		Flooded		Pipe		Status
			Level (m)	Surch'd Depth (m)	Volume (m ³)	Flow / O'flow Cap. (l/s)	Pipe Flow (l/s)		
E1.000	E1	31	7.812	-0.088	0.000	0.04	0.0	0.3	OK
E2.000	E2	31	8.468	-0.082	0.000	0.07	0.0	1.1	OK
E1.001	E3	11	7.626	-0.124	0.000	0.06	0.0	1.2	OK
E1.002	E4	11	7.516	-0.134	0.000	0.02	0.0	1.2	OK

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Summary Wizard of 600 minute 100 year Summer I+20% for Existing

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m ³ /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 Storage Structures	1
Number of Online Controls	0	Number of Time/Area Diagrams	0
Number of Offline Controls	0	Number of Real Time Controls	0


Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.400
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.100	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 (%)		20, 20, 20

PN	US/MH Name	Rank	Water		Flooded			Pipe		Status
			Level (m)	Surch'd Depth (m)	Volume (m ³)	Flow / Cap. (l/s)	O'flow (l/s)	Flow (l/s)		
E1.000	E1	36	7.812	-0.088	0.000	0.03	0.0	0.3	OK	
E2.000	E2	36	8.466	-0.084	0.000	0.06	0.0	0.9	OK	
E1.001	E3	15	7.623	-0.127	0.000	0.06	0.0	1.1	OK	
E1.002	E4	13	7.515	-0.135	0.000	0.02	0.0	1.1	OK	

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Summary Wizard of 15 minute 1 year Winter I+20% for Existing

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


Synthetic Rainfall Details

Rainfall Model FSR Ratio R 0.400
Region England and Wales Cv (Summer) 0.750
M5-60 (mm) 19.100 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 (%) 20, 20, 20

PN	US/MH Name	Rank	Water		Flooded			Pipe		Status
			Level (m)	Surch'd Depth (m)	Volume (m ³)	Flow / Cap.	O'flow (l/s)	Pipe Flow (l/s)		
E1.000	E1	14	7.820	-0.080	0.000	0.09	0.0	0.7	OK	
E2.000	E2	14	8.477	-0.073	0.000	0.16	0.0	2.4	OK	
E1.001	E3	71	6.419	-1.331	0.000	0.00	0.0	0.0	OK	
E1.002	E4	71	7.500	-0.150	0.000	0.00	0.0	0.0	OK	

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Summary Wizard of 30 minute 1 year Winter I+20% for Existing

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


Synthetic Rainfall Details

Rainfall Model FSR Ratio R 0.400
Region England and Wales Cv (Summer) 0.750
M5-60 (mm) 19.100 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 (%) 20, 20, 20

PN	US/MH Name	Rank	Water		Flooded			Pipe		Status
			Level (m)	Surch'd Depth (m)	Volume (m ³)	Flow / Cap.	O'flow (l/s)	Pipe Flow (l/s)		
E1.000	E1	21	7.816	-0.084	0.000	0.06	0.0	0.5	OK	
E2.000	E2	21	8.473	-0.077	0.000	0.12	0.0	1.8	OK	
E1.001	E3	69	6.546	-1.204	0.000	0.00	0.0	0.0	OK	
E1.002	E4	68	7.500	-0.150	0.000	0.00	0.0	0.0	OK	

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Summary Wizard of 180 minute 1 year Winter I+20% for Existing

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

Synthetic Rainfall Details

Rainfall Model FSR Ratio R 0.400
Region England and Wales Cv (Summer) 0.750
M5-60 (mm) 19.100 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 (%) 20, 20, 20

PN	US/MH Name	Rank	Water		Flooded			Pipe		Status
			Level (m)	Surch'ed Depth (m)	Volume (m ³)	Flow / Cap.	O'flow (l/s)	Pipe Flow (l/s)		
E1.000	E1	50	7.809	-0.091	0.000	0.02	0.0	0.2	OK	
E2.000	E2	50	8.463	-0.087	0.000	0.04	0.0	0.6	OK	
E1.001	E3	61	6.965	-0.785	0.000	0.00	0.0	0.0	OK	
E1.002	E4	64	7.500	-0.150	0.000	0.00	0.0	0.0	OK	

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Summary Wizard of 240 minute 1 year Winter I+20% for Existing

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m ³ /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 Storage Structures	1
Number of Online Controls	0	Number of Time/Area Diagrams	0
Number of Offline Controls	0	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.400
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.100	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 (%)	20, 20, 20

PN	US/MH Name	Rank	Water		Flooded			Pipe		Status
			Level (m)	Surch'd Depth (m)	Volume (m ³)	Flow / Cap. (l/s)	O'flow (l/s)	Flow (l/s)		
E1.000	E1	54	7.808	-0.092	0.000	0.02	0.0	0.1	OK	
E2.000	E2	54	8.462	-0.088	0.000	0.03	0.0	0.5	OK	
E1.001	E3	59	7.050	-0.700	0.000	0.00	0.0	0.0	OK	
E1.002	E4	63	7.500	-0.150	0.000	0.00	0.0	0.0	OK	

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Summary Wizard of 360 minute 1 year Winter I+20% for Existing

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


Synthetic Rainfall Details

Rainfall Model FSR Ratio R 0.400
Region England and Wales Cv (Summer) 0.750
M5-60 (mm) 19.100 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 (%) 20, 20, 20

PN	US/MH Name	Rank	Water		Flooded		Pipe		Status
			Level (m)	Surch'd Depth (m)	Volume (m ³)	Flow / O'flow Cap. (l/s)	Flow (l/s)		
E1.000	E1	61	7.806	-0.094	0.000	0.01	0.0	0.1	OK
E2.000	E2	61	8.460	-0.090	0.000	0.02	0.0	0.3	OK
E1.001	E3	56	7.180	-0.570	0.000	0.00	0.0	0.0	OK
E1.002	E4	58	7.500	-0.150	0.000	0.00	0.0	0.0	OK

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Summary Wizard of 600 minute 1 year Winter I+20% for Existing

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


Synthetic Rainfall Details

Rainfall Model FSR Ratio R 0.400
Region England and Wales Cv (Summer) 0.750
M5-60 (mm) 19.100 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 (%) 20, 20, 20

PN	US/MH Name	Rank	Water		Flooded			Pipe		Status
			Level (m)	Surch'd Depth (m)	Volume (m ³)	Flow / Cap.	O'flow (l/s)	Pipe Flow (l/s)		
E1.000	E1	67	7.804	-0.096	0.000	0.01	0.0	0.1	OK	
E2.000	E2	67	8.458	-0.092	0.000	0.02	0.0	0.2	OK	
E1.001	E3	48	7.354	-0.396	0.000	0.00	0.0	0.0	OK	
E1.002	E4	60	7.500	-0.150	0.000	0.00	0.0	0.0	OK	

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Summary Wizard of 720 minute 1 year Winter I+20% for Existing

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


Synthetic Rainfall Details

Rainfall Model FSR Ratio R 0.400
Region England and Wales Cv (Summer) 0.750
M5-60 (mm) 19.100 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 (%) 20, 20, 20

PN	US/MH Name	Rank	Water		Flooded			Pipe		Status
			Level (m)	Surch'd Depth (m)	Volume (m ³)	Flow / Cap.	O'flow (l/s)	Pipe Flow (l/s)		
E1.000	E1	69	7.803	-0.097	0.000	0.01	0.0	0.1	OK	
E2.000	E2	69	8.457	-0.093	0.000	0.01	0.0	0.2	OK	
E1.001	E3	46	7.422	-0.328	0.000	0.00	0.0	0.0	OK	
E1.002	E4	59	7.500	-0.150	0.000	0.00	0.0	0.0	OK	

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Summary Wizard of 960 minute 1 year Winter I+20% for Existing

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


Synthetic Rainfall Details

Rainfall Model FSR Ratio R 0.400
Region England and Wales Cv (Summer) 0.750
M5-60 (mm) 19.100 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 (%) 20, 20, 20

PN	US/MH Name	Rank	Water		Flooded			Pipe		Status
			Level (m)	Surch'd Depth (m)	Volume (m ³)	Flow / Cap.	O'flow (l/s)	Pipe Flow (l/s)		
E1.000	E1	70	7.803	-0.097	0.000	0.01	0.0	0.0	OK	
E2.000	E2	70	8.455	-0.095	0.000	0.01	0.0	0.2	OK	
E1.001	E3	43	7.537	-0.213	0.000	0.00	0.0	0.0	OK	
E1.002	E4	70	7.500	-0.150	0.000	0.00	0.0	0.0	OK	

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Summary Wizard of 1440 minute 1 year Winter I+20% for Existing

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


Synthetic Rainfall Details

Rainfall Model FSR Ratio R 0.400
Region England and Wales Cv (Summer) 0.750
M5-60 (mm) 19.100 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 (%) 20, 20, 20

PN	US/MH Name	Rank	Water		Flooded			Pipe		Status
			Level (m)	Surch'd Depth (m)	Volume (m ³)	Flow / Cap.	O'flow (l/s)	Pipe Flow (l/s)		
E1.000	E1	72	7.802	-0.098	0.000	0.00	0.0	0.0	OK	
E2.000	E2	72	8.454	-0.096	0.000	0.01	0.0	0.1	OK	
E1.001	E3	41	7.601	-0.149	0.000	0.00	0.0	0.0	OK	
E1.002	E4	41	7.500	-0.150	0.000	0.00	0.0	0.0	OK	

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Summary Wizard of 15 minute 30 year Winter I+20% for Existing

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


Synthetic Rainfall Details

Rainfall Model FSR Ratio R 0.400
Region England and Wales Cv (Summer) 0.750
M5-60 (mm) 19.100 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 (%) 20, 20, 20

PN	US/MH Name	Rank	Water		Flooded		Pipe		Status
			Level (m)	Surch'd Depth (m)	Volume (m ³)	Flow / O'flow Cap. (l/s)	Flow (l/s)		
E1.000	E1	4	7.831	-0.069	0.000	0.21	0.0	1.7	OK
E2.000	E2	4	8.494	-0.056	0.000	0.40	0.0	5.9	OK
E1.001	E3	60	7.028	-0.722	0.000	0.00	0.0	0.0	OK
E1.002	E4	69	7.500	-0.150	0.000	0.00	0.0	0.0	OK

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Summary Wizard of 240 minute 30 year Winter I+20% for Existing

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


Synthetic Rainfall Details

Rainfall Model FSR Ratio R 0.400
Region England and Wales Cv (Summer) 0.750
M5-60 (mm) 19.100 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 (%) 20, 20, 20

PN	US/MH Name	Rank	Water		Flooded		Pipe		Status
			Level (m)	Surch'd Depth (m)	Volume (m ³)	Flow / O'flow Cap. (l/s)	Flow (l/s)		
E1.000	E1	32	7.812	-0.088	0.000	0.04	0.0	0.3	OK
E2.000	E2	32	8.468	-0.082	0.000	0.07	0.0	1.0	OK
E1.001	E3	16	7.622	-0.128	0.000	0.05	0.0	1.0	OK
E1.002	E4	16	7.514	-0.136	0.000	0.02	0.0	1.0	OK

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Summary Wizard of 480 minute 30 year Winter I+20% for Existing

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


Synthetic Rainfall Details

Rainfall Model FSR Ratio R 0.400
Region England and Wales Cv (Summer) 0.750
M5-60 (mm) 19.100 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 (%) 20, 20, 20

PN	US/MH Name	Rank	Water		Flooded			Pipe		Status
			Level (m)	Surch'ed Depth (m)	Volume (m ³)	Flow / Cap.	O'flow (l/s)	Pipe Flow (l/s)		
E1.000	E1	47	7.810	-0.090	0.000	0.02	0.0	0.2	OK	
E2.000	E2	47	8.463	-0.087	0.000	0.04	0.0	0.6	OK	
E1.001	E3	26	7.618	-0.132	0.000	0.04	0.0	0.7	OK	
E1.002	E4	25	7.510	-0.140	0.000	0.01	0.0	0.7	OK	

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Summary Wizard of 600 minute 30 year Winter I+20% for Existing

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


Synthetic Rainfall Details

Rainfall Model FSR Ratio R 0.400
Region England and Wales Cv (Summer) 0.750
M5-60 (mm) 19.100 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 (%) 20, 20, 20

PN	US/MH Name	Rank	Water		Flooded			Pipe		Status
			Level (m)	Surch'ed Depth (m)	Volume (m ³)	Flow / Cap.	O'flow (l/s)	Pipe Flow (l/s)		
E1.000	E1	51	7.809	-0.091	0.000	0.02	0.0	0.1	OK	
E2.000	E2	51	8.462	-0.088	0.000	0.04	0.0	0.5	OK	
E1.001	E3	29	7.617	-0.133	0.000	0.03	0.0	0.6	OK	
E1.002	E4	29	7.509	-0.141	0.000	0.01	0.0	0.6	OK	

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Summary Wizard of 720 minute 30 year Winter I+20% for Existing

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


Synthetic Rainfall Details

Rainfall Model FSR Ratio R 0.400
Region England and Wales Cv (Summer) 0.750
M5-60 (mm) 19.100 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 (%) 20, 20, 20

PN	US/MH Name	Rank	Water		Flooded			Pipe		Status
			Level (m)	Surch'd Depth (m)	Volume (m ³)	Flow / Cap.	O'flow (l/s)	Pipe Flow (l/s)		
E1.000	E1	56	7.808	-0.092	0.000	0.02	0.0	0.1	OK	
E2.000	E2	56	8.461	-0.089	0.000	0.03	0.0	0.4	OK	
E1.001	E3	32	7.617	-0.133	0.000	0.03	0.0	0.6	OK	
E1.002	E4	32	7.508	-0.142	0.000	0.01	0.0	0.6	OK	

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Summary Wizard of 30 minute 100 year Winter I+20% for Existing

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


Synthetic Rainfall Details

Rainfall Model FSR Ratio R 0.400
Region England and Wales Cv (Summer) 0.750
M5-60 (mm) 19.100 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 (%) 20, 20, 20

PN	US/MH Name	Rank	Water		Flooded			Pipe		Status
			Level (m)	Surch'd Depth (m)	Volume (m ³)	Flow / Cap.	O'flow (l/s)	Pipe Flow (l/s)		
E1.000	E1	6	7.831	-0.069	0.000	0.21	0.0	1.6	OK	
E2.000	E2	6	8.494	-0.056	0.000	0.39	0.0	5.7	OK	
E1.001	E3	10	7.626	-0.124	0.000	0.07	0.0	1.4	OK	
E1.002	E4	10	7.516	-0.134	0.000	0.03	0.0	1.4	OK	

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Summary Wizard of 180 minute 100 year Winter I+20% for Existing

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


Synthetic Rainfall Details


Rainfall Model FSR Ratio R 0.400
Region England and Wales Cv (Summer) 0.750
M5-60 (mm) 19.100 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 (%) 20, 20, 20

PN	US/MH Name	Rank	Water		Flooded			Pipe		Status
			Level (m)	Surch'ed Depth (m)	Volume (m ³)	Flow / Cap.	O'flow (l/s)	Pipe Flow (l/s)		
E1.000	E1	24	7.816	-0.084	0.000	0.06	0.0	0.5	OK	
E2.000	E2	24	8.473	-0.077	0.000	0.12	0.0	1.7	OK	
E1.001	E3	4	7.632	-0.118	0.000	0.10	0.0	2.0	OK	
E1.002	E4	4	7.519	-0.131	0.000	0.04	0.0	2.0	OK	

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<u>Summary Wizard of 240 minute 100 year Winter I+20% for Existing</u>																																																											
<u>Simulation Criteria</u>																																																											
Areal Reduction Factor	1.000	Additional Flow - % of Total Flow 0.000																																																									
Hot Start (mins)	0	MADD Factor * 10m ³ /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 Storage Structures 1																																																											
Number of Online Controls 0 Number of Time/Area Diagrams 0																																																											
Number of Offline Controls 0 Number of Real Time Controls 0																																																											
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Rainfall Model	FSR	Ratio R 0.400																																																									
Region England and Wales	Cv (Summer)	0.750																																																									
M5-60 (mm)	19.100 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 (%)		20, 20, 20																																																									
<table border="1"> <thead> <tr> <th rowspan="2">PN</th> <th rowspan="2">US/MH Name</th> <th rowspan="2">Rank</th> <th colspan="2">Water</th> <th colspan="3">Flooded</th> <th colspan="2">Pipe</th> <th rowspan="2">Status</th> </tr> <tr> <th>Level (m)</th> <th>Surch'd Depth (m)</th> <th>Volume (m³)</th> <th>Flow / Cap. (l/s)</th> <th>O'flow (l/s)</th> <th>Flow (l/s)</th> </tr> </thead> <tbody> <tr> <td>E1.000</td> <td>E1</td> <td>27</td> <td>7.814</td> <td>-0.086</td> <td>0.000</td> <td>0.05</td> <td>0.0</td> <td>0.4</td> <td>OK</td> </tr> <tr> <td>E2.000</td> <td>E2</td> <td>27</td> <td>8.470</td> <td>-0.080</td> <td>0.000</td> <td>0.09</td> <td>0.0</td> <td>1.4</td> <td>OK</td> </tr> <tr> <td>E1.001</td> <td>E3</td> <td>7</td> <td>7.630</td> <td>-0.120</td> <td>0.000</td> <td>0.09</td> <td>0.0</td> <td>1.7</td> <td>OK</td> </tr> <tr> <td>E1.002</td> <td>E4</td> <td>8</td> <td>7.518</td> <td>-0.132</td> <td>0.000</td> <td>0.03</td> <td>0.0</td> <td>1.7</td> <td>OK</td> </tr> </tbody> </table>			PN	US/MH Name	Rank	Water		Flooded			Pipe		Status	Level (m)	Surch'd Depth (m)	Volume (m ³)	Flow / Cap. (l/s)	O'flow (l/s)	Flow (l/s)	E1.000	E1	27	7.814	-0.086	0.000	0.05	0.0	0.4	OK	E2.000	E2	27	8.470	-0.080	0.000	0.09	0.0	1.4	OK	E1.001	E3	7	7.630	-0.120	0.000	0.09	0.0	1.7	OK	E1.002	E4	8	7.518	-0.132	0.000	0.03	0.0	1.7	OK
PN	US/MH Name	Rank				Water		Flooded			Pipe			Status																																													
			Level (m)	Surch'd Depth (m)	Volume (m ³)	Flow / Cap. (l/s)	O'flow (l/s)	Flow (l/s)																																																			
E1.000	E1	27	7.814	-0.086	0.000	0.05	0.0	0.4	OK																																																		
E2.000	E2	27	8.470	-0.080	0.000	0.09	0.0	1.4	OK																																																		
E1.001	E3	7	7.630	-0.120	0.000	0.09	0.0	1.7	OK																																																		
E1.002	E4	8	7.518	-0.132	0.000	0.03	0.0	1.7	OK																																																		
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Summary Wizard of 480 minute 100 year Winter I+20% for Existing

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


Synthetic Rainfall Details

Rainfall Model FSR Ratio R 0.400
Region England and Wales Cv (Summer) 0.750
M5-60 (mm) 19.100 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 (%) 20, 20, 20

PN	US/MH Name	Rank	Water		Flooded		Pipe		Status
			Level (m)	Surch'ed Depth (m)	Volume (m ³)	Flow / O'flow Cap. (l/s)	Pipe Flow (l/s)		
E1.000	E1	38	7.811	-0.089	0.000	0.03	0.0	0.2	OK
E2.000	E2	38	8.465	-0.085	0.000	0.05	0.0	0.8	OK
E1.001	E3	17	7.622	-0.128	0.000	0.05	0.0	1.0	OK
E1.002	E4	17	7.514	-0.136	0.000	0.02	0.0	1.0	OK

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Summary Wizard of 600 minute 100 year Winter I+20% for Existing

Simulation Criteria

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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

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

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Synthetic Rainfall Details

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Rainfall Model FSR Ratio R 0.400
Region England and Wales Cv (Summer) 0.750
M5-60 (mm) 19.100 Cv (Winter) 0.840

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


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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 (%) 20, 20, 20

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PN	US/MH Name	Rank	Water		Flooded			Pipe		Status
			Level (m)	Surch'd Depth (m)	Volume (m³)	Flow / Cap.	O'flow (l/s)	Pipe Flow (l/s)		
E1.000	E1	44	7.810	-0.090	0.000	0.02	0.0	0.2	OK	
E2.000	E2	44	8.464	-0.086	0.000	0.05	0.0	0.7	OK	
E1.001	E3	20	7.620	-0.130	0.000	0.04	0.0	0.8	OK	
E1.002	E4	20	7.511	-0.139	0.000	0.02	0.0	0.8	OK	

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Summary Wizard of 720 minute 100 year Winter I+20% for Existing

Simulation Criteria


Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m ³ /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 Storage Structures	1
Number of Online Controls	0	Number of Time/Area Diagrams	0
Number of Offline Controls	0	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.400
Region England and Wales	Cv (Summer)		0.750
M5-60 (mm)	19.100	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 (%)			20, 20, 20

		Water		Flooded		Pipe			
	US/MH	Level	Surch'ed	Volume	Flow / O'flow	Flow			
PN	Name	Rank	(m)	Depth (m)	(m³)	Cap. (l/s)	(l/s)	(l/s)	Status
E1.000	E1	49	7.810	-0.090	0.000	0.02	0.0	0.2	OK
E2.000	E2	49	8.463	-0.087	0.000	0.04	0.0	0.6	OK
E1.001	E3	25	7.619	-0.131	0.000	0.04	0.0	0.7	OK
E1.002	E4	24	7.510	-0.140	0.000	0.01	0.0	0.7	OK

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Summary Wizard of 960 minute 100 year Winter I+20% for Existing

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


Synthetic Rainfall Details

Rainfall Model FSR Ratio R 0.400
Region England and Wales Cv (Summer) 0.750
M5-60 (mm) 19.100 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 (%) 20, 20, 20

PN	US/MH Name	Rank	Water		Flooded			Pipe		Status
			Level (m)	Surch'd Depth (m)	Volume (m³)	Flow / Cap.	O'flow (l/s)	Pipe Flow (l/s)		
E1.000	E1	55	7.808	-0.092	0.000	0.02	0.0	0.1	OK	
E2.000	E2	55	8.462	-0.088	0.000	0.03	0.0	0.5	OK	
E1.001	E3	31	7.617	-0.133	0.000	0.03	0.0	0.6	OK	
E1.002	E4	31	7.508	-0.142	0.000	0.01	0.0	0.6	OK	

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Summary Wizard of 1440 minute 100 year Winter I+20% for Existing

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

Synthetic Rainfall Details

Rainfall Model FSR Ratio R 0.400
Region England and Wales Cv (Summer) 0.750
M5-60 (mm) 19.100 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 (%) 20, 20, 20

PN	US/MH Name	Rank	Water		Flooded			Pipe		Status
			Level (m)	Surch'd Depth (m)	Volume (m ³)	Flow / Cap.	O'flow (l/s)	Pipe Flow (l/s)		
E1.000	E1	62	7.806	-0.094	0.000	0.01	0.0	0.1	OK	
E2.000	E2	62	8.460	-0.090	0.000	0.02	0.0	0.3	OK	
E1.001	E3	38	7.615	-0.135	0.000	0.02	0.0	0.4	OK	
E1.002	E4	38	7.506	-0.144	0.000	0.01	0.0	0.4	OK	