STORM SEWER DESIGN by the Modified Rational Method

Design Criteria for Surface Water Network

Pipe Sizes STANDARD Manhole Sizes STANDARD

FSR Rainfall Model - England and Wales

Return Period (years)	100	PIMP (%)	100
M5-60 (mm)	19.600	Add Flow / Climate Change (%)	40
Ratio R	0.402	Minimum Backdrop Height (m)	0.200
Maximum Rainfall (mm/hr)	75	Maximum Backdrop Height (m)	1.500
Maximum Time of Concentration (mins)	30	Min Design Depth for Optimisation (m)	1.200
Foul Sewage (l/s/ha)	0.000	Min Vel for Auto Design only (m/s)	1.00
Volumetric Runoff Coeff.	0.750	Min Slope for Optimisation (1:X)	500

Designed with Level Soffits

Network Design Table for Surface Water Network

« - Indicates pipe capacity < flow

PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	n	HYD SECT	DIA (mm)	Section Type	Auto Design
1.000	50.092	1.200	41.7	0.107	5.00	0.0	0.600		o	225	Pipe/Conduit	
1.001	19.423	0.730	26.6	0.013	0.00	0.0	0.600		o	225	Pipe/Conduit	
1.002	21.485	0.126	170.5	0.032	0.00	0.0	0.600		o	225	Pipe/Conduit	
1.003	11.758	0.565	20.8	0.127	0.00	0.0	0.600		o	375	Pipe/Conduit	
2.000	43.463	0.660	65.9	0.472	5.00	0.0	0.600		o	375	Pipe/Conduit	
2.001	40.489	1.110	36.5	0.140	0.00	0.0	0.600		o	375	Pipe/Conduit	
2.002	13.983	0.455	30.7	0.087	0.00	0.0	0.600		o	450	Pipe/Conduit	

Network Results Table

PN	Rain (mm/hr)	T.C. (mins)	US/IL (m)	Σ I.Area (ha)	Σ Base Flow (l/s)	Foul (l/s)	Add Flow (l/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)
1.000	75.00	5.41	113.850	0.107	0.0	0.0	8.7	2.03	80.7	30.4
1.001	75.00	5.54	112.650	0.120	0.0	0.0	9.7	2.55	101.3	34.1
1.002	75.00	5.90	111.920	0.152	0.0	0.0	12.3	1.00	39.7«	43.2
1.003	75.00	5.95	111.640	0.279	0.0	0.0	22.7	3.99	440.4	79.3
2.000	75.00	5.32	113.300	0.472	0.0	0.0	38.3	2.24	246.9	134.2
2.001	75.00	5.55	112.640	0.612	0.0	0.0	49.7	3.01	332.3	174.0
2.002	75.00	5.61	111.455	0.699	0.0	0.0	56.8	3.68	584.9	198.8

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Network Design Table for Surface Water Network

PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	n	HYD SECT	DIA (mm)	Section Type	Auto Design
1.004	28.004	0.141	198.6	0.102	0.00	0.0	0.600		o	450	Pipe/Conduit	🔒
1.005	26.776	0.690	38.8	0.188	0.00	0.0	0.600		o	450	Pipe/Conduit	🔒
1.006	21.930	1.319	16.6	0.026	0.00	0.0	0.600		o	450	Pipe/Conduit	🔒
1.007	52.729	1.750	30.1	0.259	0.00	0.0	0.600		o	600	Pipe/Conduit	🔒
1.008	16.134	0.236	68.4	0.149	0.00	0.0	0.600		o	600	Pipe/Conduit	🔒
3.000	30.855	1.060	29.1	0.055	5.00	0.0	0.600		o	225	Pipe/Conduit	🔒
3.001	21.906	0.705	31.1	0.132	0.00	0.0	0.600		o	300	Pipe/Conduit	🔒
3.002	29.084	1.746	16.7	0.056	0.00	0.0	0.600		o	300	Pipe/Conduit	🔒
1.009	32.017	0.071	450.9	0.058	0.00	0.0	0.600		o	600	Pipe/Conduit	🔒
1.010	11.920	0.025	476.8	0.024	0.00	0.0	0.600		o	675	Pipe/Conduit	🔒
1.011	21.125	0.044	476.0	0.000	0.00	0.0	0.600		o	675	Pipe/Conduit	🔒
4.000	24.119	0.450	53.6	0.186	5.00	0.0		0.050	v	-1	Pipe/Conduit	🔒
4.001	3.063	0.030	102.1	0.000	0.00	0.0		0.050	v	-1	Pipe/Conduit	🔒
4.002	18.973	0.290	65.4	0.000	0.00	0.0		0.050	v	-1	Pipe/Conduit	🔒
4.003	30.004	1.700	17.6	0.025	0.00	0.0		0.050	v	-1	Pipe/Conduit	🔒
4.004	51.681	1.190	43.4	0.072	0.00	0.0		0.050	v	-1	Pipe/Conduit	🔒
4.005	10.410	1.451	7.2	0.000	0.00	0.0		0.050	v	-1	Pipe/Conduit	🔒

Network Results Table

PN	Rain (mm/hr)	T.C. (mins)	US/IL (m)	Σ I.Area (ha)	Σ Base Flow (l/s)	Foul (l/s)	Add Flow (l/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)
1.004	75.00	6.27	111.000	1.080	0.0	0.0	87.7	1.44	228.9«	307.1
1.005	75.00	6.41	110.859	1.268	0.0	0.0	103.0	3.27	520.3	360.6
1.006	75.00	6.48	110.169	1.294	0.0	0.0	105.1	5.00	796.0	368.0
1.007	75.00	6.68	108.700	1.553	0.0	0.0	126.2	4.45	1257.5	441.6
1.008	75.00	6.77	106.950	1.702	0.0	0.0	138.3	2.95	833.6	484.0
3.000	75.00	5.21	110.600	0.055	0.0	0.0	4.5	2.43	96.8	15.6
3.001	75.00	5.34	109.465	0.187	0.0	0.0	15.2	2.83	200.1	53.2
3.002	75.00	5.47	108.760	0.243	0.0	0.0	19.7	3.87	273.6	69.1
1.009	75.00	7.24	106.714	2.003	0.0	0.0	162.7	1.14	322.4«	569.6
1.010	75.00	7.40	106.568	2.027	0.0	0.0	164.7	1.19	427.1«	576.4
1.011	75.00	7.70	106.543	2.027	0.0	0.0	164.7	1.19	427.5«	576.4
4.000	75.00	5.27	111.610	0.186	0.0	0.0	15.1	1.48	3217.5	52.9
4.001	75.00	5.32	111.160	0.186	0.0	0.0	15.1	1.07	2331.2	52.9
4.002	75.00	5.55	111.130	0.186	0.0	0.0	15.1	1.34	2912.2	52.9
4.003	75.00	5.75	110.840	0.211	0.0	0.0	17.1	2.58	5606.9	60.0
4.004	75.00	6.27	109.140	0.283	0.0	0.0	23.0	1.65	3574.3	80.5
4.005	75.00	6.31	107.950	0.283	0.0	0.0	23.0	4.05	8794.2	80.5

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Network Design Table for Surface Water Network

PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	n	HYD SECT	DIA (mm)	Section Type	Auto Design
1.012	17.926	0.195	91.9	0.114	0.00	0.0	0.600		o	675	Pipe/Conduit	
5.000	43.052	0.760	56.6	0.126	5.00	0.0	0.600		o	225	Pipe/Conduit	
5.001	8.941	0.065	137.6	0.000	0.00	0.0	0.600		o	225	Pipe/Conduit	
5.002	7.586	0.155	48.9	0.208	0.00	0.0	0.600		o	300	Pipe/Conduit	
5.003	32.882	1.190	27.6	0.035	0.00	0.0	0.600		o	375	Pipe/Conduit	
5.004	38.620	2.705	14.3	0.117	0.00	0.0	0.600		o	375	Pipe/Conduit	
5.005	9.484	0.058	163.5	0.089	0.00	0.0	0.600		o	375	Pipe/Conduit	
5.006	13.782	0.043	320.5	0.036	0.00	0.0	0.600		o	375	Pipe/Conduit	
5.007	22.332	0.055	406.0	0.025	0.00	0.0	0.600		o	450	Pipe/Conduit	
5.008	32.676	0.081	403.4	0.051	0.00	0.0	0.600		o	450	Pipe/Conduit	
5.009	53.372	0.132	404.3	0.136	0.00	0.0	0.600		o	450	Pipe/Conduit	
1.013	19.480	0.050	389.6	0.025	0.00	0.0	0.600		o	675	Pipe/Conduit	
1.014	19.984	0.079	253.0	0.000	0.00	0.0	0.600		o	675	Pipe/Conduit	
1.015	8.849	0.050	177.0	0.000	0.00	0.0	0.600		o	675	Pipe/Conduit	
1.016	7.222	0.050	144.4	0.000	0.00	0.0	0.600		o	225	Pipe/Conduit	

Network Results Table

PN	Rain (mm/hr)	T.C. (mins)	US/IL (m)	Σ I.Area (ha)	Σ Base Flow (l/s)	Foul (l/s)	Add Flow (l/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)
1.012	75.00	7.81	106.499	2.424	0.0	0.0	196.9	2.73	978.5	689.3
5.000	75.00	5.41	111.770	0.126	0.0	0.0	10.2	1.74	69.2	35.8
5.001	75.00	5.55	111.010	0.126	0.0	0.0	10.2	1.11	44.3	35.8
5.002	75.00	5.60	110.870	0.334	0.0	0.0	27.1	2.25	159.2	95.0
5.003	75.00	5.76	110.640	0.369	0.0	0.0	30.0	3.46	382.0	104.9
5.004	75.00	5.89	109.450	0.486	0.0	0.0	39.5	4.82	532.0	138.2
5.005	75.00	6.01	106.745	0.575	0.0	0.0	46.7	1.41	156.2«	163.5
5.006	75.00	6.23	106.687	0.611	0.0	0.0	49.6	1.01	111.2«	173.7
5.007	75.00	6.61	106.569	0.636	0.0	0.0	51.7	1.00	159.5«	180.9
5.008	75.00	7.15	106.514	0.687	0.0	0.0	55.8	1.01	160.0«	195.4
5.009	75.00	8.03	106.433	0.823	0.0	0.0	66.9	1.00	159.8«	234.0
1.013	75.00	8.28	106.304	3.272	0.0	0.0	265.8	1.32	473.0«	930.4
1.014	75.00	8.48	106.254	3.272	0.0	0.0	265.8	1.64	588.0«	930.4
1.015	75.00	8.56	106.100	3.272	0.0	0.0	265.8	1.97	703.9«	930.4
1.016	75.00	8.67	106.050	3.272	0.0	0.0	265.8	1.09	43.2«	930.4

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Free Flowing Outfall Details for Surface Water Network

Outfall Pipe Number	Outfall Name	C. Level (m)	I. Level (m)	Min I. Level (m)	D,L (mm)	W (mm)
1.016	S37	107.300	106.000	0.000	0	0

Simulation Criteria for Surface Water Network

Volumetric Runoff Coeff	0.750	Additional Flow - % of Total Flow	0.000
Areal Reduction Factor	1.000	MADD Factor * 10m³/ha Storage	0.000
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 Offline Controls	5	Number of Time/Area Diagrams	0
Number of Online Controls	3	Number of Storage Structures	2	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model	FSR	Profile Type	Summer
Return Period (years)	100	Cv (Summer)	0.750
Region	England and Wales	Cv (Winter)	0.840
M5-60 (mm)	19.600	Storm Duration (mins)	30
Ratio R	0.402		

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Online Controls for Surface Water Network

Orifice Manhole: S41, DS/PN: 4.003, Volume (m³): 39.2

Diameter (m) 0.150 Discharge Coefficient 0.600 Invert Level (m) 110.840

Orifice Manhole: S43, DS/PN: 4.005, Volume (m³): 110.2

Diameter (m) 0.150 Discharge Coefficient 0.600 Invert Level (m) 107.950

Hydro-Brake® Optimum Manhole: S35, DS/PN: 1.015, Volume (m³): 9.6

Unit Reference	MD-SHE-0201-2190-1400-2190
Design Head (m)	1.400
Design Flow (l/s)	21.9
Flush-Flo™	Calculated
Objective	Minimise upstream storage
Application	Surface
Sump Available	Yes
Diameter (mm)	201
Invert Level (m)	106.100
Minimum Outlet Pipe Diameter (mm)	225
Suggested Manhole Diameter (mm)	1500

Control Points	Head (m)	Flow (l/s)	Control Points	Head (m)	Flow (l/s)
Design Point (Calculated)	1.400	21.9	Kick-Flo®	0.936	18.1
Flush-Flo™	0.425	21.9	Mean Flow over Head Range	-	18.8

The hydrological calculations have been based on the Head/Discharge relationship for the Hydro-Brake® Optimum as specified. Should another type of control device other than a Hydro-Brake Optimum® be utilised then these storage routing calculations will be invalidated

Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)
0.100	6.9	1.200	20.4	3.000	31.5	7.000	47.5
0.200	19.0	1.400	21.9	3.500	34.0	7.500	49.1
0.300	21.5	1.600	23.3	4.000	36.2	8.000	50.7
0.400	21.9	1.800	24.7	4.500	38.3	8.500	52.2
0.500	21.8	2.000	26.0	5.000	40.3	9.000	53.6
0.600	21.5	2.200	27.2	5.500	42.2	9.500	55.1
0.800	20.3	2.400	28.3	6.000	44.1		
1.000	18.7	2.600	29.4	6.500	45.8		

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Storage Structures for Surface Water Network

Tank or Pond Manhole: S33, DS/PN: 1.013

Invert Level (m) 106.400

Depth (m)	Area (m²)	Depth (m)	Area (m²)
0.000	175.0	1.200	638.0

Tank or Pond Manhole: S35, DS/PN: 1.015

Invert Level (m) 106.100

Depth (m)	Area (m²)	Depth (m)	Area (m²)	Depth (m)	Area (m²)	Depth (m)	Area (m²)
0.000	791.8	0.500	992.5	1.000	1206.7	1.500	1434.5
0.100	830.9	0.600	1034.2	1.100	1251.2	1.600	1481.7
0.200	870.4	0.700	1076.5	1.200	1296.2	1.700	1529.3
0.300	910.6	0.800	1119.4	1.300	1341.7		
0.400	951.3	0.900	1162.8	1.400	1387.8		

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Summary Wizard of 15 minute 1 year Summer I+0% for Surface Water Network

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	0.000
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	5	Number of Time/Area Diagrams	0
Number of Online Controls	3	Number of Storage Structures	2	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.401
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.600	Cv (Winter)	0.840

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

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, 40

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S4	20	113.914	-0.161	0.000	0.18		13.7	OK
1.001	S5	20	112.712	-0.163	0.000	0.17		15.2	OK
1.002	S6	20	112.036	-0.109	0.000	0.52		18.7	OK
1.003	S7	20	111.723	-0.292	0.000	0.11		32.1	OK
2.000	S1	20	113.433	-0.242	0.000	0.27		60.9	OK
2.001	S2	20	112.768	-0.247	0.000	0.25		75.6	OK
2.002	S3	20	111.600	-0.305	0.000	0.22		85.4	OK
1.004	S8	20	111.269	-0.181	0.000	0.66		128.6	OK
1.005	S9	21	111.038	-0.271	0.000	0.34		147.9	OK
1.006	S10	20	110.316	-0.303	0.000	0.23		149.9	OK
1.007	S11	22	108.860	-0.440	0.000	0.16		176.0	OK
1.008	S12	33	107.219	-0.331	0.000	0.39		189.7	OK
3.000	S13	20	110.642	-0.183	0.000	0.08		7.1	OK
3.001	S14	20	109.535	-0.230	0.000	0.12		21.7	OK
3.002	S15	22	108.827	-0.233	0.000	0.11		27.7	OK

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Summary Wizard of 15 minute 1 year Summer I+0% for Surface Water Network

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.009	S16	33	107.176	-0.138	0.000	0.81		215.7	OK
1.010	S17	33	107.101	-0.142	0.000	1.00		215.9	OK
1.011	S18	33	106.971	-0.247	0.000	0.72		213.6	OK
4.000	S38	20	111.659	-0.651	0.000	0.01		24.0	OK
4.001	S39	20	111.224	-0.636	0.000	0.01	2.2	21.9	OK
4.002	S40	20	111.177	-0.653	0.000	0.01	1.2	20.8	OK
4.003	S41	20	110.997	-0.543	0.000	0.00	11.1	11.1	OK
4.004	S42	22	109.172	-0.668	0.000	0.00	0.6	17.2	OK
4.005	S43	23	108.083	-0.567	0.000	0.00	8.4	8.5	OK
1.012	S32	44	106.802	-0.372	0.000	0.41		230.7	OK
5.000	S22	20	111.846	-0.149	0.000	0.24		16.1	OK
5.001	S23	20	111.117	-0.118	0.000	0.45		16.3	OK
5.002	S24	20	111.002	-0.168	0.000	0.39		38.4	OK
5.003	S25	20	110.728	-0.287	0.000	0.12		42.3	OK
5.004	S26	22	109.535	-0.290	0.000	0.11		54.9	OK
5.005	S27	33	106.969	-0.151	0.000	0.60		64.5	OK
5.006	S28	33	106.942	-0.120	0.000	0.80		67.9	OK
5.007	S29	42	106.814	-0.205	0.000	0.53		69.2	OK
5.008	S30	50	106.756	-0.208	0.000	0.51		71.3	OK
5.009	S31	51	106.703	-0.180	0.000	0.52		76.6	OK
1.013	S33	52	106.679	-0.300	0.000	0.59		202.4	OK
1.014	S34	52	106.581	-0.348	0.000	0.47		203.1	OK
1.015	S35	72	106.293	-0.482	0.000	0.03		12.0	OK
1.016	S36	72	106.146	-0.129	0.000	0.38		12.0	OK

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Summary Wizard of 30 minute 1 year Summer I+0% for Surface Water Network

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	0.000
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	5	Number of Time/Area Diagrams	0
Number of Online Controls	3	Number of Storage Structures	2	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.401
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.600	Cv (Winter)	0.840

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

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, 40

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S4	21	113.910	-0.165	0.000	0.16		12.5	OK
1.001	S5	23	112.708	-0.167	0.000	0.15		13.8	OK
1.002	S6	23	112.029	-0.116	0.000	0.47		17.0	OK
1.003	S7	23	111.720	-0.295	0.000	0.10		29.8	OK
2.000	S1	21	113.425	-0.250	0.000	0.25		55.4	OK
2.001	S2	23	112.762	-0.253	0.000	0.23		69.7	OK
2.002	S3	23	111.593	-0.312	0.000	0.21		78.5	OK
1.004	S8	23	111.255	-0.195	0.000	0.61		118.0	OK
1.005	S9	23	111.031	-0.278	0.000	0.31		137.0	OK
1.006	S10	23	110.310	-0.309	0.000	0.22		139.6	OK
1.007	S11	24	108.854	-0.446	0.000	0.15		164.8	OK
1.008	S12	36	107.207	-0.343	0.000	0.37		178.7	OK
3.000	S13	21	110.639	-0.186	0.000	0.07		6.5	OK
3.001	S14	24	109.532	-0.233	0.000	0.11		20.0	OK
3.002	S15	25	108.824	-0.236	0.000	0.10		25.7	OK

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Summary Wizard of 30 minute 1 year Summer I+0% for Surface Water Network

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.009	S16	36	107.159	-0.155	0.000	0.77		203.7	OK
1.010	S17	36	107.084	-0.159	0.000	0.95		203.7	OK
1.011	S18	36	106.956	-0.262	0.000	0.68		203.6	OK
4.000	S38	21	111.654	-0.656	0.000	0.01		21.8	OK
4.001	S39	21	111.218	-0.642	0.000	0.01	1.9	20.0	OK
4.002	S40	21	111.172	-0.658	0.000	0.01	1.0	18.9	OK
4.003	S41	23	110.990	-0.550	0.000	0.00	10.2	10.3	OK
4.004	S42	25	109.170	-0.670	0.000	0.00	0.5	16.4	OK
4.005	S43	25	108.080	-0.570	0.000	0.00	8.0	8.1	OK
1.012	S32	46	106.792	-0.382	0.000	0.39		219.4	OK
5.000	S22	21	111.842	-0.153	0.000	0.22		14.8	OK
5.001	S23	21	111.110	-0.125	0.000	0.41		14.7	OK
5.002	S24	23	110.995	-0.175	0.000	0.36		35.9	OK
5.003	S25	24	110.725	-0.290	0.000	0.12		39.3	OK
5.004	S26	25	109.532	-0.293	0.000	0.11		51.1	OK
5.005	S27	36	106.958	-0.162	0.000	0.56		59.8	OK
5.006	S28	36	106.931	-0.131	0.000	0.75		63.6	OK
5.007	S29	46	106.809	-0.210	0.000	0.49		64.6	OK
5.008	S30	49	106.757	-0.207	0.000	0.48		67.2	OK
5.009	S31	50	106.713	-0.170	0.000	0.50		72.9	OK
1.013	S33	51	106.687	-0.292	0.000	0.61		210.3	OK
1.014	S34	51	106.588	-0.341	0.000	0.49		209.6	OK
1.015	S35	70	106.342	-0.433	0.000	0.04		16.1	OK
1.016	S36	70	106.164	-0.111	0.000	0.51		16.1	OK

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Summary Wizard of 60 minute 1 year Summer I+0% for Surface Water Network

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	0.000
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	5	Number of Time/Area Diagrams	0
Number of Online Controls	3	Number of Storage Structures	2	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.401
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.600	Cv (Winter)	0.840

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

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, 40

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S4	28	113.902	-0.173	0.000	0.12		9.5	OK
1.001	S5	28	112.701	-0.174	0.000	0.12		10.5	OK
1.002	S6	29	112.014	-0.131	0.000	0.36		13.1	OK
1.003	S7	29	111.710	-0.305	0.000	0.08		23.4	OK
2.000	S1	28	113.408	-0.267	0.000	0.18		41.8	OK
2.001	S2	29	112.745	-0.270	0.000	0.18		53.2	OK
2.002	S3	29	111.574	-0.331	0.000	0.16		60.3	OK
1.004	S8	29	111.218	-0.232	0.000	0.47		92.0	OK
1.005	S9	29	111.009	-0.300	0.000	0.24		107.3	OK
1.006	S10	29	110.292	-0.327	0.000	0.17		109.3	OK
1.007	S11	30	108.836	-0.464	0.000	0.12		130.0	OK
1.008	S12	39	107.171	-0.379	0.000	0.29		141.7	OK
3.000	S13	28	110.633	-0.192	0.000	0.05		4.9	OK
3.001	S14	30	109.525	-0.240	0.000	0.09		15.7	OK
3.002	S15	30	108.817	-0.243	0.000	0.08		20.3	OK

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Summary Wizard of 60 minute 1 year Summer I+0% for Surface Water Network

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.009	S16	39	107.091	-0.223	0.000	0.62		164.1	OK
1.010	S17	39	107.014	-0.229	0.000	0.77		164.8	OK
1.011	S18	39	106.902	-0.316	0.000	0.55		164.2	OK
4.000	S38	28	111.643	-0.667	0.000	0.01		16.5	OK
4.001	S39	28	111.204	-0.656	0.000	0.01	1.1	15.4	OK
4.002	S40	28	111.163	-0.667	0.000	0.01	0.6	14.7	OK
4.003	S41	29	110.970	-0.570	0.000	0.00	8.1	8.2	OK
4.004	S42	30	109.165	-0.675	0.000	0.00	0.4	13.4	OK
4.005	S43	30	108.064	-0.586	0.000	0.00	6.6	6.6	OK
1.012	S32	50	106.761	-0.413	0.000	0.32		178.3	OK
5.000	S22	28	111.832	-0.163	0.000	0.17		11.1	OK
5.001	S23	28	111.096	-0.139	0.000	0.31		11.1	OK
5.002	S24	29	110.979	-0.191	0.000	0.29		28.1	OK
5.003	S25	29	110.716	-0.299	0.000	0.09		30.9	OK
5.004	S26	30	109.523	-0.302	0.000	0.08		40.4	OK
5.005	S27	39	106.925	-0.195	0.000	0.45		47.7	OK
5.006	S28	40	106.896	-0.166	0.000	0.60		50.6	OK
5.007	S29	50	106.785	-0.234	0.000	0.40		52.0	OK
5.008	S30	51	106.737	-0.227	0.000	0.39		54.4	OK
5.009	S31	53	106.693	-0.190	0.000	0.42		60.7	OK
1.013	S33	53	106.665	-0.314	0.000	0.56		190.9	OK
1.014	S34	53	106.569	-0.360	0.000	0.45		191.2	OK
1.015	S35	66	106.388	-0.387	0.000	0.05		19.3	OK
1.016	S36	66	106.177	-0.098	0.000	0.61		19.3	OK

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Summary Wizard of 120 minute 1 year Summer I+0% for Surface Water Network

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	0.000
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	5	Number of Time/Area Diagrams	0
Number of Online Controls	3	Number of Storage Structures	2	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.401
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.600	Cv (Winter)	0.840

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

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, 40

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S4	38	113.893	-0.182	0.000	0.08		6.4	OK
1.001	S5	38	112.692	-0.183	0.000	0.08		7.1	OK
1.002	S6	38	111.996	-0.149	0.000	0.25		9.0	OK
1.003	S7	38	111.697	-0.318	0.000	0.06		16.3	OK
2.000	S1	38	113.388	-0.287	0.000	0.13		28.3	OK
2.001	S2	38	112.726	-0.289	0.000	0.12		36.3	OK
2.002	S3	38	111.553	-0.352	0.000	0.11		41.3	OK
1.004	S8	38	111.176	-0.274	0.000	0.33		63.4	OK
1.005	S9	38	110.982	-0.327	0.000	0.17		74.2	OK
1.006	S10	38	110.271	-0.348	0.000	0.12		75.7	OK
1.007	S11	38	108.814	-0.486	0.000	0.08		90.4	OK
1.008	S12	44	107.133	-0.417	0.000	0.20		98.8	OK
3.000	S13	38	110.628	-0.197	0.000	0.04		3.3	OK
3.001	S14	38	109.513	-0.252	0.000	0.06		10.9	OK
3.002	S15	38	108.806	-0.254	0.000	0.06		14.1	OK

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Summary Wizard of 120 minute 1 year Summer I+0% for Surface Water Network

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.009	S16	44	107.008	-0.306	0.000	0.43		115.5	OK
1.010	S17	44	106.922	-0.321	0.000	0.54		116.4	OK
1.011	S18	48	106.835	-0.383	0.000	0.39		116.3	OK
4.000	S38	38	111.632	-0.678	0.000	0.00		11.1	OK
4.001	S39	38	111.190	-0.670	0.000	0.01	0.5	10.6	OK
4.002	S40	38	111.153	-0.677	0.000	0.00	0.3	10.3	OK
4.003	S41	38	110.945	-0.595	0.000	0.00	5.8	5.9	OK
4.004	S42	38	109.158	-0.682	0.000	0.00	0.2	9.7	OK
4.005	S43	38	108.042	-0.608	0.000	0.00	4.9	4.9	OK
1.012	S32	54	106.716	-0.458	0.000	0.23		126.9	OK
5.000	S22	38	111.820	-0.175	0.000	0.11		7.5	OK
5.001	S23	38	111.080	-0.155	0.000	0.21		7.5	OK
5.002	S24	38	110.960	-0.210	0.000	0.20		19.5	OK
5.003	S25	38	110.701	-0.314	0.000	0.06		21.5	OK
5.004	S26	38	109.509	-0.316	0.000	0.06		28.2	OK
5.005	S27	45	106.888	-0.232	0.000	0.31		33.4	OK
5.006	S28	47	106.855	-0.207	0.000	0.42		35.4	OK
5.007	S29	53	106.749	-0.270	0.000	0.28		36.6	OK
5.008	S30	55	106.700	-0.264	0.000	0.28		38.8	OK
5.009	S31	55	106.650	-0.233	0.000	0.31		44.6	OK
1.013	S33	55	106.616	-0.363	0.000	0.44		150.4	OK
1.014	S34	55	106.529	-0.400	0.000	0.35		150.3	OK
1.015	S35	63	106.419	-0.356	0.000	0.05		19.9	OK
1.016	S36	63	106.180	-0.095	0.000	0.63		19.9	OK

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Summary Wizard of 180 minute 1 year Summer I+0% for Surface Water Network

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	0.000
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	5	Number of Time/Area Diagrams	0
Number of Online Controls	3	Number of Storage Structures	2	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.401
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.600	Cv (Winter)	0.840

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

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, 40

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S4	43	113.887	-0.188	0.000	0.06		5.0	OK
1.001	S5	44	112.686	-0.189	0.000	0.06		5.6	OK
1.002	S6	44	111.987	-0.158	0.000	0.19		7.0	OK
1.003	S7	44	111.690	-0.325	0.000	0.04		12.7	OK
2.000	S1	43	113.378	-0.297	0.000	0.10		21.9	OK
2.001	S2	44	112.717	-0.298	0.000	0.09		28.3	OK
2.002	S3	44	111.543	-0.362	0.000	0.08		32.2	OK
1.004	S8	44	111.153	-0.297	0.000	0.25		49.5	OK
1.005	S9	44	110.967	-0.342	0.000	0.13		58.0	OK
1.006	S10	44	110.260	-0.359	0.000	0.09		59.1	OK
1.007	S11	44	108.798	-0.502	0.000	0.06		70.8	OK
1.008	S12	47	107.109	-0.441	0.000	0.16		77.4	OK
3.000	S13	43	110.625	-0.200	0.000	0.03		2.6	OK
3.001	S14	44	109.507	-0.258	0.000	0.05		8.5	OK
3.002	S15	44	108.800	-0.260	0.000	0.04		11.1	OK

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Summary Wizard of 180 minute 1 year Summer I+0% for Surface Water Network

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.009	S16	47	106.966	-0.348	0.000	0.34		90.7	OK
1.010	S17	48	106.875	-0.368	0.000	0.43		91.6	OK
1.011	S18	51	106.799	-0.419	0.000	0.31		91.5	OK
4.000	S38	43	111.627	-0.683	0.000	0.00		8.6	OK
4.001	S39	43	111.184	-0.676	0.000	0.01	0.3	8.3	OK
4.002	S40	43	111.148	-0.682	0.000	0.00	0.2	8.1	OK
4.003	S41	44	110.929	-0.611	0.000	0.00	4.6	4.6	OK
4.004	S42	44	109.154	-0.686	0.000	0.00	0.1	7.7	OK
4.005	S43	44	108.031	-0.619	0.000	0.00	3.8	3.8	OK
1.012	S32	56	106.690	-0.484	0.000	0.18		100.0	OK
5.000	S22	43	111.815	-0.180	0.000	0.09		5.9	OK
5.001	S23	44	111.070	-0.165	0.000	0.16		5.8	OK
5.002	S24	44	110.948	-0.222	0.000	0.15		15.2	OK
5.003	S25	44	110.693	-0.322	0.000	0.05		16.8	OK
5.004	S26	44	109.501	-0.324	0.000	0.05		22.1	OK
5.005	S27	48	106.870	-0.250	0.000	0.24		26.1	OK
5.006	S28	50	106.834	-0.228	0.000	0.33		27.7	OK
5.007	S29	56	106.726	-0.293	0.000	0.22		28.8	OK
5.008	S30	57	106.676	-0.288	0.000	0.22		30.7	OK
5.009	S31	57	106.622	-0.261	0.000	0.24		35.7	OK
1.013	S33	57	106.584	-0.395	0.000	0.36		123.7	OK
1.014	S34	57	106.500	-0.429	0.000	0.29		123.6	OK
1.015	S35	60	106.431	-0.344	0.000	0.05		20.2	OK
1.016	S36	60	106.181	-0.094	0.000	0.64		20.2	OK

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Summary Wizard of 240 minute 1 year Summer I+0% for Surface Water Network

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	0.000
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	5	Number of Time/Area Diagrams	0
Number of Online Controls	3	Number of Storage Structures	2	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.401
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.600	Cv (Winter)	0.840

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

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, 40

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S4	49	113.883	-0.192	0.000	0.05		4.1	OK
1.001	S5	49	112.682	-0.193	0.000	0.05		4.6	OK
1.002	S6	49	111.980	-0.165	0.000	0.16		5.8	OK
1.003	S7	49	111.686	-0.329	0.000	0.04		10.6	OK
2.000	S1	49	113.370	-0.305	0.000	0.08		18.2	OK
2.001	S2	49	112.709	-0.306	0.000	0.08		23.4	OK
2.002	S3	49	111.533	-0.372	0.000	0.07		26.7	OK
1.004	S8	49	111.140	-0.310	0.000	0.21		41.1	OK
1.005	S9	49	110.958	-0.351	0.000	0.11		48.2	OK
1.006	S10	49	110.251	-0.368	0.000	0.08		49.2	OK
1.007	S11	49	108.789	-0.511	0.000	0.05		58.9	OK
1.008	S12	50	107.094	-0.456	0.000	0.13		64.4	OK
3.000	S13	49	110.623	-0.202	0.000	0.02		2.1	OK
3.001	S14	49	109.504	-0.261	0.000	0.04		7.1	OK
3.002	S15	49	108.797	-0.263	0.000	0.04		9.2	OK

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Summary Wizard of 240 minute 1 year Summer I+0% for Surface Water Network

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.009	S16	50	106.939	-0.375	0.000	0.28		75.6	OK
1.010	S17	53	106.845	-0.398	0.000	0.36		76.4	OK
1.011	S18	55	106.774	-0.444	0.000	0.26		76.4	OK
4.000	S38	49	111.624	-0.686	0.000	0.00		7.2	OK
4.001	S39	49	111.180	-0.680	0.000	0.00	0.3	6.9	OK
4.002	S40	49	111.145	-0.685	0.000	0.00	0.2	6.7	OK
4.003	S41	49	110.921	-0.619	0.000	0.00	3.8	3.8	OK
4.004	S42	49	109.152	-0.688	0.000	0.00	0.1	6.4	OK
4.005	S43	49	108.025	-0.625	0.000	0.00	3.2	3.2	OK
1.012	S32	58	106.672	-0.502	0.000	0.15		83.6	OK
5.000	S22	49	111.810	-0.185	0.000	0.07		4.8	OK
5.001	S23	49	111.065	-0.170	0.000	0.13		4.8	OK
5.002	S24	49	110.941	-0.229	0.000	0.13		12.7	OK
5.003	S25	49	110.689	-0.326	0.000	0.04		14.0	OK
5.004	S26	49	109.497	-0.328	0.000	0.04		18.4	OK
5.005	S27	52	106.859	-0.261	0.000	0.20		21.8	OK
5.006	S28	53	106.820	-0.242	0.000	0.27		23.1	OK
5.007	S29	57	106.711	-0.308	0.000	0.18		24.0	OK
5.008	S30	58	106.660	-0.304	0.000	0.18		25.7	OK
5.009	S31	58	106.603	-0.280	0.000	0.21		30.1	OK
1.013	S33	58	106.560	-0.419	0.000	0.31		105.7	OK
1.014	S34	58	106.480	-0.449	0.000	0.25		105.7	OK
1.015	S35	57	106.438	-0.337	0.000	0.05		20.4	OK
1.016	S36	57	106.182	-0.093	0.000	0.65		20.4	OK

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Summary Wizard of 360 minute 1 year Summer I+0% for Surface Water Network

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	0.000
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	5	Number of Time/Area Diagrams	0
Number of Online Controls	3	Number of Storage Structures	2	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.401
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.600	Cv (Winter)	0.840

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

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, 40

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S4	55	113.879	-0.196	0.000	0.04		3.1	OK
1.001	S5	55	112.678	-0.197	0.000	0.04		3.5	OK
1.002	S6	55	111.972	-0.173	0.000	0.12		4.4	OK
1.003	S7	55	111.681	-0.334	0.000	0.03		8.1	OK
2.000	S1	55	113.360	-0.315	0.000	0.06		13.7	OK
2.001	S2	55	112.698	-0.317	0.000	0.06		17.8	OK
2.002	S3	55	111.521	-0.384	0.000	0.05		20.3	OK
1.004	S8	55	111.120	-0.330	0.000	0.16		31.3	OK
1.005	S9	55	110.946	-0.363	0.000	0.08		36.7	OK
1.006	S10	55	110.239	-0.380	0.000	0.06		37.4	OK
1.007	S11	55	108.777	-0.523	0.000	0.04		44.8	OK
1.008	S12	56	107.077	-0.473	0.000	0.10		49.1	OK
3.000	S13	55	110.619	-0.206	0.000	0.02		1.6	OK
3.001	S14	55	109.499	-0.266	0.000	0.03		5.4	OK
3.002	S15	55	108.793	-0.267	0.000	0.03		7.0	OK

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Summary Wizard of 360 minute 1 year Summer I+0% for Surface Water Network

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.009	S16	56	106.906	-0.408	0.000	0.22		57.7	OK
1.010	S17	58	106.806	-0.437	0.000	0.27		58.3	OK
1.011	S18	58	106.745	-0.473	0.000	0.20		58.3	OK
4.000	S38	55	111.621	-0.689	0.000	0.00		5.4	OK
4.001	S39	55	111.175	-0.685	0.000	0.00	0.2	5.2	OK
4.002	S40	55	111.141	-0.689	0.000	0.00	0.1	5.2	OK
4.003	S41	55	110.912	-0.628	0.000	0.00	2.9	2.9	OK
4.004	S42	55	109.149	-0.691	0.000	0.00	0.0	5.0	OK
4.005	S43	55	108.017	-0.633	0.000	0.00	2.5	2.5	OK
1.012	S32	60	106.650	-0.524	0.000	0.11		63.9	OK
5.000	S22	55	111.804	-0.191	0.000	0.06		3.7	OK
5.001	S23	55	111.058	-0.177	0.000	0.10		3.7	OK
5.002	S24	55	110.933	-0.237	0.000	0.10		9.7	OK
5.003	S25	55	110.683	-0.332	0.000	0.03		10.7	OK
5.004	S26	55	109.492	-0.333	0.000	0.03		14.0	OK
5.005	S27	57	106.843	-0.277	0.000	0.15		16.6	OK
5.006	S28	58	106.802	-0.260	0.000	0.21		17.6	OK
5.007	S29	60	106.691	-0.328	0.000	0.14		18.3	OK
5.008	S30	60	106.639	-0.325	0.000	0.14		19.7	OK
5.009	S31	61	106.577	-0.306	0.000	0.16		23.2	OK
1.013	S33	61	106.528	-0.451	0.000	0.24		83.2	OK
1.014	S34	63	106.455	-0.474	0.000	0.19		83.3	OK
1.015	S35	55	106.442	-0.333	0.000	0.05		20.5	OK
1.016	S36	55	106.182	-0.093	0.000	0.65		20.5	OK

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Summary Wizard of 480 minute 1 year Summer I+0% for Surface Water Network

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	0.000
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	5	Number of Time/Area Diagrams	0
Number of Online Controls	3	Number of Storage Structures	2	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.401
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.600	Cv (Winter)	0.840

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

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, 40

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S4	59	113.876	-0.199	0.000	0.03		2.5	OK
1.001	S5	59	112.676	-0.199	0.000	0.03		2.8	OK
1.002	S6	59	111.967	-0.178	0.000	0.10		3.6	OK
1.003	S7	59	111.678	-0.337	0.000	0.02		6.6	OK
2.000	S1	59	113.353	-0.322	0.000	0.05		11.1	OK
2.001	S2	59	112.692	-0.323	0.000	0.05		14.4	OK
2.002	S3	59	111.515	-0.390	0.000	0.04		16.5	OK
1.004	S8	59	111.107	-0.343	0.000	0.13		25.4	OK
1.005	S9	59	110.935	-0.374	0.000	0.07		29.9	OK
1.006	S10	59	110.231	-0.388	0.000	0.05		30.5	OK
1.007	S11	59	108.771	-0.529	0.000	0.03		36.6	OK
1.008	S12	59	107.065	-0.485	0.000	0.08		40.1	OK
3.000	S13	59	110.615	-0.210	0.000	0.01		1.3	OK
3.001	S14	59	109.497	-0.268	0.000	0.03		4.4	OK
3.002	S15	59	108.791	-0.269	0.000	0.02		5.7	OK

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Summary Wizard of 480 minute 1 year Summer I+0% for Surface Water Network

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.009	S16	59	106.885	-0.429	0.000	0.18		47.1	OK
1.010	S17	60	106.782	-0.461	0.000	0.22		47.7	OK
1.011	S18	61	106.723	-0.495	0.000	0.16		47.7	OK
4.000	S38	59	111.619	-0.691	0.000	0.00		4.4	OK
4.001	S39	59	111.172	-0.688	0.000	0.00	0.1	4.3	OK
4.002	S40	59	111.139	-0.691	0.000	0.00	0.1	4.2	OK
4.003	S41	59	110.906	-0.634	0.000	0.00	2.4	2.4	OK
4.004	S42	59	109.147	-0.693	0.000	0.00	0.0	4.1	OK
4.005	S43	59	108.010	-0.640	0.000	0.00	2.0	2.0	OK
1.012	S32	62	106.637	-0.537	0.000	0.09		52.3	OK
5.000	S22	59	111.800	-0.195	0.000	0.05		3.0	OK
5.001	S23	59	111.053	-0.182	0.000	0.08		3.0	OK
5.002	S24	59	110.926	-0.244	0.000	0.08		7.9	OK
5.003	S25	59	110.680	-0.335	0.000	0.03		8.7	OK
5.004	S26	59	109.489	-0.336	0.000	0.02		11.5	OK
5.005	S27	59	106.833	-0.287	0.000	0.13		13.5	OK
5.006	S28	60	106.790	-0.272	0.000	0.17		14.4	OK
5.007	S29	62	106.678	-0.341	0.000	0.11		15.0	OK
5.008	S30	62	106.625	-0.339	0.000	0.12		16.1	OK
5.009	S31	62	106.561	-0.322	0.000	0.13		19.1	OK
1.013	S33	62	106.508	-0.471	0.000	0.20		68.8	OK
1.014	S34	65	106.445	-0.484	0.000	0.16		68.7	OK
1.015	S35	56	106.439	-0.336	0.000	0.05		20.4	OK
1.016	S36	56	106.182	-0.093	0.000	0.65		20.4	OK

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Summary Wizard of 600 minute 1 year Summer I+0% for Surface Water Network

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
Hot Start (mins) 0 MADD Factor * 10m³/ha Storage 0.000
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 5 Number of Time/Area Diagrams 0
Number of Online Controls 3 Number of Storage Structures 2 Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model FSR Ratio R 0.401
Region England and Wales Cv (Summer) 0.750
M5-60 (mm) 19.600 Cv (Winter) 0.840

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

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, 40

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S4	63	113.875	-0.200	0.000	0.03		2.1	OK
1.001	S5	63	112.674	-0.201	0.000	0.03		2.4	OK
1.002	S6	63	111.964	-0.181	0.000	0.08		3.0	OK
1.003	S7	63	111.674	-0.341	0.000	0.02		5.6	OK
2.000	S1	63	113.349	-0.326	0.000	0.04		9.5	OK
2.001	S2	63	112.688	-0.327	0.000	0.04		12.3	OK
2.002	S3	63	111.510	-0.395	0.000	0.04		14.0	OK
1.004	S8	63	111.099	-0.351	0.000	0.11		21.6	OK
1.005	S9	63	110.928	-0.381	0.000	0.06		25.4	OK
1.006	S10	63	110.227	-0.392	0.000	0.04		25.9	OK
1.007	S11	63	108.766	-0.534	0.000	0.03		31.1	OK
1.008	S12	63	107.054	-0.496	0.000	0.07		34.1	OK
3.000	S13	63	110.613	-0.212	0.000	0.01		1.1	OK
3.001	S14	63	109.495	-0.270	0.000	0.02		3.7	OK
3.002	S15	63	108.788	-0.272	0.000	0.02		4.9	OK

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Summary Wizard of 600 minute 1 year Summer I+0% for Surface Water Network

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.009	S16	63	106.870	-0.444	0.000	0.15		40.1	OK
1.010	S17	63	106.765	-0.478	0.000	0.19		40.6	OK
1.011	S18	64	106.708	-0.510	0.000	0.14		40.6	OK
4.000	S38	63	111.617	-0.693	0.000	0.00		3.7	OK
4.001	S39	63	111.170	-0.690	0.000	0.00	0.1	3.7	OK
4.002	S40	63	111.138	-0.692	0.000	0.00	0.0	3.6	OK
4.003	S41	63	110.900	-0.640	0.000	0.00	2.1	2.1	OK
4.004	S42	63	109.146	-0.694	0.000	0.00	0.0	3.5	OK
4.005	S43	63	108.005	-0.645	0.000	0.00	1.7	1.7	OK
1.012	S32	64	106.625	-0.549	0.000	0.08		44.6	OK
5.000	S22	63	111.798	-0.197	0.000	0.04		2.5	OK
5.001	S23	63	111.049	-0.186	0.000	0.07		2.5	OK
5.002	S24	63	110.921	-0.249	0.000	0.07		6.7	OK
5.003	S25	63	110.678	-0.337	0.000	0.02		7.4	OK
5.004	S26	63	109.486	-0.339	0.000	0.02		9.7	OK
5.005	S27	63	106.827	-0.293	0.000	0.11		11.5	OK
5.006	S28	63	106.781	-0.281	0.000	0.14		12.2	OK
5.007	S29	64	106.670	-0.349	0.000	0.10		12.7	OK
5.008	S30	64	106.616	-0.348	0.000	0.10		13.7	OK
5.009	S31	64	106.548	-0.335	0.000	0.11		16.4	OK
1.013	S33	64	106.492	-0.487	0.000	0.17		59.4	OK
1.014	S34	67	106.439	-0.490	0.000	0.14		59.4	OK
1.015	S35	59	106.433	-0.342	0.000	0.05		20.3	OK
1.016	S36	59	106.181	-0.094	0.000	0.64		20.3	OK

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Summary Wizard of 720 minute 1 year Summer I+0% for Surface Water Network

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	0.000
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	5	Number of Time/Area Diagrams	0
Number of Online Controls	3	Number of Storage Structures	2	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.401
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.600	Cv (Winter)	0.840

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

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, 40

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S4	64	113.874	-0.201	0.000	0.02		1.9	OK
1.001	S5	64	112.673	-0.202	0.000	0.02		2.1	OK
1.002	S6	64	111.960	-0.185	0.000	0.07		2.7	OK
1.003	S7	64	111.669	-0.346	0.000	0.02		4.9	OK
2.000	S1	64	113.346	-0.329	0.000	0.04		8.3	OK
2.001	S2	64	112.685	-0.330	0.000	0.04		10.7	OK
2.002	S3	64	111.507	-0.398	0.000	0.03		12.3	OK
1.004	S8	64	111.094	-0.356	0.000	0.10		18.9	OK
1.005	S9	64	110.924	-0.385	0.000	0.05		22.2	OK
1.006	S10	64	110.223	-0.396	0.000	0.04		22.7	OK
1.007	S11	64	108.763	-0.537	0.000	0.02		27.2	OK
1.008	S12	64	107.046	-0.504	0.000	0.06		29.8	OK
3.000	S13	64	110.611	-0.214	0.000	0.01		1.0	OK
3.001	S14	64	109.491	-0.274	0.000	0.02		3.3	OK
3.002	S15	64	108.784	-0.276	0.000	0.02		4.3	OK

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Summary Wizard of 720 minute 1 year Summer I+0% for Surface Water Network

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.009	S16	64	106.858	-0.456	0.000	0.13		35.1	OK
1.010	S17	64	106.751	-0.492	0.000	0.17		35.5	OK
1.011	S18	65	106.697	-0.521	0.000	0.12		35.5	OK
4.000	S38	64	111.617	-0.693	0.000	0.00		3.3	OK
4.001	S39	64	111.169	-0.691	0.000	0.00	0.1	3.2	OK
4.002	S40	64	111.137	-0.693	0.000	0.00	0.0	3.2	OK
4.003	S41	64	110.896	-0.644	0.000	0.00	1.8	1.8	OK
4.004	S42	64	109.146	-0.694	0.000	0.00	0.0	3.0	OK
4.005	S43	64	108.001	-0.649	0.000	0.00	1.5	1.5	OK
1.012	S32	65	106.615	-0.559	0.000	0.07		39.0	OK
5.000	S22	64	111.797	-0.198	0.000	0.03		2.2	OK
5.001	S23	64	111.046	-0.189	0.000	0.06		2.2	OK
5.002	S24	64	110.917	-0.253	0.000	0.06		5.9	OK
5.003	S25	64	110.674	-0.341	0.000	0.02		6.5	OK
5.004	S26	64	109.481	-0.344	0.000	0.02		8.5	OK
5.005	S27	64	106.822	-0.298	0.000	0.09		10.1	OK
5.006	S28	64	106.775	-0.287	0.000	0.13		10.7	OK
5.007	S29	65	106.664	-0.355	0.000	0.08		11.1	OK
5.008	S30	65	106.609	-0.355	0.000	0.09		12.0	OK
5.009	S31	65	106.540	-0.343	0.000	0.10		14.4	OK
1.013	S33	66	106.479	-0.500	0.000	0.15		52.6	OK
1.014	S34	68	106.433	-0.496	0.000	0.12		52.5	OK
1.015	S35	61	106.426	-0.349	0.000	0.05		20.1	OK
1.016	S36	61	106.181	-0.094	0.000	0.64		20.1	OK

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Summary Wizard of 960 minute 1 year Summer I+0% for Surface Water Network

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	0.000
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	5	Number of Time/Area Diagrams	0
Number of Online Controls	3	Number of Storage Structures	2	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.401
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.600	Cv (Winter)	0.840

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

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, 40

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S4	68	113.871	-0.204	0.000	0.02		1.5	OK
1.001	S5	68	112.670	-0.205	0.000	0.02		1.7	OK
1.002	S6	68	111.955	-0.190	0.000	0.06		2.2	OK
1.003	S7	68	111.664	-0.351	0.000	0.01		4.0	OK
2.000	S1	68	113.342	-0.333	0.000	0.03		6.7	OK
2.001	S2	68	112.682	-0.333	0.000	0.03		8.7	OK
2.002	S3	68	111.503	-0.402	0.000	0.03		9.9	OK
1.004	S8	68	111.083	-0.367	0.000	0.08		15.3	OK
1.005	S9	68	110.917	-0.392	0.000	0.04		18.0	OK
1.006	S10	68	110.219	-0.400	0.000	0.03		18.4	OK
1.007	S11	68	108.757	-0.543	0.000	0.02		22.1	OK
1.008	S12	68	107.035	-0.515	0.000	0.05		24.2	OK
3.000	S13	68	110.609	-0.216	0.000	0.01		0.8	OK
3.001	S14	68	109.486	-0.279	0.000	0.02		2.7	OK
3.002	S15	68	108.780	-0.280	0.000	0.01		3.5	OK

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Summary Wizard of 960 minute 1 year Summer I+0% for Surface Water Network

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.009	S16	68	106.844	-0.470	0.000	0.11		28.4	OK
1.010	S17	68	106.731	-0.512	0.000	0.13		28.8	OK
1.011	S18	68	106.683	-0.535	0.000	0.10		28.8	OK
4.000	S38	68	111.615	-0.695	0.000	0.00		2.6	OK
4.001	S39	68	111.167	-0.693	0.000	0.00	0.0	2.6	OK
4.002	S40	68	111.136	-0.694	0.000	0.00	0.0	2.6	OK
4.003	S41	68	110.890	-0.650	0.000	0.00	1.5	1.5	OK
4.004	S42	68	109.144	-0.696	0.000	0.00	0.0	2.5	OK
4.005	S43	68	107.997	-0.653	0.000	0.00	1.2	1.2	OK
1.012	S32	68	106.602	-0.572	0.000	0.06		31.6	OK
5.000	S22	68	111.795	-0.200	0.000	0.03		1.8	OK
5.001	S23	68	111.042	-0.193	0.000	0.05		1.8	OK
5.002	S24	68	110.912	-0.258	0.000	0.05		4.7	OK
5.003	S25	68	110.667	-0.348	0.000	0.02		5.2	OK
5.004	S26	68	109.475	-0.350	0.000	0.01		6.9	OK
5.005	S27	68	106.813	-0.307	0.000	0.08		8.2	OK
5.006	S28	68	106.767	-0.295	0.000	0.10		8.7	OK
5.007	S29	68	106.654	-0.365	0.000	0.07		9.0	OK
5.008	S30	68	106.599	-0.365	0.000	0.07		9.8	OK
5.009	S31	68	106.528	-0.355	0.000	0.08		11.7	OK
1.013	S33	68	106.463	-0.516	0.000	0.12		42.6	OK
1.014	S34	69	106.419	-0.510	0.000	0.10		42.5	OK
1.015	S35	64	106.410	-0.365	0.000	0.05		19.8	OK
1.016	S36	64	106.179	-0.096	0.000	0.63		19.8	OK

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Summary Wizard of 1440 minute 1 year Summer I+0% for Surface Water Network

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	0.000
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	5	Number of Time/Area Diagrams	0
Number of Online Controls	3	Number of Storage Structures	2	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.401
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.600	Cv (Winter)	0.840

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

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, 40

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S4	70	113.866	-0.209	0.000	0.01		1.1	OK
1.001	S5	70	112.665	-0.210	0.000	0.01		1.3	OK
1.002	S6	70	111.950	-0.195	0.000	0.04		1.6	OK
1.003	S7	70	111.658	-0.357	0.000	0.01		2.9	OK
2.000	S1	70	113.338	-0.337	0.000	0.02		5.0	OK
2.001	S2	70	112.678	-0.337	0.000	0.02		6.5	OK
2.002	S3	70	111.496	-0.409	0.000	0.02		7.4	OK
1.004	S8	70	111.070	-0.380	0.000	0.06		11.4	OK
1.005	S9	70	110.910	-0.399	0.000	0.03		13.4	OK
1.006	S10	70	110.214	-0.405	0.000	0.02		13.7	OK
1.007	S11	70	108.742	-0.558	0.000	0.01		16.4	OK
1.008	S12	70	107.024	-0.526	0.000	0.04		18.0	OK
3.000	S13	70	110.607	-0.218	0.000	0.01		0.6	OK
3.001	S14	70	109.481	-0.284	0.000	0.01		2.0	OK
3.002	S15	70	108.775	-0.285	0.000	0.01		2.6	OK

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Summary Wizard of 1440 minute 1 year Summer I+0% for Surface Water Network

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.009	S16	70	106.826	-0.488	0.000	0.08		21.2	OK
1.010	S17	70	106.710	-0.533	0.000	0.10		21.4	OK
1.011	S18	70	106.661	-0.557	0.000	0.07		21.4	OK
4.000	S38	70	111.614	-0.696	0.000	0.00		2.0	OK
4.001	S39	70	111.166	-0.694	0.000	0.00	0.0	1.9	OK
4.002	S40	70	111.134	-0.696	0.000	0.00	0.0	1.9	OK
4.003	S41	70	110.884	-0.656	0.000	0.00	1.1	1.1	OK
4.004	S42	70	109.143	-0.697	0.000	0.00	0.0	1.8	OK
4.005	S43	70	107.990	-0.660	0.000	0.00	0.9	0.9	OK
1.012	S32	70	106.587	-0.587	0.000	0.04		23.5	OK
5.000	S22	70	111.791	-0.204	0.000	0.02		1.3	OK
5.001	S23	70	111.038	-0.197	0.000	0.04		1.3	OK
5.002	S24	70	110.907	-0.263	0.000	0.04		3.5	OK
5.003	S25	70	110.660	-0.355	0.000	0.01		3.9	OK
5.004	S26	70	109.469	-0.356	0.000	0.01		5.1	OK
5.005	S27	70	106.802	-0.318	0.000	0.06		6.1	OK
5.006	S28	70	106.755	-0.307	0.000	0.08		6.5	OK
5.007	S29	70	106.640	-0.379	0.000	0.05		6.7	OK
5.008	S30	70	106.585	-0.379	0.000	0.05		7.3	OK
5.009	S31	70	106.513	-0.370	0.000	0.06		8.7	OK
1.013	S33	71	106.445	-0.534	0.000	0.09		31.8	OK
1.014	S34	71	106.395	-0.534	0.000	0.07		31.8	OK
1.015	S35	67	106.380	-0.395	0.000	0.05		19.1	OK
1.016	S36	67	106.176	-0.099	0.000	0.61		19.1	OK

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Summary Wizard of 15 minute 30 year Summer I+0% for Surface Water Network

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	0.000
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	5	Number of Time/Area Diagrams	0
Number of Online Controls	3	Number of Storage Structures	2	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.401
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.600	Cv (Winter)	0.840

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

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, 40

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S4	7	113.955	-0.120	0.000	0.44		33.7	OK
1.001	S5	7	112.752	-0.123	0.000	0.42		38.0	OK
1.002	S6	7	112.246	0.101	0.000	1.35		48.9	SURCHARGED
1.003	S7	7	111.789	-0.226	0.000	0.31		91.1	OK
2.000	S1	7	113.526	-0.149	0.000	0.66		149.4	OK
2.001	S2	7	112.865	-0.150	0.000	0.65		197.8	OK
2.002	S3	7	111.911	0.006	0.000	0.59		224.8	SURCHARGED
1.004	S8	7	111.746	0.296	0.000	1.78		346.6	SURCHARGED
1.005	S9	7	111.200	-0.109	0.000	0.92		403.9	OK
1.006	S10	7	110.431	-0.188	0.000	0.63		411.0	OK
1.007	S11	7	108.982	-0.318	0.000	0.44		488.6	OK
1.008	S12	8	108.211	0.661	0.000	1.04		504.2	SURCHARGED
3.000	S13	7	110.667	-0.158	0.000	0.19		17.6	OK
3.001	S14	7	109.591	-0.174	0.000	0.37		64.7	OK
3.002	S15	7	108.881	-0.179	0.000	0.34		84.7	OK

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Summary Wizard of 15 minute 30 year Summer I+0% for Surface Water Network

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.009	S16	8	107.942	0.628	0.000	2.20		584.4	SURCHARGED
1.010	S17	9	107.599	0.356	0.000	2.74		590.0	SURCHARGED
1.011	S18	14	107.400	0.182	0.000	1.95		579.0	SURCHARGED
4.000	S38	7	111.700	-0.610	0.000	0.02		59.1	OK
4.001	S39	7	111.264	-0.596	0.000	0.03	5.7	53.0	OK
4.002	S40	8	111.217	-0.613	0.000	0.02	4.3	49.0	OK
4.003	S41	8	111.147	-0.393	0.000	0.00	22.5	22.5	OK
4.004	S42	8	109.213	-0.627	0.000	0.01	2.9	40.6	OK
4.005	S43	8	108.183	-0.467	0.000	0.00	18.7	18.7	OK
1.012	S32	26	107.192	0.018	0.000	1.09		611.2	SURCHARGED
5.000	S22	7	111.898	-0.097	0.000	0.60		39.6	OK
5.001	S23	7	111.285	0.050	0.000	1.16		41.7	SURCHARGED
5.002	S24	7	111.206	0.036	0.000	1.11		109.5	SURCHARGED
5.003	S25	7	110.797	-0.218	0.000	0.35		120.4	OK
5.004	S26	7	109.602	-0.223	0.000	0.33		160.4	OK
5.005	S27	9	107.794	0.674	0.000	1.67		179.3	SURCHARGED
5.006	S28	9	107.601	0.539	0.000	2.20		186.5	SURCHARGED
5.007	S29	16	107.382	0.363	0.000	1.43		187.6	SURCHARGED
5.008	S30	23	107.284	0.320	0.000	1.42		197.3	SURCHARGED
5.009	S31	28	107.140	0.257	0.000	1.43		209.3	SURCHARGED
1.013	S33	28	107.021	0.042	0.000	1.34		458.8	SURCHARGED
1.014	S34	27	106.938	0.009	0.000	1.07		458.9	SURCHARGED
1.015	S35	48	106.522	-0.253	0.000	0.05		21.6	OK
1.016	S36	48	106.187	-0.088	0.000	0.68		21.6	OK

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Summary Wizard of 30 minute 30 year Summer I+0% for Surface Water Network

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	0.000
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	5	Number of Time/Area Diagrams	0
Number of Online Controls	3	Number of Storage Structures	2	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.401
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.600	Cv (Winter)	0.840

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

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, 40

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S4	9	113.948	-0.127	0.000	0.40		30.7	OK
1.001	S5	9	112.746	-0.129	0.000	0.38		34.5	OK
1.002	S6	9	112.194	0.049	0.000	1.20		43.5	SURCHARGED
1.003	S7	9	111.774	-0.241	0.000	0.27		80.8	OK
2.000	S1	9	113.510	-0.165	0.000	0.60		135.8	OK
2.001	S2	9	112.848	-0.167	0.000	0.59		177.3	OK
2.002	S3	9	111.778	-0.127	0.000	0.53		201.5	OK
1.004	S8	9	111.649	0.199	0.000	1.57		306.3	SURCHARGED
1.005	S9	9	111.174	-0.135	0.000	0.81		357.2	OK
1.006	S10	9	110.414	-0.205	0.000	0.57		366.0	OK
1.007	S11	9	108.964	-0.336	0.000	0.39		433.7	OK
1.008	S12	10	108.006	0.456	0.000	0.95		464.7	SURCHARGED
3.000	S13	9	110.663	-0.162	0.000	0.17		15.8	OK
3.001	S14	9	109.582	-0.183	0.000	0.32		55.9	OK
3.002	S15	9	108.872	-0.188	0.000	0.29		72.4	OK

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Summary Wizard of 30 minute 30 year Summer I+0% for Surface Water Network

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.009	S16	10	107.795	0.481	0.000	2.00		531.5	SURCHARGED
1.010	S17	10	107.506	0.263	0.000	2.49		535.2	SURCHARGED
1.011	S18	19	107.322	0.104	0.000	1.80		536.5	SURCHARGED
4.000	S38	9	111.695	-0.615	0.000	0.02		53.5	OK
4.001	S39	9	111.257	-0.603	0.000	0.03	5.3	48.2	OK
4.002	S40	9	111.212	-0.618	0.000	0.02	3.9	44.3	OK
4.003	S41	9	111.122	-0.418	0.000	0.00	21.4	21.4	OK
4.004	S42	9	109.210	-0.630	0.000	0.01	2.6	37.7	OK
4.005	S43	9	108.171	-0.479	0.000	0.00	17.9	17.9	OK
1.012	S32	28	107.154	-0.020	0.000	0.98		549.7	OK
5.000	S22	9	111.889	-0.106	0.000	0.55		36.2	OK
5.001	S23	9	111.197	-0.038	0.000	1.00		35.8	OK
5.002	S24	9	111.117	-0.053	0.000	0.99		97.8	OK
5.003	S25	9	110.786	-0.229	0.000	0.32		108.4	OK
5.004	S26	9	109.591	-0.234	0.000	0.30		143.4	OK
5.005	S27	10	107.628	0.508	0.000	1.50		160.5	SURCHARGED
5.006	S28	10	107.497	0.435	0.000	1.96		166.4	SURCHARGED
5.007	S29	19	107.344	0.325	0.000	1.29		169.1	SURCHARGED
5.008	S30	27	107.264	0.300	0.000	1.26		175.6	SURCHARGED
5.009	S31	27	107.159	0.276	0.000	1.35		196.4	SURCHARGED
1.013	S33	27	107.043	0.064	0.000	1.36		466.0	SURCHARGED
1.014	S34	28	106.934	0.005	0.000	1.09		466.0	SURCHARGED
1.015	S35	46	106.620	-0.155	0.000	0.05		21.9	OK
1.016	S36	46	106.188	-0.087	0.000	0.69		21.9	OK

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Summary Wizard of 60 minute 30 year Summer I+0% for Surface Water Network

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	0.000
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	5	Number of Time/Area Diagrams	0
Number of Online Controls	3	Number of Storage Structures	2	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.401
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.600	Cv (Winter)	0.840

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

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, 40

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S4	12	113.933	-0.142	0.000	0.29		22.8	OK
1.001	S5	12	112.731	-0.144	0.000	0.28		25.6	OK
1.002	S6	12	112.087	-0.058	0.000	0.90		32.5	OK
1.003	S7	12	111.755	-0.260	0.000	0.20		59.9	OK
2.000	S1	12	113.475	-0.200	0.000	0.45		100.7	OK
2.001	S2	12	112.813	-0.202	0.000	0.43		131.0	OK
2.002	S3	12	111.652	-0.253	0.000	0.39		149.9	OK
1.004	S8	12	111.485	0.035	0.000	1.18		230.1	SURCHARGED
1.005	S9	12	111.115	-0.194	0.000	0.61		269.0	OK
1.006	S10	12	110.374	-0.245	0.000	0.42		274.3	OK
1.007	S11	12	108.924	-0.376	0.000	0.29		326.7	OK
1.008	S12	12	107.578	0.028	0.000	0.73		356.2	SURCHARGED
3.000	S13	12	110.654	-0.171	0.000	0.13		11.7	OK
3.001	S14	12	109.563	-0.202	0.000	0.23		40.7	OK
3.002	S15	12	108.854	-0.206	0.000	0.21		52.8	OK

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Summary Wizard of 60 minute 30 year Summer I+0% for Surface Water Network

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.009	S16	13	107.450	0.136	0.000	1.56		413.0	SURCHARGED
1.010	S17	26	107.278	0.035	0.000	1.93		416.1	SURCHARGED
1.011	S18	28	107.218	0.000	0.000	1.40		417.2	SURCHARGED
4.000	S38	12	111.684	-0.626	0.000	0.01		39.7	OK
4.001	S39	12	111.243	-0.617	0.000	0.02	4.1	35.6	OK
4.002	S40	12	111.201	-0.629	0.000	0.01	2.8	32.8	OK
4.003	S41	12	111.061	-0.479	0.000	0.00	17.9	17.9	OK
4.004	S42	12	109.197	-0.643	0.000	0.01	1.8	30.7	OK
4.005	S43	12	108.144	-0.506	0.000	0.00	15.2	15.2	OK
1.012	S32	29	107.032	-0.142	0.000	0.80		447.6	OK
5.000	S22	12	111.870	-0.125	0.000	0.41		26.9	OK
5.001	S23	12	111.156	-0.079	0.000	0.75		26.8	OK
5.002	S24	12	111.062	-0.108	0.000	0.73		71.8	OK
5.003	S25	12	110.763	-0.252	0.000	0.23		79.5	OK
5.004	S26	12	109.569	-0.256	0.000	0.22		105.0	OK
5.005	S27	26	107.308	0.188	0.000	1.14		122.0	SURCHARGED
5.006	S28	28	107.234	0.172	0.000	1.52		128.5	SURCHARGED
5.007	S29	29	107.159	0.140	0.000	0.98		128.8	SURCHARGED
5.008	S30	29	107.118	0.154	0.000	0.96		132.9	SURCHARGED
5.009	S31	29	107.070	0.187	0.000	1.04		152.3	SURCHARGED
1.013	S33	29	106.987	0.008	0.000	1.28		438.8	SURCHARGED
1.014	S34	29	106.888	-0.041	0.000	1.00		428.7	OK
1.015	S35	43	106.704	-0.071	0.000	0.05		21.9	OK
1.016	S36	19	106.188	-0.087	0.000	0.69		21.9	OK

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Summary Wizard of 120 minute 30 year Summer I+0% for Surface Water Network

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	0.000
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	5	Number of Time/Area Diagrams	0
Number of Online Controls	3	Number of Storage Structures	2	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.401
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.600	Cv (Winter)	0.840

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

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, 40

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S4	18	113.917	-0.158	0.000	0.19		15.1	OK
1.001	S5	18	112.715	-0.160	0.000	0.18		16.9	OK
1.002	S6	18	112.045	-0.100	0.000	0.59		21.4	OK
1.003	S7	18	111.731	-0.284	0.000	0.13		39.4	OK
2.000	S1	18	113.438	-0.237	0.000	0.29		66.5	OK
2.001	S2	18	112.776	-0.239	0.000	0.29		86.4	OK
2.002	S3	18	111.610	-0.295	0.000	0.26		98.7	OK
1.004	S8	18	111.301	-0.149	0.000	0.78		152.2	OK
1.005	S9	18	111.058	-0.251	0.000	0.41		178.4	OK
1.006	S10	18	110.331	-0.288	0.000	0.28		181.7	OK
1.007	S11	18	108.880	-0.420	0.000	0.20		217.9	OK
1.008	S12	24	107.367	-0.183	0.000	0.49		238.1	OK
3.000	S13	18	110.644	-0.181	0.000	0.09		7.8	OK
3.001	S14	18	109.543	-0.222	0.000	0.15		26.6	OK
3.002	S15	18	108.834	-0.226	0.000	0.14		34.5	OK

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Summary Wizard of 120 minute 30 year Summer I+0% for Surface Water Network

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.009	S16	27	107.323	0.009	0.000	1.05		279.5	SURCHARGED
1.010	S17	30	107.243	0.000	0.000	1.31		282.4	OK
1.011	S18	31	107.063	-0.155	0.000	0.95		281.3	OK
4.000	S38	18	111.663	-0.647	0.000	0.01		26.2	OK
4.001	S39	18	111.228	-0.632	0.000	0.01	2.5	23.7	OK
4.002	S40	18	111.180	-0.650	0.000	0.01	1.4	22.2	OK
4.003	S41	18	111.012	-0.528	0.000	0.00	12.7	12.7	OK
4.004	S42	18	109.180	-0.660	0.000	0.01	0.9	21.6	OK
4.005	S43	18	108.104	-0.546	0.000	0.00	10.7	10.7	OK
1.012	S32	33	106.881	-0.293	0.000	0.54		304.7	OK
5.000	S22	18	111.849	-0.146	0.000	0.27		17.7	OK
5.001	S23	18	111.122	-0.113	0.000	0.49		17.7	OK
5.002	S24	18	111.017	-0.153	0.000	0.48		47.2	OK
5.003	S25	18	110.738	-0.277	0.000	0.15		52.2	OK
5.004	S26	18	109.544	-0.281	0.000	0.14		68.9	OK
5.005	S27	31	107.042	-0.078	0.000	0.75		80.7	OK
5.006	S28	31	107.012	-0.050	0.000	1.00		84.7	OK
5.007	S29	31	106.955	-0.064	0.000	0.66		86.5	OK
5.008	S30	31	106.927	-0.037	0.000	0.65		89.8	OK
5.009	S31	31	106.891	0.008	0.000	0.71		103.0	SURCHARGED
1.013	S33	36	106.844	-0.135	0.000	1.00		342.7	OK
1.014	S34	45	106.772	-0.157	0.000	0.80		342.8	OK
1.015	S35	39	106.768	-0.007	0.000	0.05		21.9	OK
1.016	S36	15	106.188	-0.087	0.000	0.69		21.9	OK

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Summary Wizard of 180 minute 30 year Summer I+0% for Surface Water Network

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	0.000
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	5	Number of Time/Area Diagrams	0
Number of Online Controls	3	Number of Storage Structures	2	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.401
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.600	Cv (Winter)	0.840

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

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, 40

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S4	24	113.907	-0.168	0.000	0.15		11.5	OK
1.001	S5	24	112.706	-0.169	0.000	0.14		12.9	OK
1.002	S6	24	112.026	-0.119	0.000	0.45		16.3	OK
1.003	S7	24	111.720	-0.295	0.000	0.10		29.9	OK
2.000	S1	24	113.420	-0.255	0.000	0.22		50.6	OK
2.001	S2	24	112.758	-0.257	0.000	0.22		65.6	OK
2.002	S3	24	111.590	-0.315	0.000	0.20		75.0	OK
1.004	S8	24	111.250	-0.200	0.000	0.59		115.7	OK
1.005	S9	24	111.030	-0.279	0.000	0.31		135.6	OK
1.006	S10	24	110.310	-0.309	0.000	0.21		138.2	OK
1.007	S11	23	108.854	-0.446	0.000	0.15		165.7	OK
1.008	S12	35	107.217	-0.333	0.000	0.37		181.1	OK
3.000	S13	24	110.637	-0.188	0.000	0.07		5.9	OK
3.001	S14	23	109.532	-0.233	0.000	0.11		20.2	OK
3.002	S15	23	108.825	-0.235	0.000	0.11		26.2	OK

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Summary Wizard of 180 minute 30 year Summer I+0% for Surface Water Network

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.009	S16	35	107.173	-0.141	0.000	0.80		212.4	OK
1.010	S17	35	107.097	-0.146	0.000	1.00		214.5	OK
1.011	S18	35	106.969	-0.249	0.000	0.72		214.3	OK
4.000	S38	24	111.650	-0.660	0.000	0.01		19.9	OK
4.001	S39	24	111.213	-0.647	0.000	0.01	1.6	18.3	OK
4.002	S40	24	111.169	-0.661	0.000	0.01	0.9	17.4	OK
4.003	S41	25	110.987	-0.553	0.000	0.00	9.9	9.9	OK
4.004	S42	24	109.171	-0.669	0.000	0.00	0.6	16.9	OK
4.005	S43	24	108.083	-0.567	0.000	0.00	8.4	8.4	OK
1.012	S32	39	106.814	-0.360	0.000	0.42		232.7	OK
5.000	S22	24	111.839	-0.156	0.000	0.20		13.5	OK
5.001	S23	24	111.105	-0.130	0.000	0.38		13.5	OK
5.002	S24	24	110.995	-0.175	0.000	0.36		35.8	OK
5.003	S25	23	110.725	-0.290	0.000	0.12		39.6	OK
5.004	S26	23	109.532	-0.293	0.000	0.11		52.2	OK
5.005	S27	34	106.962	-0.158	0.000	0.58		61.8	OK
5.006	S28	34	106.936	-0.126	0.000	0.77		65.6	OK
5.007	S29	37	106.864	-0.155	0.000	0.51		67.4	OK
5.008	S30	39	106.840	-0.124	0.000	0.51		70.7	OK
5.009	S31	39	106.812	-0.071	0.000	0.56		81.1	OK
1.013	S33	42	106.799	-0.180	0.000	0.82		282.0	OK
1.014	S34	41	106.796	-0.133	0.000	0.66		281.9	OK
1.015	S35	34	106.792	0.017	0.000	0.05		21.9	SURCHARGED
1.016	S36	6	106.188	-0.087	0.000	0.69		21.9	OK

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Summary Wizard of 240 minute 30 year Summer I+0% for Surface Water Network

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	0.000
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	5	Number of Time/Area Diagrams	0
Number of Online Controls	3	Number of Storage Structures	2	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.401
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.600	Cv (Winter)	0.840

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

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, 40

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S4	29	113.902	-0.173	0.000	0.12		9.3	OK
1.001	S5	29	112.700	-0.175	0.000	0.11		10.5	OK
1.002	S6	28	112.014	-0.131	0.000	0.37		13.2	OK
1.003	S7	28	111.712	-0.303	0.000	0.08		24.3	OK
2.000	S1	29	113.407	-0.268	0.000	0.18		41.1	OK
2.001	S2	28	112.746	-0.269	0.000	0.18		53.3	OK
2.002	S3	28	111.575	-0.330	0.000	0.16		60.9	OK
1.004	S8	28	111.220	-0.230	0.000	0.48		94.0	OK
1.005	S9	28	111.011	-0.298	0.000	0.25		110.2	OK
1.006	S10	28	110.295	-0.324	0.000	0.17		112.4	OK
1.007	S11	28	108.839	-0.461	0.000	0.12		134.8	OK
1.008	S12	38	107.176	-0.374	0.000	0.30		147.5	OK
3.000	S13	29	110.633	-0.192	0.000	0.05		4.8	OK
3.001	S14	28	109.526	-0.239	0.000	0.09		16.4	OK
3.002	S15	28	108.819	-0.241	0.000	0.09		21.2	OK

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Summary Wizard of 240 minute 30 year Summer I+0% for Surface Water Network

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.009	S16	38	107.109	-0.205	0.000	0.65		173.1	OK
1.010	S17	38	107.032	-0.211	0.000	0.81		174.8	OK
1.011	S18	38	106.915	-0.303	0.000	0.59		174.4	OK
4.000	S38	29	111.643	-0.667	0.000	0.01		16.2	OK
4.001	S39	29	111.203	-0.657	0.000	0.01	1.1	15.1	OK
4.002	S40	29	111.162	-0.668	0.000	0.01	0.6	14.5	OK
4.003	S41	28	110.971	-0.569	0.000	0.00	8.3	8.3	OK
4.004	S42	28	109.165	-0.675	0.000	0.00	0.4	14.0	OK
4.005	S43	28	108.069	-0.581	0.000	0.00	7.0	7.0	OK
1.012	S32	41	106.808	-0.366	0.000	0.34		190.6	OK
5.000	S22	29	111.831	-0.164	0.000	0.17		11.0	OK
5.001	S23	29	111.095	-0.140	0.000	0.31		11.0	OK
5.002	S24	28	110.981	-0.189	0.000	0.30		29.1	OK
5.003	S25	28	110.717	-0.298	0.000	0.09		32.2	OK
5.004	S26	28	109.525	-0.300	0.000	0.09		42.4	OK
5.005	S27	38	106.931	-0.189	0.000	0.47		50.2	OK
5.006	S28	38	106.903	-0.159	0.000	0.63		53.3	OK
5.007	S29	41	106.818	-0.201	0.000	0.42		55.0	OK
5.008	S30	40	106.811	-0.153	0.000	0.42		58.3	OK
5.009	S31	40	106.809	-0.074	0.000	0.46		67.6	OK
1.013	S33	39	106.806	-0.173	0.000	0.70		239.7	OK
1.014	S34	37	106.802	-0.127	0.000	0.55		237.8	OK
1.015	S35	31	106.799	0.024	0.000	0.05		21.9	SURCHARGED
1.016	S36	12	106.188	-0.087	0.000	0.69		21.9	OK

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Summary Wizard of 360 minute 30 year Summer I+0% for Surface Water Network

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	0.000
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	5	Number of Time/Area Diagrams	0
Number of Online Controls	3	Number of Storage Structures	2	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.401
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.600	Cv (Winter)	0.840

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

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, 40

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S4	36	113.895	-0.180	0.000	0.09		6.9	OK
1.001	S5	36	112.694	-0.181	0.000	0.08		7.7	OK
1.002	S6	36	111.999	-0.146	0.000	0.27		9.8	OK
1.003	S7	36	111.700	-0.315	0.000	0.06		17.9	OK
2.000	S1	36	113.391	-0.284	0.000	0.13		30.4	OK
2.001	S2	36	112.729	-0.286	0.000	0.13		39.4	OK
2.002	S3	36	111.557	-0.348	0.000	0.12		45.0	OK
1.004	S8	36	111.185	-0.265	0.000	0.36		69.4	OK
1.005	S9	36	110.989	-0.320	0.000	0.19		81.5	OK
1.006	S10	36	110.276	-0.343	0.000	0.13		83.1	OK
1.007	S11	36	108.821	-0.479	0.000	0.09		99.7	OK
1.008	S12	42	107.142	-0.408	0.000	0.22		109.2	OK
3.000	S13	36	110.628	-0.197	0.000	0.04		3.5	OK
3.001	S14	36	109.516	-0.249	0.000	0.07		12.0	OK
3.002	S15	36	108.809	-0.251	0.000	0.06		15.6	OK

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Summary Wizard of 360 minute 30 year Summer I+0% for Surface Water Network

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.009	S16	42	107.030	-0.284	0.000	0.48		128.3	OK
1.010	S17	42	106.946	-0.297	0.000	0.60		129.8	OK
1.011	S18	46	106.854	-0.364	0.000	0.44		129.6	OK
4.000	S38	36	111.634	-0.676	0.000	0.00		12.0	OK
4.001	S39	36	111.193	-0.667	0.000	0.01	0.6	11.3	OK
4.002	S40	36	111.154	-0.676	0.000	0.00	0.4	11.0	OK
4.003	S41	36	110.950	-0.590	0.000	0.00	6.3	6.3	OK
4.004	S42	36	109.159	-0.681	0.000	0.00	0.2	10.6	OK
4.005	S43	36	108.047	-0.603	0.000	0.00	5.3	5.3	OK
1.012	S32	42	106.806	-0.368	0.000	0.25		142.0	OK
5.000	S22	36	111.822	-0.173	0.000	0.12		8.1	OK
5.001	S23	36	111.082	-0.153	0.000	0.23		8.1	OK
5.002	S24	36	110.964	-0.206	0.000	0.22		21.5	OK
5.003	S25	36	110.705	-0.310	0.000	0.07		23.7	OK
5.004	S26	36	109.512	-0.313	0.000	0.06		31.2	OK
5.005	S27	43	106.897	-0.223	0.000	0.34		37.0	OK
5.006	S28	46	106.866	-0.196	0.000	0.46		39.3	OK
5.007	S29	43	106.812	-0.207	0.000	0.31		40.7	OK
5.008	S30	41	106.810	-0.154	0.000	0.31		43.6	OK
5.009	S31	41	106.807	-0.076	0.000	0.35		51.3	OK
1.013	S33	40	106.804	-0.175	0.000	0.51		176.1	OK
1.014	S34	39	106.801	-0.128	0.000	0.41		174.7	OK
1.015	S35	32	106.797	0.022	0.000	0.05		21.9	SURCHARGED
1.016	S36	20	106.188	-0.087	0.000	0.69		21.9	OK

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Summary Wizard of 480 minute 30 year Summer I+0% for Surface Water Network

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	0.000
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	5	Number of Time/Area Diagrams	0
Number of Online Controls	3	Number of Storage Structures	2	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.401
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.600	Cv (Winter)	0.840

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

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, 40

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S4	41	113.889	-0.186	0.000	0.07		5.5	OK
1.001	S5	41	112.688	-0.187	0.000	0.07		6.2	OK
1.002	S6	41	111.991	-0.154	0.000	0.22		7.8	OK
1.003	S7	41	111.693	-0.322	0.000	0.05		14.4	OK
2.000	S1	41	113.382	-0.293	0.000	0.11		24.3	OK
2.001	S2	41	112.720	-0.295	0.000	0.10		31.5	OK
2.002	S3	41	111.548	-0.357	0.000	0.09		36.0	OK
1.004	S8	41	111.163	-0.287	0.000	0.29		55.6	OK
1.005	S9	41	110.974	-0.335	0.000	0.15		65.3	OK
1.006	S10	41	110.265	-0.354	0.000	0.10		66.6	OK
1.007	S11	41	108.805	-0.495	0.000	0.07		79.9	OK
1.008	S12	45	107.121	-0.429	0.000	0.18		87.6	OK
3.000	S13	41	110.626	-0.199	0.000	0.03		2.8	OK
3.001	S14	41	109.510	-0.255	0.000	0.05		9.6	OK
3.002	S15	41	108.803	-0.257	0.000	0.05		12.5	OK

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Summary Wizard of 480 minute 30 year Summer I+0% for Surface Water Network

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.009	S16	45	106.987	-0.327	0.000	0.39		103.1	OK
1.010	S17	45	106.899	-0.344	0.000	0.48		104.3	OK
1.011	S18	49	106.818	-0.400	0.000	0.35		104.2	OK
4.000	S38	41	111.629	-0.681	0.000	0.00		9.6	OK
4.001	S39	41	111.186	-0.674	0.000	0.01	0.4	9.2	OK
4.002	S40	41	111.150	-0.680	0.000	0.00	0.3	8.9	OK
4.003	S41	41	110.935	-0.605	0.000	0.00	5.1	5.1	OK
4.004	S42	41	109.156	-0.684	0.000	0.00	0.2	8.6	OK
4.005	S43	41	108.036	-0.614	0.000	0.00	4.3	4.3	OK
1.012	S32	45	106.800	-0.374	0.000	0.20		114.3	OK
5.000	S22	41	111.817	-0.178	0.000	0.10		6.5	OK
5.001	S23	41	111.074	-0.161	0.000	0.18		6.5	OK
5.002	S24	41	110.954	-0.216	0.000	0.17		17.2	OK
5.003	S25	41	110.697	-0.318	0.000	0.06		19.0	OK
5.004	S26	41	109.505	-0.320	0.000	0.05		25.0	OK
5.005	S27	47	106.879	-0.241	0.000	0.28		29.6	OK
5.006	S28	49	106.845	-0.217	0.000	0.37		31.5	OK
5.007	S29	47	106.806	-0.213	0.000	0.25		32.7	OK
5.008	S30	43	106.804	-0.160	0.000	0.25		35.0	OK
5.009	S31	43	106.802	-0.081	0.000	0.28		41.2	OK
1.013	S33	43	106.798	-0.181	0.000	0.40		138.4	OK
1.014	S34	42	106.795	-0.134	0.000	0.32		137.2	OK
1.015	S35	35	106.792	0.017	0.000	0.05		21.9	SURCHARGED
1.016	S36	9	106.188	-0.087	0.000	0.69		21.9	OK

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Summary Wizard of 600 minute 30 year Summer I+0% for Surface Water Network

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	0.000
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	5	Number of Time/Area Diagrams	0
Number of Online Controls	3	Number of Storage Structures	2	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.401
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.600	Cv (Winter)	0.840

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

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, 40

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S4	46	113.885	-0.190	0.000	0.06		4.6	OK
1.001	S5	46	112.684	-0.191	0.000	0.06		5.2	OK
1.002	S6	46	111.984	-0.161	0.000	0.18		6.6	OK
1.003	S7	46	111.689	-0.326	0.000	0.04		12.1	OK
2.000	S1	46	113.376	-0.299	0.000	0.09		20.4	OK
2.001	S2	46	112.715	-0.300	0.000	0.09		26.5	OK
2.002	S3	46	111.539	-0.366	0.000	0.08		30.2	OK
1.004	S8	46	111.149	-0.301	0.000	0.24		46.7	OK
1.005	S9	46	110.964	-0.345	0.000	0.12		54.9	OK
1.006	S10	46	110.258	-0.361	0.000	0.09		56.0	OK
1.007	S11	46	108.795	-0.505	0.000	0.06		67.2	OK
1.008	S12	49	107.105	-0.445	0.000	0.15		73.6	OK
3.000	S13	46	110.624	-0.201	0.000	0.03		2.4	OK
3.001	S14	46	109.506	-0.259	0.000	0.05		8.1	OK
3.002	S15	46	108.799	-0.261	0.000	0.04		10.5	OK

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Summary Wizard of 600 minute 30 year Summer I+0% for Surface Water Network

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.009	S16	49	106.959	-0.355	0.000	0.33		86.7	OK
1.010	S17	50	106.867	-0.376	0.000	0.41		87.7	OK
1.011	S18	53	106.794	-0.424	0.000	0.29		87.7	OK
4.000	S38	46	111.626	-0.684	0.000	0.00		8.0	OK
4.001	S39	46	111.182	-0.678	0.000	0.00	0.3	7.8	OK
4.002	S40	46	111.147	-0.683	0.000	0.00	0.2	7.6	OK
4.003	S41	46	110.926	-0.614	0.000	0.00	4.3	4.3	OK
4.004	S42	46	109.153	-0.687	0.000	0.00	0.1	7.3	OK
4.005	S43	46	108.029	-0.621	0.000	0.00	3.7	3.7	OK
1.012	S32	47	106.792	-0.382	0.000	0.17		96.3	OK
5.000	S22	46	111.813	-0.182	0.000	0.08		5.5	OK
5.001	S23	46	111.068	-0.167	0.000	0.15		5.5	OK
5.002	S24	46	110.946	-0.224	0.000	0.15		14.5	OK
5.003	S25	46	110.692	-0.323	0.000	0.05		16.0	OK
5.004	S26	46	109.500	-0.325	0.000	0.04		21.0	OK
5.005	S27	51	106.867	-0.253	0.000	0.23		24.9	OK
5.006	S28	52	106.830	-0.232	0.000	0.31		26.4	OK
5.007	S29	48	106.797	-0.222	0.000	0.21		27.5	OK
5.008	S30	44	106.795	-0.169	0.000	0.21		29.5	OK
5.009	S31	44	106.793	-0.090	0.000	0.24		34.8	OK
1.013	S33	44	106.790	-0.189	0.000	0.34		116.6	OK
1.014	S34	43	106.786	-0.143	0.000	0.27		115.6	OK
1.015	S35	36	106.783	0.008	0.000	0.05		21.9	SURCHARGED
1.016	S36	7	106.188	-0.087	0.000	0.69		21.9	OK

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Summary Wizard of 720 minute 30 year Summer I+0% for Surface Water Network

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	0.000
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	5	Number of Time/Area Diagrams	0
Number of Online Controls	3	Number of Storage Structures	2	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.401
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.600	Cv (Winter)	0.840

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

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, 40

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S4	50	113.883	-0.192	0.000	0.05		4.0	OK
1.001	S5	50	112.682	-0.193	0.000	0.05		4.5	OK
1.002	S6	50	111.979	-0.166	0.000	0.16		5.7	OK
1.003	S7	50	111.686	-0.329	0.000	0.04		10.5	OK
2.000	S1	50	113.369	-0.306	0.000	0.08		17.7	OK
2.001	S2	50	112.708	-0.307	0.000	0.08		23.0	OK
2.002	S3	50	111.532	-0.373	0.000	0.07		26.2	OK
1.004	S8	50	111.138	-0.312	0.000	0.21		40.5	OK
1.005	S9	50	110.957	-0.352	0.000	0.11		47.6	OK
1.006	S10	50	110.250	-0.369	0.000	0.08		48.6	OK
1.007	S11	50	108.788	-0.512	0.000	0.05		58.3	OK
1.008	S12	51	107.094	-0.456	0.000	0.13		63.9	OK
3.000	S13	50	110.623	-0.202	0.000	0.02		2.1	OK
3.001	S14	50	109.503	-0.262	0.000	0.04		7.0	OK
3.002	S15	50	108.797	-0.263	0.000	0.04		9.1	OK

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Summary Wizard of 720 minute 30 year Summer I+0% for Surface Water Network

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.009	S16	51	106.939	-0.375	0.000	0.28		75.2	OK
1.010	S17	54	106.845	-0.398	0.000	0.35		76.1	OK
1.011	S18	54	106.784	-0.434	0.000	0.26		76.1	OK
4.000	S38	50	111.624	-0.686	0.000	0.00		7.0	OK
4.001	S39	50	111.179	-0.681	0.000	0.00	0.2	6.7	OK
4.002	S40	50	111.145	-0.685	0.000	0.00	0.2	6.6	OK
4.003	S41	50	110.920	-0.620	0.000	0.00	3.8	3.8	OK
4.004	S42	50	109.152	-0.688	0.000	0.00	0.1	6.4	OK
4.005	S43	50	108.025	-0.625	0.000	0.00	3.2	3.2	OK
1.012	S32	49	106.781	-0.393	0.000	0.15		83.5	OK
5.000	S22	50	111.809	-0.186	0.000	0.07		4.7	OK
5.001	S23	50	111.064	-0.171	0.000	0.13		4.7	OK
5.002	S24	50	110.941	-0.229	0.000	0.13		12.5	OK
5.003	S25	50	110.688	-0.327	0.000	0.04		13.9	OK
5.004	S26	50	109.497	-0.328	0.000	0.04		18.2	OK
5.005	S27	53	106.859	-0.261	0.000	0.20		21.6	OK
5.006	S28	54	106.819	-0.243	0.000	0.27		22.9	OK
5.007	S29	49	106.787	-0.232	0.000	0.18		23.8	OK
5.008	S30	45	106.785	-0.179	0.000	0.18		25.6	OK
5.009	S31	45	106.782	-0.101	0.000	0.21		30.2	OK
1.013	S33	45	106.779	-0.200	0.000	0.30		101.4	OK
1.014	S34	44	106.776	-0.153	0.000	0.23		100.5	OK
1.015	S35	38	106.772	-0.003	0.000	0.05		21.9	OK
1.016	S36	5	106.188	-0.087	0.000	0.69		21.9	OK

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Summary Wizard of 960 minute 30 year Summer I+0% for Surface Water Network

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	0.000
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	5	Number of Time/Area Diagrams	0
Number of Online Controls	3	Number of Storage Structures	2	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.401
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.600	Cv (Winter)	0.840

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

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, 40

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S4	54	113.879	-0.196	0.000	0.04		3.2	OK
1.001	S5	54	112.679	-0.196	0.000	0.04		3.6	OK
1.002	S6	54	111.973	-0.172	0.000	0.13		4.6	OK
1.003	S7	54	111.682	-0.333	0.000	0.03		8.4	OK
2.000	S1	54	113.361	-0.314	0.000	0.06		14.1	OK
2.001	S2	54	112.700	-0.315	0.000	0.06		18.3	OK
2.002	S3	54	111.523	-0.382	0.000	0.06		21.0	OK
1.004	S8	54	111.122	-0.328	0.000	0.17		32.4	OK
1.005	S9	54	110.948	-0.361	0.000	0.09		38.0	OK
1.006	S10	54	110.240	-0.379	0.000	0.06		38.8	OK
1.007	S11	54	108.779	-0.521	0.000	0.04		46.5	OK
1.008	S12	55	107.079	-0.471	0.000	0.10		51.0	OK
3.000	S13	54	110.619	-0.206	0.000	0.02		1.6	OK
3.001	S14	54	109.500	-0.265	0.000	0.03		5.6	OK
3.002	S15	54	108.794	-0.266	0.000	0.03		7.3	OK

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Summary Wizard of 960 minute 30 year Summer I+0% for Surface Water Network

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.009	S16	55	106.910	-0.404	0.000	0.23		60.0	OK
1.010	S17	56	106.811	-0.432	0.000	0.28		60.8	OK
1.011	S18	57	106.761	-0.457	0.000	0.20		60.8	OK
4.000	S38	54	111.621	-0.689	0.000	0.00		5.6	OK
4.001	S39	54	111.176	-0.684	0.000	0.00	0.2	5.4	OK
4.002	S40	54	111.142	-0.688	0.000	0.00	0.1	5.3	OK
4.003	S41	54	110.913	-0.627	0.000	0.00	3.0	3.0	OK
4.004	S42	54	109.149	-0.691	0.000	0.00	0.1	5.1	OK
4.005	S43	54	108.018	-0.632	0.000	0.00	2.6	2.6	OK
1.012	S32	51	106.756	-0.418	0.000	0.12		66.7	OK
5.000	S22	54	111.805	-0.190	0.000	0.06		3.8	OK
5.001	S23	54	111.058	-0.177	0.000	0.11		3.8	OK
5.002	S24	54	110.934	-0.236	0.000	0.10		10.0	OK
5.003	S25	54	110.684	-0.331	0.000	0.03		11.1	OK
5.004	S26	54	109.493	-0.332	0.000	0.03		14.6	OK
5.005	S27	56	106.845	-0.275	0.000	0.16		17.2	OK
5.006	S28	57	106.805	-0.257	0.000	0.22		18.3	OK
5.007	S29	52	106.762	-0.257	0.000	0.14		19.0	OK
5.008	S30	48	106.760	-0.204	0.000	0.15		20.5	OK
5.009	S31	46	106.757	-0.126	0.000	0.17		24.2	OK
1.013	S33	46	106.754	-0.225	0.000	0.24		81.5	OK
1.014	S34	46	106.751	-0.178	0.000	0.19		80.9	OK
1.015	S35	41	106.748	-0.027	0.000	0.05		21.9	OK
1.016	S36	3	106.188	-0.087	0.000	0.69		21.9	OK

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Summary Wizard of 1440 minute 30 year Summer I+0% for Surface Water Network

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	0.000
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	5	Number of Time/Area Diagrams	0
Number of Online Controls	3	Number of Storage Structures	2	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.401
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.600	Cv (Winter)	0.840

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

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, 40

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S4	60	113.876	-0.199	0.000	0.03		2.3	OK
1.001	S5	60	112.675	-0.200	0.000	0.03		2.6	OK
1.002	S6	60	111.966	-0.179	0.000	0.09		3.3	OK
1.003	S7	60	111.677	-0.338	0.000	0.02		6.1	OK
2.000	S1	60	113.351	-0.324	0.000	0.05		10.3	OK
2.001	S2	60	112.690	-0.325	0.000	0.04		13.3	OK
2.002	S3	60	111.513	-0.392	0.000	0.04		15.2	OK
1.004	S8	60	111.103	-0.347	0.000	0.12		23.5	OK
1.005	S9	60	110.932	-0.377	0.000	0.06		27.6	OK
1.006	S10	60	110.229	-0.390	0.000	0.04		28.2	OK
1.007	S11	60	108.768	-0.532	0.000	0.03		33.9	OK
1.008	S12	60	107.059	-0.491	0.000	0.08		37.1	OK
3.000	S13	60	110.614	-0.211	0.000	0.01		1.2	OK
3.001	S14	60	109.496	-0.269	0.000	0.02		4.1	OK
3.002	S15	60	108.790	-0.270	0.000	0.02		5.3	OK

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Summary Wizard of 1440 minute 30 year Summer I+0% for Surface Water Network

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.009	S16	60	106.878	-0.436	0.000	0.16		43.7	OK
1.010	S17	61	106.775	-0.468	0.000	0.21		44.2	OK
1.011	S18	62	106.715	-0.503	0.000	0.15		44.2	OK
4.000	S38	60	111.618	-0.692	0.000	0.00		4.1	OK
4.001	S39	60	111.171	-0.689	0.000	0.00	0.1	4.0	OK
4.002	S40	60	111.139	-0.691	0.000	0.00	0.0	3.9	OK
4.003	S41	60	110.903	-0.637	0.000	0.00	2.2	2.2	OK
4.004	S42	60	109.147	-0.693	0.000	0.00	0.0	3.8	OK
4.005	S43	60	108.007	-0.643	0.000	0.00	1.9	1.9	OK
1.012	S32	55	106.702	-0.472	0.000	0.09		48.6	OK
5.000	S22	60	111.799	-0.196	0.000	0.04		2.7	OK
5.001	S23	60	111.051	-0.184	0.000	0.08		2.7	OK
5.002	S24	60	110.923	-0.247	0.000	0.07		7.3	OK
5.003	S25	60	110.679	-0.336	0.000	0.02		8.0	OK
5.004	S26	60	109.488	-0.337	0.000	0.02		10.6	OK
5.005	S27	60	106.830	-0.290	0.000	0.12		12.5	OK
5.006	S28	61	106.786	-0.276	0.000	0.16		13.3	OK
5.007	S29	58	106.708	-0.311	0.000	0.11		13.9	OK
5.008	S30	54	106.705	-0.259	0.000	0.11		14.9	OK
5.009	S31	52	106.703	-0.180	0.000	0.12		17.7	OK
1.013	S33	49	106.699	-0.280	0.000	0.18		60.3	OK
1.014	S34	48	106.696	-0.233	0.000	0.14		59.9	OK
1.015	S35	44	106.693	-0.082	0.000	0.05		21.9	OK
1.016	S36	1	106.188	-0.087	0.000	0.69		21.9	OK

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Summary Wizard of 15 minute 100 year Summer I+40% for Surface Water Network

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	0.000
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	5	Number of Time/Area Diagrams	0
Number of Online Controls	3	Number of Storage Structures	2	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.401
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.600	Cv (Winter)	0.840

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

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, 40

WARNING: The analysis maybe unstable. Please see the method of analysis help for more details.

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S4	2	114.323	0.248	0.000	0.78		60.4	SURCHARGED
1.001	S5	2	113.708	0.833	0.000	0.64		58.5	FLOOD RISK
1.002	S6	2	113.400	1.255	0.714	2.10		75.9	FLOOD
1.003	S7	2	113.057	1.042	0.163	0.43		126.7	FLOOD
2.000	S1	2	115.056	1.381	0.885	1.08		244.2	FLOOD
2.001	S2	2	114.267	1.252	2.299	0.95		286.2	FLOOD
2.002	S3	2	113.297	1.392	0.015	0.87		330.1	FLOOD
1.004	S8	2	112.957	1.507	2.032	2.44		475.0	FLOOD
1.005	S9	2	112.152	0.843	1.331	1.26		556.2	FLOOD
1.006	S10	2	111.202	0.583	0.000	0.86		559.7	FLOOD RISK
1.007	S11	2	110.290	0.990	0.000	0.58		645.6	FLOOD RISK
1.008	S12	2	109.668	2.118	0.000	1.47		713.7	FLOOD RISK

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Summary Wizard of 15 minute 100 year Summer I+40% for Surface Water Network

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
3.000	S13	2	110.692	-0.133	0.000	0.35		31.9	OK
3.001	S14	2	109.719	-0.046	0.000	0.67		117.5	OK
3.002	S15	2	109.514	0.454	0.000	0.58		142.6	SURCHARGED
1.009	S16	2	109.139	1.825	0.000	3.19		847.1	SURCHARGED
1.010	S17	4	108.457	1.214	0.000	3.98		855.4	SURCHARGED
1.011	S18	4	108.025	0.807	0.000	2.85		846.5	SURCHARGED
4.000	S38	2	111.734	-0.576	0.000	0.04		107.3	OK
4.001	S39	2	111.328	-0.532	0.000	0.06	11.9	95.9	OK
4.002	S40	2	111.324	-0.506	0.000	0.03	15.0	85.3	OK
4.003	S41	2	111.320	-0.220	0.000	0.01	29.8	29.8	FLOOD RISK
4.004	S42	2	109.231	-0.609	0.000	0.02	4.7	65.1	OK
4.005	S43	2	108.317	-0.333	0.000	0.00	25.3	25.3	OK
1.012	S32	4	107.661	0.487	0.000	1.57		878.3	FLOOD RISK
5.000	S22	2	112.620	0.625	0.000	1.04		68.7	SURCHARGED
5.001	S23	2	111.785	0.550	0.000	2.16		77.5	SURCHARGED
5.002	S24	2	111.596	0.426	0.000	1.89		186.3	SURCHARGED
5.003	S25	2	110.856	-0.159	0.000	0.61		206.8	OK
5.004	S26	2	110.310	0.485	0.000	0.53		253.9	SURCHARGED
5.005	S27	2	109.622	2.502	0.026	2.64		282.8	FLOOD
5.006	S28	2	109.106	2.044	0.000	3.44		291.8	SURCHARGED
5.007	S29	2	108.553	1.534	0.000	2.28		299.7	SURCHARGED
5.008	S30	3	108.280	1.316	0.000	2.25		312.5	SURCHARGED
5.009	S31	4	107.874	0.991	0.000	2.37		346.0	SURCHARGED
1.013	S33	12	107.384	0.405	0.000	1.97		676.1	SURCHARGED
1.014	S34	24	107.101	0.172	0.000	1.58		675.4	SURCHARGED
1.015	S35	37	106.774	-0.001	0.000	0.05		21.9	OK
1.016	S36	36	106.188	-0.087	0.000	0.69		21.9	OK

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Summary Wizard of 30 minute 100 year Summer I+40% for Surface Water Network

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	0.000
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	5	Number of Time/Area Diagrams	0
Number of Online Controls	3	Number of Storage Structures	2	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.401
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.600	Cv (Winter)	0.840

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

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, 40

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S4	3	113.993	-0.082	0.000	0.73		56.3	OK
1.001	S5	3	113.497	0.622	0.000	0.59		54.2	SURCHARGED
1.002	S6	3	113.276	1.131	0.000	1.90		68.6	FLOOD RISK
1.003	S7	3	112.911	0.896	0.000	0.41		120.8	FLOOD RISK
2.000	S1	3	114.696	1.021	0.000	0.99		224.7	SURCHARGED
2.001	S2	3	114.069	1.054	0.000	0.93		280.9	FLOOD RISK
2.002	S3	3	113.135	1.230	0.000	0.82		312.6	FLOOD RISK
1.004	S8	3	112.831	1.381	0.000	2.37		461.9	FLOOD RISK
1.005	S9	3	112.039	0.730	0.000	1.23		541.4	FLOOD RISK
1.006	S10	3	111.011	0.392	0.000	0.83		538.4	SURCHARGED
1.007	S11	3	110.122	0.822	0.000	0.57		626.1	SURCHARGED
1.008	S12	3	109.556	2.006	0.000	1.41		686.5	FLOOD RISK
3.000	S13	3	110.687	-0.138	0.000	0.32		29.0	OK
3.001	S14	3	109.631	-0.134	0.000	0.58		102.4	OK
3.002	S15	3	109.372	0.312	0.000	0.52		129.4	SURCHARGED

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Summary Wizard of 30 minute 100 year Summer I+40% for Surface Water Network

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.009	S16	4	109.084	1.770	0.000	3.06		812.8	SURCHARGED
1.010	S17	3	108.464	1.221	0.000	3.80		816.7	SURCHARGED
1.011	S18	3	108.078	0.860	0.000	2.73		812.4	SURCHARGED
4.000	S38	3	111.727	-0.583	0.000	0.03		98.0	OK
4.001	S39	3	111.313	-0.547	0.000	0.05	10.5	89.0	OK
4.002	S40	3	111.310	-0.520	0.000	0.03	13.3	78.1	OK
4.003	S41	3	111.306	-0.234	0.000	0.01	29.3	29.3	FLOOD RISK
4.004	S42	3	109.227	-0.613	0.000	0.02	4.4	60.6	OK
4.005	S43	3	108.306	-0.344	0.000	0.00	24.8	24.8	OK
1.012	S32	3	107.728	0.554	0.000	1.52		852.6	FLOOD RISK
5.000	S22	3	112.381	0.386	0.000	0.96		63.5	SURCHARGED
5.001	S23	3	111.662	0.427	0.000	1.91		68.5	SURCHARGED
5.002	S24	3	111.473	0.303	0.000	1.73		170.2	SURCHARGED
5.003	S25	3	110.840	-0.175	0.000	0.55		188.9	OK
5.004	S26	3	110.005	0.180	0.000	0.50		242.7	SURCHARGED
5.005	S27	3	109.438	2.318	0.000	2.47		265.2	FLOOD RISK
5.006	S28	3	109.005	1.943	0.000	3.24		274.2	SURCHARGED
5.007	S29	4	108.522	1.503	0.000	2.13		280.3	SURCHARGED
5.008	S30	4	108.278	1.314	0.000	2.13		297.0	SURCHARGED
5.009	S31	3	107.923	1.040	0.000	2.31		337.0	SURCHARGED
1.013	S33	4	107.441	0.462	0.000	2.07		708.7	SURCHARGED
1.014	S34	22	107.128	0.199	0.000	1.65		708.4	SURCHARGED
1.015	S35	22	106.927	0.152	0.000	0.05		21.9	SURCHARGED
1.016	S36	42	106.188	-0.087	0.000	0.69		21.9	OK

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Summary Wizard of 60 minute 100 year Summer I+40% for Surface Water Network

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	0.000
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	5	Number of Time/Area Diagrams	0
Number of Online Controls	3	Number of Storage Structures	2	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.401
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.600	Cv (Winter)	0.840

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

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, 40

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S4	5	113.968	-0.107	0.000	0.54		42.0	OK
1.001	S5	5	112.765	-0.110	0.000	0.52		47.1	OK
1.002	S6	5	112.385	0.240	0.000	1.62		58.4	SURCHARGED
1.003	S7	5	112.073	0.058	0.000	0.36		105.6	SURCHARGED
2.000	S1	5	113.559	-0.116	0.000	0.82		185.4	OK
2.001	S2	5	112.908	-0.107	0.000	0.79		240.1	OK
2.002	S3	5	112.238	0.333	0.000	0.70		266.6	SURCHARGED
1.004	S8	5	112.017	0.567	0.000	2.08		405.8	SURCHARGED
1.005	S9	5	111.404	0.095	0.000	1.08		473.5	SURCHARGED
1.006	S10	5	110.461	-0.158	0.000	0.75		482.7	OK
1.007	S11	5	109.427	0.127	0.000	0.51		561.2	SURCHARGED
1.008	S12	5	108.997	1.447	0.000	1.23		599.4	SURCHARGED
3.000	S13	5	110.674	-0.151	0.000	0.24		21.6	OK
3.001	S14	5	109.602	-0.163	0.000	0.43		74.8	OK
3.002	S15	5	108.891	-0.169	0.000	0.39		97.1	OK

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Summary Wizard of 60 minute 100 year Summer I+40% for Surface Water Network

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.009	S16	5	108.645	1.331	0.000	2.62		697.0	SURCHARGED
1.010	S17	5	108.182	0.939	0.000	3.26		702.3	SURCHARGED
1.011	S18	5	107.897	0.679	0.000	2.34		696.8	SURCHARGED
4.000	S38	5	111.710	-0.600	0.000	0.02		73.1	OK
4.001	S39	5	111.276	-0.584	0.000	0.04	6.7	66.3	OK
4.002	S40	5	111.257	-0.573	0.000	0.02	7.8	59.8	OK
4.003	S41	5	111.244	-0.296	0.000	0.01	26.9	26.9	FLOOD RISK
4.004	S42	5	109.219	-0.621	0.000	0.01	3.5	49.2	OK
4.005	S43	5	108.257	-0.393	0.000	0.00	22.6	22.6	OK
1.012	S32	5	107.634	0.460	0.000	1.32		738.5	FLOOD RISK
5.000	S22	5	111.916	-0.079	0.000	0.75		49.4	OK
5.001	S23	5	111.400	0.165	0.000	1.40		50.4	SURCHARGED
5.002	S24	5	111.278	0.108	0.000	1.33		131.4	SURCHARGED
5.003	S25	5	110.811	-0.204	0.000	0.43		145.2	OK
5.004	S26	5	109.614	-0.211	0.000	0.40		191.6	OK
5.005	S27	5	108.691	1.571	0.000	2.00		214.7	SURCHARGED
5.006	S28	5	108.409	1.347	0.000	2.66		225.1	SURCHARGED
5.007	S29	5	108.105	1.086	0.000	1.75		229.4	SURCHARGED
5.008	S30	5	107.952	0.988	0.000	1.75		243.7	SURCHARGED
5.009	S31	5	107.716	0.833	0.000	1.92		279.9	SURCHARGED
1.013	S33	9	107.390	0.411	0.000	1.98		679.2	SURCHARGED
1.014	S34	23	107.103	0.174	0.000	1.58		679.0	SURCHARGED
1.015	S35	20	107.073	0.298	0.000	0.05		21.9	SURCHARGED
1.016	S36	43	106.188	-0.087	0.000	0.69		21.9	OK

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Summary Wizard of 120 minute 100 year Summer I+40% for Surface Water Network

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	0.000
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	5	Number of Time/Area Diagrams	0
Number of Online Controls	3	Number of Storage Structures	2	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.401
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.600	Cv (Winter)	0.840

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

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, 40

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S4	11	113.943	-0.132	0.000	0.36		27.7	OK
1.001	S5	11	112.740	-0.135	0.000	0.34		31.1	OK
1.002	S6	11	112.158	0.013	0.000	1.09		39.3	SURCHARGED
1.003	S7	11	111.766	-0.249	0.000	0.25		72.4	OK
2.000	S1	11	113.497	-0.178	0.000	0.54		122.4	OK
2.001	S2	11	112.834	-0.181	0.000	0.53		158.9	OK
2.002	S3	11	111.682	-0.223	0.000	0.48		181.4	OK
1.004	S8	11	111.578	0.128	0.000	1.43		278.8	SURCHARGED
1.005	S9	11	111.150	-0.159	0.000	0.74		326.8	OK
1.006	S10	11	110.399	-0.220	0.000	0.52		333.9	OK
1.007	S11	10	108.949	-0.351	0.000	0.36		398.8	OK
1.008	S12	9	108.008	0.458	0.000	0.88		426.1	SURCHARGED
3.000	S13	11	110.659	-0.166	0.000	0.16		14.3	OK
3.001	S14	11	109.573	-0.192	0.000	0.28		48.9	OK
3.002	S15	11	108.863	-0.197	0.000	0.26		63.6	OK

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Summary Wizard of 120 minute 100 year Summer I+40% for Surface Water Network

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.009	S16	9	107.837	0.523	0.000	1.87		496.2	SURCHARGED
1.010	S17	8	107.608	0.365	0.000	2.33		501.3	SURCHARGED
1.011	S18	7	107.469	0.251	0.000	1.68		499.7	SURCHARGED
4.000	S38	11	111.691	-0.619	0.000	0.02		48.2	OK
4.001	S39	11	111.252	-0.608	0.000	0.03	4.9	43.3	OK
4.002	S40	11	111.208	-0.622	0.000	0.01	3.5	39.8	OK
4.003	S41	10	111.119	-0.421	0.000	0.00	21.2	21.2	OK
4.004	S42	10	109.206	-0.634	0.000	0.01	2.4	36.3	OK
4.005	S43	10	108.169	-0.481	0.000	0.00	17.8	17.8	OK
1.012	S32	14	107.344	0.170	0.000	0.95		531.4	SURCHARGED
5.000	S22	11	111.882	-0.113	0.000	0.50		32.6	OK
5.001	S23	11	111.178	-0.057	0.000	0.91		32.6	OK
5.002	S24	11	111.090	-0.080	0.000	0.88		86.9	OK
5.003	S25	11	110.776	-0.239	0.000	0.28		96.1	OK
5.004	S26	11	109.580	-0.245	0.000	0.26		126.8	OK
5.005	S27	8	107.808	0.688	0.000	1.36		146.2	SURCHARGED
5.006	S28	7	107.681	0.619	0.000	1.81		153.3	SURCHARGED
5.007	S29	7	107.545	0.526	0.000	1.20		158.3	SURCHARGED
5.008	S30	7	107.477	0.513	0.000	1.21		168.6	SURCHARGED
5.009	S31	14	107.376	0.493	0.000	1.36		198.2	SURCHARGED
1.013	S33	23	107.218	0.239	0.000	1.65		565.8	SURCHARGED
1.014	S34	18	107.201	0.272	0.000	1.32		565.7	SURCHARGED
1.015	S35	18	107.197	0.422	0.000	0.05		21.9	SURCHARGED
1.016	S36	40	106.188	-0.087	0.000	0.69		21.9	OK

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Summary Wizard of 180 minute 100 year Summer I+40% for Surface Water Network

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	0.000
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	5	Number of Time/Area Diagrams	0
Number of Online Controls	3	Number of Storage Structures	2	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.401
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.600	Cv (Winter)	0.840

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

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, 40

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S4	13	113.929	-0.146	0.000	0.27		21.0	OK
1.001	S5	13	112.727	-0.148	0.000	0.26		23.6	OK
1.002	S6	13	112.077	-0.068	0.000	0.83		29.9	OK
1.003	S7	13	111.749	-0.266	0.000	0.19		54.9	OK
2.000	S1	13	113.467	-0.208	0.000	0.41		92.8	OK
2.001	S2	13	112.804	-0.211	0.000	0.40		120.4	OK
2.002	S3	13	111.642	-0.263	0.000	0.36		137.6	OK
1.004	S8	13	111.454	0.004	0.000	1.09		212.1	SURCHARGED
1.005	S9	13	111.102	-0.207	0.000	0.56		248.7	OK
1.006	S10	13	110.364	-0.255	0.000	0.39		253.5	OK
1.007	S11	13	108.914	-0.386	0.000	0.27		303.5	OK
1.008	S12	14	107.498	-0.052	0.000	0.68		332.5	OK
3.000	S13	13	110.651	-0.174	0.000	0.12		10.8	OK
3.001	S14	13	109.558	-0.207	0.000	0.21		37.0	OK
3.002	S15	13	108.850	-0.210	0.000	0.19		48.0	OK

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Summary Wizard of 180 minute 100 year Summer I+40% for Surface Water Network

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.009	S16	18	107.425	0.111	0.000	1.47		389.6	SURCHARGED
1.010	S17	27	107.275	0.032	0.000	1.83		393.6	SURCHARGED
1.011	S18	26	107.271	0.053	0.000	1.32		393.6	SURCHARGED
4.000	S38	13	111.682	-0.628	0.000	0.01		36.6	OK
4.001	S39	13	111.240	-0.620	0.000	0.02	3.7	32.8	OK
4.002	S40	13	111.198	-0.632	0.000	0.01	2.5	30.3	OK
4.003	S41	14	111.052	-0.488	0.000	0.00	17.3	17.2	OK
4.004	S42	14	109.193	-0.647	0.000	0.01	1.6	29.4	OK
4.005	S43	14	108.139	-0.511	0.000	0.00	14.7	14.6	OK
1.012	S32	23	107.267	0.093	0.000	0.75		421.1	SURCHARGED
5.000	S22	13	111.865	-0.130	0.000	0.38		24.8	OK
5.001	S23	13	111.148	-0.087	0.000	0.69		24.7	OK
5.002	S24	13	111.050	-0.120	0.000	0.67		65.7	OK
5.003	S25	13	110.757	-0.258	0.000	0.21		72.7	OK
5.004	S26	13	109.563	-0.262	0.000	0.20		95.8	OK
5.005	S27	17	107.431	0.311	0.000	1.03		110.9	SURCHARGED
5.006	S28	20	107.365	0.303	0.000	1.38		116.7	SURCHARGED
5.007	S29	26	107.286	0.267	0.000	0.92		120.5	SURCHARGED
5.008	S30	25	107.273	0.309	0.000	0.93		129.2	SURCHARGED
5.009	S31	23	107.268	0.385	0.000	1.04		152.6	SURCHARGED
1.013	S33	22	107.262	0.283	0.000	1.36		467.4	SURCHARGED
1.014	S34	16	107.257	0.328	0.000	1.09		466.0	SURCHARGED
1.015	S35	16	107.253	0.478	0.000	0.05		21.9	SURCHARGED
1.016	S36	37	106.188	-0.087	0.000	0.69		21.9	OK

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Summary Wizard of 240 minute 100 year Summer I+40% for Surface Water Network

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
Hot Start (mins) 0 MADD Factor * 10m³/ha Storage 0.000
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 5 Number of Time/Area Diagrams 0
Number of Online Controls 3 Number of Storage Structures 2 Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model FSR Ratio R 0.401
Region England and Wales Cv (Summer) 0.750
M5-60 (mm) 19.600 Cv (Winter) 0.840

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

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, 40

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S4	16	113.921	-0.154	0.000	0.22		17.1	OK
1.001	S5	16	112.719	-0.156	0.000	0.21		19.1	OK
1.002	S6	16	112.055	-0.090	0.000	0.67		24.2	OK
1.003	S7	16	111.737	-0.278	0.000	0.15		44.4	OK
2.000	S1	16	113.449	-0.226	0.000	0.33		75.2	OK
2.001	S2	16	112.786	-0.229	0.000	0.32		97.6	OK
2.002	S3	16	111.621	-0.284	0.000	0.29		111.4	OK
1.004	S8	16	111.328	-0.122	0.000	0.88		171.9	OK
1.005	S9	16	111.073	-0.236	0.000	0.46		201.5	OK
1.006	S10	16	110.343	-0.276	0.000	0.32		205.5	OK
1.007	S11	16	108.891	-0.409	0.000	0.22		246.4	OK
1.008	S12	21	107.406	-0.144	0.000	0.55		269.8	OK
3.000	S13	16	110.647	-0.178	0.000	0.10		8.8	OK
3.001	S14	16	109.548	-0.217	0.000	0.17		29.9	OK
3.002	S15	16	108.839	-0.221	0.000	0.16		38.8	OK

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Summary Wizard of 240 minute 100 year Summer I+40% for Surface Water Network

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.009	S16	23	107.357	0.043	0.000	1.19		316.8	SURCHARGED
1.010	S17	24	107.301	0.058	0.000	1.49		320.4	SURCHARGED
1.011	S18	24	107.298	0.080	0.000	1.08		320.0	SURCHARGED
4.000	S38	16	111.670	-0.640	0.000	0.01		29.7	OK
4.001	S39	16	111.233	-0.627	0.000	0.02	3.0	26.7	OK
4.002	S40	16	111.185	-0.645	0.000	0.01	1.8	24.9	OK
4.003	S41	16	111.026	-0.514	0.000	0.00	14.3	14.3	OK
4.004	S42	16	109.184	-0.656	0.000	0.01	1.1	24.4	OK
4.005	S43	16	108.117	-0.533	0.000	0.00	12.2	12.2	OK
1.012	S32	21	107.294	0.120	0.000	0.61		341.9	SURCHARGED
5.000	S22	16	111.855	-0.140	0.000	0.30		20.1	OK
5.001	S23	16	111.130	-0.105	0.000	0.56		20.1	OK
5.002	S24	16	111.027	-0.143	0.000	0.54		53.2	OK
5.003	S25	16	110.744	-0.271	0.000	0.17		58.8	OK
5.004	S26	16	109.550	-0.275	0.000	0.16		77.5	OK
5.005	S27	25	107.310	0.190	0.000	0.84		90.4	SURCHARGED
5.006	S28	25	107.307	0.245	0.000	1.12		95.3	SURCHARGED
5.007	S29	24	107.303	0.284	0.000	0.75		97.9	SURCHARGED
5.008	S30	21	107.299	0.335	0.000	0.75		104.6	SURCHARGED
5.009	S31	20	107.295	0.412	0.000	0.85		123.9	SURCHARGED
1.013	S33	20	107.290	0.311	0.000	1.15		394.4	SURCHARGED
1.014	S34	14	107.286	0.357	0.000	0.91		391.8	SURCHARGED
1.015	S35	14	107.282	0.507	0.000	0.05		21.9	SURCHARGED
1.016	S36	34	106.188	-0.087	0.000	0.69		21.9	OK

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Summary Wizard of 360 minute 100 year Summer I+40% for Surface Water Network

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	0.000
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	5	Number of Time/Area Diagrams	0
Number of Online Controls	3	Number of Storage Structures	2	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.401
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.600	Cv (Winter)	0.840

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

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, 40

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S4	22	113.910	-0.165	0.000	0.16		12.5	OK
1.001	S5	21	112.708	-0.167	0.000	0.15		14.0	OK
1.002	S6	21	112.031	-0.114	0.000	0.49		17.8	OK
1.003	S7	21	111.723	-0.292	0.000	0.11		32.6	OK
2.000	S1	22	113.425	-0.250	0.000	0.24		55.2	OK
2.001	S2	21	112.763	-0.252	0.000	0.24		71.6	OK
2.002	S3	21	111.596	-0.309	0.000	0.21		81.7	OK
1.004	S8	21	111.264	-0.186	0.000	0.65		126.1	OK
1.005	S9	20	111.039	-0.270	0.000	0.34		148.0	OK
1.006	S10	21	110.316	-0.303	0.000	0.23		151.1	OK
1.007	S11	20	108.862	-0.438	0.000	0.16		181.2	OK
1.008	S12	26	107.327	-0.223	0.000	0.41		197.6	OK
3.000	S13	22	110.639	-0.186	0.000	0.07		6.4	OK
3.001	S14	21	109.535	-0.230	0.000	0.12		21.9	OK
3.002	S15	20	108.827	-0.233	0.000	0.11		28.4	OK

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Summary Wizard of 360 minute 100 year Summer I+40% for Surface Water Network

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.009	S16	25	107.324	0.010	0.000	0.87		231.0	SURCHARGED
1.010	S17	22	107.320	0.077	0.000	1.08		232.9	SURCHARGED
1.011	S18	21	107.318	0.100	0.000	0.78		231.3	SURCHARGED
4.000	S38	22	111.654	-0.656	0.000	0.01		21.8	OK
4.001	S39	22	111.217	-0.643	0.000	0.01	1.9	19.9	OK
4.002	S40	22	111.172	-0.658	0.000	0.01	1.0	18.8	OK
4.003	S41	21	110.995	-0.545	0.000	0.00	10.8	10.8	OK
4.004	S42	20	109.174	-0.666	0.000	0.01	0.7	18.5	OK
4.005	S43	19	108.090	-0.560	0.000	0.00	9.2	9.2	OK
1.012	S32	18	107.315	0.141	0.000	0.44		248.2	SURCHARGED
5.000	S22	22	111.842	-0.153	0.000	0.22		14.7	OK
5.001	S23	22	111.110	-0.125	0.000	0.41		14.7	OK
5.002	S24	21	111.001	-0.169	0.000	0.40		39.0	OK
5.003	S25	21	110.728	-0.287	0.000	0.13		43.1	OK
5.004	S26	20	109.535	-0.290	0.000	0.12		56.8	OK
5.005	S27	22	107.327	0.207	0.000	0.62		66.4	SURCHARGED
5.006	S28	22	107.325	0.263	0.000	0.82		69.6	SURCHARGED
5.007	S29	22	107.322	0.303	0.000	0.54		71.5	SURCHARGED
5.008	S30	19	107.319	0.355	0.000	0.54		75.7	SURCHARGED
5.009	S31	18	107.316	0.433	0.000	0.62		90.0	SURCHARGED
1.013	S33	16	107.312	0.333	0.000	0.77		263.8	SURCHARGED
1.014	S34	10	107.308	0.379	0.000	0.61		261.8	SURCHARGED
1.015	S35	10	107.305	0.530	0.000	0.05		21.9	SURCHARGED
1.016	S36	30	106.188	-0.087	0.000	0.69		21.9	OK

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Summary Wizard of 480 minute 100 year Summer I+40% for Surface Water Network

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	0.000
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	5	Number of Time/Area Diagrams	0
Number of Online Controls	3	Number of Storage Structures	2	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.401
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.600	Cv (Winter)	0.840

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

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, 40

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S4	27	113.903	-0.172	0.000	0.13		10.0	OK
1.001	S5	27	112.702	-0.173	0.000	0.12		11.2	OK
1.002	S6	27	112.017	-0.128	0.000	0.39		14.2	OK
1.003	S7	27	111.715	-0.300	0.000	0.09		26.0	OK
2.000	S1	27	113.412	-0.263	0.000	0.19		44.0	OK
2.001	S2	27	112.750	-0.265	0.000	0.19		57.0	OK
2.002	S3	27	111.579	-0.326	0.000	0.17		65.1	OK
1.004	S8	27	111.229	-0.221	0.000	0.52		100.6	OK
1.005	S9	27	111.017	-0.292	0.000	0.27		118.2	OK
1.006	S10	27	110.300	-0.319	0.000	0.19		120.6	OK
1.007	S11	27	108.843	-0.457	0.000	0.13		144.7	OK
1.008	S12	27	107.327	-0.223	0.000	0.33		158.6	OK
3.000	S13	27	110.634	-0.191	0.000	0.06		5.1	OK
3.001	S14	27	109.528	-0.237	0.000	0.10		17.4	OK
3.002	S15	27	108.821	-0.239	0.000	0.09		22.6	OK

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Summary Wizard of 480 minute 100 year Summer I+40% for Surface Water Network

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.009	S16	26	107.324	0.010	0.000	0.70		186.5	SURCHARGED
1.010	S17	21	107.321	0.078	0.000	0.88		188.6	SURCHARGED
1.011	S18	20	107.319	0.101	0.000	0.63		187.5	SURCHARGED
4.000	S38	27	111.645	-0.665	0.000	0.01		17.3	OK
4.001	S39	27	111.206	-0.654	0.000	0.01	1.2	16.1	OK
4.002	S40	27	111.164	-0.666	0.000	0.01	0.7	15.4	OK
4.003	S41	27	110.977	-0.563	0.000	0.00	8.9	8.9	OK
4.004	S42	27	109.167	-0.673	0.000	0.00	0.4	15.1	OK
4.005	S43	27	108.074	-0.576	0.000	0.00	7.5	7.6	OK
1.012	S32	16	107.317	0.143	0.000	0.36		201.5	SURCHARGED
5.000	S22	27	111.834	-0.161	0.000	0.18		11.7	OK
5.001	S23	27	111.098	-0.137	0.000	0.33		11.7	OK
5.002	S24	27	110.985	-0.185	0.000	0.32		31.1	OK
5.003	S25	27	110.719	-0.296	0.000	0.10		34.4	OK
5.004	S26	27	109.527	-0.298	0.000	0.09		45.3	OK
5.005	S27	23	107.326	0.206	0.000	0.49		53.0	SURCHARGED
5.006	S28	23	107.324	0.262	0.000	0.66		55.6	SURCHARGED
5.007	S29	21	107.322	0.303	0.000	0.43		57.1	SURCHARGED
5.008	S30	18	107.320	0.356	0.000	0.44		60.6	SURCHARGED
5.009	S31	17	107.318	0.435	0.000	0.49		72.1	SURCHARGED
1.013	S33	15	107.314	0.335	0.000	0.63		214.9	SURCHARGED
1.014	S34	9	107.311	0.382	0.000	0.50		213.2	SURCHARGED
1.015	S35	9	107.308	0.533	0.000	0.05		21.9	SURCHARGED
1.016	S36	28	106.188	-0.087	0.000	0.69		21.9	OK

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Summary Wizard of 600 minute 100 year Summer I+40% for Surface Water Network

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	0.000
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	5	Number of Time/Area Diagrams	0
Number of Online Controls	3	Number of Storage Structures	2	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.401
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.600	Cv (Winter)	0.840

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

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, 40

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S4	32	113.899	-0.176	0.000	0.11		8.4	OK
1.001	S5	32	112.698	-0.177	0.000	0.10		9.4	OK
1.002	S6	32	112.008	-0.137	0.000	0.33		11.9	OK
1.003	S7	32	111.707	-0.308	0.000	0.07		21.8	OK
2.000	S1	32	113.401	-0.274	0.000	0.16		36.9	OK
2.001	S2	32	112.739	-0.276	0.000	0.16		47.8	OK
2.002	S3	32	111.568	-0.337	0.000	0.14		54.6	OK
1.004	S8	32	111.206	-0.244	0.000	0.43		84.3	OK
1.005	S9	32	111.003	-0.306	0.000	0.22		99.0	OK
1.006	S10	32	110.287	-0.332	0.000	0.16		101.0	OK
1.007	S11	32	108.832	-0.468	0.000	0.11		121.3	OK
1.008	S12	28	107.317	-0.233	0.000	0.27		132.9	OK
3.000	S13	32	110.631	-0.194	0.000	0.05		4.3	OK
3.001	S14	32	109.523	-0.242	0.000	0.08		14.6	OK
3.002	S15	32	108.815	-0.245	0.000	0.08		19.0	OK

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Summary Wizard of 600 minute 100 year Summer I+40% for Surface Water Network

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.009	S16	28	107.314	0.000	0.000	0.59		156.4	OK
1.010	S17	23	107.310	0.067	0.000	0.74		158.2	SURCHARGED
1.011	S18	22	107.309	0.091	0.000	0.53		157.1	SURCHARGED
4.000	S38	32	111.639	-0.671	0.000	0.00		14.5	OK
4.001	S39	32	111.199	-0.661	0.000	0.01	0.9	13.6	OK
4.002	S40	32	111.159	-0.671	0.000	0.00	0.5	13.1	OK
4.003	S41	32	110.964	-0.576	0.000	0.00	7.5	7.5	OK
4.004	S42	32	109.163	-0.677	0.000	0.00	0.3	12.8	OK
4.005	S43	32	108.062	-0.588	0.000	0.00	6.4	6.4	OK
1.012	S32	19	107.307	0.133	0.000	0.30		169.1	SURCHARGED
5.000	S22	32	111.828	-0.167	0.000	0.15		9.8	OK
5.001	S23	32	111.090	-0.145	0.000	0.27		9.8	OK
5.002	S24	32	110.974	-0.196	0.000	0.26		26.1	OK
5.003	S25	32	110.713	-0.302	0.000	0.08		28.8	OK
5.004	S26	32	109.520	-0.305	0.000	0.08		38.0	OK
5.005	S27	24	107.315	0.195	0.000	0.41		44.5	SURCHARGED
5.006	S28	24	107.314	0.252	0.000	0.55		46.7	SURCHARGED
5.007	S29	23	107.312	0.293	0.000	0.36		47.9	SURCHARGED
5.008	S30	20	107.310	0.346	0.000	0.37		50.9	SURCHARGED
5.009	S31	19	107.308	0.425	0.000	0.42		60.6	SURCHARGED
1.013	S33	18	107.305	0.326	0.000	0.53		180.9	SURCHARGED
1.014	S34	12	107.302	0.373	0.000	0.42		179.6	SURCHARGED
1.015	S35	11	107.299	0.524	0.000	0.05		21.9	SURCHARGED
1.016	S36	26	106.188	-0.087	0.000	0.69		21.9	OK

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Summary Wizard of 720 minute 100 year Summer I+40% for Surface Water Network

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	0.000
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	5	Number of Time/Area Diagrams	0
Number of Online Controls	3	Number of Storage Structures	2	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.401
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.600	Cv (Winter)	0.840

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

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, 40

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S4	34	113.896	-0.179	0.000	0.09		7.2	OK
1.001	S5	34	112.695	-0.180	0.000	0.09		8.1	OK
1.002	S6	34	112.001	-0.144	0.000	0.28		10.3	OK
1.003	S7	34	111.701	-0.314	0.000	0.06		18.8	OK
2.000	S1	34	113.393	-0.282	0.000	0.14		31.9	OK
2.001	S2	34	112.732	-0.283	0.000	0.14		41.3	OK
2.002	S3	34	111.560	-0.345	0.000	0.12		47.2	OK
1.004	S8	34	111.190	-0.260	0.000	0.37		73.0	OK
1.005	S9	34	110.993	-0.316	0.000	0.19		85.7	OK
1.006	S10	34	110.278	-0.341	0.000	0.14		87.4	OK
1.007	S11	34	108.823	-0.477	0.000	0.09		104.9	OK
1.008	S12	29	107.313	-0.237	0.000	0.24		115.0	OK
3.000	S13	34	110.629	-0.196	0.000	0.04		3.7	OK
3.001	S14	34	109.518	-0.247	0.000	0.07		12.6	OK
3.002	S15	34	108.810	-0.250	0.000	0.07		16.4	OK

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Summary Wizard of 720 minute 100 year Summer I+40% for Surface Water Network

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.009	S16	29	107.311	-0.003	0.000	0.51		134.9	OK
1.010	S17	25	107.298	0.055	0.000	0.63		135.0	SURCHARGED
1.011	S18	25	107.296	0.078	0.000	0.45		134.2	SURCHARGED
4.000	S38	34	111.635	-0.675	0.000	0.00		12.6	OK
4.001	S39	34	111.194	-0.666	0.000	0.01	0.7	11.9	OK
4.002	S40	34	111.156	-0.674	0.000	0.00	0.4	11.5	OK
4.003	S41	34	110.954	-0.586	0.000	0.00	6.6	6.6	OK
4.004	S42	34	109.160	-0.680	0.000	0.00	0.3	11.2	OK
4.005	S43	34	108.051	-0.599	0.000	0.00	5.6	5.6	OK
1.012	S32	20	107.294	0.120	0.000	0.26		145.1	SURCHARGED
5.000	S22	34	111.823	-0.172	0.000	0.13		8.5	OK
5.001	S23	34	111.084	-0.151	0.000	0.24		8.5	OK
5.002	S24	34	110.967	-0.203	0.000	0.23		22.6	OK
5.003	S25	34	110.706	-0.309	0.000	0.07		24.9	OK
5.004	S26	34	109.514	-0.311	0.000	0.07		32.8	OK
5.005	S27	27	107.303	0.183	0.000	0.36		38.5	SURCHARGED
5.006	S28	26	107.301	0.239	0.000	0.48		40.4	SURCHARGED
5.007	S29	25	107.299	0.280	0.000	0.32		41.4	SURCHARGED
5.008	S30	22	107.297	0.333	0.000	0.32		44.0	SURCHARGED
5.009	S31	21	107.295	0.412	0.000	0.36		52.5	SURCHARGED
1.013	S33	19	107.292	0.313	0.000	0.46		156.7	SURCHARGED
1.014	S34	13	107.289	0.360	0.000	0.36		155.6	SURCHARGED
1.015	S35	13	107.286	0.511	0.000	0.05		21.9	SURCHARGED
1.016	S36	24	106.188	-0.087	0.000	0.69		21.9	OK

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Summary Wizard of 960 minute 100 year Summer I+40% for Surface Water Network

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	0.000
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	5	Number of Time/Area Diagrams	0
Number of Online Controls	3	Number of Storage Structures	2	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.401
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.600	Cv (Winter)	0.840

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

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, 40

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S4	40	113.890	-0.185	0.000	0.07		5.7	OK
1.001	S5	40	112.689	-0.186	0.000	0.07		6.4	OK
1.002	S6	40	111.992	-0.153	0.000	0.23		8.2	OK
1.003	S7	40	111.694	-0.321	0.000	0.05		15.0	OK
2.000	S1	40	113.383	-0.292	0.000	0.11		25.3	OK
2.001	S2	40	112.722	-0.293	0.000	0.11		32.9	OK
2.002	S3	40	111.549	-0.356	0.000	0.10		37.5	OK
1.004	S8	40	111.167	-0.283	0.000	0.30		58.0	OK
1.005	S9	40	110.976	-0.333	0.000	0.15		68.1	OK
1.006	S10	40	110.267	-0.352	0.000	0.11		69.5	OK
1.007	S11	40	108.808	-0.492	0.000	0.08		83.4	OK
1.008	S12	30	107.279	-0.271	0.000	0.19		91.4	OK
3.000	S13	40	110.626	-0.199	0.000	0.03		3.0	OK
3.001	S14	40	109.511	-0.254	0.000	0.06		10.0	OK
3.002	S15	40	108.804	-0.256	0.000	0.05		13.1	OK

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Summary Wizard of 960 minute 100 year Summer I+40% for Surface Water Network

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.009	S16	30	107.277	-0.037	0.000	0.40		107.3	OK
1.010	S17	28	107.272	0.029	0.000	0.50		107.4	SURCHARGED
1.011	S18	27	107.271	0.053	0.000	0.36		106.8	SURCHARGED
4.000	S38	40	111.630	-0.680	0.000	0.00		10.0	OK
4.001	S39	40	111.187	-0.673	0.000	0.01	0.4	9.5	OK
4.002	S40	40	111.151	-0.679	0.000	0.00	0.3	9.3	OK
4.003	S41	40	110.938	-0.602	0.000	0.00	5.3	5.3	OK
4.004	S42	40	109.156	-0.684	0.000	0.00	0.2	9.0	OK
4.005	S43	40	108.037	-0.613	0.000	0.00	4.5	4.5	OK
1.012	S32	22	107.269	0.095	0.000	0.21		115.6	SURCHARGED
5.000	S22	40	111.818	-0.177	0.000	0.10		6.8	OK
5.001	S23	40	111.076	-0.159	0.000	0.19		6.8	OK
5.002	S24	40	110.956	-0.214	0.000	0.18		17.9	OK
5.003	S25	40	110.698	-0.317	0.000	0.06		19.8	OK
5.004	S26	40	109.506	-0.319	0.000	0.05		26.1	OK
5.005	S27	28	107.277	0.157	0.000	0.29		30.7	SURCHARGED
5.006	S28	27	107.276	0.214	0.000	0.38		32.2	SURCHARGED
5.007	S29	27	107.273	0.254	0.000	0.25		32.9	SURCHARGED
5.008	S30	26	107.272	0.308	0.000	0.25		35.0	SURCHARGED
5.009	S31	22	107.269	0.386	0.000	0.28		41.5	SURCHARGED
1.013	S33	21	107.266	0.287	0.000	0.37		126.3	SURCHARGED
1.014	S34	15	107.263	0.334	0.000	0.29		125.2	SURCHARGED
1.015	S35	15	107.260	0.485	0.000	0.05		21.9	SURCHARGED
1.016	S36	8	106.188	-0.087	0.000	0.69		21.9	OK

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Summary Wizard of 1440 minute 100 year Summer I+40% for Surface Water Network

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	0.000
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	5	Number of Time/Area Diagrams	0
Number of Online Controls	3	Number of Storage Structures	2	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.401
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.600	Cv (Winter)	0.840

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

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, 40

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S4	47	113.883	-0.192	0.000	0.05		4.2	OK
1.001	S5	47	112.682	-0.193	0.000	0.05		4.7	OK
1.002	S6	47	111.980	-0.165	0.000	0.16		5.9	OK
1.003	S7	47	111.686	-0.329	0.000	0.04		10.8	OK
2.000	S1	47	113.371	-0.304	0.000	0.08		18.3	OK
2.001	S2	47	112.709	-0.306	0.000	0.08		23.8	OK
2.002	S3	47	111.534	-0.371	0.000	0.07		27.1	OK
1.004	S8	47	111.141	-0.309	0.000	0.22		41.9	OK
1.005	S9	47	110.959	-0.350	0.000	0.11		49.2	OK
1.006	S10	47	110.252	-0.367	0.000	0.08		50.2	OK
1.007	S11	47	108.790	-0.510	0.000	0.05		60.3	OK
1.008	S12	32	107.228	-0.322	0.000	0.14		66.1	OK
3.000	S13	47	110.623	-0.202	0.000	0.02		2.1	OK
3.001	S14	47	109.504	-0.261	0.000	0.04		7.3	OK
3.002	S15	47	108.798	-0.262	0.000	0.04		9.4	OK

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Summary Wizard of 1440 minute 100 year Summer I+40% for Surface Water Network

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.009	S16	31	107.225	-0.089	0.000	0.29		77.6	OK
1.010	S17	31	107.221	-0.022	0.000	0.36		77.8	OK
1.011	S18	29	107.218	0.000	0.000	0.26		77.4	OK
4.000	S38	47	111.625	-0.685	0.000	0.00		7.2	OK
4.001	S39	47	111.180	-0.680	0.000	0.00	0.3	7.0	OK
4.002	S40	47	111.145	-0.685	0.000	0.00	0.2	6.8	OK
4.003	S41	47	110.922	-0.618	0.000	0.00	3.9	3.9	OK
4.004	S42	47	109.152	-0.688	0.000	0.00	0.1	6.6	OK
4.005	S43	47	108.026	-0.624	0.000	0.00	3.3	3.3	OK
1.012	S32	24	107.213	0.039	0.000	0.15		83.8	SURCHARGED
5.000	S22	47	111.810	-0.185	0.000	0.07		4.9	OK
5.001	S23	47	111.065	-0.170	0.000	0.14		4.9	OK
5.002	S24	47	110.942	-0.228	0.000	0.13		13.0	OK
5.003	S25	47	110.689	-0.326	0.000	0.04		14.3	OK
5.004	S26	47	109.498	-0.327	0.000	0.04		18.9	OK
5.005	S27	29	107.221	0.101	0.000	0.21		22.3	SURCHARGED
5.006	S28	29	107.220	0.158	0.000	0.28		23.6	SURCHARGED
5.007	S29	28	107.218	0.199	0.000	0.19		24.4	SURCHARGED
5.008	S30	28	107.216	0.252	0.000	0.19		25.9	SURCHARGED
5.009	S31	25	107.214	0.331	0.000	0.21		30.5	SURCHARGED
1.013	S33	24	107.211	0.232	0.000	0.28		97.6	SURCHARGED
1.014	S34	17	107.208	0.279	0.000	0.23		97.7	SURCHARGED
1.015	S35	17	107.205	0.430	0.000	0.05		21.9	SURCHARGED
1.016	S36	18	106.188	-0.087	0.000	0.69		21.9	OK

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Summary Wizard of 15 minute 1 year Winter I+0% for Surface Water Network

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	0.000
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	5	Number of Time/Area Diagrams	0
Number of Online Controls	3	Number of Storage Structures	2	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.401
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.600	Cv (Winter)	0.840

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

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, 40

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S4	19	113.916	-0.159	0.000	0.19		14.3	OK
1.001	S5	19	112.714	-0.161	0.000	0.17		15.9	OK
1.002	S6	19	112.039	-0.106	0.000	0.55		19.7	OK
1.003	S7	19	111.725	-0.290	0.000	0.12		34.1	OK
2.000	S1	19	113.437	-0.238	0.000	0.28		63.7	OK
2.001	S2	19	112.772	-0.243	0.000	0.26		79.5	OK
2.002	S3	19	111.604	-0.301	0.000	0.24		90.1	OK
1.004	S8	19	111.278	-0.172	0.000	0.69		135.4	OK
1.005	S9	19	111.044	-0.265	0.000	0.35		155.8	OK
1.006	S10	19	110.320	-0.299	0.000	0.24		157.6	OK
1.007	S11	19	108.866	-0.434	0.000	0.17		185.6	OK
1.008	S12	31	107.244	-0.306	0.000	0.41		201.0	OK
3.000	S13	19	110.643	-0.182	0.000	0.08		7.5	OK
3.001	S14	19	109.537	-0.228	0.000	0.13		22.7	OK
3.002	S15	19	108.829	-0.231	0.000	0.12		29.0	OK

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Summary Wizard of 15 minute 1 year Winter I+0% for Surface Water Network

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.009	S16	32	107.207	-0.107	0.000	0.86		229.4	OK
1.010	S17	32	107.130	-0.113	0.000	1.06		228.1	OK
1.011	S18	32	106.988	-0.230	0.000	0.76		227.2	OK
4.000	S38	19	111.662	-0.648	0.000	0.01		25.1	OK
4.001	S39	19	111.227	-0.633	0.000	0.01	2.4	22.9	OK
4.002	S40	19	111.179	-0.651	0.000	0.01	1.3	21.7	OK
4.003	S41	19	111.002	-0.538	0.000	0.00	11.6	11.7	OK
4.004	S42	19	109.174	-0.666	0.000	0.01	0.7	18.5	OK
4.005	S43	21	108.089	-0.561	0.000	0.00	9.1	9.1	OK
1.012	S32	40	106.811	-0.363	0.000	0.44		245.5	OK
5.000	S22	19	111.848	-0.147	0.000	0.26		16.9	OK
5.001	S23	19	111.120	-0.115	0.000	0.47		17.1	OK
5.002	S24	19	111.005	-0.165	0.000	0.41		40.9	OK
5.003	S25	19	110.731	-0.284	0.000	0.13		45.0	OK
5.004	S26	19	109.537	-0.288	0.000	0.12		58.4	OK
5.005	S27	32	106.980	-0.140	0.000	0.64		68.3	OK
5.006	S28	32	106.954	-0.108	0.000	0.84		71.4	OK
5.007	S29	40	106.826	-0.193	0.000	0.56		73.7	OK
5.008	S30	46	106.770	-0.194	0.000	0.55		76.4	OK
5.009	S31	47	106.729	-0.154	0.000	0.56		82.1	OK
1.013	S33	48	106.702	-0.277	0.000	0.65		222.9	OK
1.014	S34	49	106.600	-0.329	0.000	0.52		223.3	OK
1.015	S35	71	106.314	-0.461	0.000	0.03		13.7	OK
1.016	S36	71	106.153	-0.122	0.000	0.43		13.7	OK

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Summary Wizard of 30 minute 1 year Winter I+0% for Surface Water Network

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	0.000
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	5	Number of Time/Area Diagrams	0
Number of Online Controls	3	Number of Storage Structures	2	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.401
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.600	Cv (Winter)	0.840

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

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, 40

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S4	26	113.907	-0.168	0.000	0.15		11.3	OK
1.001	S5	26	112.705	-0.170	0.000	0.14		12.6	OK
1.002	S6	26	112.024	-0.121	0.000	0.43		15.7	OK
1.003	S7	26	111.718	-0.297	0.000	0.10		28.1	OK
2.000	S1	26	113.419	-0.256	0.000	0.22		50.1	OK
2.001	S2	26	112.756	-0.259	0.000	0.21		63.8	OK
2.002	S3	26	111.587	-0.318	0.000	0.19		72.3	OK
1.004	S8	26	111.243	-0.207	0.000	0.57		110.3	OK
1.005	S9	26	111.025	-0.284	0.000	0.29		128.7	OK
1.006	S10	26	110.306	-0.313	0.000	0.20		131.1	OK
1.007	S11	26	108.849	-0.451	0.000	0.14		156.0	OK
1.008	S12	37	107.198	-0.352	0.000	0.35		169.8	OK
3.000	S13	26	110.637	-0.188	0.000	0.06		5.8	OK
3.001	S14	26	109.530	-0.235	0.000	0.11		18.8	OK
3.002	S15	26	108.823	-0.237	0.000	0.10		24.3	OK

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Summary Wizard of 30 minute 1 year Winter I+0% for Surface Water Network

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.009	S16	37	107.149	-0.165	0.000	0.74		196.3	OK
1.010	S17	37	107.074	-0.169	0.000	0.92		197.3	OK
1.011	S18	37	106.945	-0.273	0.000	0.66		196.5	OK
4.000	S38	26	111.650	-0.660	0.000	0.01		19.8	OK
4.001	S39	25	111.212	-0.648	0.000	0.01	1.6	18.2	OK
4.002	S40	26	111.169	-0.661	0.000	0.01	0.9	17.3	OK
4.003	S41	26	110.984	-0.556	0.000	0.00	9.6	9.6	OK
4.004	S42	26	109.169	-0.671	0.000	0.00	0.5	15.9	OK
4.005	S43	26	108.077	-0.573	0.000	0.00	7.9	7.9	OK
1.012	S32	48	106.788	-0.386	0.000	0.38		212.9	OK
5.000	S22	26	111.838	-0.157	0.000	0.20		13.4	OK
5.001	S23	26	111.105	-0.130	0.000	0.37		13.3	OK
5.002	S24	26	110.991	-0.179	0.000	0.34		33.7	OK
5.003	S25	26	110.722	-0.293	0.000	0.11		37.1	OK
5.004	S26	26	109.530	-0.295	0.000	0.10		48.6	OK
5.005	S27	37	106.950	-0.170	0.000	0.53		57.3	OK
5.006	S28	37	106.922	-0.140	0.000	0.72		60.6	OK
5.007	S29	45	106.810	-0.209	0.000	0.47		62.3	OK
5.008	S30	47	106.764	-0.200	0.000	0.47		64.8	OK
5.009	S31	48	106.727	-0.156	0.000	0.49		71.8	OK
1.013	S33	50	106.698	-0.281	0.000	0.64		219.9	OK
1.014	S34	50	106.597	-0.332	0.000	0.51		220.5	OK
1.015	S35	69	106.367	-0.408	0.000	0.04		18.3	OK
1.016	S36	69	106.173	-0.102	0.000	0.58		18.3	OK

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Summary Wizard of 60 minute 1 year Winter I+0% for Surface Water Network

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
Hot Start (mins) 0 MADD Factor * 10m³/ha Storage 0.000
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 5 Number of Time/Area Diagrams 0
Number of Online Controls 3 Number of Storage Structures 2 Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model FSR Ratio R 0.401
Region England and Wales Cv (Summer) 0.750
M5-60 (mm) 19.600 Cv (Winter) 0.840

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

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, 40

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S4	33	113.897	-0.178	0.000	0.10		7.7	OK
1.001	S5	33	112.696	-0.179	0.000	0.09		8.6	OK
1.002	S6	33	112.004	-0.141	0.000	0.30		10.8	OK
1.003	S7	33	111.703	-0.312	0.000	0.07		19.6	OK
2.000	S1	33	113.396	-0.279	0.000	0.15		33.8	OK
2.001	S2	33	112.734	-0.281	0.000	0.14		43.5	OK
2.002	S3	33	111.562	-0.343	0.000	0.13		49.6	OK
1.004	S8	33	111.195	-0.255	0.000	0.39		76.3	OK
1.005	S9	33	110.996	-0.313	0.000	0.20		89.4	OK
1.006	S10	33	110.281	-0.338	0.000	0.14		91.1	OK
1.007	S11	33	108.826	-0.474	0.000	0.10		109.0	OK
1.008	S12	41	107.151	-0.399	0.000	0.24		119.3	OK
3.000	S13	33	110.630	-0.195	0.000	0.04		3.9	OK
3.001	S14	33	109.519	-0.246	0.000	0.07		13.1	OK
3.002	S15	33	108.811	-0.249	0.000	0.07		17.0	OK

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Summary Wizard of 60 minute 1 year Winter I+0% for Surface Water Network

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.009	S16	41	107.049	-0.265	0.000	0.53		139.6	OK
1.010	S17	41	106.967	-0.276	0.000	0.65		140.9	OK
1.011	S18	44	106.869	-0.349	0.000	0.47		140.6	OK
4.000	S38	33	111.637	-0.673	0.000	0.00		13.3	OK
4.001	S39	33	111.196	-0.664	0.000	0.01	0.8	12.6	OK
4.002	S40	33	111.157	-0.673	0.000	0.00	0.4	12.1	OK
4.003	S41	33	110.957	-0.583	0.000	0.00	6.8	6.8	OK
4.004	S42	33	109.161	-0.679	0.000	0.00	0.3	11.5	OK
4.005	S43	33	108.053	-0.597	0.000	0.00	5.7	5.7	OK
1.012	S32	52	106.739	-0.435	0.000	0.27		153.6	OK
5.000	S22	33	111.825	-0.170	0.000	0.14		9.0	OK
5.001	S23	33	111.086	-0.149	0.000	0.25		9.0	OK
5.002	S24	33	110.969	-0.201	0.000	0.24		23.5	OK
5.003	S25	33	110.708	-0.307	0.000	0.08		25.9	OK
5.004	S26	33	109.515	-0.310	0.000	0.07		34.1	OK
5.005	S27	41	106.906	-0.214	0.000	0.38		40.3	OK
5.006	S28	44	106.875	-0.187	0.000	0.50		42.7	OK
5.007	S29	51	106.772	-0.247	0.000	0.34		44.2	OK
5.008	S30	52	106.728	-0.236	0.000	0.34		46.8	OK
5.009	S31	54	106.685	-0.198	0.000	0.37		53.7	OK
1.013	S33	54	106.654	-0.325	0.000	0.53		182.4	OK
1.014	S34	54	106.561	-0.368	0.000	0.43		182.3	OK
1.015	S35	62	106.419	-0.356	0.000	0.05		20.0	OK
1.016	S36	62	106.180	-0.095	0.000	0.63		20.0	OK

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Summary Wizard of 120 minute 1 year Winter I+0% for Surface Water Network

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	0.000
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	5	Number of Time/Area Diagrams	0
Number of Online Controls	3	Number of Storage Structures	2	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.401
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.600	Cv (Winter)	0.840

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

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, 40

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S4	45	113.886	-0.189	0.000	0.06		4.9	OK
1.001	S5	45	112.685	-0.190	0.000	0.06		5.4	OK
1.002	S6	45	111.986	-0.159	0.000	0.19		6.9	OK
1.003	S7	45	111.690	-0.325	0.000	0.04		12.6	OK
2.000	S1	45	113.377	-0.298	0.000	0.09		21.4	OK
2.001	S2	45	112.716	-0.299	0.000	0.09		27.7	OK
2.002	S3	45	111.541	-0.364	0.000	0.08		31.6	OK
1.004	S8	45	111.152	-0.298	0.000	0.25		48.7	OK
1.005	S9	45	110.966	-0.343	0.000	0.13		57.2	OK
1.006	S10	45	110.260	-0.359	0.000	0.09		58.3	OK
1.007	S11	45	108.797	-0.503	0.000	0.06		69.9	OK
1.008	S12	48	107.108	-0.442	0.000	0.16		76.6	OK
3.000	S13	45	110.625	-0.200	0.000	0.03		2.5	OK
3.001	S14	45	109.507	-0.258	0.000	0.05		8.4	OK
3.002	S15	45	108.800	-0.260	0.000	0.04		10.9	OK

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Summary Wizard of 120 minute 1 year Winter I+0% for Surface Water Network

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.009	S16	48	106.965	-0.349	0.000	0.34		90.0	OK
1.010	S17	49	106.874	-0.369	0.000	0.42		91.0	OK
1.011	S18	52	106.798	-0.420	0.000	0.31		90.9	OK
4.000	S38	45	111.627	-0.683	0.000	0.00		8.4	OK
4.001	S39	45	111.183	-0.677	0.000	0.00	0.3	8.1	OK
4.002	S40	45	111.148	-0.682	0.000	0.00	0.2	7.9	OK
4.003	S41	45	110.928	-0.612	0.000	0.00	4.5	4.5	OK
4.004	S42	45	109.154	-0.686	0.000	0.00	0.1	7.6	OK
4.005	S43	45	108.031	-0.619	0.000	0.00	3.8	3.8	OK
1.012	S32	57	106.690	-0.484	0.000	0.18		99.7	OK
5.000	S22	45	111.814	-0.181	0.000	0.09		5.7	OK
5.001	S23	45	111.070	-0.165	0.000	0.16		5.7	OK
5.002	S24	45	110.948	-0.222	0.000	0.15		15.1	OK
5.003	S25	45	110.693	-0.322	0.000	0.05		16.6	OK
5.004	S26	45	109.501	-0.324	0.000	0.05		21.9	OK
5.005	S27	49	106.869	-0.251	0.000	0.24		25.9	OK
5.006	S28	51	106.833	-0.229	0.000	0.32		27.5	OK
5.007	S29	55	106.727	-0.292	0.000	0.22		28.6	OK
5.008	S30	56	106.680	-0.284	0.000	0.22		30.6	OK
5.009	S31	56	106.628	-0.255	0.000	0.25		36.1	OK
1.013	S33	56	106.590	-0.389	0.000	0.38		129.3	OK
1.014	S34	56	106.507	-0.422	0.000	0.30		129.3	OK
1.015	S35	53	106.454	-0.321	0.000	0.05		20.7	OK
1.016	S36	53	106.183	-0.092	0.000	0.66		20.7	OK

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Summary Wizard of 180 minute 1 year Winter I+0% for Surface Water Network

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	0.000
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	5	Number of Time/Area Diagrams	0
Number of Online Controls	3	Number of Storage Structures	2	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.401
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.600	Cv (Winter)	0.840

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

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, 40

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S4	52	113.881	-0.194	0.000	0.05		3.7	OK
1.001	S5	52	112.680	-0.195	0.000	0.05		4.1	OK
1.002	S6	52	111.976	-0.169	0.000	0.14		5.2	OK
1.003	S7	52	111.684	-0.331	0.000	0.03		9.5	OK
2.000	S1	52	113.366	-0.309	0.000	0.07		16.2	OK
2.001	S2	52	112.704	-0.311	0.000	0.07		21.0	OK
2.002	S3	52	111.528	-0.377	0.000	0.06		23.9	OK
1.004	S8	52	111.132	-0.318	0.000	0.19		37.0	OK
1.005	S9	52	110.953	-0.356	0.000	0.10		43.4	OK
1.006	S10	52	110.246	-0.373	0.000	0.07		44.2	OK
1.007	S11	52	108.784	-0.516	0.000	0.05		53.1	OK
1.008	S12	53	107.087	-0.463	0.000	0.12		58.1	OK
3.000	S13	52	110.622	-0.203	0.000	0.02		1.9	OK
3.001	S14	52	109.502	-0.263	0.000	0.04		6.4	OK
3.002	S15	52	108.796	-0.264	0.000	0.03		8.3	OK

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Summary Wizard of 180 minute 1 year Winter I+0% for Surface Water Network

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.009	S16	53	106.926	-0.388	0.000	0.26		68.4	OK
1.010	S17	55	106.830	-0.413	0.000	0.32		69.2	OK
1.011	S18	56	106.762	-0.456	0.000	0.23		69.1	OK
4.000	S38	52	111.623	-0.687	0.000	0.00		6.4	OK
4.001	S39	52	111.178	-0.682	0.000	0.00	0.2	6.2	OK
4.002	S40	52	111.143	-0.687	0.000	0.00	0.1	6.0	OK
4.003	S41	52	110.917	-0.623	0.000	0.00	3.4	3.4	OK
4.004	S42	52	109.151	-0.689	0.000	0.00	0.1	5.8	OK
4.005	S43	52	108.022	-0.628	0.000	0.00	2.9	2.9	OK
1.012	S32	59	106.663	-0.511	0.000	0.14		75.9	OK
5.000	S22	52	111.807	-0.188	0.000	0.07		4.3	OK
5.001	S23	52	111.062	-0.173	0.000	0.12		4.3	OK
5.002	S24	52	110.938	-0.232	0.000	0.12		11.4	OK
5.003	S25	52	110.686	-0.329	0.000	0.04		12.6	OK
5.004	S26	52	109.495	-0.330	0.000	0.03		16.6	OK
5.005	S27	54	106.853	-0.267	0.000	0.18		19.6	OK
5.006	S28	56	106.813	-0.249	0.000	0.25		20.9	OK
5.007	S29	59	106.705	-0.314	0.000	0.17		21.7	OK
5.008	S30	59	106.654	-0.310	0.000	0.17		23.4	OK
5.009	S31	59	106.597	-0.286	0.000	0.19		27.7	OK
1.013	S33	59	106.553	-0.426	0.000	0.29		100.9	OK
1.014	S34	59	106.475	-0.454	0.000	0.24		100.9	OK
1.015	S35	51	106.465	-0.310	0.000	0.05		21.0	OK
1.016	S36	51	106.184	-0.091	0.000	0.66		21.0	OK

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Summary Wizard of 240 minute 1 year Winter I+0% for Surface Water Network

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	0.000
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	5	Number of Time/Area Diagrams	0
Number of Online Controls	3	Number of Storage Structures	2	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.401
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.600	Cv (Winter)	0.840

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

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, 40

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S4	56	113.878	-0.197	0.000	0.04		3.0	OK
1.001	S5	56	112.678	-0.197	0.000	0.04		3.4	OK
1.002	S6	57	111.971	-0.174	0.000	0.12		4.3	OK
1.003	S7	57	111.681	-0.334	0.000	0.03		7.8	OK
2.000	S1	56	113.358	-0.317	0.000	0.06		13.2	OK
2.001	S2	56	112.697	-0.318	0.000	0.06		17.2	OK
2.002	S3	57	111.520	-0.385	0.000	0.05		19.6	OK
1.004	S8	57	111.118	-0.332	0.000	0.16		30.3	OK
1.005	S9	57	110.944	-0.365	0.000	0.08		35.5	OK
1.006	S10	57	110.237	-0.382	0.000	0.06		36.2	OK
1.007	S11	57	108.776	-0.524	0.000	0.04		43.5	OK
1.008	S12	57	107.075	-0.475	0.000	0.10		47.6	OK
3.000	S13	56	110.618	-0.207	0.000	0.02		1.5	OK
3.001	S14	57	109.499	-0.266	0.000	0.03		5.2	OK
3.002	S15	57	108.793	-0.267	0.000	0.03		6.8	OK

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Summary Wizard of 240 minute 1 year Winter I+0% for Surface Water Network

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.009	S16	57	106.903	-0.411	0.000	0.21		56.0	OK
1.010	S17	59	106.802	-0.441	0.000	0.26		56.7	OK
1.011	S18	59	106.741	-0.477	0.000	0.19		56.7	OK
4.000	S38	56	111.621	-0.689	0.000	0.00		5.2	OK
4.001	S39	56	111.175	-0.685	0.000	0.00	0.2	5.1	OK
4.002	S40	56	111.141	-0.689	0.000	0.00	0.1	5.0	OK
4.003	S41	56	110.911	-0.629	0.000	0.00	2.8	2.8	OK
4.004	S42	57	109.149	-0.691	0.000	0.00	0.0	4.8	OK
4.005	S43	57	108.016	-0.634	0.000	0.00	2.4	2.4	OK
1.012	S32	61	106.648	-0.526	0.000	0.11		62.2	OK
5.000	S22	56	111.803	-0.192	0.000	0.05		3.5	OK
5.001	S23	56	111.057	-0.178	0.000	0.10		3.5	OK
5.002	S24	57	110.932	-0.238	0.000	0.09		9.4	OK
5.003	S25	57	110.683	-0.332	0.000	0.03		10.3	OK
5.004	S26	57	109.491	-0.334	0.000	0.03		13.6	OK
5.005	S27	58	106.841	-0.279	0.000	0.15		16.1	OK
5.006	S28	59	106.801	-0.261	0.000	0.20		17.1	OK
5.007	S29	61	106.690	-0.329	0.000	0.14		17.8	OK
5.008	S30	61	106.639	-0.325	0.000	0.14		19.2	OK
5.009	S31	60	106.578	-0.305	0.000	0.16		22.8	OK
1.013	S33	60	106.529	-0.450	0.000	0.24		83.9	OK
1.014	S34	60	106.474	-0.455	0.000	0.20		83.9	OK
1.015	S35	49	106.471	-0.304	0.000	0.05		21.1	OK
1.016	S36	49	106.185	-0.090	0.000	0.67		21.1	OK

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Summary Wizard of 360 minute 1 year Winter I+0% for Surface Water Network

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	0.000
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	5	Number of Time/Area Diagrams	0
Number of Online Controls	3	Number of Storage Structures	2	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.401
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.600	Cv (Winter)	0.840

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

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, 40

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S4	62	113.875	-0.200	0.000	0.03		2.2	OK
1.001	S5	62	112.675	-0.200	0.000	0.03		2.5	OK
1.002	S6	62	111.965	-0.180	0.000	0.09		3.2	OK
1.003	S7	62	111.675	-0.340	0.000	0.02		5.9	OK
2.000	S1	62	113.350	-0.325	0.000	0.04		9.9	OK
2.001	S2	62	112.689	-0.326	0.000	0.04		12.9	OK
2.002	S3	62	111.512	-0.393	0.000	0.04		14.7	OK
1.004	S8	62	111.102	-0.348	0.000	0.12		22.7	OK
1.005	S9	62	110.930	-0.379	0.000	0.06		26.6	OK
1.006	S10	62	110.228	-0.391	0.000	0.04		27.2	OK
1.007	S11	62	108.767	-0.533	0.000	0.03		32.6	OK
1.008	S12	62	107.057	-0.493	0.000	0.07		35.7	OK
3.000	S13	62	110.614	-0.211	0.000	0.01		1.2	OK
3.001	S14	62	109.496	-0.269	0.000	0.02		3.9	OK
3.002	S15	62	108.789	-0.271	0.000	0.02		5.1	OK

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Summary Wizard of 360 minute 1 year Winter I+0% for Surface Water Network

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.009	S16	62	106.874	-0.440	0.000	0.16		42.0	OK
1.010	S17	62	106.771	-0.472	0.000	0.20		42.5	OK
1.011	S18	63	106.712	-0.506	0.000	0.14		42.5	OK
4.000	S38	62	111.618	-0.692	0.000	0.00		3.9	OK
4.001	S39	62	111.171	-0.689	0.000	0.00	0.1	3.8	OK
4.002	S40	62	111.138	-0.692	0.000	0.00	0.0	3.8	OK
4.003	S41	62	110.902	-0.638	0.000	0.00	2.2	2.2	OK
4.004	S42	62	109.147	-0.693	0.000	0.00	0.0	3.6	OK
4.005	S43	62	108.006	-0.644	0.000	0.00	1.8	1.8	OK
1.012	S32	63	106.629	-0.545	0.000	0.08		46.7	OK
5.000	S22	62	111.799	-0.196	0.000	0.04		2.6	OK
5.001	S23	62	111.050	-0.185	0.000	0.07		2.6	OK
5.002	S24	62	110.922	-0.248	0.000	0.07		7.0	OK
5.003	S25	62	110.678	-0.337	0.000	0.02		7.7	OK
5.004	S26	62	109.488	-0.337	0.000	0.02		10.2	OK
5.005	S27	62	106.828	-0.292	0.000	0.11		12.1	OK
5.006	S28	62	106.784	-0.278	0.000	0.15		12.8	OK
5.007	S29	63	106.672	-0.347	0.000	0.10		13.3	OK
5.008	S30	63	106.619	-0.345	0.000	0.10		14.4	OK
5.009	S31	63	106.553	-0.330	0.000	0.12		17.2	OK
1.013	S33	63	106.499	-0.480	0.000	0.19		63.5	OK
1.014	S34	61	106.473	-0.456	0.000	0.15		63.4	OK
1.015	S35	50	106.470	-0.305	0.000	0.05		21.0	OK
1.016	S36	50	106.185	-0.090	0.000	0.67		21.0	OK

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Summary Wizard of 480 minute 1 year Winter I+0% for Surface Water Network

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	0.000
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	5	Number of Time/Area Diagrams	0
Number of Online Controls	3	Number of Storage Structures	2	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.401
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.600	Cv (Winter)	0.840

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

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, 40

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S4	65	113.873	-0.202	0.000	0.02		1.8	OK
1.001	S5	65	112.673	-0.202	0.000	0.02		2.0	OK
1.002	S6	65	111.959	-0.186	0.000	0.07		2.6	OK
1.003	S7	65	111.669	-0.346	0.000	0.02		4.8	OK
2.000	S1	65	113.346	-0.329	0.000	0.04		8.0	OK
2.001	S2	65	112.685	-0.330	0.000	0.03		10.4	OK
2.002	S3	65	111.507	-0.398	0.000	0.03		11.9	OK
1.004	S8	65	111.092	-0.358	0.000	0.09		18.4	OK
1.005	S9	65	110.923	-0.386	0.000	0.05		21.6	OK
1.006	S10	65	110.223	-0.396	0.000	0.03		22.0	OK
1.007	S11	65	108.762	-0.538	0.000	0.02		26.5	OK
1.008	S12	65	107.044	-0.506	0.000	0.06		29.0	OK
3.000	S13	65	110.611	-0.214	0.000	0.01		0.9	OK
3.001	S14	65	109.491	-0.274	0.000	0.02		3.2	OK
3.002	S15	65	108.784	-0.276	0.000	0.02		4.1	OK

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Summary Wizard of 480 minute 1 year Winter I+0% for Surface Water Network

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.009	S16	65	106.856	-0.458	0.000	0.13		34.1	OK
1.010	S17	65	106.748	-0.495	0.000	0.16		34.5	OK
1.011	S18	66	106.695	-0.523	0.000	0.12		34.5	OK
4.000	S38	65	111.616	-0.694	0.000	0.00		3.2	OK
4.001	S39	65	111.169	-0.691	0.000	0.00	0.0	3.1	OK
4.002	S40	65	111.137	-0.693	0.000	0.00	0.0	3.1	OK
4.003	S41	65	110.895	-0.645	0.000	0.00	1.8	1.8	OK
4.004	S42	65	109.145	-0.695	0.000	0.00	0.0	3.0	OK
4.005	S43	65	108.001	-0.649	0.000	0.00	1.5	1.5	OK
1.012	S32	66	106.613	-0.561	0.000	0.07		37.9	OK
5.000	S22	65	111.796	-0.199	0.000	0.03		2.1	OK
5.001	S23	65	111.045	-0.190	0.000	0.06		2.1	OK
5.002	S24	65	110.916	-0.254	0.000	0.06		5.7	OK
5.003	S25	65	110.673	-0.342	0.000	0.02		6.3	OK
5.004	S26	65	109.480	-0.345	0.000	0.02		8.3	OK
5.005	S27	65	106.821	-0.299	0.000	0.09		9.8	OK
5.006	S28	65	106.774	-0.288	0.000	0.12		10.4	OK
5.007	S29	66	106.662	-0.357	0.000	0.08		10.8	OK
5.008	S30	66	106.608	-0.356	0.000	0.08		11.7	OK
5.009	S31	66	106.538	-0.345	0.000	0.10		14.0	OK
1.013	S33	65	106.482	-0.497	0.000	0.15		51.4	OK
1.014	S34	62	106.464	-0.465	0.000	0.12		51.3	OK
1.015	S35	52	106.460	-0.315	0.000	0.05		20.8	OK
1.016	S36	52	106.184	-0.091	0.000	0.66		20.8	OK

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Summary Wizard of 600 minute 1 year Winter I+0% for Surface Water Network

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	0.000
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	5	Number of Time/Area Diagrams	0
Number of Online Controls	3	Number of Storage Structures	2	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.401
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.600	Cv (Winter)	0.840

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

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, 40

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S4	67	113.871	-0.204	0.000	0.02		1.5	OK
1.001	S5	67	112.670	-0.205	0.000	0.02		1.7	OK
1.002	S6	67	111.956	-0.189	0.000	0.06		2.2	OK
1.003	S7	67	111.664	-0.351	0.000	0.01		4.0	OK
2.000	S1	67	113.343	-0.332	0.000	0.03		6.8	OK
2.001	S2	67	112.682	-0.333	0.000	0.03		8.9	OK
2.002	S3	67	111.504	-0.401	0.000	0.03		10.1	OK
1.004	S8	67	111.084	-0.366	0.000	0.08		15.6	OK
1.005	S9	67	110.918	-0.391	0.000	0.04		18.3	OK
1.006	S10	67	110.219	-0.400	0.000	0.03		18.7	OK
1.007	S11	67	108.758	-0.542	0.000	0.02		22.5	OK
1.008	S12	67	107.036	-0.514	0.000	0.05		24.6	OK
3.000	S13	67	110.609	-0.216	0.000	0.01		0.8	OK
3.001	S14	67	109.487	-0.278	0.000	0.02		2.7	OK
3.002	S15	67	108.780	-0.280	0.000	0.01		3.5	OK

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Summary Wizard of 600 minute 1 year Winter I+0% for Surface Water Network

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.009	S16	67	106.845	-0.469	0.000	0.11		29.0	OK
1.010	S17	67	106.733	-0.510	0.000	0.14		29.3	OK
1.011	S18	67	106.684	-0.534	0.000	0.10		29.3	OK
4.000	S38	67	111.615	-0.695	0.000	0.00		2.7	OK
4.001	S39	67	111.168	-0.692	0.000	0.00	0.0	2.7	OK
4.002	S40	67	111.136	-0.694	0.000	0.00	0.0	2.6	OK
4.003	S41	67	110.891	-0.649	0.000	0.00	1.5	1.5	OK
4.004	S42	67	109.145	-0.695	0.000	0.00	0.0	2.5	OK
4.005	S43	67	107.997	-0.653	0.000	0.00	1.3	1.3	OK
1.012	S32	67	106.603	-0.571	0.000	0.06		32.2	OK
5.000	S22	67	111.795	-0.200	0.000	0.03		1.8	OK
5.001	S23	67	111.042	-0.193	0.000	0.05		1.8	OK
5.002	S24	67	110.912	-0.258	0.000	0.05		4.8	OK
5.003	S25	67	110.668	-0.347	0.000	0.02		5.3	OK
5.004	S26	67	109.476	-0.349	0.000	0.01		7.0	OK
5.005	S27	67	106.814	-0.306	0.000	0.08		8.3	OK
5.006	S28	67	106.767	-0.295	0.000	0.10		8.8	OK
5.007	S29	67	106.655	-0.364	0.000	0.07		9.2	OK
5.008	S30	67	106.600	-0.364	0.000	0.07		9.9	OK
5.009	S31	67	106.530	-0.353	0.000	0.08		11.9	OK
1.013	S33	67	106.472	-0.507	0.000	0.13		43.3	OK
1.014	S34	64	106.453	-0.476	0.000	0.10		43.2	OK
1.015	S35	54	106.449	-0.326	0.000	0.05		20.6	OK
1.016	S36	54	106.183	-0.092	0.000	0.65		20.6	OK

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Summary Wizard of 720 minute 1 year Winter I+0% for Surface Water Network

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	0.000
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	5	Number of Time/Area Diagrams	0
Number of Online Controls	3	Number of Storage Structures	2	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.401
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.600	Cv (Winter)	0.840

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

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, 40

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S4	69	113.869	-0.206	0.000	0.02		1.4	OK
1.001	S5	69	112.668	-0.207	0.000	0.02		1.5	OK
1.002	S6	69	111.953	-0.192	0.000	0.05		1.9	OK
1.003	S7	69	111.661	-0.354	0.000	0.01		3.5	OK
2.000	S1	69	113.340	-0.335	0.000	0.03		6.0	OK
2.001	S2	69	112.680	-0.335	0.000	0.03		7.8	OK
2.002	S3	69	111.501	-0.404	0.000	0.02		8.9	OK
1.004	S8	69	111.078	-0.372	0.000	0.07		13.7	OK
1.005	S9	69	110.914	-0.395	0.000	0.04		16.1	OK
1.006	S10	69	110.217	-0.402	0.000	0.03		16.4	OK
1.007	S11	69	108.750	-0.550	0.000	0.02		19.7	OK
1.008	S12	69	107.031	-0.519	0.000	0.04		21.6	OK
3.000	S13	69	110.608	-0.217	0.000	0.01		0.7	OK
3.001	S14	69	109.484	-0.281	0.000	0.01		2.4	OK
3.002	S15	69	108.778	-0.282	0.000	0.01		3.1	OK

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Summary Wizard of 720 minute 1 year Winter I+0% for Surface Water Network

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.009	S16	69	106.838	-0.476	0.000	0.10		25.4	OK
1.010	S17	69	106.722	-0.521	0.000	0.12		25.7	OK
1.011	S18	69	106.676	-0.542	0.000	0.09		25.7	OK
4.000	S38	69	111.615	-0.695	0.000	0.00		2.4	OK
4.001	S39	69	111.167	-0.693	0.000	0.00	0.0	2.3	OK
4.002	S40	69	111.135	-0.695	0.000	0.00	0.0	2.3	OK
4.003	S41	69	110.888	-0.652	0.000	0.00	1.3	1.3	OK
4.004	S42	69	109.144	-0.696	0.000	0.00	0.0	2.2	OK
4.005	S43	69	107.994	-0.656	0.000	0.00	1.1	1.1	OK
1.012	S32	69	106.596	-0.578	0.000	0.05		28.2	OK
5.000	S22	69	111.794	-0.201	0.000	0.02		1.6	OK
5.001	S23	69	111.040	-0.195	0.000	0.04		1.6	OK
5.002	S24	69	110.910	-0.260	0.000	0.04		4.2	OK
5.003	S25	69	110.664	-0.351	0.000	0.01		4.7	OK
5.004	S26	69	109.473	-0.352	0.000	0.01		6.2	OK
5.005	S27	69	106.809	-0.311	0.000	0.07		7.3	OK
5.006	S28	69	106.763	-0.299	0.000	0.09		7.7	OK
5.007	S29	69	106.648	-0.371	0.000	0.06		8.1	OK
5.008	S30	69	106.594	-0.370	0.000	0.06		8.7	OK
5.009	S31	69	106.524	-0.359	0.000	0.07		10.4	OK
1.013	S33	69	106.463	-0.516	0.000	0.11		38.0	OK
1.014	S34	66	106.441	-0.488	0.000	0.09		37.9	OK
1.015	S35	58	106.436	-0.339	0.000	0.05		20.3	OK
1.016	S36	58	106.182	-0.093	0.000	0.64		20.3	OK

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Summary Wizard of 960 minute 1 year Winter I+0% for Surface Water Network

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	0.000
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	5	Number of Time/Area Diagrams	0
Number of Online Controls	3	Number of Storage Structures	2	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.401
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.600	Cv (Winter)	0.840

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

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, 40

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S4	71	113.865	-0.210	0.000	0.01		1.1	OK
1.001	S5	71	112.664	-0.211	0.000	0.01		1.2	OK
1.002	S6	71	111.950	-0.195	0.000	0.04		1.6	OK
1.003	S7	71	111.657	-0.358	0.000	0.01		2.9	OK
2.000	S1	71	113.338	-0.337	0.000	0.02		4.8	OK
2.001	S2	71	112.677	-0.338	0.000	0.02		6.3	OK
2.002	S3	71	111.495	-0.410	0.000	0.02		7.2	OK
1.004	S8	71	111.069	-0.381	0.000	0.06		11.1	OK
1.005	S9	71	110.910	-0.399	0.000	0.03		13.0	OK
1.006	S10	71	110.213	-0.406	0.000	0.02		13.3	OK
1.007	S11	71	108.741	-0.559	0.000	0.01		15.9	OK
1.008	S12	71	107.023	-0.527	0.000	0.04		17.5	OK
3.000	S13	71	110.607	-0.218	0.000	0.01		0.6	OK
3.001	S14	71	109.480	-0.285	0.000	0.01		1.9	OK
3.002	S15	71	108.774	-0.286	0.000	0.01		2.5	OK

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Summary Wizard of 960 minute 1 year Winter I+0% for Surface Water Network

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.009	S16	71	106.824	-0.490	0.000	0.08		20.6	OK
1.010	S17	71	106.708	-0.535	0.000	0.10		20.8	OK
1.011	S18	71	106.659	-0.559	0.000	0.07		20.8	OK
4.000	S38	71	111.614	-0.696	0.000	0.00		1.9	OK
4.001	S39	71	111.165	-0.695	0.000	0.00	0.0	1.9	OK
4.002	S40	71	111.134	-0.696	0.000	0.00	0.0	1.9	OK
4.003	S41	71	110.883	-0.657	0.000	0.00	1.1	1.1	OK
4.004	S42	71	109.143	-0.697	0.000	0.00	0.0	1.8	OK
4.005	S43	71	107.989	-0.661	0.000	0.00	0.9	0.9	OK
1.012	S32	71	106.586	-0.588	0.000	0.04		22.9	OK
5.000	S22	71	111.791	-0.204	0.000	0.02		1.3	OK
5.001	S23	71	111.037	-0.198	0.000	0.04		1.3	OK
5.002	S24	71	110.906	-0.264	0.000	0.03		3.4	OK
5.003	S25	71	110.660	-0.355	0.000	0.01		3.8	OK
5.004	S26	71	109.468	-0.357	0.000	0.01		5.0	OK
5.005	S27	71	106.801	-0.319	0.000	0.06		5.9	OK
5.006	S28	71	106.754	-0.308	0.000	0.07		6.3	OK
5.007	S29	71	106.639	-0.380	0.000	0.05		6.5	OK
5.008	S30	71	106.584	-0.380	0.000	0.05		7.0	OK
5.009	S31	71	106.512	-0.371	0.000	0.06		8.4	OK
1.013	S33	70	106.449	-0.530	0.000	0.09		31.0	OK
1.014	S34	70	106.418	-0.511	0.000	0.07		30.9	OK
1.015	S35	65	106.409	-0.366	0.000	0.05		19.7	OK
1.016	S36	65	106.179	-0.096	0.000	0.63		19.7	OK

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Summary Wizard of 1440 minute 1 year Winter I+0% for Surface Water Network

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	0.000
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	5	Number of Time/Area Diagrams	0
Number of Online Controls	3	Number of Storage Structures	2	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.401
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.600	Cv (Winter)	0.840

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

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, 40

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S4	72	113.861	-0.214	0.000	0.01		0.8	OK
1.001	S5	72	112.661	-0.214	0.000	0.01		0.9	OK
1.002	S6	72	111.946	-0.199	0.000	0.03		1.2	OK
1.003	S7	72	111.653	-0.362	0.000	0.01		2.1	OK
2.000	S1	72	113.328	-0.347	0.000	0.02		3.6	OK
2.001	S2	72	112.667	-0.348	0.000	0.02		4.7	OK
2.002	S3	72	111.485	-0.420	0.000	0.01		5.3	OK
1.004	S8	72	111.059	-0.391	0.000	0.04		8.2	OK
1.005	S9	72	110.905	-0.404	0.000	0.02		9.7	OK
1.006	S10	72	110.201	-0.418	0.000	0.02		9.9	OK
1.007	S11	72	108.730	-0.570	0.000	0.01		11.9	OK
1.008	S12	72	107.015	-0.535	0.000	0.03		13.0	OK
3.000	S13	72	110.605	-0.220	0.000	0.00		0.4	OK
3.001	S14	72	109.477	-0.288	0.000	0.01		1.4	OK
3.002	S15	72	108.771	-0.289	0.000	0.01		1.9	OK

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Summary Wizard of 1440 minute 1 year Winter I+0% for Surface Water Network

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.009	S16	72	106.806	-0.508	0.000	0.06		15.3	OK
1.010	S17	72	106.686	-0.557	0.000	0.07		15.5	OK
1.011	S18	72	106.643	-0.575	0.000	0.05		15.5	OK
4.000	S38	72	111.613	-0.697	0.000	0.00		1.4	OK
4.001	S39	72	111.164	-0.696	0.000	0.00	0.0	1.4	OK
4.002	S40	72	111.133	-0.697	0.000	0.00	0.0	1.4	OK
4.003	S41	72	110.877	-0.663	0.000	0.00	0.8	0.8	OK
4.004	S42	72	109.142	-0.698	0.000	0.00	0.0	1.3	OK
4.005	S43	72	107.984	-0.666	0.000	0.00	0.7	0.7	OK
1.012	S32	72	106.576	-0.598	0.000	0.03		17.0	OK
5.000	S22	72	111.786	-0.209	0.000	0.01		1.0	OK
5.001	S23	72	111.034	-0.201	0.000	0.03		1.0	OK
5.002	S24	72	110.902	-0.268	0.000	0.03		2.5	OK
5.003	S25	72	110.655	-0.360	0.000	0.01		2.8	OK
5.004	S26	72	109.464	-0.361	0.000	0.01		3.7	OK
5.005	S27	72	106.794	-0.326	0.000	0.04		4.4	OK
5.006	S28	72	106.743	-0.319	0.000	0.06		4.7	OK
5.007	S29	72	106.629	-0.390	0.000	0.04		4.9	OK
5.008	S30	72	106.573	-0.391	0.000	0.04		5.2	OK
5.009	S31	72	106.498	-0.385	0.000	0.04		6.3	OK
1.013	S33	72	106.427	-0.552	0.000	0.07		23.1	OK
1.014	S34	72	106.386	-0.543	0.000	0.05		23.1	OK
1.015	S35	68	106.368	-0.407	0.000	0.05		18.3	OK
1.016	S36	68	106.173	-0.102	0.000	0.58		18.3	OK

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Summary Wizard of 15 minute 30 year Winter I+0% for Surface Water Network

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	0.000
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	5	Number of Time/Area Diagrams	0
Number of Online Controls	3	Number of Storage Structures	2	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.401
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.600	Cv (Winter)	0.840

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

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, 40

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S4	6	113.958	-0.117	0.000	0.45		35.2	OK
1.001	S5	6	112.755	-0.120	0.000	0.43		39.4	OK
1.002	S6	6	112.261	0.116	0.000	1.40		50.6	SURCHARGED
1.003	S7	6	111.807	-0.208	0.000	0.31		92.1	OK
2.000	S1	6	113.534	-0.141	0.000	0.69		156.3	OK
2.001	S2	6	112.871	-0.144	0.000	0.68		204.2	OK
2.002	S3	6	111.938	0.033	0.000	0.61		232.1	SURCHARGED
1.004	S8	6	111.763	0.313	0.000	1.82		354.9	SURCHARGED
1.005	S9	6	111.205	-0.104	0.000	0.94		412.6	OK
1.006	S10	6	110.434	-0.185	0.000	0.65		419.5	OK
1.007	S11	6	108.985	-0.315	0.000	0.45		498.8	OK
1.008	S12	7	108.277	0.727	0.000	1.07		519.3	SURCHARGED
3.000	S13	6	110.669	-0.156	0.000	0.20		18.4	OK
3.001	S14	6	109.592	-0.173	0.000	0.37		65.5	OK
3.002	S15	6	108.882	-0.178	0.000	0.34		85.4	OK

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Summary Wizard of 15 minute 30 year Winter I+0% for Surface Water Network

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.009	S16	7	107.998	0.684	0.000	2.27		602.6	SURCHARGED
1.010	S17	7	107.655	0.412	0.000	2.83		607.7	SURCHARGED
1.011	S18	11	107.435	0.217	0.000	2.01		597.4	SURCHARGED
4.000	S38	6	111.702	-0.608	0.000	0.02		61.9	OK
4.001	S39	6	111.267	-0.593	0.000	0.03	5.9	55.6	OK
4.002	S40	7	111.219	-0.611	0.000	0.02	4.5	51.5	OK
4.003	S41	7	111.160	-0.380	0.000	0.00	23.2	23.2	OK
4.004	S42	7	109.214	-0.626	0.000	0.01	3.0	41.7	OK
4.005	S43	7	108.192	-0.458	0.000	0.00	19.1	19.2	OK
1.012	S32	25	107.210	0.036	0.000	1.14		636.0	SURCHARGED
5.000	S22	6	111.902	-0.093	0.000	0.63		41.4	OK
5.001	S23	6	111.299	0.064	0.000	1.20		43.2	SURCHARGED
5.002	S24	6	111.212	0.042	0.000	1.13		111.0	SURCHARGED
5.003	S25	6	110.798	-0.217	0.000	0.36		122.0	OK
5.004	S26	6	109.603	-0.222	0.000	0.34		162.0	OK
5.005	S27	7	107.876	0.756	0.000	1.71		183.6	SURCHARGED
5.006	S28	8	107.674	0.612	0.000	2.25		190.6	SURCHARGED
5.007	S29	8	107.471	0.452	0.000	1.46		191.3	SURCHARGED
5.008	S30	15	107.373	0.409	0.000	1.45		201.7	SURCHARGED
5.009	S31	24	107.231	0.348	0.000	1.51		221.0	SURCHARGED
1.013	S33	25	107.082	0.103	0.000	1.36		466.0	SURCHARGED
1.014	S34	25	106.952	0.023	0.000	1.09		466.1	SURCHARGED
1.015	S35	47	106.563	-0.212	0.000	0.05		21.7	OK
1.016	S36	47	106.188	-0.087	0.000	0.69		21.7	OK

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Summary Wizard of 30 minute 30 year Winter I+0% for Surface Water Network

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	0.000
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	5	Number of Time/Area Diagrams	0
Number of Online Controls	3	Number of Storage Structures	2	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.401
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.600	Cv (Winter)	0.840

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

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, 40

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S4	10	113.943	-0.132	0.000	0.36		27.8	OK
1.001	S5	10	112.741	-0.134	0.000	0.34		31.2	OK
1.002	S6	10	112.159	0.014	0.000	1.09		39.3	SURCHARGED
1.003	S7	10	111.766	-0.249	0.000	0.25		72.3	OK
2.000	S1	10	113.497	-0.178	0.000	0.54		122.8	OK
2.001	S2	10	112.834	-0.181	0.000	0.53		159.5	OK
2.002	S3	10	111.684	-0.221	0.000	0.48		182.0	OK
1.004	S8	10	111.580	0.130	0.000	1.43		278.1	SURCHARGED
1.005	S9	10	111.150	-0.159	0.000	0.74		325.6	OK
1.006	S10	10	110.399	-0.220	0.000	0.51		332.9	OK
1.007	S11	11	108.949	-0.351	0.000	0.36		396.2	OK
1.008	S12	11	107.885	0.335	0.000	0.87		425.7	SURCHARGED
3.000	S13	10	110.659	-0.166	0.000	0.16		14.3	OK
3.001	S14	10	109.573	-0.192	0.000	0.28		49.3	OK
3.002	S15	10	108.864	-0.196	0.000	0.26		64.0	OK

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Summary Wizard of 30 minute 30 year Winter I+0% for Surface Water Network

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.009	S16	11	107.704	0.390	0.000	1.86		493.6	SURCHARGED
1.010	S17	11	107.453	0.210	0.000	2.32		499.9	SURCHARGED
1.011	S18	23	107.306	0.088	0.000	1.67		498.1	SURCHARGED
4.000	S38	10	111.691	-0.619	0.000	0.02		48.4	OK
4.001	S39	10	111.252	-0.608	0.000	0.03	4.9	43.5	OK
4.002	S40	10	111.208	-0.622	0.000	0.01	3.5	40.0	OK
4.003	S41	11	111.107	-0.433	0.000	0.00	20.5	20.5	OK
4.004	S42	11	109.205	-0.635	0.000	0.01	2.3	35.4	OK
4.005	S43	11	108.163	-0.487	0.000	0.00	17.4	17.4	OK
1.012	S32	27	107.181	0.007	0.000	0.92		513.9	SURCHARGED
5.000	S22	10	111.882	-0.113	0.000	0.50		32.8	OK
5.001	S23	10	111.178	-0.057	0.000	0.91		32.7	OK
5.002	S24	10	111.091	-0.079	0.000	0.88		87.3	OK
5.003	S25	10	110.776	-0.239	0.000	0.28		96.6	OK
5.004	S26	10	109.581	-0.244	0.000	0.26		127.4	OK
5.005	S27	11	107.581	0.461	0.000	1.34		143.3	SURCHARGED
5.006	S28	11	107.460	0.398	0.000	1.77		149.8	SURCHARGED
5.007	S29	18	107.345	0.326	0.000	1.17		153.5	SURCHARGED
5.008	S30	24	107.282	0.318	0.000	1.16		161.9	SURCHARGED
5.009	S31	26	107.193	0.310	0.000	1.28		186.5	SURCHARGED
1.013	S33	26	107.077	0.098	0.000	1.36		467.1	SURCHARGED
1.014	S34	26	106.946	0.017	0.000	1.09		466.0	SURCHARGED
1.015	S35	45	106.668	-0.107	0.000	0.05		21.9	OK
1.016	S36	45	106.188	-0.087	0.000	0.69		21.9	OK

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Summary Wizard of 60 minute 30 year Winter I+0% for Surface Water Network

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	0.000
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	5	Number of Time/Area Diagrams	0
Number of Online Controls	3	Number of Storage Structures	2	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.401
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.600	Cv (Winter)	0.840

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

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, 40

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S4	15	113.924	-0.151	0.000	0.24		18.5	OK
1.001	S5	15	112.722	-0.153	0.000	0.23		20.7	OK
1.002	S6	15	112.063	-0.082	0.000	0.73		26.2	OK
1.003	S7	15	111.741	-0.274	0.000	0.16		48.2	OK
2.000	S1	15	113.455	-0.220	0.000	0.36		81.5	OK
2.001	S2	15	112.793	-0.222	0.000	0.35		105.8	OK
2.002	S3	15	111.629	-0.276	0.000	0.32		120.9	OK
1.004	S8	15	111.348	-0.102	0.000	0.96		186.3	OK
1.005	S9	15	111.083	-0.226	0.000	0.50		218.4	OK
1.006	S10	15	110.351	-0.268	0.000	0.34		222.8	OK
1.007	S11	15	108.899	-0.401	0.000	0.24		266.9	OK
1.008	S12	19	107.435	-0.115	0.000	0.60		292.3	OK
3.000	S13	15	110.648	-0.177	0.000	0.10		9.5	OK
3.001	S14	15	109.552	-0.213	0.000	0.18		32.4	OK
3.002	S15	15	108.843	-0.217	0.000	0.17		42.1	OK

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Summary Wizard of 60 minute 30 year Winter I+0% for Surface Water Network

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.009	S16	22	107.378	0.064	0.000	1.29		343.3	SURCHARGED
1.010	S17	29	107.259	0.016	0.000	1.61		347.0	SURCHARGED
1.011	S18	30	107.218	0.000	0.000	1.16		346.6	OK
4.000	S38	15	111.675	-0.635	0.000	0.01		32.1	OK
4.001	S39	15	111.236	-0.624	0.000	0.02	3.3	28.9	OK
4.002	S40	15	111.190	-0.640	0.000	0.01	2.0	26.8	OK
4.003	S41	15	111.035	-0.505	0.000	0.00	15.4	15.4	OK
4.004	S42	15	109.188	-0.652	0.000	0.01	1.3	26.2	OK
4.005	S43	15	108.125	-0.525	0.000	0.00	13.1	13.1	OK
1.012	S32	30	107.025	-0.149	0.000	0.66		370.2	OK
5.000	S22	15	111.859	-0.136	0.000	0.33		21.8	OK
5.001	S23	15	111.136	-0.099	0.000	0.61		21.7	OK
5.002	S24	15	111.035	-0.135	0.000	0.59		57.8	OK
5.003	S25	15	110.749	-0.266	0.000	0.19		63.8	OK
5.004	S26	15	109.555	-0.270	0.000	0.17		84.1	OK
5.005	S27	30	107.195	0.075	0.000	0.92		98.6	SURCHARGED
5.006	S28	30	107.166	0.104	0.000	1.23		103.9	SURCHARGED
5.007	S29	30	107.125	0.106	0.000	0.81		105.9	SURCHARGED
5.008	S30	30	107.091	0.127	0.000	0.79		110.5	SURCHARGED
5.009	S31	30	107.051	0.168	0.000	0.89		130.0	SURCHARGED
1.013	S33	30	106.979	0.000	0.000	1.22		419.9	SURCHARGED
1.014	S34	38	106.801	-0.128	0.000	0.97		414.2	OK
1.015	S35	40	106.761	-0.014	0.000	0.05		21.9	OK
1.016	S36	35	106.188	-0.087	0.000	0.69		21.9	OK

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Summary Wizard of 120 minute 30 year Winter I+0% for Surface Water Network

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	0.000
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	5	Number of Time/Area Diagrams	0
Number of Online Controls	3	Number of Storage Structures	2	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.401
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.600	Cv (Winter)	0.840

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

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, 40

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S4	25	113.907	-0.168	0.000	0.15		11.4	OK
1.001	S5	25	112.706	-0.169	0.000	0.14		12.8	OK
1.002	S6	25	112.025	-0.120	0.000	0.45		16.2	OK
1.003	S7	25	111.719	-0.296	0.000	0.10		29.8	OK
2.000	S1	25	113.419	-0.256	0.000	0.22		50.3	OK
2.001	S2	25	112.758	-0.257	0.000	0.22		65.3	OK
2.002	S3	25	111.590	-0.315	0.000	0.20		74.6	OK
1.004	S8	25	111.249	-0.201	0.000	0.59		115.2	OK
1.005	S9	25	111.029	-0.280	0.000	0.31		135.1	OK
1.006	S10	25	110.309	-0.310	0.000	0.21		137.9	OK
1.007	S11	25	108.854	-0.446	0.000	0.15		165.4	OK
1.008	S12	34	107.218	-0.332	0.000	0.37		181.1	OK
3.000	S13	25	110.637	-0.188	0.000	0.06		5.9	OK
3.001	S14	25	109.532	-0.233	0.000	0.11		20.0	OK
3.002	S15	24	108.825	-0.235	0.000	0.10		26.0	OK

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Summary Wizard of 120 minute 30 year Winter I+0% for Surface Water Network

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.009	S16	34	107.174	-0.140	0.000	0.80		212.9	OK
1.010	S17	34	107.097	-0.146	0.000	1.00		215.3	OK
1.011	S18	34	106.970	-0.248	0.000	0.72		215.2	OK
4.000	S38	25	111.650	-0.660	0.000	0.01		19.8	OK
4.001	S39	26	111.212	-0.648	0.000	0.01	1.6	18.3	OK
4.002	S40	25	111.169	-0.661	0.000	0.01	0.9	17.4	OK
4.003	S41	24	110.987	-0.553	0.000	0.00	10.0	10.0	OK
4.004	S42	23	109.171	-0.669	0.000	0.00	0.6	17.0	OK
4.005	S43	22	108.083	-0.567	0.000	0.00	8.5	8.5	OK
1.012	S32	37	106.847	-0.327	0.000	0.42		233.9	OK
5.000	S22	25	111.839	-0.156	0.000	0.20		13.4	OK
5.001	S23	25	111.105	-0.130	0.000	0.37		13.4	OK
5.002	S24	25	110.994	-0.176	0.000	0.36		35.6	OK
5.003	S25	25	110.724	-0.291	0.000	0.12		39.4	OK
5.004	S26	24	109.532	-0.293	0.000	0.11		51.9	OK
5.005	S27	35	106.961	-0.159	0.000	0.57		61.4	OK
5.006	S28	35	106.935	-0.127	0.000	0.77		65.2	OK
5.007	S29	33	106.891	-0.128	0.000	0.51		67.2	OK
5.008	S30	36	106.866	-0.098	0.000	0.51		71.2	OK
5.009	S31	37	106.849	-0.034	0.000	0.57		83.3	OK
1.013	S33	37	106.843	-0.136	0.000	0.87		299.5	OK
1.014	S34	35	106.838	-0.091	0.000	0.70		299.4	OK
1.015	S35	28	106.834	0.059	0.000	0.05		21.9	SURCHARGED
1.016	S36	32	106.188	-0.087	0.000	0.69		21.9	OK

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Summary Wizard of 180 minute 30 year Winter I+0% for Surface Water Network

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	0.000
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	5	Number of Time/Area Diagrams	0
Number of Online Controls	3	Number of Storage Structures	2	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.401
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.600	Cv (Winter)	0.840

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

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, 40

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S4	31	113.899	-0.176	0.000	0.11		8.5	OK
1.001	S5	31	112.698	-0.177	0.000	0.10		9.5	OK
1.002	S6	31	112.009	-0.136	0.000	0.33		12.0	OK
1.003	S7	31	111.707	-0.308	0.000	0.07		22.1	OK
2.000	S1	31	113.401	-0.274	0.000	0.17		37.3	OK
2.001	S2	31	112.740	-0.275	0.000	0.16		48.4	OK
2.002	S3	31	111.569	-0.336	0.000	0.15		55.3	OK
1.004	S8	31	111.208	-0.242	0.000	0.44		85.4	OK
1.005	S9	31	111.004	-0.305	0.000	0.23		100.2	OK
1.006	S10	31	110.288	-0.331	0.000	0.16		102.2	OK
1.007	S11	31	108.832	-0.468	0.000	0.11		122.7	OK
1.008	S12	40	107.164	-0.386	0.000	0.28		134.4	OK
3.000	S13	31	110.631	-0.194	0.000	0.05		4.3	OK
3.001	S14	31	109.523	-0.242	0.000	0.08		14.8	OK
3.002	S15	31	108.815	-0.245	0.000	0.08		19.2	OK

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Summary Wizard of 180 minute 30 year Winter I+0% for Surface Water Network

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.009	S16	40	107.082	-0.232	0.000	0.60		158.1	OK
1.010	S17	40	107.003	-0.240	0.000	0.74		159.9	OK
1.011	S18	40	106.895	-0.323	0.000	0.54		159.8	OK
4.000	S38	31	111.640	-0.670	0.000	0.00		14.7	OK
4.001	S39	31	111.200	-0.660	0.000	0.01	0.9	13.8	OK
4.002	S40	31	111.160	-0.670	0.000	0.00	0.5	13.3	OK
4.003	S41	31	110.965	-0.575	0.000	0.00	7.6	7.6	OK
4.004	S42	31	109.163	-0.677	0.000	0.00	0.3	12.9	OK
4.005	S43	31	108.062	-0.588	0.000	0.00	6.5	6.5	OK
1.012	S32	34	106.876	-0.298	0.000	0.31		174.6	OK
5.000	S22	31	111.828	-0.167	0.000	0.15		10.0	OK
5.001	S23	31	111.090	-0.145	0.000	0.28		10.0	OK
5.002	S24	31	110.975	-0.195	0.000	0.27		26.4	OK
5.003	S25	31	110.713	-0.302	0.000	0.09		29.2	OK
5.004	S26	31	109.520	-0.305	0.000	0.08		38.4	OK
5.005	S27	40	106.919	-0.201	0.000	0.42		45.5	OK
5.006	S28	42	106.890	-0.172	0.000	0.57		48.3	OK
5.007	S29	35	106.885	-0.134	0.000	0.38		50.1	OK
5.008	S30	34	106.882	-0.082	0.000	0.39		53.6	OK
5.009	S31	34	106.879	-0.004	0.000	0.43		63.3	OK
1.013	S33	33	106.873	-0.106	0.000	0.68		232.0	OK
1.014	S34	32	106.868	-0.061	0.000	0.54		229.9	OK
1.015	S35	25	106.863	0.088	0.000	0.05		21.9	SURCHARGED
1.016	S36	27	106.188	-0.087	0.000	0.69		21.9	OK

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Summary Wizard of 240 minute 30 year Winter I+0% for Surface Water Network

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	0.000
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	5	Number of Time/Area Diagrams	0
Number of Online Controls	3	Number of Storage Structures	2	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.401
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.600	Cv (Winter)	0.840

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

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, 40

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S4	37	113.895	-0.180	0.000	0.09		6.8	OK
1.001	S5	37	112.693	-0.182	0.000	0.08		7.6	OK
1.002	S6	37	111.999	-0.146	0.000	0.27		9.7	OK
1.003	S7	37	111.699	-0.316	0.000	0.06		17.7	OK
2.000	S1	37	113.390	-0.285	0.000	0.13		30.0	OK
2.001	S2	37	112.729	-0.286	0.000	0.13		38.9	OK
2.002	S3	37	111.557	-0.348	0.000	0.12		44.4	OK
1.004	S8	37	111.184	-0.266	0.000	0.35		68.6	OK
1.005	S9	37	110.988	-0.321	0.000	0.18		80.6	OK
1.006	S10	37	110.275	-0.344	0.000	0.13		82.2	OK
1.007	S11	37	108.820	-0.480	0.000	0.09		98.6	OK
1.008	S12	43	107.141	-0.409	0.000	0.22		108.1	OK
3.000	S13	37	110.628	-0.197	0.000	0.04		3.5	OK
3.001	S14	37	109.516	-0.249	0.000	0.07		11.9	OK
3.002	S15	37	108.808	-0.252	0.000	0.06		15.5	OK

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Summary Wizard of 240 minute 30 year Winter I+0% for Surface Water Network

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.009	S16	43	107.028	-0.286	0.000	0.48		127.1	OK
1.010	S17	43	106.944	-0.299	0.000	0.60		128.6	OK
1.011	S18	41	106.889	-0.329	0.000	0.43		128.6	OK
4.000	S38	37	111.634	-0.676	0.000	0.00		11.8	OK
4.001	S39	37	111.192	-0.668	0.000	0.01	0.6	11.2	OK
4.002	S40	37	111.154	-0.676	0.000	0.00	0.4	10.9	OK
4.003	S41	37	110.949	-0.591	0.000	0.00	6.2	6.2	OK
4.004	S42	37	109.159	-0.681	0.000	0.00	0.2	10.5	OK
4.005	S43	37	108.047	-0.603	0.000	0.00	5.3	5.3	OK
1.012	S32	31	106.887	-0.287	0.000	0.25		141.0	OK
5.000	S22	37	111.822	-0.173	0.000	0.12		8.0	OK
5.001	S23	37	111.082	-0.153	0.000	0.22		8.0	OK
5.002	S24	37	110.964	-0.206	0.000	0.22		21.2	OK
5.003	S25	37	110.704	-0.311	0.000	0.07		23.5	OK
5.004	S26	37	109.511	-0.314	0.000	0.06		30.9	OK
5.005	S27	42	106.898	-0.222	0.000	0.34		36.6	OK
5.006	S28	39	106.896	-0.166	0.000	0.46		38.8	OK
5.007	S29	32	106.893	-0.126	0.000	0.31		40.3	OK
5.008	S30	32	106.891	-0.073	0.000	0.31		43.3	OK
5.009	S31	32	106.888	0.005	0.000	0.35		51.3	SURCHARGED
1.013	S33	31	106.884	-0.095	0.000	0.52		179.9	OK
1.014	S34	30	106.880	-0.049	0.000	0.42		178.7	OK
1.015	S35	23	106.874	0.099	0.000	0.05		21.9	SURCHARGED
1.016	S36	11	106.188	-0.087	0.000	0.69		21.9	OK

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Summary Wizard of 360 minute 30 year Winter I+0% for Surface Water Network

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	0.000
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	5	Number of Time/Area Diagrams	0
Number of Online Controls	3	Number of Storage Structures	2	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.401
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.600	Cv (Winter)	0.840

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

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, 40

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S4	44	113.887	-0.188	0.000	0.06		5.0	OK
1.001	S5	43	112.686	-0.189	0.000	0.06		5.6	OK
1.002	S6	43	111.987	-0.158	0.000	0.20		7.1	OK
1.003	S7	43	111.690	-0.325	0.000	0.04		13.0	OK
2.000	S1	44	113.378	-0.297	0.000	0.10		21.9	OK
2.001	S2	43	112.717	-0.298	0.000	0.09		28.5	OK
2.002	S3	43	111.543	-0.362	0.000	0.09		32.5	OK
1.004	S8	43	111.154	-0.296	0.000	0.26		50.2	OK
1.005	S9	43	110.968	-0.341	0.000	0.13		58.9	OK
1.006	S10	43	110.261	-0.358	0.000	0.09		60.2	OK
1.007	S11	43	108.799	-0.501	0.000	0.07		72.2	OK
1.008	S12	46	107.111	-0.439	0.000	0.16		79.1	OK
3.000	S13	44	110.625	-0.200	0.000	0.03		2.6	OK
3.001	S14	43	109.508	-0.257	0.000	0.05		8.7	OK
3.002	S15	43	108.801	-0.259	0.000	0.05		11.3	OK

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Summary Wizard of 360 minute 30 year Winter I+0% for Surface Water Network

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.009	S16	46	106.970	-0.344	0.000	0.35		93.1	OK
1.010	S17	46	106.888	-0.355	0.000	0.44		94.2	OK
1.011	S18	42	106.886	-0.332	0.000	0.32		94.2	OK
4.000	S38	44	111.627	-0.683	0.000	0.00		8.6	OK
4.001	S39	44	111.184	-0.676	0.000	0.01	0.3	8.3	OK
4.002	S40	44	111.148	-0.682	0.000	0.00	0.2	8.1	OK
4.003	S41	43	110.929	-0.611	0.000	0.00	4.6	4.6	OK
4.004	S42	43	109.154	-0.686	0.000	0.00	0.1	7.8	OK
4.005	S43	43	108.032	-0.618	0.000	0.00	3.9	3.9	OK
1.012	S32	32	106.883	-0.291	0.000	0.18		102.9	OK
5.000	S22	44	111.815	-0.180	0.000	0.09		5.9	OK
5.001	S23	43	111.070	-0.165	0.000	0.16		5.9	OK
5.002	S24	43	110.949	-0.221	0.000	0.16		15.5	OK
5.003	S25	43	110.694	-0.321	0.000	0.05		17.2	OK
5.004	S26	43	109.502	-0.323	0.000	0.05		22.6	OK
5.005	S27	44	106.893	-0.227	0.000	0.25		26.7	OK
5.006	S28	41	106.891	-0.171	0.000	0.34		28.4	OK
5.007	S29	34	106.889	-0.130	0.000	0.22		29.5	OK
5.008	S30	33	106.887	-0.077	0.000	0.23		31.6	OK
5.009	S31	33	106.884	0.001	0.000	0.25		37.2	SURCHARGED
1.013	S33	32	106.881	-0.098	0.000	0.36		123.6	OK
1.014	S34	31	106.878	-0.051	0.000	0.29		122.5	OK
1.015	S35	24	106.873	0.098	0.000	0.05		21.9	SURCHARGED
1.016	S36	13	106.188	-0.087	0.000	0.69		21.9	OK

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Summary Wizard of 480 minute 30 year Winter I+0% for Surface Water Network

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	0.000
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	5	Number of Time/Area Diagrams	0
Number of Online Controls	3	Number of Storage Structures	2	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.401
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.600	Cv (Winter)	0.840

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

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, 40

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S4	51	113.883	-0.192	0.000	0.05		4.0	OK
1.001	S5	51	112.682	-0.193	0.000	0.05		4.5	OK
1.002	S6	51	111.979	-0.166	0.000	0.16		5.7	OK
1.003	S7	51	111.685	-0.330	0.000	0.04		10.4	OK
2.000	S1	51	113.369	-0.306	0.000	0.08		17.6	OK
2.001	S2	51	112.708	-0.307	0.000	0.08		22.8	OK
2.002	S3	51	111.532	-0.373	0.000	0.07		26.0	OK
1.004	S8	51	111.138	-0.312	0.000	0.21		40.2	OK
1.005	S9	51	110.957	-0.352	0.000	0.11		47.2	OK
1.006	S10	51	110.250	-0.369	0.000	0.07		48.1	OK
1.007	S11	51	108.788	-0.512	0.000	0.05		57.8	OK
1.008	S12	52	107.093	-0.457	0.000	0.13		63.3	OK
3.000	S13	51	110.623	-0.202	0.000	0.02		2.0	OK
3.001	S14	51	109.503	-0.262	0.000	0.04		7.0	OK
3.002	S15	51	108.797	-0.263	0.000	0.04		9.0	OK

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Summary Wizard of 480 minute 30 year Winter I+0% for Surface Water Network

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.009	S16	52	106.937	-0.377	0.000	0.28		74.5	OK
1.010	S17	47	106.876	-0.367	0.000	0.35		75.4	OK
1.011	S18	43	106.874	-0.344	0.000	0.25		75.4	OK
4.000	S38	51	111.624	-0.686	0.000	0.00		6.9	OK
4.001	S39	51	111.179	-0.681	0.000	0.00	0.2	6.7	OK
4.002	S40	51	111.145	-0.685	0.000	0.00	0.2	6.5	OK
4.003	S41	51	110.920	-0.620	0.000	0.00	3.7	3.7	OK
4.004	S42	51	109.151	-0.689	0.000	0.00	0.1	6.3	OK
4.005	S43	51	108.024	-0.626	0.000	0.00	3.2	3.2	OK
1.012	S32	35	106.871	-0.303	0.000	0.15		82.4	OK
5.000	S22	51	111.809	-0.186	0.000	0.07		4.7	OK
5.001	S23	51	111.064	-0.171	0.000	0.13		4.7	OK
5.002	S24	51	110.940	-0.230	0.000	0.13		12.4	OK
5.003	S25	51	110.688	-0.327	0.000	0.04		13.7	OK
5.004	S26	51	109.497	-0.328	0.000	0.04		18.1	OK
5.005	S27	46	106.882	-0.238	0.000	0.20		21.4	OK
5.006	S28	43	106.880	-0.182	0.000	0.27		22.7	OK
5.007	S29	36	106.877	-0.142	0.000	0.18		23.6	OK
5.008	S30	35	106.875	-0.089	0.000	0.18		25.3	OK
5.009	S31	35	106.872	-0.011	0.000	0.20		29.7	OK
1.013	S33	34	106.869	-0.110	0.000	0.29		98.1	OK
1.014	S34	33	106.865	-0.064	0.000	0.23		97.2	OK
1.015	S35	26	106.862	0.087	0.000	0.05		21.9	SURCHARGED
1.016	S36	17	106.188	-0.087	0.000	0.69		21.9	OK

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Summary Wizard of 600 minute 30 year Winter I+0% for Surface Water Network

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	0.000
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	5	Number of Time/Area Diagrams	0
Number of Online Controls	3	Number of Storage Structures	2	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.401
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.600	Cv (Winter)	0.840

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

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, 40

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S4	53	113.880	-0.195	0.000	0.04		3.3	OK
1.001	S5	53	112.679	-0.196	0.000	0.04		3.8	OK
1.002	S6	53	111.974	-0.171	0.000	0.13		4.8	OK
1.003	S7	53	111.682	-0.333	0.000	0.03		8.7	OK
2.000	S1	53	113.362	-0.313	0.000	0.07		14.8	OK
2.001	S2	53	112.701	-0.314	0.000	0.06		19.1	OK
2.002	S3	53	111.524	-0.381	0.000	0.06		21.9	OK
1.004	S8	53	111.125	-0.325	0.000	0.17		33.8	OK
1.005	S9	53	110.950	-0.359	0.000	0.09		39.6	OK
1.006	S10	53	110.242	-0.377	0.000	0.06		40.5	OK
1.007	S11	53	108.780	-0.520	0.000	0.04		48.6	OK
1.008	S12	54	107.082	-0.468	0.000	0.11		53.2	OK
3.000	S13	53	110.620	-0.205	0.000	0.02		1.7	OK
3.001	S14	53	109.500	-0.265	0.000	0.03		5.8	OK
3.002	S15	53	108.794	-0.266	0.000	0.03		7.6	OK

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Summary Wizard of 600 minute 30 year Winter I+0% for Surface Water Network

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.009	S16	54	106.915	-0.399	0.000	0.24		62.6	OK
1.010	S17	51	106.863	-0.380	0.000	0.29		63.4	OK
1.011	S18	45	106.861	-0.357	0.000	0.21		63.4	OK
4.000	S38	53	111.622	-0.688	0.000	0.00		5.8	OK
4.001	S39	53	111.176	-0.684	0.000	0.00	0.2	5.6	OK
4.002	S40	53	111.142	-0.688	0.000	0.00	0.1	5.5	OK
4.003	S41	53	110.914	-0.626	0.000	0.00	3.2	3.2	OK
4.004	S42	53	109.150	-0.690	0.000	0.00	0.1	5.3	OK
4.005	S43	53	108.020	-0.630	0.000	0.00	2.7	2.7	OK
1.012	S32	36	106.858	-0.316	0.000	0.12		69.3	OK
5.000	S22	53	111.805	-0.190	0.000	0.06		3.9	OK
5.001	S23	53	111.059	-0.176	0.000	0.11		3.9	OK
5.002	S24	53	110.935	-0.235	0.000	0.11		10.4	OK
5.003	S25	53	110.685	-0.330	0.000	0.03		11.5	OK
5.004	S26	53	109.493	-0.332	0.000	0.03		15.2	OK
5.005	S27	50	106.868	-0.252	0.000	0.17		18.0	OK
5.006	S28	45	106.867	-0.195	0.000	0.23		19.1	OK
5.007	S29	38	106.864	-0.155	0.000	0.15		19.8	OK
5.008	S30	37	106.862	-0.102	0.000	0.15		21.2	OK
5.009	S31	36	106.859	-0.024	0.000	0.17		24.9	OK
1.013	S33	35	106.856	-0.123	0.000	0.24		82.1	OK
1.014	S34	34	106.853	-0.076	0.000	0.19		81.3	OK
1.015	S35	27	106.849	0.074	0.000	0.05		21.9	SURCHARGED
1.016	S36	16	106.188	-0.087	0.000	0.69		21.9	OK

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Summary Wizard of 720 minute 30 year Winter I+0% for Surface Water Network

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	0.000
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	5	Number of Time/Area Diagrams	0
Number of Online Controls	3	Number of Storage Structures	2	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.401
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.600	Cv (Winter)	0.840

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

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, 40

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S4	58	113.878	-0.197	0.000	0.04		2.9	OK
1.001	S5	58	112.677	-0.198	0.000	0.04		3.3	OK
1.002	S6	58	111.970	-0.175	0.000	0.11		4.1	OK
1.003	S7	58	111.680	-0.335	0.000	0.03		7.6	OK
2.000	S1	58	113.357	-0.318	0.000	0.06		12.8	OK
2.001	S2	58	112.696	-0.319	0.000	0.05		16.6	OK
2.002	S3	58	111.519	-0.386	0.000	0.05		19.0	OK
1.004	S8	58	111.116	-0.334	0.000	0.15		29.3	OK
1.005	S9	58	110.942	-0.367	0.000	0.08		34.4	OK
1.006	S10	58	110.236	-0.383	0.000	0.05		35.1	OK
1.007	S11	58	108.775	-0.525	0.000	0.04		42.1	OK
1.008	S12	58	107.074	-0.476	0.000	0.09		46.2	OK
3.000	S13	58	110.618	-0.207	0.000	0.02		1.5	OK
3.001	S14	58	109.498	-0.267	0.000	0.03		5.1	OK
3.002	S15	58	108.792	-0.268	0.000	0.03		6.6	OK

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Summary Wizard of 720 minute 30 year Winter I+0% for Surface Water Network

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.009	S16	58	106.900	-0.414	0.000	0.20		54.3	OK
1.010	S17	52	106.847	-0.396	0.000	0.26		55.0	OK
1.011	S18	47	106.845	-0.373	0.000	0.18		55.0	OK
4.000	S38	58	111.620	-0.690	0.000	0.00		5.0	OK
4.001	S39	58	111.174	-0.686	0.000	0.00	0.1	4.9	OK
4.002	S40	58	111.141	-0.689	0.000	0.00	0.1	4.8	OK
4.003	S41	58	110.911	-0.629	0.000	0.00	2.8	2.8	OK
4.004	S42	58	109.148	-0.692	0.000	0.00	0.0	4.7	OK
4.005	S43	58	108.015	-0.635	0.000	0.00	2.3	2.3	OK
1.012	S32	38	106.842	-0.332	0.000	0.11		60.2	OK
5.000	S22	58	111.803	-0.192	0.000	0.05		3.4	OK
5.001	S23	58	111.056	-0.179	0.000	0.10		3.4	OK
5.002	S24	58	110.931	-0.239	0.000	0.09		9.1	OK
5.003	S25	58	110.682	-0.333	0.000	0.03		10.0	OK
5.004	S26	58	109.491	-0.334	0.000	0.03		13.2	OK
5.005	S27	55	106.852	-0.268	0.000	0.15		15.6	OK
5.006	S28	48	106.850	-0.212	0.000	0.20		16.6	OK
5.007	S29	39	106.848	-0.171	0.000	0.13		17.2	OK
5.008	S30	38	106.846	-0.118	0.000	0.13		18.4	OK
5.009	S31	38	106.844	-0.039	0.000	0.15		21.7	OK
1.013	S33	38	106.840	-0.139	0.000	0.21		71.2	OK
1.014	S34	36	106.837	-0.092	0.000	0.16		70.6	OK
1.015	S35	29	106.834	0.059	0.000	0.05		21.9	SURCHARGED
1.016	S36	21	106.188	-0.087	0.000	0.69		21.9	OK

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Summary Wizard of 960 minute 30 year Winter I+0% for Surface Water Network

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	0.000
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	5	Number of Time/Area Diagrams	0
Number of Online Controls	3	Number of Storage Structures	2	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.401
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.600	Cv (Winter)	0.840

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

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, 40

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S4	61	113.875	-0.200	0.000	0.03		2.3	OK
1.001	S5	61	112.675	-0.200	0.000	0.03		2.6	OK
1.002	S6	61	111.966	-0.179	0.000	0.09		3.3	OK
1.003	S7	61	111.676	-0.339	0.000	0.02		6.0	OK
2.000	S1	61	113.351	-0.324	0.000	0.05		10.2	OK
2.001	S2	61	112.690	-0.325	0.000	0.04		13.3	OK
2.002	S3	61	111.512	-0.393	0.000	0.04		15.1	OK
1.004	S8	61	111.103	-0.347	0.000	0.12		23.4	OK
1.005	S9	61	110.932	-0.377	0.000	0.06		27.5	OK
1.006	S10	61	110.229	-0.390	0.000	0.04		28.0	OK
1.007	S11	61	108.768	-0.532	0.000	0.03		33.6	OK
1.008	S12	61	107.059	-0.491	0.000	0.08		36.9	OK
3.000	S13	61	110.614	-0.211	0.000	0.01		1.2	OK
3.001	S14	61	109.496	-0.269	0.000	0.02		4.1	OK
3.002	S15	61	108.790	-0.270	0.000	0.02		5.3	OK

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Summary Wizard of 960 minute 30 year Winter I+0% for Surface Water Network

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.009	S16	61	106.877	-0.437	0.000	0.16		43.4	OK
1.010	S17	57	106.810	-0.433	0.000	0.20		43.9	OK
1.011	S18	50	106.808	-0.410	0.000	0.15		43.9	OK
4.000	S38	61	111.618	-0.692	0.000	0.00		4.0	OK
4.001	S39	61	111.171	-0.689	0.000	0.00	0.1	3.9	OK
4.002	S40	61	111.139	-0.691	0.000	0.00	0.0	3.9	OK
4.003	S41	61	110.903	-0.637	0.000	0.00	2.2	2.2	OK
4.004	S42	61	109.147	-0.693	0.000	0.00	0.0	3.7	OK
4.005	S43	61	108.007	-0.643	0.000	0.00	1.9	1.9	OK
1.012	S32	43	106.805	-0.369	0.000	0.09		48.1	OK
5.000	S22	61	111.799	-0.196	0.000	0.04		2.7	OK
5.001	S23	61	111.051	-0.184	0.000	0.08		2.7	OK
5.002	S24	61	110.923	-0.247	0.000	0.07		7.2	OK
5.003	S25	61	110.679	-0.336	0.000	0.02		8.0	OK
5.004	S26	61	109.488	-0.337	0.000	0.02		10.5	OK
5.005	S27	61	106.830	-0.290	0.000	0.12		12.5	OK
5.006	S28	55	106.813	-0.249	0.000	0.16		13.2	OK
5.007	S29	44	106.811	-0.208	0.000	0.10		13.8	OK
5.008	S30	42	106.809	-0.155	0.000	0.11		14.7	OK
5.009	S31	42	106.806	-0.077	0.000	0.12		17.4	OK
1.013	S33	41	106.803	-0.176	0.000	0.17		57.8	OK
1.014	S34	40	106.800	-0.129	0.000	0.13		57.4	OK
1.015	S35	33	106.796	0.021	0.000	0.05		21.9	SURCHARGED
1.016	S36	4	106.188	-0.087	0.000	0.69		21.9	OK

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Summary Wizard of 1440 minute 30 year Winter I+0% for Surface Water Network

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	0.000
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	5	Number of Time/Area Diagrams	0
Number of Online Controls	3	Number of Storage Structures	2	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.401
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.600	Cv (Winter)	0.840

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

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, 40

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S4	66	113.873	-0.202	0.000	0.02		1.7	OK
1.001	S5	66	112.672	-0.203	0.000	0.02		1.9	OK
1.002	S6	66	111.958	-0.187	0.000	0.07		2.4	OK
1.003	S7	66	111.667	-0.348	0.000	0.01		4.4	OK
2.000	S1	66	113.344	-0.331	0.000	0.03		7.4	OK
2.001	S2	66	112.683	-0.332	0.000	0.03		9.6	OK
2.002	S3	66	111.505	-0.400	0.000	0.03		11.0	OK
1.004	S8	66	111.089	-0.361	0.000	0.09		17.0	OK
1.005	S9	66	110.920	-0.389	0.000	0.05		20.0	OK
1.006	S10	66	110.221	-0.398	0.000	0.03		20.4	OK
1.007	S11	66	108.761	-0.539	0.000	0.02		24.5	OK
1.008	S12	66	107.040	-0.510	0.000	0.06		26.8	OK
3.000	S13	66	110.610	-0.215	0.000	0.01		0.9	OK
3.001	S14	66	109.489	-0.276	0.000	0.02		2.9	OK
3.002	S15	66	108.782	-0.278	0.000	0.02		3.8	OK

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Summary Wizard of 1440 minute 30 year Winter I+0% for Surface Water Network

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.009	S16	66	106.851	-0.463	0.000	0.12		31.6	OK
1.010	S17	66	106.741	-0.502	0.000	0.15		31.9	OK
1.011	S18	60	106.729	-0.489	0.000	0.11		31.9	OK
4.000	S38	66	111.616	-0.694	0.000	0.00		2.9	OK
4.001	S39	66	111.168	-0.692	0.000	0.00	0.0	2.9	OK
4.002	S40	66	111.136	-0.694	0.000	0.00	0.0	2.9	OK
4.003	S41	66	110.893	-0.647	0.000	0.00	1.6	1.6	OK
4.004	S42	66	109.145	-0.695	0.000	0.00	0.0	2.7	OK
4.005	S43	66	107.999	-0.651	0.000	0.00	1.4	1.4	OK
1.012	S32	53	106.723	-0.451	0.000	0.06		35.0	OK
5.000	S22	66	111.795	-0.200	0.000	0.03		2.0	OK
5.001	S23	66	111.044	-0.191	0.000	0.06		2.0	OK
5.002	S24	66	110.914	-0.256	0.000	0.05		5.3	OK
5.003	S25	66	110.670	-0.345	0.000	0.02		5.8	OK
5.004	S26	66	109.478	-0.347	0.000	0.02		7.7	OK
5.005	S27	66	106.818	-0.302	0.000	0.08		9.1	OK
5.006	S28	66	106.771	-0.291	0.000	0.11		9.6	OK
5.007	S29	54	106.728	-0.291	0.000	0.08		10.0	OK
5.008	S30	53	106.726	-0.238	0.000	0.08		10.8	OK
5.009	S31	49	106.724	-0.159	0.000	0.09		12.8	OK
1.013	S33	47	106.720	-0.259	0.000	0.13		43.5	OK
1.014	S34	47	106.717	-0.212	0.000	0.10		43.2	OK
1.015	S35	42	106.714	-0.061	0.000	0.05		21.9	OK
1.016	S36	2	106.188	-0.087	0.000	0.69		21.9	OK

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Summary Wizard of 15 minute 100 year Winter I+40% for Surface Water Network

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	0.000
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	5	Number of Time/Area Diagrams	0
Number of Online Controls	3	Number of Storage Structures	2	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.401
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.600	Cv (Winter)	0.840

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

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, 40

WARNING: The analysis maybe unstable. Please see the method of analysis help for more details.

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S4	1	114.451	0.376	0.000	0.79		61.0	SURCHARGED
1.001	S5	1	113.754	0.879	0.000	0.69		63.0	FLOOD RISK
1.002	S6	1	113.402	1.257	2.013	2.04		73.9	FLOOD
1.003	S7	1	113.058	1.043	0.545	0.42		123.2	FLOOD
2.000	S1	1	115.057	1.382	2.496	1.09		246.9	FLOOD
2.001	S2	1	114.270	1.255	4.663	0.95		287.2	FLOOD
2.002	S3	1	113.305	1.400	0.181	0.87		332.1	FLOOD
1.004	S8	1	112.960	1.510	4.563	2.40		468.1	FLOOD
1.005	S9	1	112.156	0.847	4.919	1.27		560.1	FLOOD
1.006	S10	1	111.257	0.638	0.000	0.88		568.6	FLOOD RISK
1.007	S11	1	110.410	1.110	0.000	0.59		652.9	FLOOD RISK
1.008	S12	1	109.774	2.224	0.275	1.49		725.1	FLOOD

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Summary Wizard of 15 minute 100 year Winter I+40% for Surface Water Network

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
3.000	S13	1	110.695	-0.130	0.000	0.37		33.5	OK
3.001	S14	1	109.871	0.106	0.000	0.66		116.5	SURCHARGED
3.002	S15	1	109.664	0.604	0.000	0.56		139.7	SURCHARGED
1.009	S16	1	109.272	1.958	0.000	3.25		862.2	FLOOD RISK
1.010	S17	1	108.583	1.340	0.000	4.05		871.6	SURCHARGED
1.011	S18	2	108.139	0.921	0.000	2.90		864.2	SURCHARGED
4.000	S38	1	111.737	-0.573	0.000	0.04		112.3	OK
4.001	S39	1	111.346	-0.514	0.000	0.06	14.1	99.9	OK
4.002	S40	1	111.343	-0.487	0.000	0.03	17.3	87.4	OK
4.003	S41	1	111.340	-0.200	0.000	0.01	30.6	30.6	FLOOD RISK
4.004	S42	1	109.232	-0.608	0.000	0.02	4.8	66.5	OK
4.005	S43	1	108.337	-0.313	0.000	0.00	26.2	26.2	OK
1.012	S32	2	107.751	0.577	0.000	1.61		903.2	FLOOD RISK
5.000	S22	1	112.729	0.734	0.000	1.07		70.9	SURCHARGED
5.001	S23	1	111.819	0.584	0.000	2.15		77.4	SURCHARGED
5.002	S24	1	111.612	0.442	0.000	1.91		188.8	SURCHARGED
5.003	S25	1	110.865	-0.150	0.000	0.61		209.5	OK
5.004	S26	1	110.450	0.625	0.000	0.53		256.9	SURCHARGED
5.005	S27	1	109.625	2.505	2.838	2.61		279.9	FLOOD
5.006	S28	1	109.186	2.124	0.000	3.45		292.1	FLOOD RISK
5.007	S29	1	108.661	1.642	0.000	2.26		297.0	SURCHARGED
5.008	S30	1	108.393	1.429	0.000	2.27		316.4	SURCHARGED
5.009	S31	1	107.989	1.106	0.000	2.47		360.7	SURCHARGED
1.013	S33	2	107.457	0.478	0.000	2.09		717.1	SURCHARGED
1.014	S34	21	107.136	0.207	0.000	1.67		717.3	SURCHARGED
1.015	S35	30	106.830	0.055	0.000	0.05		21.9	SURCHARGED
1.016	S36	38	106.188	-0.087	0.000	0.69		21.9	OK

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Summary Wizard of 30 minute 100 year Winter I+40% for Surface Water Network

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	0.000
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	5	Number of Time/Area Diagrams	0
Number of Online Controls	3	Number of Storage Structures	2	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.401
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.600	Cv (Winter)	0.840

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

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, 40

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S4	4	113.984	-0.091	0.000	0.66		50.9	OK
1.001	S5	4	113.191	0.316	0.000	0.56		51.1	SURCHARGED
1.002	S6	4	112.980	0.835	0.000	1.77		63.9	SURCHARGED
1.003	S7	4	112.613	0.598	0.000	0.40		117.0	SURCHARGED
2.000	S1	4	114.171	0.496	0.000	0.95		214.0	SURCHARGED
2.001	S2	4	113.619	0.604	0.000	0.86		261.0	SURCHARGED
2.002	S3	4	112.793	0.888	0.000	0.77		291.1	SURCHARGED
1.004	S8	4	112.534	1.084	0.000	2.26		441.3	SURCHARGED
1.005	S9	4	111.825	0.516	0.000	1.19		523.2	SURCHARGED
1.006	S10	4	110.904	0.285	0.000	0.80		518.0	SURCHARGED
1.007	S11	4	110.070	0.770	0.000	0.55		610.0	SURCHARGED
1.008	S12	4	109.540	1.990	0.000	1.38		669.5	FLOOD RISK
3.000	S13	4	110.682	-0.143	0.000	0.29		26.2	OK
3.001	S14	4	109.618	-0.147	0.000	0.51		90.4	OK
3.002	S15	4	109.334	0.274	0.000	0.46		114.9	SURCHARGED

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Summary Wizard of 30 minute 100 year Winter I+40% for Surface Water Network

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.009	S16	3	109.100	1.786	0.000	2.96		786.6	SURCHARGED
1.010	S17	2	108.507	1.264	0.000	3.69		794.4	SURCHARGED
1.011	S18	1	108.142	0.924	0.000	2.66		790.3	SURCHARGED
4.000	S38	4	111.720	-0.590	0.000	0.03		88.7	OK
4.001	S39	4	111.309	-0.551	0.000	0.05	10.1	80.3	OK
4.002	S40	4	111.305	-0.525	0.000	0.03	13.0	69.9	OK
4.003	S41	4	111.300	-0.240	0.000	0.01	29.1	29.1	FLOOD RISK
4.004	S42	4	109.224	-0.616	0.000	0.02	4.1	56.9	OK
4.005	S43	4	108.305	-0.345	0.000	0.00	24.8	24.8	OK
1.012	S32	1	107.807	0.633	0.000	1.49		836.6	FLOOD RISK
5.000	S22	4	112.164	0.169	0.000	0.89		58.5	SURCHARGED
5.001	S23	4	111.557	0.322	0.000	1.69		60.8	SURCHARGED
5.002	S24	4	111.390	0.220	0.000	1.57		155.2	SURCHARGED
5.003	S25	4	110.829	-0.186	0.000	0.50		171.8	OK
5.004	S26	4	109.835	0.010	0.000	0.46		223.7	SURCHARGED
5.005	S27	4	109.319	2.199	0.000	2.35		251.5	SURCHARGED
5.006	S28	4	108.943	1.881	0.000	3.07		260.4	SURCHARGED
5.007	S29	3	108.525	1.506	0.000	2.03		267.2	SURCHARGED
5.008	S30	2	108.304	1.340	0.000	2.05		284.9	SURCHARGED
5.009	S31	2	107.980	1.097	0.000	2.26		329.9	SURCHARGED
1.013	S33	1	107.507	0.528	0.000	2.17		745.0	SURCHARGED
1.014	S34	20	107.162	0.233	0.000	1.74		745.1	SURCHARGED
1.015	S35	21	107.005	0.230	0.000	0.05		21.9	SURCHARGED
1.016	S36	44	106.188	-0.087	0.000	0.69		21.9	OK

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Summary Wizard of 60 minute 100 year Winter I+40% for Surface Water Network

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	0.000
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	5	Number of Time/Area Diagrams	0
Number of Online Controls	3	Number of Storage Structures	2	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.401
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.600	Cv (Winter)	0.840

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

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, 40

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S4	8	113.954	-0.121	0.000	0.44		34.0	OK
1.001	S5	8	112.751	-0.124	0.000	0.42		38.1	OK
1.002	S6	8	112.233	0.088	0.000	1.33		48.2	SURCHARGED
1.003	S7	8	111.780	-0.235	0.000	0.30		88.6	OK
2.000	S1	8	113.524	-0.151	0.000	0.66		150.0	OK
2.001	S2	8	112.860	-0.155	0.000	0.64		194.7	OK
2.002	S3	8	111.878	-0.027	0.000	0.58		221.5	OK
1.004	S8	8	111.723	0.273	0.000	1.75		341.8	SURCHARGED
1.005	S9	8	111.196	-0.113	0.000	0.91		400.6	OK
1.006	S10	8	110.429	-0.190	0.000	0.63		408.9	OK
1.007	S11	8	108.979	-0.321	0.000	0.44		489.2	OK
1.008	S12	6	108.618	1.068	0.000	1.07		521.2	SURCHARGED
3.000	S13	8	110.667	-0.158	0.000	0.19		17.5	OK
3.001	S14	8	109.585	-0.180	0.000	0.34		59.7	OK
3.002	S15	8	108.875	-0.185	0.000	0.31		77.5	OK

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Summary Wizard of 60 minute 100 year Winter I+40% for Surface Water Network

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.009	S16	6	108.353	1.039	0.000	2.30		610.5	SURCHARGED
1.010	S17	6	108.002	0.759	0.000	2.86		616.2	SURCHARGED
1.011	S18	6	107.785	0.567	0.000	2.06		612.9	SURCHARGED
4.000	S38	8	111.699	-0.611	0.000	0.02		59.1	OK
4.001	S39	8	111.263	-0.597	0.000	0.03	5.7	53.4	OK
4.002	S40	6	111.227	-0.603	0.000	0.02	5.2	48.6	OK
4.003	S41	6	111.196	-0.344	0.000	0.00	24.9	24.9	OK
4.004	S42	6	109.214	-0.626	0.000	0.01	3.1	43.3	OK
4.005	S43	6	108.224	-0.426	0.000	0.00	20.9	20.9	OK
1.012	S32	6	107.579	0.405	0.000	1.17		656.8	SURCHARGED
5.000	S22	8	111.897	-0.098	0.000	0.61		40.0	OK
5.001	S23	8	111.261	0.026	0.000	1.12		40.2	SURCHARGED
5.002	S24	8	111.180	0.010	0.000	1.08		106.1	SURCHARGED
5.003	S25	8	110.792	-0.223	0.000	0.34		117.2	OK
5.004	S26	8	109.596	-0.229	0.000	0.32		154.5	OK
5.005	S27	6	108.308	1.188	0.000	1.66		177.5	SURCHARGED
5.006	S28	6	108.119	1.057	0.000	2.21		186.9	SURCHARGED
5.007	S29	6	107.912	0.893	0.000	1.46		192.3	SURCHARGED
5.008	S30	6	107.804	0.840	0.000	1.48		205.9	SURCHARGED
5.009	S31	6	107.647	0.764	0.000	1.66		242.8	SURCHARGED
1.013	S33	11	107.386	0.407	0.000	1.97		676.4	SURCHARGED
1.014	S34	19	107.168	0.239	0.000	1.58		676.1	SURCHARGED
1.015	S35	19	107.162	0.387	0.000	0.05		21.9	SURCHARGED
1.016	S36	41	106.188	-0.087	0.000	0.69		21.9	OK

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Summary Wizard of 120 minute 100 year Winter I+40% for Surface Water Network

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	0.000
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	5	Number of Time/Area Diagrams	0
Number of Online Controls	3	Number of Storage Structures	2	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.401
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.600	Cv (Winter)	0.840

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

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, 40

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S4	14	113.929	-0.146	0.000	0.27		21.0	OK
1.001	S5	14	112.727	-0.148	0.000	0.26		23.6	OK
1.002	S6	14	112.076	-0.069	0.000	0.82		29.8	OK
1.003	S7	14	111.749	-0.266	0.000	0.19		54.8	OK
2.000	S1	14	113.467	-0.208	0.000	0.41		92.6	OK
2.001	S2	14	112.804	-0.211	0.000	0.40		120.2	OK
2.002	S3	14	111.641	-0.264	0.000	0.36		137.3	OK
1.004	S8	14	111.453	0.003	0.000	1.09		211.9	SURCHARGED
1.005	S9	14	111.101	-0.208	0.000	0.56		248.6	OK
1.006	S10	14	110.364	-0.255	0.000	0.39		253.7	OK
1.007	S11	14	108.913	-0.387	0.000	0.27		304.3	OK
1.008	S12	13	107.505	-0.045	0.000	0.68		333.1	OK
3.000	S13	14	110.651	-0.174	0.000	0.12		10.8	OK
3.001	S14	14	109.558	-0.207	0.000	0.21		36.8	OK
3.002	S15	14	108.849	-0.211	0.000	0.19		47.8	OK

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Summary Wizard of 120 minute 100 year Winter I+40% for Surface Water Network

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.009	S16	17	107.435	0.121	0.000	1.48		391.8	SURCHARGED
1.010	S17	19	107.330	0.087	0.000	1.84		396.0	SURCHARGED
1.011	S18	18	107.324	0.106	0.000	1.33		395.2	SURCHARGED
4.000	S38	14	111.681	-0.629	0.000	0.01		36.5	OK
4.001	S39	14	111.240	-0.620	0.000	0.02	3.7	32.8	OK
4.002	S40	14	111.197	-0.633	0.000	0.01	2.5	30.3	OK
4.003	S41	13	111.053	-0.487	0.000	0.00	17.4	17.4	OK
4.004	S42	13	109.194	-0.646	0.000	0.01	1.7	29.7	OK
4.005	S43	13	108.140	-0.510	0.000	0.00	14.8	14.8	OK
1.012	S32	17	107.316	0.142	0.000	0.76		425.2	SURCHARGED
5.000	S22	14	111.865	-0.130	0.000	0.38		24.7	OK
5.001	S23	14	111.147	-0.088	0.000	0.69		24.7	OK
5.002	S24	14	111.049	-0.121	0.000	0.67		65.6	OK
5.003	S25	14	110.757	-0.258	0.000	0.21		72.5	OK
5.004	S26	14	109.563	-0.262	0.000	0.20		95.5	OK
5.005	S27	12	107.525	0.405	0.000	1.04		111.7	SURCHARGED
5.006	S28	12	107.455	0.393	0.000	1.39		118.0	SURCHARGED
5.007	S29	17	107.376	0.357	0.000	0.93		122.3	SURCHARGED
5.008	S30	16	107.331	0.367	0.000	0.94		131.4	SURCHARGED
5.009	S31	16	107.319	0.436	0.000	1.07		156.6	SURCHARGED
1.013	S33	17	107.309	0.330	0.000	1.42		486.5	SURCHARGED
1.014	S34	11	107.302	0.373	0.000	1.13		485.6	SURCHARGED
1.015	S35	12	107.298	0.523	0.000	0.05		21.9	SURCHARGED
1.016	S36	39	106.188	-0.087	0.000	0.69		21.9	OK

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Summary Wizard of 180 minute 100 year Winter I+40% for Surface Water Network

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	0.000
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	5	Number of Time/Area Diagrams	0
Number of Online Controls	3	Number of Storage Structures	2	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.401
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.600	Cv (Winter)	0.840

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

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, 40

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S4	17	113.918	-0.157	0.000	0.20		15.5	OK
1.001	S5	17	112.716	-0.159	0.000	0.19		17.4	OK
1.002	S6	17	112.047	-0.098	0.000	0.61		22.1	OK
1.003	S7	17	111.732	-0.283	0.000	0.14		40.5	OK
2.000	S1	17	113.441	-0.234	0.000	0.30		68.5	OK
2.001	S2	17	112.778	-0.237	0.000	0.29		88.8	OK
2.002	S3	17	111.612	-0.293	0.000	0.27		101.4	OK
1.004	S8	17	111.307	-0.143	0.000	0.80		156.7	OK
1.005	S9	17	111.061	-0.248	0.000	0.42		183.9	OK
1.006	S10	17	110.334	-0.285	0.000	0.29		187.6	OK
1.007	S11	17	108.883	-0.417	0.000	0.20		225.1	OK
1.008	S12	23	107.401	-0.149	0.000	0.51		246.7	OK
3.000	S13	17	110.645	-0.180	0.000	0.09		8.0	OK
3.001	S14	17	109.543	-0.222	0.000	0.15		27.2	OK
3.002	S15	17	108.835	-0.225	0.000	0.14		35.3	OK

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Summary Wizard of 180 minute 100 year Winter I+40% for Surface Water Network

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.009	S16	21	107.394	0.080	0.000	1.09		290.3	SURCHARGED
1.010	S17	18	107.385	0.142	0.000	1.37		293.7	SURCHARGED
1.011	S18	16	107.380	0.162	0.000	0.99		293.6	SURCHARGED
4.000	S38	17	111.664	-0.646	0.000	0.01		27.0	OK
4.001	S39	17	111.230	-0.630	0.000	0.01	2.7	24.3	OK
4.002	S40	17	111.181	-0.649	0.000	0.01	1.5	22.8	OK
4.003	S41	17	111.016	-0.524	0.000	0.00	13.2	13.2	OK
4.004	S42	17	109.181	-0.659	0.000	0.01	1.0	22.6	OK
4.005	S43	17	108.109	-0.541	0.000	0.00	11.3	11.3	OK
1.012	S32	13	107.375	0.201	0.000	0.56		315.7	SURCHARGED
5.000	S22	17	111.850	-0.145	0.000	0.28		18.3	OK
5.001	S23	17	111.124	-0.111	0.000	0.51		18.3	OK
5.002	S24	17	111.019	-0.151	0.000	0.49		48.5	OK
5.003	S25	17	110.739	-0.276	0.000	0.16		53.6	OK
5.004	S26	17	109.545	-0.280	0.000	0.15		70.5	OK
5.005	S27	20	107.399	0.279	0.000	0.77		82.5	SURCHARGED
5.006	S28	19	107.394	0.332	0.000	1.03		87.1	SURCHARGED
5.007	S29	15	107.388	0.369	0.000	0.69		90.2	SURCHARGED
5.008	S30	14	107.383	0.419	0.000	0.70		96.9	SURCHARGED
5.009	S31	13	107.377	0.494	0.000	0.79		115.6	SURCHARGED
1.013	S33	13	107.370	0.391	0.000	1.06		364.6	SURCHARGED
1.014	S34	7	107.365	0.436	0.000	0.85		363.4	SURCHARGED
1.015	S35	7	107.361	0.586	0.000	0.05		21.9	SURCHARGED
1.016	S36	33	106.188	-0.087	0.000	0.69		21.9	OK

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Summary Wizard of 240 minute 100 year Winter I+40% for Surface Water Network

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	0.000
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	5	Number of Time/Area Diagrams	0
Number of Online Controls	3	Number of Storage Structures	2	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.401
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.600	Cv (Winter)	0.840

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

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, 40

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S4	23	113.910	-0.165	0.000	0.16		12.4	OK
1.001	S5	22	112.708	-0.167	0.000	0.15		13.9	OK
1.002	S6	22	112.031	-0.114	0.000	0.49		17.7	OK
1.003	S7	22	111.723	-0.292	0.000	0.11		32.4	OK
2.000	S1	23	113.425	-0.250	0.000	0.24		54.9	OK
2.001	S2	22	112.763	-0.252	0.000	0.24		71.1	OK
2.002	S3	22	111.595	-0.310	0.000	0.21		81.2	OK
1.004	S8	22	111.263	-0.187	0.000	0.64		125.5	OK
1.005	S9	22	111.038	-0.271	0.000	0.33		147.3	OK
1.006	S10	22	110.315	-0.304	0.000	0.23		150.3	OK
1.007	S11	21	108.861	-0.439	0.000	0.16		180.4	OK
1.008	S12	20	107.427	-0.123	0.000	0.40		197.1	OK
3.000	S13	23	110.639	-0.186	0.000	0.07		6.4	OK
3.001	S14	22	109.535	-0.230	0.000	0.12		21.7	OK
3.002	S15	21	108.827	-0.233	0.000	0.11		28.3	OK

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Summary Wizard of 240 minute 100 year Winter I+40% for Surface Water Network

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.009	S16	19	107.422	0.108	0.000	0.87		231.3	SURCHARGED
1.010	S17	16	107.415	0.172	0.000	1.09		233.7	SURCHARGED
1.011	S18	13	107.411	0.193	0.000	0.78		232.3	SURCHARGED
4.000	S38	23	111.654	-0.656	0.000	0.01		21.6	OK
4.001	S39	23	111.217	-0.643	0.000	0.01	1.9	19.8	OK
4.002	S40	23	111.172	-0.658	0.000	0.01	1.0	18.7	OK
4.003	S41	22	110.994	-0.546	0.000	0.00	10.8	10.8	OK
4.004	S42	21	109.173	-0.667	0.000	0.01	0.7	18.5	OK
4.005	S43	20	108.090	-0.560	0.000	0.00	9.2	9.2	OK
1.012	S32	11	107.407	0.233	0.000	0.45		249.6	SURCHARGED
5.000	S22	23	111.842	-0.153	0.000	0.22		14.6	OK
5.001	S23	23	111.110	-0.125	0.000	0.41		14.6	OK
5.002	S24	22	111.000	-0.170	0.000	0.39		38.8	OK
5.003	S25	22	110.728	-0.287	0.000	0.13		42.9	OK
5.004	S26	21	109.535	-0.290	0.000	0.12		56.5	OK
5.005	S27	18	107.426	0.306	0.000	0.62		66.1	SURCHARGED
5.006	S28	17	107.422	0.360	0.000	0.82		69.3	SURCHARGED
5.007	S29	13	107.417	0.398	0.000	0.54		71.4	SURCHARGED
5.008	S30	12	107.413	0.449	0.000	0.55		76.7	SURCHARGED
5.009	S31	11	107.409	0.526	0.000	0.63		91.5	SURCHARGED
1.013	S33	8	107.403	0.424	0.000	0.77		264.7	SURCHARGED
1.014	S34	5	107.398	0.469	0.000	0.61		262.8	SURCHARGED
1.015	S35	5	107.395	0.620	0.000	0.05		21.9	SURCHARGED
1.016	S36	31	106.188	-0.087	0.000	0.69		21.9	OK

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Summary Wizard of 360 minute 100 year Winter I+40% for Surface Water Network

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	0.000
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	5	Number of Time/Area Diagrams	0
Number of Online Controls	3	Number of Storage Structures	2	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.401
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.600	Cv (Winter)	0.840

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

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, 40

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S4	30	113.901	-0.174	0.000	0.12		9.0	OK
1.001	S5	30	112.700	-0.175	0.000	0.11		10.1	OK
1.002	S6	30	112.012	-0.133	0.000	0.36		12.8	OK
1.003	S7	30	111.710	-0.305	0.000	0.08		23.6	OK
2.000	S1	30	113.405	-0.270	0.000	0.18		39.9	OK
2.001	S2	30	112.744	-0.271	0.000	0.17		51.7	OK
2.002	S3	30	111.573	-0.332	0.000	0.16		59.1	OK
1.004	S8	30	111.216	-0.234	0.000	0.47		91.2	OK
1.005	S9	30	111.009	-0.300	0.000	0.24		107.1	OK
1.006	S10	30	110.292	-0.327	0.000	0.17		109.3	OK
1.007	S11	29	108.837	-0.463	0.000	0.12		131.2	OK
1.008	S12	17	107.450	-0.100	0.000	0.30		143.8	OK
3.000	S13	30	110.633	-0.192	0.000	0.05		4.6	OK
3.001	S14	29	109.525	-0.240	0.000	0.09		15.8	OK
3.002	S15	29	108.817	-0.243	0.000	0.08		20.5	OK

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Summary Wizard of 360 minute 100 year Winter I+40% for Surface Water Network

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.009	S16	15	107.446	0.132	0.000	0.63		168.4	SURCHARGED
1.010	S17	14	107.441	0.198	0.000	0.79		169.0	SURCHARGED
1.011	S18	10	107.438	0.220	0.000	0.56		167.6	SURCHARGED
4.000	S38	30	111.642	-0.668	0.000	0.01		15.7	OK
4.001	S39	30	111.202	-0.658	0.000	0.01	1.0	14.7	OK
4.002	S40	30	111.161	-0.669	0.000	0.01	0.6	14.1	OK
4.003	S41	30	110.969	-0.571	0.000	0.00	8.1	8.1	OK
4.004	S42	29	109.165	-0.675	0.000	0.00	0.4	13.8	OK
4.005	S43	29	108.068	-0.582	0.000	0.00	6.9	6.9	OK
1.012	S32	9	107.435	0.261	0.000	0.32		180.7	SURCHARGED
5.000	S22	30	111.830	-0.165	0.000	0.16		10.6	OK
5.001	S23	30	111.093	-0.142	0.000	0.30		10.6	OK
5.002	S24	30	110.979	-0.191	0.000	0.29		28.2	OK
5.003	S25	30	110.716	-0.299	0.000	0.09		31.2	OK
5.004	S26	29	109.523	-0.302	0.000	0.09		41.1	OK
5.005	S27	15	107.449	0.329	0.000	0.45		48.1	SURCHARGED
5.006	S28	15	107.446	0.384	0.000	0.60		50.5	SURCHARGED
5.007	S29	11	107.443	0.424	0.000	0.40		51.9	SURCHARGED
5.008	S30	10	107.440	0.476	0.000	0.40		55.7	SURCHARGED
5.009	S31	9	107.437	0.554	0.000	0.46		66.6	SURCHARGED
1.013	S33	6	107.432	0.453	0.000	0.57		193.8	SURCHARGED
1.014	S34	3	107.429	0.500	0.000	0.45		192.4	SURCHARGED
1.015	S35	3	107.425	0.650	0.000	0.05		21.9	SURCHARGED
1.016	S36	29	106.188	-0.087	0.000	0.69		21.9	OK

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Summary Wizard of 480 minute 100 year Winter I+40% for Surface Water Network

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	0.000
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	5	Number of Time/Area Diagrams	0
Number of Online Controls	3	Number of Storage Structures	2	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.401
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.600	Cv (Winter)	0.840

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

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, 40

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S4	35	113.896	-0.179	0.000	0.09		7.2	OK
1.001	S5	35	112.695	-0.180	0.000	0.09		8.1	OK
1.002	S6	35	112.001	-0.144	0.000	0.28		10.2	OK
1.003	S7	35	111.701	-0.314	0.000	0.06		18.8	OK
2.000	S1	35	113.393	-0.282	0.000	0.14		31.8	OK
2.001	S2	35	112.732	-0.283	0.000	0.14		41.2	OK
2.002	S3	35	111.560	-0.345	0.000	0.12		47.1	OK
1.004	S8	35	111.190	-0.260	0.000	0.37		72.7	OK
1.005	S9	35	110.993	-0.316	0.000	0.19		85.4	OK
1.006	S10	35	110.278	-0.341	0.000	0.13		87.1	OK
1.007	S11	35	108.823	-0.477	0.000	0.09		104.6	OK
1.008	S12	15	107.456	-0.094	0.000	0.24		114.6	OK
3.000	S13	35	110.629	-0.196	0.000	0.04		3.7	OK
3.001	S14	35	109.517	-0.248	0.000	0.07		12.6	OK
3.002	S15	35	108.810	-0.250	0.000	0.07		16.4	OK

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Summary Wizard of 480 minute 100 year Winter I+40% for Surface Water Network

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.009	S16	12	107.453	0.139	0.000	0.51		134.2	SURCHARGED
1.010	S17	12	107.448	0.205	0.000	0.62		134.1	SURCHARGED
1.011	S18	8	107.446	0.228	0.000	0.45		133.2	SURCHARGED
4.000	S38	35	111.635	-0.675	0.000	0.00		12.5	OK
4.001	S39	35	111.194	-0.666	0.000	0.01	0.7	11.8	OK
4.002	S40	35	111.155	-0.675	0.000	0.00	0.4	11.5	OK
4.003	S41	35	110.954	-0.586	0.000	0.00	6.6	6.6	OK
4.004	S42	35	109.160	-0.680	0.000	0.00	0.3	11.2	OK
4.005	S43	35	108.051	-0.599	0.000	0.00	5.6	5.6	OK
1.012	S32	7	107.444	0.270	0.000	0.26		143.9	SURCHARGED
5.000	S22	35	111.823	-0.172	0.000	0.13		8.5	OK
5.001	S23	35	111.084	-0.151	0.000	0.24		8.5	OK
5.002	S24	35	110.967	-0.203	0.000	0.23		22.5	OK
5.003	S25	35	110.706	-0.309	0.000	0.07		24.8	OK
5.004	S26	35	109.514	-0.311	0.000	0.07		32.7	OK
5.005	S27	13	107.455	0.335	0.000	0.36		38.3	SURCHARGED
5.006	S28	13	107.453	0.391	0.000	0.48		40.3	SURCHARGED
5.007	S29	9	107.450	0.431	0.000	0.32		41.5	SURCHARGED
5.008	S30	8	107.448	0.484	0.000	0.32		44.4	SURCHARGED
5.009	S31	7	107.445	0.562	0.000	0.36		53.2	SURCHARGED
1.013	S33	3	107.441	0.462	0.000	0.45		155.5	SURCHARGED
1.014	S34	1	107.437	0.508	0.000	0.36		154.5	SURCHARGED
1.015	S35	1	107.434	0.659	0.000	0.05		21.9	SURCHARGED
1.016	S36	25	106.188	-0.087	0.000	0.69		21.9	OK

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Summary Wizard of 600 minute 100 year Winter I+40% for Surface Water Network

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	0.000
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	5	Number of Time/Area Diagrams	0
Number of Online Controls	3	Number of Storage Structures	2	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.401
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.600	Cv (Winter)	0.840

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

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, 40

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S4	39	113.891	-0.184	0.000	0.08		6.0	OK
1.001	S5	39	112.690	-0.185	0.000	0.07		6.8	OK
1.002	S6	39	111.994	-0.151	0.000	0.24		8.6	OK
1.003	S7	39	111.696	-0.319	0.000	0.05		15.7	OK
2.000	S1	39	113.385	-0.290	0.000	0.12		26.6	OK
2.001	S2	39	112.724	-0.291	0.000	0.11		34.5	OK
2.002	S3	39	111.551	-0.354	0.000	0.10		39.4	OK
1.004	S8	39	111.172	-0.278	0.000	0.31		60.9	OK
1.005	S9	39	110.980	-0.329	0.000	0.16		71.5	OK
1.006	S10	39	110.269	-0.350	0.000	0.11		73.0	OK
1.007	S11	39	108.812	-0.488	0.000	0.08		87.6	OK
1.008	S12	16	107.450	-0.100	0.000	0.20		96.0	OK
3.000	S13	39	110.627	-0.198	0.000	0.03		3.1	OK
3.001	S14	39	109.512	-0.253	0.000	0.06		10.6	OK
3.002	S15	39	108.805	-0.255	0.000	0.06		13.7	OK

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Summary Wizard of 600 minute 100 year Winter I+40% for Surface Water Network

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.009	S16	14	107.448	0.134	0.000	0.42		112.5	SURCHARGED
1.010	S17	13	107.444	0.201	0.000	0.52		112.3	SURCHARGED
1.011	S18	9	107.442	0.224	0.000	0.37		111.5	SURCHARGED
4.000	S38	39	111.631	-0.679	0.000	0.00		10.5	OK
4.001	S39	39	111.189	-0.671	0.000	0.01	0.5	10.0	OK
4.002	S40	39	111.152	-0.678	0.000	0.00	0.3	9.7	OK
4.003	S41	39	110.941	-0.599	0.000	0.00	5.6	5.6	OK
4.004	S42	39	109.157	-0.683	0.000	0.00	0.2	9.4	OK
4.005	S43	39	108.040	-0.610	0.000	0.00	4.7	4.7	OK
1.012	S32	8	107.439	0.265	0.000	0.22		120.6	SURCHARGED
5.000	S22	39	111.819	-0.176	0.000	0.11		7.1	OK
5.001	S23	39	111.078	-0.157	0.000	0.20		7.1	OK
5.002	S24	39	110.958	-0.212	0.000	0.19		18.8	OK
5.003	S25	39	110.700	-0.315	0.000	0.06		20.8	OK
5.004	S26	39	109.507	-0.318	0.000	0.06		27.4	OK
5.005	S27	14	107.450	0.330	0.000	0.30		32.3	SURCHARGED
5.006	S28	14	107.448	0.386	0.000	0.40		34.1	SURCHARGED
5.007	S29	10	107.445	0.426	0.000	0.27		35.2	SURCHARGED
5.008	S30	9	107.443	0.479	0.000	0.27		37.4	SURCHARGED
5.009	S31	8	107.441	0.558	0.000	0.31		44.7	SURCHARGED
1.013	S33	5	107.437	0.458	0.000	0.38		131.4	SURCHARGED
1.014	S34	2	107.434	0.505	0.000	0.30		130.5	SURCHARGED
1.015	S35	2	107.430	0.655	0.000	0.05		21.9	SURCHARGED
1.016	S36	23	106.188	-0.087	0.000	0.69		21.9	OK

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Summary Wizard of 720 minute 100 year Winter I+40% for Surface Water Network

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	0.000
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	5	Number of Time/Area Diagrams	0
Number of Online Controls	3	Number of Storage Structures	2	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.401
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.600	Cv (Winter)	0.840

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

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, 40

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S4	42	113.888	-0.187	0.000	0.07		5.2	OK
1.001	S5	42	112.687	-0.188	0.000	0.06		5.9	OK
1.002	S6	42	111.989	-0.156	0.000	0.21		7.4	OK
1.003	S7	42	111.692	-0.323	0.000	0.05		13.6	OK
2.000	S1	42	113.380	-0.295	0.000	0.10		23.0	OK
2.001	S2	42	112.719	-0.296	0.000	0.10		29.9	OK
2.002	S3	42	111.546	-0.359	0.000	0.09		34.1	OK
1.004	S8	42	111.158	-0.292	0.000	0.27		52.7	OK
1.005	S9	42	110.971	-0.338	0.000	0.14		61.9	OK
1.006	S10	42	110.263	-0.356	0.000	0.10		63.2	OK
1.007	S11	42	108.802	-0.498	0.000	0.07		75.8	OK
1.008	S12	18	107.438	-0.112	0.000	0.17		83.1	OK
3.000	S13	42	110.625	-0.200	0.000	0.03		2.7	OK
3.001	S14	42	109.509	-0.256	0.000	0.05		9.1	OK
3.002	S15	42	108.802	-0.258	0.000	0.05		11.9	OK

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Summary Wizard of 720 minute 100 year Winter I+40% for Surface Water Network

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.009	S16	16	107.435	0.121	0.000	0.37		97.3	SURCHARGED
1.010	S17	15	107.432	0.189	0.000	0.45		97.1	SURCHARGED
1.011	S18	12	107.430	0.212	0.000	0.32		96.4	SURCHARGED
4.000	S38	42	111.628	-0.682	0.000	0.00		9.1	OK
4.001	S39	42	111.185	-0.675	0.000	0.01	0.4	8.7	OK
4.002	S40	42	111.149	-0.681	0.000	0.00	0.2	8.5	OK
4.003	S41	42	110.932	-0.608	0.000	0.00	4.8	4.8	OK
4.004	S42	42	109.155	-0.685	0.000	0.00	0.2	8.2	OK
4.005	S43	42	108.034	-0.616	0.000	0.00	4.1	4.1	OK
1.012	S32	10	107.428	0.254	0.000	0.19		104.2	SURCHARGED
5.000	S22	42	111.816	-0.179	0.000	0.09		6.2	OK
5.001	S23	42	111.072	-0.163	0.000	0.17		6.2	OK
5.002	S24	42	110.951	-0.219	0.000	0.17		16.3	OK
5.003	S25	42	110.695	-0.320	0.000	0.05		18.0	OK
5.004	S26	42	109.503	-0.322	0.000	0.05		23.7	OK
5.005	S27	16	107.437	0.317	0.000	0.26		28.0	SURCHARGED
5.006	S28	16	107.435	0.373	0.000	0.35		29.7	SURCHARGED
5.007	S29	12	107.433	0.414	0.000	0.23		30.7	SURCHARGED
5.008	S30	11	107.431	0.467	0.000	0.23		32.6	SURCHARGED
5.009	S31	10	107.429	0.546	0.000	0.27		38.8	SURCHARGED
1.013	S33	7	107.425	0.446	0.000	0.33		114.6	SURCHARGED
1.014	S34	4	107.422	0.493	0.000	0.27		113.8	SURCHARGED
1.015	S35	4	107.419	0.644	0.000	0.05		21.9	SURCHARGED
1.016	S36	22	106.188	-0.087	0.000	0.69		21.9	OK

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Summary Wizard of 960 minute 100 year Winter I+40% for Surface Water Network

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	0.000
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	5	Number of Time/Area Diagrams	0
Number of Online Controls	3	Number of Storage Structures	2	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.401
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.600	Cv (Winter)	0.840

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

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, 40

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S4	48	113.883	-0.192	0.000	0.05		4.2	OK
1.001	S5	48	112.682	-0.193	0.000	0.05		4.7	OK
1.002	S6	48	111.980	-0.165	0.000	0.16		5.9	OK
1.003	S7	48	111.686	-0.329	0.000	0.04		10.8	OK
2.000	S1	48	113.371	-0.304	0.000	0.08		18.3	OK
2.001	S2	48	112.709	-0.306	0.000	0.08		23.7	OK
2.002	S3	48	111.534	-0.371	0.000	0.07		27.1	OK
1.004	S8	48	111.141	-0.309	0.000	0.22		41.9	OK
1.005	S9	48	110.959	-0.350	0.000	0.11		49.2	OK
1.006	S10	48	110.252	-0.367	0.000	0.08		50.2	OK
1.007	S11	48	108.790	-0.510	0.000	0.05		60.3	OK
1.008	S12	22	107.401	-0.149	0.000	0.14		66.0	OK
3.000	S13	48	110.623	-0.202	0.000	0.02		2.1	OK
3.001	S14	48	109.504	-0.261	0.000	0.04		7.3	OK
3.002	S15	48	108.798	-0.262	0.000	0.04		9.4	OK

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Summary Wizard of 960 minute 100 year Winter I+40% for Surface Water Network

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.009	S16	20	107.399	0.085	0.000	0.29		77.5	SURCHARGED
1.010	S17	17	107.396	0.153	0.000	0.36		77.8	SURCHARGED
1.011	S18	15	107.394	0.176	0.000	0.26		77.5	SURCHARGED
4.000	S38	48	111.625	-0.685	0.000	0.00		7.2	OK
4.001	S39	48	111.180	-0.680	0.000	0.00	0.3	7.0	OK
4.002	S40	48	111.145	-0.685	0.000	0.00	0.2	6.8	OK
4.003	S41	48	110.922	-0.618	0.000	0.00	3.9	3.9	OK
4.004	S42	48	109.152	-0.688	0.000	0.00	0.1	6.6	OK
4.005	S43	48	108.026	-0.624	0.000	0.00	3.3	3.3	OK
1.012	S32	12	107.392	0.218	0.000	0.15		84.3	SURCHARGED
5.000	S22	48	111.810	-0.185	0.000	0.07		4.9	OK
5.001	S23	48	111.065	-0.170	0.000	0.14		4.9	OK
5.002	S24	48	110.942	-0.228	0.000	0.13		13.0	OK
5.003	S25	48	110.689	-0.326	0.000	0.04		14.3	OK
5.004	S26	48	109.498	-0.327	0.000	0.04		18.9	OK
5.005	S27	19	107.401	0.281	0.000	0.21		22.3	SURCHARGED
5.006	S28	18	107.399	0.337	0.000	0.28		23.6	SURCHARGED
5.007	S29	14	107.397	0.378	0.000	0.19		24.4	SURCHARGED
5.008	S30	13	107.395	0.431	0.000	0.19		25.9	SURCHARGED
5.009	S31	12	107.393	0.510	0.000	0.21		31.0	SURCHARGED
1.013	S33	10	107.390	0.411	0.000	0.31		104.9	SURCHARGED
1.014	S34	6	107.387	0.458	0.000	0.24		103.6	SURCHARGED
1.015	S35	6	107.383	0.608	0.000	0.05		21.9	SURCHARGED
1.016	S36	14	106.188	-0.087	0.000	0.69		21.9	OK

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Summary Wizard of 1440 minute 100 year Winter I+40% for Surface Water Network

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	0.000
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	5	Number of Time/Area Diagrams	0
Number of Online Controls	3	Number of Storage Structures	2	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.401
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.600	Cv (Winter)	0.840

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

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, 40

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S4	57	113.878	-0.197	0.000	0.04		3.0	OK
1.001	S5	57	112.678	-0.197	0.000	0.04		3.4	OK
1.002	S6	56	111.971	-0.174	0.000	0.12		4.3	OK
1.003	S7	56	111.681	-0.334	0.000	0.03		7.8	OK
2.000	S1	57	113.358	-0.317	0.000	0.06		13.2	OK
2.001	S2	57	112.697	-0.318	0.000	0.06		17.2	OK
2.002	S3	56	111.520	-0.385	0.000	0.05		19.6	OK
1.004	S8	56	111.118	-0.332	0.000	0.16		30.3	OK
1.005	S9	56	110.944	-0.365	0.000	0.08		35.6	OK
1.006	S10	56	110.237	-0.382	0.000	0.06		36.3	OK
1.007	S11	56	108.776	-0.524	0.000	0.04		43.6	OK
1.008	S12	25	107.335	-0.215	0.000	0.10		47.7	OK
3.000	S13	57	110.618	-0.207	0.000	0.02		1.5	OK
3.001	S14	56	109.499	-0.266	0.000	0.03		5.2	OK
3.002	S15	56	108.793	-0.267	0.000	0.03		6.8	OK

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Summary Wizard of 1440 minute 100 year Winter I+40% for Surface Water Network

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.009	S16	24	107.332	0.018	0.000	0.21		56.0	SURCHARGED
1.010	S17	20	107.329	0.086	0.000	0.26		56.2	SURCHARGED
1.011	S18	17	107.327	0.109	0.000	0.19		56.1	SURCHARGED
4.000	S38	57	111.620	-0.690	0.000	0.00		5.2	OK
4.001	S39	57	111.175	-0.685	0.000	0.00	0.2	5.1	OK
4.002	S40	57	111.141	-0.689	0.000	0.00	0.1	5.0	OK
4.003	S41	57	110.911	-0.629	0.000	0.00	2.8	2.8	OK
4.004	S42	56	109.149	-0.691	0.000	0.00	0.0	4.8	OK
4.005	S43	56	108.016	-0.634	0.000	0.00	2.4	2.4	OK
1.012	S32	15	107.325	0.151	0.000	0.11		61.5	SURCHARGED
5.000	S22	57	111.803	-0.192	0.000	0.05		3.5	OK
5.001	S23	57	111.057	-0.178	0.000	0.10		3.5	OK
5.002	S24	56	110.932	-0.238	0.000	0.09		9.4	OK
5.003	S25	56	110.683	-0.332	0.000	0.03		10.3	OK
5.004	S26	56	109.491	-0.334	0.000	0.03		13.6	OK
5.005	S27	21	107.334	0.214	0.000	0.15		16.1	SURCHARGED
5.006	S28	21	107.332	0.270	0.000	0.20		17.1	SURCHARGED
5.007	S29	20	107.330	0.311	0.000	0.14		17.8	SURCHARGED
5.008	S30	17	107.328	0.364	0.000	0.14		19.1	SURCHARGED
5.009	S31	15	107.326	0.443	0.000	0.16		22.7	SURCHARGED
1.013	S33	14	107.323	0.344	0.000	0.24		82.7	SURCHARGED
1.014	S34	8	107.320	0.391	0.000	0.19		82.3	SURCHARGED
1.015	S35	8	107.317	0.542	0.000	0.05		21.9	SURCHARGED
1.016	S36	10	106.188	-0.087	0.000	0.69		21.9	OK

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