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PROPOSED RESIDENTIAL DEVELOPMENT AT NORMANDY WAY, HINCKLEY LEICESTERSHIRE FOR

BLOOR HOMES EAST MIDLANDS LTD

ADDENDUM FLOOD RISK ASSESSMENT



EXECUTIVE SUMMARY

- The site is at no quantifiable risk of flooding from tidal events or main river .
- The risk from the stream crossing the adjacent site does not extend to the proposed extents of the additional development site.
- The site is at no quantifiable risk of flooding from groundwater sources.
- The site is at no quantifiable risk of flooding from artificial sources.
- The site is unsuitable for plot specific infiltration style drainage systems due to, prevailing ground conditions.
- The site is at no quantifiable risk of flooding from over land flow
- The site is at no quantifiable risk of flooding from existing sewerage systems upstream of the development site.
- The site is at negligible risk of flooding from its own internal sewer systems (as is any), but this can be mitigated by small scale engineering considerations.
- The site will drain its surface water to new balancing facilities within the adjacent development and these are to be upsized accordingly .
- Document issue history

STATUS	REVISION	DATE	RECIPIENT
LIVE	V1	27-4-23	BLOOR HOMES

Report Author
Stephen W Daykin I.Eng AMICE MCIHT

1.00 SITE LOCATION

The development proposal is located at the west of Hinckley adjacent to the existing development of Normandy Fields. The site comprises an irregular shaped area of land totalling some 2.4Ha or thereabouts, and fills in the gap between the existing consented development and the line of Normandy Way. The site is bounded by the Triumph factory to the south, Normandy Way to the East and the Normandy Fields development to the west and north (development under Outline planning consent number 15/00188/OUT. This document supports a proposed full planning application for the additional land

1.01 SITE DESCRIPTION

The site falls generally from NE to SW with an elevational range of 101-96.5m and is currently set as agricultural land

1.02 SITE CONTEXT

The sites setting is in geographic terms in hydrological and hydro-geological context with the adjacent development and existing falls suggest that in both its existing and future sense, drains towards the currently consented development

The existing development benefits from a detailed flood risk assessment prepared by Peter Brett associates report reference 30667/4001 updated by a supplementary report 30667/4002 (Hereinafter referred to as the base report.) Due to its location and similarities this report serves as an expansion of the base report as all matters identified therein remain relevant to this additional parcel of land

1.03 DEVELOPMENT PROPOSAL

It is proposed to develop the additional site with up to 153 additional residential dwellings.

2.01 FLOODING DUE TO COASTAL OR TIDAL EFFECTS

The base report clarifies that the site is remote from coastal and tidal effect and therefore is not at flood risk from that source

2.02 FLOODING DUE TO FLUVIAL EVENTS

MAJOR RIVER SYSTEMS

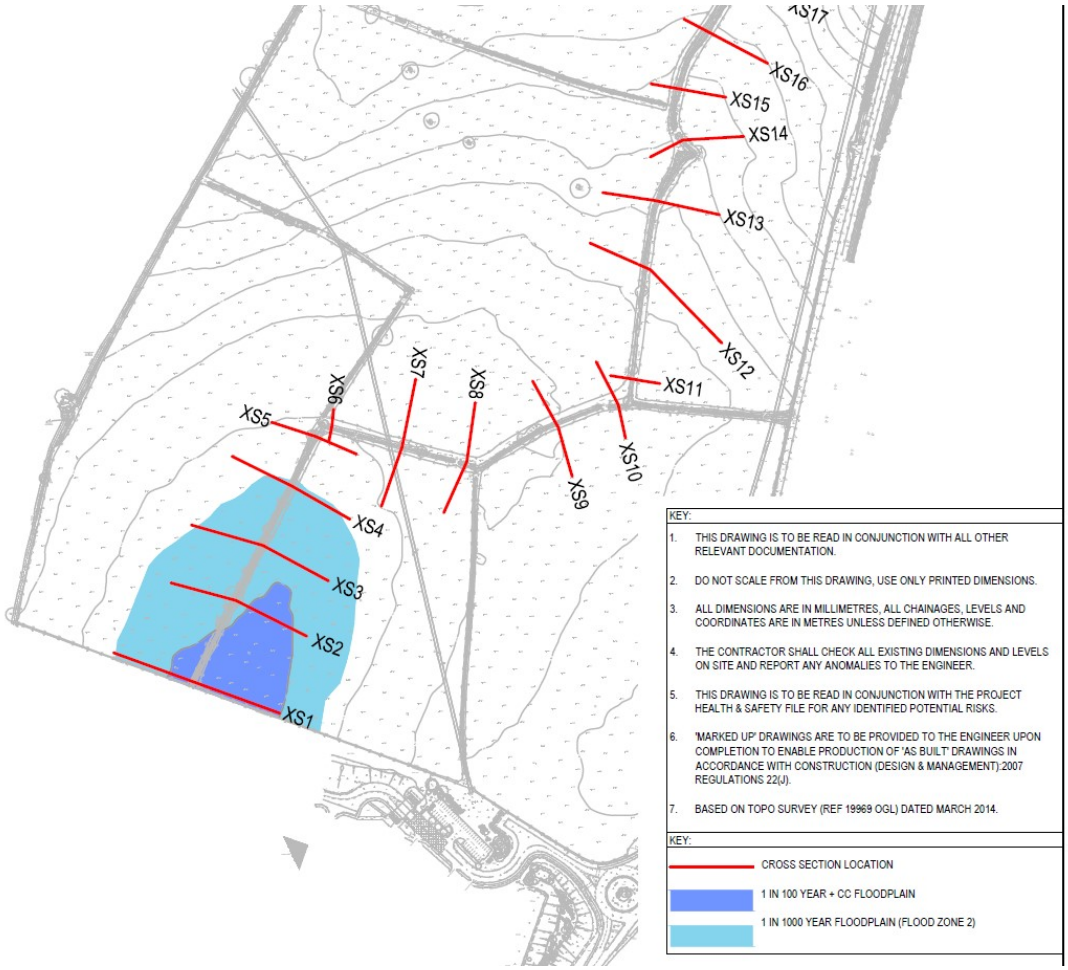
The site lies in the greater catchment of the River Anker. The nearest enmained watercourse is the Battling brook 200m south of the site. As per the base report the site is free from flood risk from main river systems with the nearest recorded flooding indicated on the Battling brook to the south of the site.



Extract from Environment Agency on line flood map showing the site in context to the mapped flood outlines

MINOR WATERCOURSE SYSTEMS

A minor watercourse bisects the existing Normandy Fields development and passes beneath the Triumph factory. The matter is fully discussed in the base report including a full hydraulic model. The exercise covers all matters including culvert blockage and identifies the flood risk zones associated with this risk



Extract from the watercourse model contained within the base report

The 1 in 100 year flood extent plus an allowance for climate change is bounded approximately by the 94m contour. The site has a lowest ground level of 96.5 and we would suggest a minimum floor level of 96.8 .. The hydraulic model predicts that the 1 in 1000 year flood event level would be 94.6m and a 90% culvert blockage scenario level would be up to 94.93m adjacent to the proposed site, which still affords more than 1.8m of freeboard to proposed floor levels. As such we conclude that the additional development site is comfortably free from this source of flooding

2.04 FLOODING DUE TO GROUNDWATER

The base report addresses this issue and concludes that the site is free from this source of flooding

2.05 FLOODING DUE TO OVERLAND RUN OFF FROM ADJACENT AGRICULTURAL LAND

The additional development site is surrounded by extensive development and as such is isolated from flooding from this source

2.06 FLOODING DUE TO EXISTING SEWERAGE

There are no existing sewers crossing the proposed additional development land. Any escapes would be restricted to systems in Normandy Way which would route to the south between kerbs with the existing land fall. Sewers within the current development fall into the site towards attenuation basins and the mains stream through that site. These falls are away from the additional land and anticipated to route within the roadways of the existing development in the event of exceedance

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2.07 FLOODING FROM ARTIFICIAL SOURCES

The Ashby De La Zouch canal is located to the west of the site but is remote from it and separated by a small ridge of higher ground. Land falls adjacent to the canal fall into the canal so any additional flow would be contained within the canal corridor. To the south of the site the canal turns towards the east but the land is topographically below the site so can pose no risk The base report addressed the risk from reservoir failure and concluded that there was no risk from this source.

2.08 CULVERT BLOCKAGE SCENARIO

There issue of culvert blockage was fully addressed in the base report and the predicted water levels in such an event do not affect the site

2.09 FLOOD PLAIN IMPACT AND VOUMETRIC CHANGE

The site is remote from any floodplain so there is no impact on available flood plain volumes

3.00 DRY ESCAPE

Principal highway access routes into the additional land remain remote and vertically clear if flood levels throughout the site as predicted in the hydraulic model of the base report

4.00 DEVELOPMENT DRAINAGE

The base report has determined that the prevailing soil types are not suitable for infiltration drainage on this site and have concluded that a controlled discharge into the cross site watercourse within the existing development was the best solution

The additional development site has falls towards the existing development site and as such, it is proposed to drain development surface water into the sewers of the existing development and upsize the proposed attenuation basins to suit

Preliminary assessment suggests that overall, approximately 1000m3 of additional storage will be requited and will be distributed between the two proposed basins that abut the site. Appendix A contains a drawing of the proposed disposition of sewers within the new development land and details the proposed enlargements to the exiting attenuation facilities. Appendix B contains the supporting microdrainage calculations for the systems.

4.01 FLOOD RISK FROM PROPOSED SEWERS

There is a low level risk with any sewerage system that a blockage may occur, and that this may pose a residual flooding risk.

Means that can be taken to avoid this risk form basic good practice and include:

- General routing of sewers downhill with topographic slopes
- Setting of minimum finished floor levels above adjacent manhole cover levels and a minimum 300mm above existing ground level

All of the above will be incorporated in the proposed surface water sewer system for the above development in order to minimise risk.

The sewer system will be designed in accordance with WIA publication " Design and Construction Guidance to a 1 in 30 year no flood scenario. The proposed system will be analysed to the 1 in 100 year plus 40% scenario to exhibit a no flood scenario at this level for all events from the 30 minute duration onwards, together with consideration of overland flow routes for exceedance events.

CONCLUSIONS

- The site is at no quantifiable risk of flooding from tidal events or main river .

- The risk from the stream crossing the adjacent site does not extend to the proposed extents of the additional development site.

- The site is at no quantifiable risk of flooding from groundwater sources.

- The site is at no quantifiable risk of flooding from artificial sources.

- The site is unsuitable for plot specific infiltration style drainage systems due to, prevailing ground conditions.

- The site is at no quantifiable risk of flooding from over land flow

- The site is at no quantifiable risk of flooding from existing sewerage systems upstream of the development site.

- The site is at negligible risk of flooding from its own internal sewer systems (as is any), but this can be mitigated by small scale engineering considerations.

- The site will drain its surface water to new balancing facilities within the adjacent development and these are to be upsized accordingly upon detailed design.

LINITATIONS OF REPORTING

All opinions expressed herein, including any conclusions are based on the Information openly available to the author at the date of this report The conclusions drawn from this information could therefore differ if the information is found to be inaccurate, or otherwise incomplete or out of date . The author can therefore accepts no liability should this prove to be the case

The process of fluvial flooding is complex, and data supplied by the Environment Agency contains significant caveats regarding its origin and accuracy. The users attention is therefore drawn to the limitations of the data supplied by the Agency as the same limitations, by definition, apply to the reporting of the same

This report has been prepared for the benefit of the client listed on the front page of this document and any relevant Statutory Authority which may require reference in relation to the granting of statutory approvals. The author therefore does not grant or imply any duty of care to any other third party who may use the data in this report and if so used, the information shall be deemed to have been so used at the readers own risk. Stephen Daykin Consulting Ltd accepts no liability whatsoever for the relevance and accuracy of any data so used by a third party or any consequential losses or damage howsoever caused in relation thereto without the report having been formally assigned to said third party.

APPENDIX A

DEVELOPER DRAINAGE PROPOSED LAYOUT

PHASE 6

Balancing Pond to serve Phase 7 - already approved under reference 1031125.

563m2

Phase 6 foul connection to existing installed/approved system

1443m2

FP McCann Adoptable Headwall

518m2

FP McCann Adoptable Headwall

FP McCann Adoptable Headwall

Balancing Pond - PH6
Top of Bank Level = 94.80mL
Base IL = 93.1m
Top Water Level = 94.50
Freeboard = 300mm
Total Capacity = 1099.86m3

FP McCann Adoptable Headwall

Outfall swale to existing watercourse
600mm deep
850mm wide base
Sides @ 1in4

Control Chamber S5050
Design Head = 2m
Discharge Rate 12.4l/s

FP McCann Adoptable Headwall

FP McCann Adoptable Headwall

Balancing Pond - PH4B
Top of Bank Level = 95.46m
Base IL = 93.2m
Top Water Level = 95.16
Freeboard = 300mm
Total Capacity = 7439.78m3

626m2

Phase 4 foul connection to existing installed system

Control Chamber S4023
Design Head = 1.5m
Discharge Rate 7.1l/s

Balancing Pond - PH4A
Top of Bank Level = 96.20m
Base IL = 94.50m
Top Water Level = 95.90
Freeboard = 300mm
Total Capacity = 2282.60m3

1707m2

Phase 4 foul connection to existing installed system

Phase 4 foul connection to existing installed system

Normandy Fields Phase 5

As Built Foul Pumping Station
Max Storage Level = 94.00m
Wet Well Base = 88.981m
Design Pump Rate = 28.14l/s

PHASE 1 PH7a

PLAY AREA

Normandy Way

S104 Drainage Key

- Adoptable section 104 foul sewer and manhole (cover & invert levels shown).
- Adoptable section 104 storm sewer and manhole (cover & invert levels shown).
- Dimensioned drainage easement.
- Site Boundary
- Trapped road gully to local authority specification with 150mm dia connection

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NOTE:
Sewers are being constructed to Design and Construction Guidance or the 'Code'

Revision.			
A	Updated to latest layout	25.04.23	DS

Proposed Development at
Normandy Way
Hinckley

PHASE 4&5
S104 Adoption Plan

DATE: **30.01.23**
SCALE: **1:500 @ A0**
DRAWN: **DS**
CHECKED:

BLOOR HOMES

Drawing No. MI100-EN-400A

APPENDIX B

SUPPORTING HYDRAULIC CALCULATIONS

STORM SEWER DESIGN by the Modified Rational Method

Design Criteria for Surface Network 4

Pipe Sizes STANDARD Manhole Sizes STANDARD

FSR Rainfall Model - England and Wales

Return Period (years)	2	PIMP (%)	100
M5-60 (mm)	19.300	Add Flow / Climate Change (%)	0
Ratio R	0.409	Minimum Backdrop Height (m)	0.200
Maximum Rainfall (mm/hr)	50	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 Network 4

PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)	Section Type	Auto Design
1.000	31.977	0.605	52.9	0.000	5.00	0.0	0.600	o	225	Pipe/Conduit	
1.001	14.537	0.510	28.5	0.081	0.00	0.0	0.600	o	300	Pipe/Conduit	
1.002	19.952	0.435	45.9	0.037	0.00	0.0	0.600	o	300	Pipe/Conduit	
2.000	27.936	0.414	67.5	0.154	5.00	0.0	0.600	o	300	Pipe/Conduit	
1.003	37.093	2.037	18.2	0.090	0.00	0.0	0.600	o	300	Pipe/Conduit	
3.000	37.536	0.260	144.4	0.184	5.00	0.0	0.600	o	450	Pipe/Conduit	
3.001	30.732	0.102	301.3	0.000	0.00	0.0	0.600	o	450	Pipe/Conduit	
1.004	38.768	0.078	497.0	0.185	0.00	0.0	0.600	o	600	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	50.00	5.30	99.970	0.000	0.0	0.0	0.0	1.80	71.7	0.0
1.001	50.00	5.38	99.290	0.081	0.0	0.0	0.0	2.96	209.0	11.0
1.002	50.00	5.52	98.780	0.118	0.0	0.0	0.0	2.33	164.5	16.0
2.000	50.00	5.24	98.759	0.154	0.0	0.0	0.0	1.92	135.5	20.8
1.003	50.00	5.69	98.345	0.362	0.0	0.0	0.0	3.70	261.7	49.0
3.000	50.00	5.37	96.520	0.184	0.0	0.0	0.0	1.69	268.8	25.0
3.001	50.00	5.81	96.260	0.184	0.0	0.0	0.0	1.17	185.4	25.0
1.004	50.00	6.40	96.008	0.731	0.0	0.0	0.0	1.09	306.9	99.0

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Network Design Table for Surface Network 4

PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)	Section Type	Auto Design
4.000	26.077	1.030	25.3	0.135	5.00	0.0	0.600	o	300	Pipe/Conduit	
4.001	32.208	0.740	43.5	0.000	0.00	0.0	0.600	o	300	Pipe/Conduit	
1.005	20.022	0.040	500.5	0.093	0.00	0.0	0.600	o	600	Pipe/Conduit	
5.000	56.434	0.554	101.9	0.104	5.00	0.0	0.600	o	375	Pipe/Conduit	
1.006	49.499	0.741	66.8	0.150	0.00	0.0	0.600	o	600	Pipe/Conduit	
1.007	21.990	0.044	499.8	0.159	0.00	0.0	0.600	o	675	Pipe/Conduit	
1.008	23.168	0.080	289.6	0.287	0.00	0.0	0.600	ooo	46	Pipe/Conduit	
1.009	87.576	0.210	417.0	0.086	0.00	0.0	0.600	o	675	Pipe/Conduit	
1.010	19.277	0.040	481.9	0.000	0.00	0.0	0.600	o	675	Pipe/Conduit	
1.011	41.556	0.083	500.7	0.000	0.00	0.0	0.600	o	675	Pipe/Conduit	
1.012	46.638	0.093	501.5	0.000	0.00	0.0	0.600	o	675	Pipe/Conduit	
6.000	37.185	0.390	95.3	0.153	5.00	0.0	0.600	o	375	Pipe/Conduit	
6.001	17.625	0.220	80.1	0.126	0.00	0.0	0.600	o	450	Pipe/Conduit	
6.002	42.117	0.170	247.7	0.031	0.00	0.0	0.600	o	450	Pipe/Conduit	
6.003	18.109	0.351	51.5	0.080	0.00	0.0	0.600	o	450	Pipe/Conduit	
7.000	31.269	0.131	238.0	0.170	5.00	0.0	0.600	o	300	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)
4.000	50.00	5.14	98.000	0.135	0.0	0.0	0.0	3.14	221.8	18.3
4.001	50.00	5.36	96.970	0.135	0.0	0.0	0.0	2.39	168.9	18.3
1.005	50.00	6.71	95.930	0.959	0.0	0.0	0.0	1.08	305.8	129.9
5.000	50.00	5.52	96.637	0.104	0.0	0.0	0.0	1.80	198.3	14.1
1.006	50.00	6.99	95.890	1.213	0.0	0.0	0.0	2.98	843.3	164.3
1.007	50.00	7.30	95.074	1.372	0.0	0.0	0.0	1.17	417.1	185.8
1.008	50.00	7.67	95.030	1.659	0.0	0.0	0.0	1.06	350.5	224.6
1.009	50.00	8.81	94.950	1.745	0.0	0.0	0.0	1.28	457.0	236.2
1.010	50.00	9.08	94.740	1.745	0.0	0.0	0.0	1.19	424.8	236.2
1.011	49.78	9.68	94.700	1.745	0.0	0.0	0.0	1.16	416.7	236.2
1.012	48.03	10.35	94.617	1.745	0.0	0.0	0.0	1.16	416.4	236.2
6.000	50.00	5.33	96.725	0.153	0.0	0.0	0.0	1.86	205.0	20.7
6.001	50.00	5.46	96.260	0.278	0.0	0.0	0.0	2.27	361.5	37.7
6.002	50.00	6.01	96.040	0.310	0.0	0.0	0.0	1.29	204.7	41.9
6.003	50.00	6.11	95.870	0.390	0.0	0.0	0.0	2.84	451.2	52.8
7.000	50.00	5.51	95.800	0.170	0.0	0.0	0.0	1.01	71.7	23.0

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Network Design Table for Surface Network 4

PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)	Section Type	Auto Design
6.004	28.670	0.219	131.2	0.110	0.00	0.0	0.600	o	450	Pipe/Conduit	
6.005	32.335	0.240	134.7	0.032	0.00	0.0	0.600	o	450	Pipe/Conduit	
8.000	17.004	0.090	188.9	0.075	5.00	0.0	0.600	o	300	Pipe/Conduit	
6.006	31.219	0.150	208.1	0.125	0.00	0.0	0.600	o	450	Pipe/Conduit	
6.007	43.376	0.187	232.1	0.075	0.00	0.0	0.600	o	525	Pipe/Conduit	
6.008	13.526	0.040	337.0	0.152	0.00	0.0	0.600	o	600	Pipe/Conduit	
6.009	22.609	0.013	1739.2	0.028	0.00	0.0	0.600	o	600	Pipe/Conduit	
1.013	7.123	0.020	356.2	0.000	0.00	0.0	0.600	o	675	Pipe/Conduit	
1.014	12.463	0.050	249.3	0.000	0.00	0.0	0.600	o	675	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)
6.004	50.00	6.38	95.519	0.670	0.0	0.0	0.0	1.77	282.1	90.7
6.005	50.00	6.69	95.300	0.702	0.0	0.0	0.0	1.75	278.3	95.1
8.000	50.00	5.25	95.300	0.075	0.0	0.0	0.0	1.14	80.6	10.1
6.006	50.00	7.06	95.060	0.901	0.0	0.0	0.0	1.41	223.5	122.1
6.007	50.00	7.56	94.835	0.976	0.0	0.0	0.0	1.47	317.4	132.2
6.008	50.00	7.73	94.573	1.128	0.0	0.0	0.0	1.32	373.5	152.8
6.009	50.00	8.38	94.533	1.157	0.0	0.0	0.0	0.57	162.5	156.6
1.013	47.82	10.43	94.520	2.901	0.0	0.0	0.0	1.38	494.9	375.7
1.014	47.51	10.56	94.500	2.901	0.0	0.0	0.0	1.66	592.4	375.7

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Manhole Schedules for Surface Network 4

MH Name	MH CL (m)	MH Depth (m)	MH Connection	MH Diam.,L*W (mm)	Pipe Out PN	Pipe Out Invert Level (m)	Pipe Out Diameter (mm)	Pipes In PN	Pipes In Invert Level (m)	Pipes In Diameter (mm)	Backdrop (mm)
S1002	101.875	1.905	Open Manhole	1200	1.000	99.970	225				
S1003	100.931	1.641	Open Manhole	1200	1.001	99.290	300	1.000	99.365	225	
S1004	100.387	1.607	Open Manhole	1200	1.002	98.780	300	1.001	98.780	300	
S1005	100.235	1.476	Open Manhole	1200	2.000	98.759	300				
S1006	99.762	1.417	Open Manhole	1500	1.003	98.345	300	1.002	98.345	300	
								2.000	98.345	300	
S1007	98.496	1.976	Open Manhole	1500	3.000	96.520	450				
S1008	98.979	2.719	Open Manhole	1350	3.001	96.260	450	3.000	96.260	450	
S1009	99.036	3.028	Open Manhole	1500	1.004	96.008	600	1.003	96.308	300	
								3.001	96.158	450	
S1010	99.556	1.556	Open Manhole	1500	4.000	98.000	300				
S1011	98.953	1.983	Open Manhole	1200	4.001	96.970	300	4.000	96.970	300	
S1012	98.341	2.411	Open Manhole	1500	1.005	95.930	600	1.004	95.930	600	
								4.001	96.230	300	
S1013	98.038	1.401	Open Manhole	1500	5.000	96.637	375				
S1014	98.080	2.190	Open Manhole	1500	1.006	95.890	600	1.005	95.890	600	
								5.000	96.083	375	
S1015	97.434	2.360	Open Manhole	1500	1.007	95.074	675	1.006	95.149	600	
S1016	97.732	2.702	Open Manhole	3000	1.008	95.030	46	1.007	95.030	675	
S1017	97.642	2.692	Open Manhole	3000	1.009	94.950	675	1.008	94.950	46	
S1019	97.500	2.760	Open Manhole	1500	1.010	94.740	675	1.009	94.740	675	
S1020	97.500	2.800	Open Manhole	1500	1.011	94.700	675	1.010	94.700	675	
1018	97.500	2.883	Open Manhole	1500	1.012	94.617	675	1.011	94.617	675	
S8143	98.492	1.767	Open Manhole	1200	6.000	96.725	375				
S8130	98.083	1.823	Open Manhole	1350	6.001	96.260	450	6.000	96.335	375	
S8158	97.806	1.766	Open Manhole	1350	6.002	96.040	450	6.001	96.040	450	
S8129	97.755	1.885	Open Manhole	1500	6.003	95.870	450	6.002	95.870	450	
S4004	97.322	1.522	Open Manhole	1200	7.000	95.800	300				
S4005	97.515	1.997	Open Manhole	1500	6.004	95.519	450	6.003	95.519	450	
								7.000	95.669	300	
S8122	97.197	1.897	Open Manhole	1350	6.005	95.300	450	6.004	95.300	450	
S8126	96.797	1.497	Open Manhole	1200	8.000	95.300	300				
S8123	96.866	1.806	Open Manhole	1350	6.006	95.060	450	6.005	95.060	450	
								8.000	95.210	300	
S8125	96.574	1.739	Open Manhole	1500	6.007	94.835	525	6.006	94.910	450	
S4020	96.144	1.570	Open Manhole	1500	6.008	94.573	600	6.007	94.648	525	
S4021	96.020	1.487	Open Manhole	1950	6.009	94.533	600	6.008	94.533	600	

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Manhole Schedules for Surface Network 4

MH Name	MH CL (m)	MH Depth (m)	MH Connection	MH Diam.,L*W (mm)	Pipe Out PN	Pipe Out Invert Level (m)	Pipe Out Diameter (mm)	Pipes In PN	Pipes In Invert Level (m)	Pipes In Diameter (mm)	Backdrop (mm)
S4022	96.020	1.500	Open Manhole	1950	1.013	94.520	675	1.012	94.524	675	4
								6.009	94.520	600	
S4023	96.020	1.520	Open Manhole	3000	1.014	94.500	675	1.013	94.500	675	
S4024	95.700	1.250	Open Manhole	1500		OUTFALL		1.014	94.450	675	

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PIPELINE SCHEDULES for Surface Network 4

Upstream Manhole

PN	Hyd Sect	Diam (mm)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
1.000	o	225	S1002	101.875	99.970	1.680	Open Manhole	1200
1.001	o	300	S1003	100.931	99.290	1.341	Open Manhole	1200
1.002	o	300	S1004	100.387	98.780	1.307	Open Manhole	1200
2.000	o	300	S1005	100.235	98.759	1.176	Open Manhole	1200
1.003	o	300	S1006	99.762	98.345	1.117	Open Manhole	1500
3.000	o	450	S1007	98.496	96.520	1.526	Open Manhole	1500
3.001	o	450	S1008	98.979	96.260	2.269	Open Manhole	1350
1.004	o	600	S1009	99.036	96.008	2.428	Open Manhole	1500
4.000	o	300	S1010	99.556	98.000	1.256	Open Manhole	1500
4.001	o	300	S1011	98.953	96.970	1.683	Open Manhole	1200
1.005	o	600	S1012	98.341	95.930	1.811	Open Manhole	1500
5.000	o	375	S1013	98.038	96.637	1.026	Open Manhole	1500

Downstream Manhole

PN	Length (m)	Slope (1:X)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
1.000	31.977	52.9	S1003	100.931	99.365	1.341	Open Manhole	1200
1.001	14.537	28.5	S1004	100.387	98.780	1.307	Open Manhole	1200
1.002	19.952	45.9	S1006	99.762	98.345	1.117	Open Manhole	1500
2.000	27.936	67.5	S1006	99.762	98.345	1.117	Open Manhole	1500
1.003	37.093	18.2	S1009	99.036	96.308	2.428	Open Manhole	1500
3.000	37.536	144.4	S1008	98.979	96.260	2.269	Open Manhole	1350
3.001	30.732	301.3	S1009	99.036	96.158	2.428	Open Manhole	1500
1.004	38.768	497.0	S1012	98.341	95.930	1.811	Open Manhole	1500
4.000	26.077	25.3	S1011	98.953	96.970	1.683	Open Manhole	1200
4.001	32.208	43.5	S1012	98.341	96.230	1.811	Open Manhole	1500
1.005	20.022	500.5	S1014	98.080	95.890	1.590	Open Manhole	1500
5.000	56.434	101.9	S1014	98.080	96.083	1.622	Open Manhole	1500

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PIPELINE SCHEDULES for Surface Network 4

Upstream Manhole

PN	Hyd Sect	Diam (mm)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
1.006	o	600	S1014	98.080	95.890	1.590	Open Manhole	1500
1.007	o	675	S1015	97.434	95.074	1.685	Open Manhole	1500
1.008	ooo	46	S1016	97.732	95.030	2.327	Open Manhole	3000
1.009	o	675	S1017	97.642	94.950	2.017	Open Manhole	3000
1.010	o	675	S1019	97.500	94.740	2.085	Open Manhole	1500
1.011	o	675	S1020	97.500	94.700	2.125	Open Manhole	1500
1.012	o	675	1018	97.500	94.617	2.208	Open Manhole	1500
6.000	o	375	S8143	98.492	96.725	1.392	Open Manhole	1200
6.001	o	450	S8130	98.083	96.260	1.373	Open Manhole	1350
6.002	o	450	S8158	97.806	96.040	1.316	Open Manhole	1350
6.003	o	450	S8129	97.755	95.870	1.435	Open Manhole	1500
7.000	o	300	S4004	97.322	95.800	1.222	Open Manhole	1200
6.004	o	450	S4005	97.515	95.519	1.547	Open Manhole	1500
6.005	o	450	S8122	97.197	95.300	1.447	Open Manhole	1350
8.000	o	300	S8126	96.797	95.300	1.197	Open Manhole	1200

Downstream Manhole

PN	Length (m)	Slope (1:X)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
1.006	49.499	66.8	S1015	97.434	95.149	1.685	Open Manhole	1500
1.007	21.990	499.8	S1016	97.732	95.030	2.027	Open Manhole	3000
1.008	23.168	289.6	S1017	97.642	94.950	2.317	Open Manhole	3000
1.009	87.576	417.0	S1019	97.500	94.740	2.085	Open Manhole	1500
1.010	19.277	481.9	S1020	97.500	94.700	2.125	Open Manhole	1500
1.011	41.556	500.7	1018	97.500	94.617	2.208	Open Manhole	1500
1.012	46.638	501.5	S4022	96.020	94.524	0.821	Open Manhole	1950
6.000	37.185	95.3	S8130	98.083	96.335	1.373	Open Manhole	1350
6.001	17.625	80.1	S8158	97.806	96.040	1.316	Open Manhole	1350
6.002	42.117	247.7	S8129	97.755	95.870	1.435	Open Manhole	1500
6.003	18.109	51.5	S4005	97.515	95.519	1.547	Open Manhole	1500
7.000	31.269	238.0	S4005	97.515	95.669	1.547	Open Manhole	1500
6.004	28.670	131.2	S8122	97.197	95.300	1.447	Open Manhole	1350
6.005	32.335	134.7	S8123	96.866	95.060	1.356	Open Manhole	1350
8.000	17.004	188.9	S8123	96.866	95.210	1.356	Open Manhole	1350

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PIPELINE SCHEDULES for Surface Network 4

Upstream Manhole

PN	Hyd Sect	Diam (mm)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
6.006	o	450	S8123	96.866	95.060	1.356	Open Manhole	1350
6.007	o	525	S8125	96.574	94.835	1.214	Open Manhole	1500
6.008	o	600	S4020	96.144	94.573	0.970	Open Manhole	1500
6.009	o	600	S4021	96.020	94.533	0.887	Open Manhole	1950
1.013	o	675	S4022	96.020	94.520	0.825	Open Manhole	1950
1.014	o	675	S4023	96.020	94.500	0.845	Open Manhole	3000

Downstream Manhole

PN	Length (m)	Slope (1:X)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
6.006	31.219	208.1	S8125	96.574	94.910	1.214	Open Manhole	1500
6.007	43.376	232.1	S4020	96.144	94.648	0.970	Open Manhole	1500
6.008	13.526	337.0	S4021	96.020	94.533	0.887	Open Manhole	1950
6.009	22.609	1739.2	S4022	96.020	94.520	0.900	Open Manhole	1950
1.013	7.123	356.2	S4023	96.020	94.500	0.845	Open Manhole	3000
1.014	12.463	249.3	S4024	95.700	94.450	0.575	Open Manhole	1500

Free Flowing Outfall Details for Surface Network 4

Outfall Pipe Number	Outfall Name	C. Level (m)	I. Level (m)	Min I. Level (m)	D,L (mm)	W (mm)
1.014	S4024	95.700	94.450	0.000	1500	0

Simulation Criteria for Surface Network 4

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

Synthetic Rainfall Details

Rainfall Model FSR Return Period (years) 2

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Synthetic Rainfall Details

Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.300	Cv (Winter)	0.840
Ratio R	0.409	Storm Duration (mins)	30
Profile Type	Summer		

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Online Controls for Surface Network 4

Hydro-Brake® Optimum Manhole: S4023, DS/PN: 1.014, Volume (m³): 12.4

Unit Reference	MD-SHE-0117-7100-1500-7100
Design Head (m)	1.500
Design Flow (l/s)	7.1
Flush-Flo™	Calculated
Objective	Minimise upstream storage
Application	Surface
Sump Available	Yes
Diameter (mm)	117
Invert Level (m)	94.500
Minimum Outlet Pipe Diameter (mm)	150
Suggested Manhole Diameter (mm)	1200

Control Points	Head (m)	Flow (l/s)	Control Points	Head (m)	Flow (l/s)
Design Point (Calculated)	1.500	7.1	Kick-Flo®	0.921	5.7
Flush-Flo™	0.442	7.1	Mean Flow over Head Range	-	6.2

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	4.1	1.200	6.4	3.000	9.8	7.000	14.7
0.200	6.4	1.400	6.9	3.500	10.6	7.500	15.2
0.300	6.9	1.600	7.3	4.000	11.3	8.000	15.7
0.400	7.1	1.800	7.7	4.500	11.9	8.500	16.1
0.500	7.1	2.000	8.1	5.000	12.5	9.000	16.6
0.600	7.0	2.200	8.5	5.500	13.1	9.500	17.0
0.800	6.4	2.400	8.8	6.000	13.7		
1.000	5.9	2.600	9.2	6.500	14.2		

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Storage Structures for Surface Network 4

Tank or Pond Manhole: S4023, DS/PN: 1.014

Invert Level (m) 94.500

Depth (m)	Area (m²)	Depth (m)	Area (m²)	Depth (m)	Area (m²)	Depth (m)	Area (m²)
0.000	1122.6	0.501	1474.0	1.001	1851.6	1.501	2255.3
0.101	1190.8	0.601	1547.4	1.101	1930.2	1.601	2339.2
0.201	1260.0	0.701	1621.9	1.201	2009.9	1.700	2423.3
0.301	1330.3	0.801	1697.4	1.301	2090.7	1.701	2424.1
0.401	1401.6	0.901	1774.0	1.401	2172.5		

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Summary Wizard of 15 minute 1 year Summer I+0% for Surface Network 4

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.409
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.300	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 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	S1002	48	99.970	-0.225	0.000	0.00		0.0	OK
1.001	S1003	22	99.333	-0.257	0.000	0.05		8.9	OK
1.002	S1004	22	98.841	-0.239	0.000	0.09		12.9	OK
2.000	S1005	20	98.840	-0.219	0.000	0.16		19.8	OK
1.003	S1006	20	98.430	-0.215	0.000	0.17		42.3	OK
3.000	S1007	20	96.615	-0.355	0.000	0.10		23.4	OK
3.001	S1008	20	96.377	-0.333	0.000	0.14		23.0	OK
1.004	S1009	21	96.294	-0.314	0.000	0.31		80.8	OK
4.000	S1010	20	98.060	-0.240	0.000	0.09		17.5	OK
4.001	S1011	20	97.037	-0.233	0.000	0.11		17.3	OK
1.005	S1012	22	96.234	-0.296	0.000	0.51		104.3	OK
5.000	S1013	20	96.704	-0.308	0.000	0.07		13.4	OK
1.006	S1014	22	96.058	-0.432	0.000	0.17		128.9	OK
1.007	S1015	34	95.408	-0.341	0.000	0.49		141.8	OK
1.008	S1016	35	95.284	-0.121	0.000	0.54		161.9	OK
1.009	S1017	37	95.247	-0.378	0.000	0.38		158.4	OK
1.010	S1019	52	95.119	-0.296	0.000	0.51		140.6	OK
1.011	S1020	52	95.075	-0.300	0.000	0.39		137.0	OK
1.012	1018	52	95.016	-0.276	0.000	0.38		134.7	OK
6.000	S8143	20	96.807	-0.293	0.000	0.11		19.5	OK

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Summary Wizard of 15 minute 1 year Summer I+0% for Surface Network 4

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
6.001	S8130	20	96.366	-0.344	0.000	0.13		33.1	OK
6.002	S8158	20	96.177	-0.313	0.000	0.20		36.2	OK
6.003	S8129	20	95.978	-0.342	0.000	0.13		44.3	OK
7.000	S4004	20	95.920	-0.180	0.000	0.33		21.8	OK
6.004	S4005	25	95.693	-0.275	0.000	0.32		77.1	OK
6.005	S8122	33	95.479	-0.271	0.000	0.33		79.7	OK
8.000	S8126	33	95.375	-0.225	0.000	0.14		9.6	OK
6.006	S8123	33	95.291	-0.219	0.000	0.52		99.5	OK
6.007	S8125	50	95.079	-0.281	0.000	0.37		102.0	OK
6.008	S4020	52	95.013	-0.161	0.000	0.44		106.0	OK
6.009	S4021	52	94.999	-0.134	0.000	0.94		105.0	OK
1.013	S4022	52	94.965	-0.230	0.000	0.81		196.1	OK
1.014	S4023	72	94.634	-0.541	0.000	0.01		3.7	OK

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Summary Wizard of 30 minute 1 year Summer I+0% for Surface Network 4

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.409
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.300	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 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	S1002	49	99.970	-0.225	0.000	0.00		0.0	OK
1.001	S1003	25	99.332	-0.258	0.000	0.05		8.2	OK
1.002	S1004	25	98.838	-0.242	0.000	0.08		12.0	OK
2.000	S1005	21	98.835	-0.224	0.000	0.15		17.8	OK
1.003	S1006	23	98.425	-0.220	0.000	0.16		38.8	OK
3.000	S1007	21	96.611	-0.359	0.000	0.09		21.3	OK
3.001	S1008	23	96.369	-0.341	0.000	0.13		20.9	OK
1.004	S1009	25	96.280	-0.328	0.000	0.29		75.9	OK
4.000	S1010	21	98.056	-0.244	0.000	0.08		15.7	OK
4.001	S1011	21	97.034	-0.236	0.000	0.10		15.7	OK
1.005	S1012	25	96.222	-0.308	0.000	0.47		97.7	OK
5.000	S1013	21	96.699	-0.313	0.000	0.07		12.1	OK
1.006	S1014	25	96.053	-0.437	0.000	0.16		121.6	OK
1.007	S1015	36	95.396	-0.353	0.000	0.46		134.3	OK
1.008	S1016	37	95.278	-0.127	0.000	0.52		156.0	OK
1.009	S1017	38	95.245	-0.380	0.000	0.37		154.2	OK
1.010	S1019	51	95.119	-0.296	0.000	0.51		138.9	OK
1.011	S1020	51	95.077	-0.298	0.000	0.39		136.1	OK
1.012	1018	51	95.019	-0.273	0.000	0.38		134.4	OK
6.000	S8143	21	96.802	-0.298	0.000	0.10		17.7	OK

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Summary Wizard of 30 minute 1 year Summer I+0% for Surface Network 4

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
6.001	S8130	23	96.361	-0.349	0.000	0.12		30.4	OK
6.002	S8158	23	96.170	-0.320	0.000	0.18		33.2	OK
6.003	S8129	23	95.975	-0.345	0.000	0.12		41.0	OK
7.000	S4004	21	95.912	-0.188	0.000	0.30		19.7	OK
6.004	S4005	28	95.686	-0.283	0.000	0.30		71.2	OK
6.005	S8122	34	95.470	-0.280	0.000	0.30		73.5	OK
8.000	S8126	34	95.370	-0.230	0.000	0.13		8.7	OK
6.006	S8123	34	95.281	-0.229	0.000	0.48		92.7	OK
6.007	S8125	52	95.071	-0.289	0.000	0.34		95.9	OK
6.008	S4020	51	95.016	-0.157	0.000	0.42		101.6	OK
6.009	S4021	51	95.003	-0.130	0.000	0.88		99.2	OK
1.013	S4022	51	94.970	-0.225	0.000	0.83		201.0	OK
1.014	S4023	70	94.670	-0.505	0.000	0.01		4.9	OK

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Summary Wizard of 60 minute 1 year Summer I+0% for Surface Network 4

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.409
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.300	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 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	S1002	46	99.970	-0.225	0.000	0.00		0.0	OK
1.001	S1003	30	99.327	-0.263	0.000	0.04		6.4	OK
1.002	S1004	30	98.830	-0.250	0.000	0.07		9.4	OK
2.000	S1005	28	98.824	-0.235	0.000	0.11		13.0	OK
1.003	S1006	30	98.415	-0.230	0.000	0.12		29.1	OK
3.000	S1007	28	96.595	-0.375	0.000	0.06		15.3	OK
3.001	S1008	28	96.354	-0.356	0.000	0.10		15.4	OK
1.004	S1009	30	96.243	-0.365	0.000	0.23		58.7	OK
4.000	S1010	28	98.047	-0.253	0.000	0.06		11.4	OK
4.001	S1011	28	97.024	-0.246	0.000	0.07		11.2	OK
1.005	S1012	30	96.183	-0.347	0.000	0.36		75.1	OK
5.000	S1013	28	96.690	-0.322	0.000	0.05		8.6	OK
1.006	S1014	30	96.034	-0.456	0.000	0.13		94.3	OK
1.007	S1015	39	95.359	-0.390	0.000	0.37		106.9	OK
1.008	S1016	40	95.251	-0.154	0.000	0.42		126.7	OK
1.009	S1017	44	95.219	-0.406	0.000	0.30		126.7	OK
1.010	S1019	53	95.089	-0.326	0.000	0.43		118.3	OK
1.011	S1020	53	95.046	-0.329	0.000	0.34		118.0	OK
1.012	1018	53	94.991	-0.301	0.000	0.33		116.7	OK
6.000	S8143	28	96.790	-0.310	0.000	0.07		12.7	OK

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Summary Wizard of 60 minute 1 year Summer I+0% for Surface Network 4

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
6.001	S8130	29	96.349	-0.361	0.000	0.09		22.6	OK
6.002	S8158	29	96.151	-0.339	0.000	0.14		25.3	OK
6.003	S8129	30	95.963	-0.357	0.000	0.09		31.7	OK
7.000	S4004	28	95.896	-0.204	0.000	0.22		14.1	OK
6.004	S4005	36	95.664	-0.305	0.000	0.23		54.6	OK
6.005	S8122	39	95.447	-0.303	0.000	0.24		56.9	OK
8.000	S8126	38	95.361	-0.239	0.000	0.09		6.3	OK
6.006	S8123	39	95.251	-0.259	0.000	0.37		72.0	OK
6.007	S8125	53	95.044	-0.316	0.000	0.27		76.0	OK
6.008	S4020	53	94.989	-0.184	0.000	0.34		81.2	OK
6.009	S4021	53	94.978	-0.155	0.000	0.72		80.5	OK
1.013	S4022	53	94.945	-0.250	0.000	0.74		179.1	OK
1.014	S4023	68	94.708	-0.467	0.000	0.02		6.1	OK

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Summary Wizard of 120 minute 1 year Summer I+0% for Surface Network 4

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.409
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.300	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 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	S1002	47	99.970	-0.225	0.000	0.00		0.0	OK
1.001	S1003	38	99.322	-0.268	0.000	0.03		4.5	OK
1.002	S1004	38	98.821	-0.259	0.000	0.05		6.6	OK
2.000	S1005	38	98.811	-0.248	0.000	0.07		8.6	OK
1.003	S1006	38	98.403	-0.242	0.000	0.08		20.0	OK
3.000	S1007	38	96.580	-0.390	0.000	0.04		10.2	OK
3.001	S1008	38	96.334	-0.376	0.000	0.06		10.2	OK
1.004	S1009	38	96.199	-0.409	0.000	0.15		39.9	OK
4.000	S1010	38	98.038	-0.262	0.000	0.04		7.5	OK
4.001	S1011	38	97.012	-0.258	0.000	0.05		7.5	OK
1.005	S1012	38	96.137	-0.393	0.000	0.25		51.7	OK
5.000	S1013	38	96.680	-0.332	0.000	0.03		5.8	OK
1.006	S1014	38	96.012	-0.478	0.000	0.09		65.3	OK
1.007	S1015	44	95.308	-0.441	0.000	0.25		73.2	OK
1.008	S1016	49	95.207	-0.198	0.000	0.29		87.0	OK
1.009	S1017	50	95.173	-0.452	0.000	0.22		91.8	OK
1.010	S1019	55	95.035	-0.380	0.000	0.32		88.7	OK
1.011	S1020	55	94.992	-0.383	0.000	0.25		86.5	OK
1.012	1018	55	94.933	-0.359	0.000	0.25		87.9	OK
6.000	S8143	38	96.776	-0.324	0.000	0.05		8.5	OK

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Summary Wizard of 120 minute 1 year Summer I+0% for Surface Network 4

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
6.001	S8130	38	96.330	-0.380	0.000	0.06		15.5	OK
6.002	S8158	38	96.133	-0.357	0.000	0.09		17.0	OK
6.003	S8129	38	95.944	-0.376	0.000	0.06		21.4	OK
7.000	S4004	38	95.876	-0.224	0.000	0.14		9.4	OK
6.004	S4005	44	95.636	-0.332	0.000	0.15		36.7	OK
6.005	S8122	44	95.421	-0.329	0.000	0.16		38.1	OK
8.000	S8126	44	95.348	-0.252	0.000	0.06		4.2	OK
6.006	S8123	48	95.215	-0.295	0.000	0.25		48.8	OK
6.007	S8125	55	95.001	-0.359	0.000	0.19		52.0	OK
6.008	S4020	55	94.928	-0.245	0.000	0.23		56.7	OK
6.009	S4021	55	94.919	-0.214	0.000	0.51		57.5	OK
1.013	S4022	55	94.888	-0.307	0.000	0.57		139.5	OK
1.014	S4023	66	94.744	-0.431	0.000	0.02		6.5	OK

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Summary Wizard of 180 minute 1 year Summer I+0% for Surface Network 4

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.409
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.300	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 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	S1002	50	99.970	-0.225	0.000	0.00		0.0	OK
1.001	S1003	45	99.319	-0.271	0.000	0.02		3.5	OK
1.002	S1004	45	98.817	-0.263	0.000	0.04		5.1	OK
2.000	S1005	44	98.805	-0.254	0.000	0.06		6.9	OK
1.003	S1006	44	98.395	-0.250	0.000	0.07		15.8	OK
3.000	S1007	44	96.574	-0.396	0.000	0.03		8.2	OK
3.001	S1008	44	96.325	-0.385	0.000	0.05		8.1	OK
1.004	S1009	44	96.177	-0.431	0.000	0.12		31.5	OK
4.000	S1010	44	98.034	-0.266	0.000	0.03		6.0	OK
4.001	S1011	44	97.008	-0.262	0.000	0.04		6.0	OK
1.005	S1012	44	96.114	-0.416	0.000	0.20		41.7	OK
5.000	S1013	44	96.677	-0.335	0.000	0.03		4.6	OK
1.006	S1014	44	95.996	-0.494	0.000	0.07		52.6	OK
1.007	S1015	48	95.280	-0.469	0.000	0.20		59.5	OK
1.008	S1016	53	95.181	-0.224	0.000	0.24		71.3	OK
1.009	S1017	56	95.148	-0.477	0.000	0.18		73.1	OK
1.010	S1019	57	94.999	-0.416	0.000	0.26		72.1	OK
1.011	S1020	57	94.956	-0.419	0.000	0.20		71.1	OK
1.012	1018	57	94.894	-0.398	0.000	0.20		71.5	OK
6.000	S8143	44	96.771	-0.329	0.000	0.04		6.8	OK

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Summary Wizard of 180 minute 1 year Summer I+0% for Surface Network 4

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
6.001	S8130	44	96.322	-0.388	0.000	0.05		12.2	OK
6.002	S8158	44	96.121	-0.369	0.000	0.07		13.4	OK
6.003	S8129	44	95.935	-0.385	0.000	0.05		16.8	OK
7.000	S4004	44	95.868	-0.232	0.000	0.12		7.5	OK
6.004	S4005	47	95.623	-0.346	0.000	0.12		28.9	OK
6.005	S8122	47	95.407	-0.343	0.000	0.13		30.4	OK
8.000	S8126	47	95.342	-0.258	0.000	0.05		3.3	OK
6.006	S8123	52	95.198	-0.312	0.000	0.20		39.1	OK
6.007	S8125	57	94.976	-0.384	0.000	0.15		42.3	OK
6.008	S4020	57	94.884	-0.289	0.000	0.20		47.3	OK
6.009	S4021	57	94.877	-0.256	0.000	0.42		47.5	OK
1.013	S4022	57	94.847	-0.348	0.000	0.47		115.2	OK
1.014	S4023	65	94.764	-0.411	0.000	0.02		6.6	OK

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Summary Wizard of 240 minute 1 year Summer I+0% for Surface Network 4

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.409
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.300	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 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	S1002	53	99.970	-0.225	0.000	0.00		0.0	OK
1.001	S1003	48	99.314	-0.276	0.000	0.02		3.0	OK
1.002	S1004	48	98.814	-0.266	0.000	0.03		4.3	OK
2.000	S1005	48	98.800	-0.259	0.000	0.05		5.6	OK
1.003	S1006	48	98.390	-0.255	0.000	0.05		13.2	OK
3.000	S1007	48	96.570	-0.400	0.000	0.03		6.7	OK
3.001	S1008	48	96.319	-0.391	0.000	0.04		6.7	OK
1.004	S1009	48	96.159	-0.449	0.000	0.10		26.4	OK
4.000	S1010	48	98.032	-0.268	0.000	0.02		4.9	OK
4.001	S1011	48	97.005	-0.265	0.000	0.03		4.9	OK
1.005	S1012	48	96.095	-0.435	0.000	0.17		34.4	OK
5.000	S1013	48	96.674	-0.338	0.000	0.02		3.8	OK
1.006	S1014	48	95.985	-0.505	0.000	0.06		43.5	OK
1.007	S1015	50	95.261	-0.488	0.000	0.17		49.0	OK
1.008	S1016	56	95.164	-0.241	0.000	0.20		58.7	OK
1.009	S1017	58	95.128	-0.497	0.000	0.15		61.9	OK
1.010	S1019	58	94.976	-0.439	0.000	0.22		60.7	OK
1.011	S1020	58	94.931	-0.444	0.000	0.17		60.3	OK
1.012	1018	58	94.867	-0.425	0.000	0.17		60.7	OK
6.000	S8143	48	96.768	-0.332	0.000	0.03		5.6	OK

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Summary Wizard of 240 minute 1 year Summer I+0% for Surface Network 4

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
6.001	S8130	48	96.317	-0.393	0.000	0.04		10.2	OK
6.002	S8158	48	96.112	-0.378	0.000	0.06		11.2	OK
6.003	S8129	48	95.929	-0.391	0.000	0.04		14.1	OK
7.000	S4004	48	95.862	-0.238	0.000	0.09		6.2	OK
6.004	S4005	50	95.614	-0.355	0.000	0.10		24.3	OK
6.005	S8122	50	95.397	-0.353	0.000	0.10		25.3	OK
8.000	S8126	50	95.338	-0.262	0.000	0.04		2.7	OK
6.006	S8123	55	95.184	-0.326	0.000	0.17		32.4	OK
6.007	S8125	58	94.960	-0.400	0.000	0.13		34.9	OK
6.008	S4020	58	94.855	-0.318	0.000	0.16		39.2	OK
6.009	S4021	58	94.848	-0.285	0.000	0.36		40.1	OK
1.013	S4022	64	94.818	-0.377	0.000	0.40		98.4	OK
1.014	S4023	63	94.776	-0.399	0.000	0.02		6.7	OK

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Summary Wizard of 360 minute 1 year Summer I+0% for Surface Network 4

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.409
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.300	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 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	S1002	54	99.970	-0.225	0.000	0.00		0.0	OK
1.001	S1003	55	99.308	-0.282	0.000	0.01		2.2	OK
1.002	S1004	55	98.811	-0.269	0.000	0.02		3.2	OK
2.000	S1005	55	98.795	-0.264	0.000	0.03		4.2	OK
1.003	S1006	55	98.384	-0.261	0.000	0.04		9.9	OK
3.000	S1007	55	96.565	-0.405	0.000	0.02		5.0	OK
3.001	S1008	55	96.312	-0.398	0.000	0.03		5.0	OK
1.004	S1009	55	96.138	-0.470	0.000	0.08		19.9	OK
4.000	S1010	55	98.026	-0.274	0.000	0.02		3.7	OK
4.001	S1011	55	97.001	-0.269	0.000	0.02		3.7	OK
1.005	S1012	55	96.071	-0.459	0.000	0.13		26.1	OK
5.000	S1013	55	96.664	-0.348	0.000	0.02		2.9	OK
1.006	S1014	55	95.971	-0.519	0.000	0.04		33.1	OK
1.007	S1015	56	95.234	-0.515	0.000	0.13		37.3	OK
1.008	S1016	60	95.143	-0.262	0.000	0.15		45.1	OK
1.009	S1017	60	95.104	-0.521	0.000	0.11		46.7	OK
1.010	S1019	61	94.945	-0.470	0.000	0.17		46.6	OK
1.011	S1020	61	94.898	-0.477	0.000	0.13		46.7	OK
1.012	1018	66	94.830	-0.462	0.000	0.13		46.7	OK
6.000	S8143	55	96.763	-0.337	0.000	0.02		4.2	OK

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Summary Wizard of 360 minute 1 year Summer I+0% for Surface Network 4

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
6.001	S8130	55	96.310	-0.400	0.000	0.03		7.6	OK
6.002	S8158	55	96.102	-0.388	0.000	0.05		8.5	OK
6.003	S8129	55	95.922	-0.398	0.000	0.03		10.6	OK
7.000	S4004	55	95.852	-0.248	0.000	0.07		4.7	OK
6.004	S4005	56	95.600	-0.368	0.000	0.08		18.3	OK
6.005	S8122	56	95.384	-0.366	0.000	0.08		19.1	OK
8.000	S8126	56	95.334	-0.266	0.000	0.03		2.0	OK
6.006	S8123	59	95.166	-0.344	0.000	0.13		24.6	OK
6.007	S8125	60	94.943	-0.417	0.000	0.10		26.6	OK
6.008	S4020	67	94.814	-0.359	0.000	0.13		30.2	OK
6.009	S4021	67	94.808	-0.325	0.000	0.27		30.6	OK
1.013	S4022	72	94.790	-0.405	0.000	0.32		76.6	OK
1.014	S4023	62	94.790	-0.385	0.000	0.02		6.8	OK

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Summary Wizard of 480 minute 1 year Summer I+0% for Surface Network 4

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.409
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.300	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 40

PN	US/MH Name	Storm	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S1002	51	99.970	-0.225	0.000	0.00		0.0	OK
1.001	S1003	59	99.305	-0.285	0.000	0.01		1.8	OK
1.002	S1004	59	98.806	-0.274	0.000	0.02		2.6	OK
2.000	S1005	59	98.792	-0.267	0.000	0.03		3.4	OK
1.003	S1006	59	98.380	-0.265	0.000	0.03		8.0	OK
3.000	S1007	59	96.557	-0.413	0.000	0.02		4.1	OK
3.001	S1008	59	96.308	-0.402	0.000	0.03		4.1	OK
1.004	S1009	59	96.125	-0.483	0.000	0.06		16.2	OK
4.000	S1010	59	98.021	-0.279	0.000	0.02		3.0	OK
4.001	S1011	59	96.998	-0.272	0.000	0.02		3.0	OK
1.005	S1012	59	96.058	-0.472	0.000	0.10		21.2	OK
5.000	S1013	59	96.659	-0.353	0.000	0.01		2.3	OK
1.006	S1014	59	95.964	-0.526	0.000	0.04		26.8	OK
1.007	S1015	61	95.219	-0.530	0.000	0.10		30.3	OK
1.008	S1016	62	95.128	-0.277	0.000	0.12		36.7	OK
1.009	S1017	62	95.089	-0.536	0.000	0.09		38.5	OK
1.010	S1019	62	94.923	-0.492	0.000	0.14		38.2	OK
1.011	S1020	62	94.877	-0.498	0.000	0.11		37.8	OK
1.012	1018	68	94.807	-0.485	0.000	0.11		38.1	OK
6.000	S8143	59	96.757	-0.343	0.000	0.02		3.4	OK

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Summary Wizard of 480 minute 1 year Summer I+0% for Surface Network 4

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
6.001	S8130	59	96.306	-0.404	0.000	0.02		6.2	OK
6.002	S8158	59	96.096	-0.394	0.000	0.04		6.9	OK
6.003	S8129	59	95.918	-0.402	0.000	0.03		8.6	OK
7.000	S4004	59	95.846	-0.254	0.000	0.06		3.8	OK
6.004	S4005	59	95.591	-0.378	0.000	0.06		14.8	OK
6.005	S8122	59	95.374	-0.376	0.000	0.06		15.5	OK
8.000	S8126	59	95.331	-0.269	0.000	0.02		1.7	OK
6.006	S8123	61	95.156	-0.354	0.000	0.10		19.9	OK
6.007	S8125	62	94.931	-0.429	0.000	0.08		21.6	OK
6.008	S4020	72	94.796	-0.377	0.000	0.10		24.7	OK
6.009	S4021	72	94.796	-0.337	0.000	0.22		25.2	OK
1.013	S4022	71	94.795	-0.400	0.000	0.26		62.7	OK
1.014	S4023	61	94.795	-0.380	0.000	0.02		6.8	OK

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Summary Wizard of 600 minute 1 year Summer I+0% for Surface Network 4

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.409
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.300	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 40

PN	US/MH Name	Storm	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S1002	52	99.970	-0.225	0.000	0.00		0.0	OK
1.001	S1003	63	99.302	-0.288	0.000	0.01		1.5	OK
1.002	S1004	63	98.802	-0.278	0.000	0.02		2.2	OK
2.000	S1005	63	98.790	-0.269	0.000	0.02		2.9	OK
1.003	S1006	63	98.378	-0.267	0.000	0.03		6.8	OK
3.000	S1007	63	96.551	-0.419	0.000	0.01		3.5	OK
3.001	S1008	63	96.305	-0.405	0.000	0.02		3.5	OK
1.004	S1009	63	96.115	-0.493	0.000	0.05		13.7	OK
4.000	S1010	63	98.018	-0.282	0.000	0.01		2.5	OK
4.001	S1011	63	96.993	-0.277	0.000	0.02		2.5	OK
1.005	S1012	63	96.049	-0.481	0.000	0.09		18.0	OK
5.000	S1013	63	96.656	-0.356	0.000	0.01		2.0	OK
1.006	S1014	63	95.959	-0.531	0.000	0.03		22.8	OK
1.007	S1015	64	95.209	-0.540	0.000	0.09		25.7	OK
1.008	S1016	64	95.117	-0.288	0.000	0.10		31.1	OK
1.009	S1017	64	95.076	-0.549	0.000	0.08		32.5	OK
1.010	S1019	64	94.907	-0.508	0.000	0.12		32.3	OK
1.011	S1020	64	94.861	-0.514	0.000	0.09		32.1	OK
1.012	1018	72	94.801	-0.491	0.000	0.09		32.4	OK
6.000	S8143	63	96.752	-0.348	0.000	0.02		2.9	OK

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Summary Wizard of 600 minute 1 year Summer I+0% for Surface Network 4

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
6.001	S8130	63	96.302	-0.408	0.000	0.02		5.2	OK
6.002	S8158	63	96.092	-0.398	0.000	0.03		5.8	OK
6.003	S8129	63	95.916	-0.404	0.000	0.02		7.3	OK
7.000	S4004	63	95.842	-0.258	0.000	0.05		3.2	OK
6.004	S4005	63	95.584	-0.384	0.000	0.05		12.6	OK
6.005	S8122	63	95.367	-0.383	0.000	0.05		13.2	OK
8.000	S8126	63	95.329	-0.271	0.000	0.02		1.4	OK
6.006	S8123	64	95.149	-0.361	0.000	0.09		16.9	OK
6.007	S8125	64	94.922	-0.438	0.000	0.07		18.3	OK
6.008	S4020	71	94.801	-0.372	0.000	0.09		21.1	OK
6.009	S4021	71	94.801	-0.332	0.000	0.19		21.5	OK
1.013	S4022	70	94.800	-0.395	0.000	0.22		53.1	OK
1.014	S4023	59	94.800	-0.375	0.000	0.02		6.8	OK

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Summary Wizard of 720 minute 1 year Summer I+0% for Surface Network 4

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.409
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.300	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 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	S1002	39	99.970	-0.225	0.000	0.00		0.0	OK
1.001	S1003	65	99.301	-0.289	0.000	0.01		1.3	OK
1.002	S1004	65	98.799	-0.281	0.000	0.01		1.9	OK
2.000	S1005	65	98.788	-0.271	0.000	0.02		2.5	OK
1.003	S1006	65	98.377	-0.268	0.000	0.02		5.9	OK
3.000	S1007	65	96.547	-0.423	0.000	0.01		3.0	OK
3.001	S1008	65	96.300	-0.410	0.000	0.02		3.0	OK
1.004	S1009	65	96.106	-0.502	0.000	0.05		12.0	OK
4.000	S1010	65	98.016	-0.284	0.000	0.01		2.2	OK
4.001	S1011	65	96.990	-0.280	0.000	0.01		2.2	OK
1.005	S1012	65	96.039	-0.491	0.000	0.08		15.7	OK
5.000	S1013	65	96.653	-0.359	0.000	0.01		1.7	OK
1.006	S1014	65	95.955	-0.535	0.000	0.03		19.9	OK
1.007	S1015	66	95.198	-0.551	0.000	0.08		22.5	OK
1.008	S1016	66	95.109	-0.296	0.000	0.09		27.2	OK
1.009	S1017	66	95.066	-0.559	0.000	0.07		28.5	OK
1.010	S1019	66	94.896	-0.519	0.000	0.10		28.4	OK
1.011	S1020	66	94.850	-0.525	0.000	0.08		28.3	OK
1.012	1018	69	94.805	-0.487	0.000	0.08		28.0	OK
6.000	S8143	65	96.749	-0.351	0.000	0.01		2.5	OK

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Summary Wizard of 720 minute 1 year Summer I+0% for Surface Network 4

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
6.001	S8130	65	96.297	-0.413	0.000	0.02		4.6	OK
6.002	S8158	65	96.089	-0.401	0.000	0.03		5.1	OK
6.003	S8129	65	95.911	-0.409	0.000	0.02		6.4	OK
7.000	S4004	65	95.840	-0.260	0.000	0.04		2.8	OK
6.004	S4005	65	95.580	-0.389	0.000	0.05		11.0	OK
6.005	S8122	65	95.363	-0.387	0.000	0.05		11.5	OK
8.000	S8126	65	95.325	-0.275	0.000	0.02		1.2	OK
6.006	S8123	66	95.142	-0.368	0.000	0.08		14.8	OK
6.007	S8125	66	94.916	-0.444	0.000	0.06		16.0	OK
6.008	S4020	68	94.805	-0.368	0.000	0.08		18.5	OK
6.009	S4021	68	94.804	-0.329	0.000	0.17		18.8	OK
1.013	S4022	67	94.804	-0.391	0.000	0.19		46.3	OK
1.014	S4023	56	94.803	-0.372	0.000	0.02		6.8	OK

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Summary Wizard of 960 minute 1 year Summer I+0% for Surface Network 4

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.409
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.300	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 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	S1002	40	99.970	-0.225	0.000	0.00		0.0	OK
1.001	S1003	68	99.299	-0.291	0.000	0.01		1.1	OK
1.002	S1004	68	98.796	-0.284	0.000	0.01		1.6	OK
2.000	S1005	68	98.783	-0.276	0.000	0.02		2.0	OK
1.003	S1006	68	98.373	-0.272	0.000	0.02		4.8	OK
3.000	S1007	68	96.542	-0.428	0.000	0.01		2.4	OK
3.001	S1008	68	96.293	-0.417	0.000	0.02		2.4	OK
1.004	S1009	68	96.095	-0.513	0.000	0.04		9.7	OK
4.000	S1010	68	98.013	-0.287	0.000	0.01		1.8	OK
4.001	S1011	68	96.987	-0.283	0.000	0.01		1.8	OK
1.005	S1012	68	96.026	-0.504	0.000	0.06		12.7	OK
5.000	S1013	68	96.650	-0.362	0.000	0.01		1.4	OK
1.006	S1014	68	95.951	-0.539	0.000	0.02		16.1	OK
1.007	S1015	68	95.183	-0.566	0.000	0.06		18.2	OK
1.008	S1016	68	95.099	-0.306	0.000	0.07		22.0	OK
1.009	S1017	68	95.052	-0.573	0.000	0.06		23.1	OK
1.010	S1019	68	94.883	-0.532	0.000	0.08		23.1	OK
1.011	S1020	70	94.838	-0.537	0.000	0.07		23.0	OK
1.012	1018	70	94.804	-0.488	0.000	0.06		22.8	OK
6.000	S8143	68	96.744	-0.356	0.000	0.01		2.0	OK

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Summary Wizard of 960 minute 1 year Summer I+0% for Surface Network 4

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
6.001	S8130	68	96.290	-0.420	0.000	0.01		3.7	OK
6.002	S8158	68	96.086	-0.404	0.000	0.02		4.1	OK
6.003	S8129	68	95.903	-0.417	0.000	0.02		5.2	OK
7.000	S4004	68	95.836	-0.264	0.000	0.03		2.3	OK
6.004	S4005	68	95.574	-0.394	0.000	0.04		8.9	OK
6.005	S8122	68	95.357	-0.393	0.000	0.04		9.3	OK
8.000	S8126	68	95.321	-0.279	0.000	0.01		1.0	OK
6.006	S8123	68	95.132	-0.378	0.000	0.06		12.0	OK
6.007	S8125	68	94.907	-0.453	0.000	0.05		12.9	OK
6.008	S4020	69	94.804	-0.369	0.000	0.06		14.9	OK
6.009	S4021	69	94.804	-0.329	0.000	0.14		15.1	OK
1.013	S4022	68	94.803	-0.392	0.000	0.15		37.3	OK
1.014	S4023	57	94.803	-0.372	0.000	0.02		6.8	OK

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Summary Wizard of 1440 minute 1 year Summer I+0% for Surface Network 4

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.409
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.300	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 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	S1002	37	99.970	-0.225	0.000	0.00		0.0	OK
1.001	S1003	71	99.297	-0.293	0.000	0.00		0.8	OK
1.002	S1004	71	98.792	-0.288	0.000	0.01		1.2	OK
2.000	S1005	71	98.777	-0.282	0.000	0.01		1.5	OK
1.003	S1006	71	98.366	-0.279	0.000	0.01		3.6	OK
3.000	S1007	71	96.536	-0.434	0.000	0.01		1.8	OK
3.001	S1008	71	96.284	-0.426	0.000	0.01		1.8	OK
1.004	S1009	71	96.082	-0.526	0.000	0.03		7.2	OK
4.000	S1010	71	98.010	-0.290	0.000	0.01		1.3	OK
4.001	S1011	71	96.982	-0.288	0.000	0.01		1.3	OK
1.005	S1012	71	96.012	-0.518	0.000	0.05		9.4	OK
5.000	S1013	71	96.647	-0.365	0.000	0.01		1.0	OK
1.006	S1014	71	95.936	-0.554	0.000	0.02		11.9	OK
1.007	S1015	71	95.167	-0.582	0.000	0.05		13.5	OK
1.008	S1016	71	95.088	-0.317	0.000	0.05		16.3	OK
1.009	S1017	71	95.038	-0.587	0.000	0.04		17.2	OK
1.010	S1019	71	94.863	-0.552	0.000	0.06		17.1	OK
1.011	S1020	72	94.820	-0.555	0.000	0.05		17.1	OK
1.012	1018	71	94.803	-0.489	0.000	0.05		17.0	OK
6.000	S8143	71	96.739	-0.361	0.000	0.01		1.5	OK

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Summary Wizard of 1440 minute 1 year Summer I+0% for Surface Network 4

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
6.001	S8130	71	96.282	-0.428	0.000	0.01		2.7	OK
6.002	S8158	71	96.075	-0.415	0.000	0.02		3.0	OK
6.003	S8129	71	95.894	-0.426	0.000	0.01		3.8	OK
7.000	S4004	71	95.832	-0.268	0.000	0.03		1.7	OK
6.004	S4005	71	95.568	-0.401	0.000	0.03		6.6	OK
6.005	S8122	71	95.350	-0.400	0.000	0.03		6.9	OK
8.000	S8126	71	95.315	-0.285	0.000	0.01		0.7	OK
6.006	S8123	71	95.122	-0.388	0.000	0.05		8.9	OK
6.007	S8125	71	94.898	-0.462	0.000	0.03		9.6	OK
6.008	S4020	70	94.803	-0.370	0.000	0.05		11.0	OK
6.009	S4021	70	94.803	-0.330	0.000	0.10		11.2	OK
1.013	S4022	69	94.802	-0.393	0.000	0.11		27.8	OK
1.014	S4023	58	94.802	-0.373	0.000	0.02		6.8	OK

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Summary Wizard of 15 minute 30 year Summer I+0% for Surface Network 4

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.409
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.300	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 40

PN	US/MH Name	Storm	Water Level Rank	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S1002	38	99.970	-0.225	0.000	0.00		0.0	OK
1.001	S1003	7	99.371	-0.219	0.000	0.17		28.8	OK
1.002	S1004	7	98.891	-0.189	0.000	0.29		42.1	OK
2.000	S1005	7	98.891	-0.168	0.000	0.40		48.7	OK
1.003	S1006	7	98.497	-0.148	0.000	0.51		122.1	OK
3.000	S1007	8	96.692	-0.278	0.000	0.24		57.1	OK
3.001	S1008	8	96.633	-0.077	0.000	0.36		57.0	OK
1.004	S1009	8	96.608	0.000	0.000	0.78		203.6	OK
4.000	S1010	7	98.094	-0.206	0.000	0.22		42.9	OK
4.001	S1011	7	97.078	-0.192	0.000	0.28		42.5	OK
1.005	S1012	7	96.530	0.000	0.000	1.28		264.2	OK
5.000	S1013	7	96.744	-0.268	0.000	0.18		32.5	OK
1.006	S1014	8	96.178	-0.312	0.000	0.45		330.9	OK
1.007	S1015	13	95.749	0.000	0.000	1.25		363.4	OK
1.008	S1016	16	95.691	0.286	0.000	1.34		401.4	SURCHARGED
1.009	S1017	24	95.594	-0.031	0.000	0.91		380.0	OK
1.010	S1019	26	95.503	0.088	0.000	1.29		355.0	SURCHARGED
1.011	S1020	27	95.456	0.081	0.000	0.93		326.1	SURCHARGED
1.012	1018	27	95.383	0.091	0.000	0.90		320.5	SURCHARGED
6.000	S8143	7	96.855	-0.245	0.000	0.26		47.8	OK

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Summary Wizard of 15 minute 30 year Summer I+0% for Surface Network 4

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
6.001	S8130	7	96.444	-0.266	0.000	0.35		91.8	OK
6.002	S8158	8	96.283	-0.207	0.000	0.55		100.1	OK
6.003	S8129	8	96.063	-0.257	0.000	0.38		125.8	OK
7.000	S4004	8	96.009	-0.091	0.000	0.81		52.9	OK
6.004	S4005	9	95.915	-0.054	0.000	0.82		197.6	OK
6.005	S8122	11	95.771	0.021	0.000	0.82		199.0	SURCHARGED
8.000	S8126	17	95.642	0.042	0.000	0.32		21.7	SURCHARGED
6.006	S8123	18	95.625	0.115	0.000	1.26		242.9	SURCHARGED
6.007	S8125	28	95.435	0.075	0.000	0.89		247.8	SURCHARGED
6.008	S4020	28	95.372	0.199	0.000	1.09		263.0	SURCHARGED
6.009	S4021	28	95.343	0.210	0.000	2.35		263.8	SURCHARGED
1.013	S4022	27	95.305	0.110	0.000	2.09		507.3	SURCHARGED
1.014	S4023	55	94.807	-0.368	0.000	0.02		6.8	OK

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Summary Wizard of 30 minute 30 year Summer I+0% for Surface Network 4

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.409
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.300	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 40

PN	US/MH Name	Storm	Water Level Rank	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S1002	41	99.970	-0.225	0.000	0.00		0.0	OK
1.001	S1003	9	99.365	-0.225	0.000	0.14		24.7	OK
1.002	S1004	9	98.882	-0.198	0.000	0.25		35.8	OK
2.000	S1005	9	98.883	-0.176	0.000	0.36		43.7	OK
1.003	S1006	9	98.485	-0.160	0.000	0.44		105.5	OK
3.000	S1007	9	96.678	-0.292	0.000	0.22		52.0	OK
3.001	S1008	9	96.614	-0.096	0.000	0.31		49.3	OK
1.004	S1009	9	96.595	-0.013	0.000	0.69		179.1	OK
4.000	S1010	9	98.089	-0.211	0.000	0.19		38.5	OK
4.001	S1011	9	97.071	-0.199	0.000	0.25		38.5	OK
1.005	S1012	8	96.530	0.000	0.000	1.12		231.6	OK
5.000	S1013	9	96.737	-0.275	0.000	0.16		29.5	OK
1.006	S1014	9	96.155	-0.335	0.000	0.39		289.2	OK
1.007	S1015	15	95.749	0.000	0.000	1.10		320.8	OK
1.008	S1016	17	95.689	0.284	0.000	1.18		354.6	SURCHARGED
1.009	S1017	22	95.605	-0.020	0.000	0.85		353.1	OK
1.010	S1019	27	95.497	0.082	0.000	1.21		333.1	SURCHARGED
1.011	S1020	28	95.450	0.075	0.000	0.92		320.1	SURCHARGED
1.012	1018	28	95.378	0.086	0.000	0.89		317.4	SURCHARGED
6.000	S8143	9	96.848	-0.252	0.000	0.23		43.4	OK

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Summary Wizard of 30 minute 30 year Summer I+0% for Surface Network 4

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
6.001	S8130	9	96.431	-0.279	0.000	0.30		80.2	OK
6.002	S8158	9	96.264	-0.226	0.000	0.48		88.3	OK
6.003	S8129	9	96.049	-0.271	0.000	0.33		110.5	OK
7.000	S4004	10	95.993	-0.107	0.000	0.73		47.9	OK
6.004	S4005	10	95.837	-0.132	0.000	0.77		186.4	OK
6.005	S8122	14	95.734	-0.016	0.000	0.76		183.4	OK
8.000	S8126	20	95.632	0.032	0.000	0.28		19.5	SURCHARGED
6.006	S8123	21	95.613	0.103	0.000	1.14		220.5	SURCHARGED
6.007	S8125	27	95.449	0.089	0.000	0.81		227.0	SURCHARGED
6.008	S4020	27	95.379	0.206	0.000	1.04		251.3	SURCHARGED
6.009	S4021	27	95.347	0.214	0.000	2.25		252.4	SURCHARGED
1.013	S4022	28	95.305	0.110	0.000	2.10		511.4	SURCHARGED
1.014	S4023	46	94.885	-0.290	0.000	0.02		7.0	OK

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Summary Wizard of 60 minute 30 year Summer I+0% for Surface Network 4

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.409
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.300	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 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	S1002	44	99.970	-0.225	0.000	0.00		0.0	OK
1.001	S1003	12	99.354	-0.236	0.000	0.10		17.5	OK
1.002	S1004	12	98.866	-0.214	0.000	0.18		25.3	OK
2.000	S1005	12	98.863	-0.196	0.000	0.26		31.4	OK
1.003	S1006	12	98.461	-0.184	0.000	0.31		75.0	OK
3.000	S1007	12	96.640	-0.330	0.000	0.16		37.0	OK
3.001	S1008	12	96.461	-0.249	0.000	0.23		36.6	OK
1.004	S1009	12	96.433	-0.175	0.000	0.56		144.8	OK
4.000	S1010	12	98.075	-0.225	0.000	0.14		27.6	OK
4.001	S1011	12	97.056	-0.214	0.000	0.18		27.2	OK
1.005	S1012	12	96.378	-0.152	0.000	0.91		187.5	OK
5.000	S1013	12	96.722	-0.290	0.000	0.11		20.9	OK
1.006	S1014	12	96.123	-0.367	0.000	0.32		235.3	OK
1.007	S1015	23	95.637	-0.112	0.000	0.88		257.6	OK
1.008	S1016	26	95.590	0.185	0.000	0.98		294.0	SURCHARGED
1.009	S1017	28	95.521	-0.104	0.000	0.71		298.2	OK
1.010	S1019	29	95.417	0.002	0.000	1.06		291.0	SURCHARGED
1.011	S1020	29	95.375	0.000	0.000	0.82		287.9	OK
1.012	1018	29	95.292	0.000	0.000	0.80		283.8	OK
6.000	S8143	12	96.829	-0.271	0.000	0.17		30.9	OK

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Summary Wizard of 60 minute 30 year Summer I+0% for Surface Network 4

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
6.001	S8130	12	96.404	-0.306	0.000	0.22		57.3	OK
6.002	S8158	12	96.226	-0.264	0.000	0.34		62.7	OK
6.003	S8129	12	96.021	-0.299	0.000	0.24		79.3	OK
7.000	S4004	12	95.957	-0.143	0.000	0.52		34.0	OK
6.004	S4005	14	95.766	-0.203	0.000	0.56		136.2	OK
6.005	S8122	28	95.554	-0.196	0.000	0.59		142.9	OK
8.000	S8126	29	95.486	-0.114	0.000	0.22		15.0	OK
6.006	S8123	29	95.472	-0.038	0.000	0.88		170.3	OK
6.007	S8125	29	95.352	-0.008	0.000	0.64		179.8	OK
6.008	S4020	29	95.272	0.099	0.000	0.84		202.1	SURCHARGED
6.009	S4021	29	95.240	0.107	0.000	1.83		205.7	SURCHARGED
1.013	S4022	34	95.203	0.008	0.000	1.89		459.9	SURCHARGED
1.014	S4023	44	94.960	-0.215	0.000	0.02		7.1	OK

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Summary Wizard of 120 minute 30 year Summer I+0% for Surface Network 4

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.409
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.300	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 40

PN	US/MH Name	Storm	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S1002	45	99.970	-0.225	0.000	0.00		0.0	OK
1.001	S1003	18	99.338	-0.252	0.000	0.06		10.7	OK
1.002	S1004	18	98.846	-0.234	0.000	0.11		15.6	OK
2.000	S1005	19	98.840	-0.219	0.000	0.17		20.2	OK
1.003	S1006	18	98.435	-0.210	0.000	0.20		47.5	OK
3.000	S1007	19	96.616	-0.354	0.000	0.10		24.2	OK
3.001	S1008	18	96.390	-0.320	0.000	0.15		23.8	OK
1.004	S1009	18	96.326	-0.282	0.000	0.36		94.9	OK
4.000	S1010	19	98.060	-0.240	0.000	0.09		17.8	OK
4.001	S1011	19	97.038	-0.232	0.000	0.12		17.8	OK
1.005	S1012	18	96.269	-0.261	0.000	0.60		123.6	OK
5.000	S1013	19	96.704	-0.308	0.000	0.07		13.7	OK
1.006	S1014	18	96.078	-0.412	0.000	0.21		156.4	OK
1.007	S1015	31	95.474	-0.275	0.000	0.60		175.5	OK
1.008	S1016	31	95.420	0.015	0.000	0.69		207.0	SURCHARGED
1.009	S1017	31	95.383	-0.242	0.000	0.50		207.2	OK
1.010	S1019	31	95.319	-0.096	0.000	0.71		194.5	OK
1.011	S1020	31	95.286	-0.089	0.000	0.55		190.6	OK
1.012	1018	31	95.241	-0.051	0.000	0.55		194.5	OK
6.000	S8143	19	96.807	-0.293	0.000	0.11		20.1	OK

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Summary Wizard of 120 minute 30 year Summer I+0% for Surface Network 4

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
6.001	S8130	18	96.371	-0.339	0.000	0.14		36.6	OK
6.002	S8158	18	96.183	-0.307	0.000	0.22		40.5	OK
6.003	S8129	18	95.987	-0.333	0.000	0.15		51.0	OK
7.000	S4004	19	95.921	-0.179	0.000	0.34		22.3	OK
6.004	S4005	23	95.707	-0.262	0.000	0.36		87.5	OK
6.005	S8122	31	95.493	-0.257	0.000	0.38		91.5	OK
8.000	S8126	31	95.379	-0.221	0.000	0.14		9.8	OK
6.006	S8123	31	95.334	-0.176	0.000	0.60		116.3	OK
6.007	S8125	31	95.273	-0.087	0.000	0.43		120.4	OK
6.008	S4020	31	95.239	0.066	0.000	0.55		132.8	SURCHARGED
6.009	S4021	33	95.219	0.086	0.000	1.19		133.3	SURCHARGED
1.013	S4022	35	95.195	0.000	0.000	1.25		304.5	OK
1.014	S4023	41	95.030	-0.145	0.000	0.02		7.1	OK

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Summary Wizard of 180 minute 30 year Summer I+0% for Surface Network 4

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.409
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.300	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 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	S1002	42	99.970	-0.225	0.000	0.00		0.0	OK
1.001	S1003	23	99.332	-0.258	0.000	0.05		8.4	OK
1.002	S1004	23	98.839	-0.241	0.000	0.09		12.2	OK
2.000	S1005	25	98.831	-0.228	0.000	0.13		15.9	OK
1.003	S1006	24	98.424	-0.221	0.000	0.15		37.2	OK
3.000	S1007	25	96.605	-0.365	0.000	0.08		19.0	OK
3.001	S1008	24	96.366	-0.344	0.000	0.12		18.8	OK
1.004	S1009	24	96.281	-0.327	0.000	0.28		74.1	OK
4.000	S1010	25	98.052	-0.248	0.000	0.07		14.0	OK
4.001	S1011	25	97.031	-0.239	0.000	0.09		13.9	OK
1.005	S1012	24	96.222	-0.308	0.000	0.47		96.8	OK
5.000	S1013	25	96.695	-0.317	0.000	0.06		10.7	OK
1.006	S1014	24	96.055	-0.435	0.000	0.17		121.9	OK
1.007	S1015	35	95.403	-0.346	0.000	0.47		137.8	OK
1.008	S1016	33	95.326	-0.079	0.000	0.55		164.4	OK
1.009	S1017	33	95.292	-0.333	0.000	0.41		170.1	OK
1.010	S1019	39	95.188	-0.227	0.000	0.60		164.4	OK
1.011	S1020	41	95.151	-0.224	0.000	0.47		163.4	OK
1.012	1018	47	95.102	-0.190	0.000	0.46		162.7	OK
6.000	S8143	25	96.799	-0.301	0.000	0.09		15.8	OK

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Summary Wizard of 180 minute 30 year Summer I+0% for Surface Network 4

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
6.001	S8130	24	96.359	-0.351	0.000	0.11		28.7	OK
6.002	S8158	24	96.166	-0.324	0.000	0.17		31.6	OK
6.003	S8129	24	95.974	-0.346	0.000	0.12		39.7	OK
7.000	S4004	25	95.906	-0.194	0.000	0.27		17.5	OK
6.004	S4005	29	95.683	-0.286	0.000	0.28		68.2	OK
6.005	S8122	35	95.468	-0.282	0.000	0.29		71.0	OK
8.000	S8126	36	95.367	-0.233	0.000	0.11		7.7	OK
6.006	S8123	36	95.280	-0.230	0.000	0.47		90.6	OK
6.007	S8125	40	95.155	-0.205	0.000	0.35		96.5	OK
6.008	S4020	46	95.125	-0.048	0.000	0.45		107.7	OK
6.009	S4021	47	95.109	-0.024	0.000	0.97		109.0	OK
1.013	S4022	48	95.068	-0.127	0.000	1.08		263.2	OK
1.014	S4023	39	95.067	-0.108	0.000	0.02		7.1	OK

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Summary Wizard of 240 minute 30 year Summer I+0% for Surface Network 4

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.409
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.300	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 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	S1002	43	99.970	-0.225	0.000	0.00		0.0	OK
1.001	S1003	28	99.328	-0.262	0.000	0.04		6.8	OK
1.002	S1004	28	98.831	-0.249	0.000	0.07		9.9	OK
2.000	S1005	29	98.824	-0.235	0.000	0.10		12.8	OK
1.003	S1006	28	98.415	-0.230	0.000	0.12		30.1	OK
3.000	S1007	29	96.594	-0.376	0.000	0.06		15.3	OK
3.001	S1008	29	96.353	-0.357	0.000	0.10		15.3	OK
1.004	S1009	28	96.249	-0.359	0.000	0.23		60.6	OK
4.000	S1010	29	98.046	-0.254	0.000	0.06		11.3	OK
4.001	S1011	29	97.023	-0.247	0.000	0.07		11.3	OK
1.005	S1012	28	96.188	-0.342	0.000	0.38		79.2	OK
5.000	S1013	29	96.689	-0.323	0.000	0.05		8.7	OK
1.006	S1014	28	96.037	-0.453	0.000	0.14		100.1	OK
1.007	S1015	38	95.366	-0.383	0.000	0.39		112.9	OK
1.008	S1016	38	95.278	-0.127	0.000	0.45		135.3	OK
1.009	S1017	36	95.249	-0.376	0.000	0.34		139.9	OK
1.010	S1019	47	95.133	-0.282	0.000	0.50		138.3	OK
1.011	S1020	49	95.095	-0.280	0.000	0.39		137.2	OK
1.012	1018	48	95.093	-0.199	0.000	0.39		136.9	OK
6.000	S8143	29	96.789	-0.311	0.000	0.07		12.7	OK

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Summary Wizard of 240 minute 30 year Summer I+0% for Surface Network 4

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
6.001	S8130	28	96.349	-0.361	0.000	0.09		23.2	OK
6.002	S8158	28	96.152	-0.338	0.000	0.14		25.7	OK
6.003	S8129	28	95.964	-0.356	0.000	0.10		32.4	OK
7.000	S4004	29	95.894	-0.206	0.000	0.22		14.1	OK
6.004	S4005	35	95.665	-0.304	0.000	0.23		55.6	OK
6.005	S8122	38	95.449	-0.301	0.000	0.24		58.2	OK
8.000	S8126	39	95.361	-0.239	0.000	0.09		6.2	OK
6.006	S8123	38	95.254	-0.256	0.000	0.39		74.7	OK
6.007	S8125	49	95.095	-0.265	0.000	0.29		79.7	OK
6.008	S4020	48	95.093	-0.080	0.000	0.37		89.6	OK
6.009	S4021	48	95.092	-0.041	0.000	0.80		90.3	OK
1.013	S4022	47	95.092	-0.103	0.000	0.91		222.3	OK
1.014	S4023	37	95.091	-0.084	0.000	0.02		7.1	OK

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Summary Wizard of 360 minute 30 year Summer I+0% for Surface Network 4

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.409
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.300	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 40

PN	US/MH Name	Storm	Water Level Rank	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S1002	66	99.970	-0.225	0.000	0.00		0.0	OK
1.001	S1003	37	99.323	-0.267	0.000	0.03		4.9	OK
1.002	S1004	37	98.823	-0.257	0.000	0.05		7.2	OK
2.000	S1005	37	98.814	-0.245	0.000	0.08		9.3	OK
1.003	S1006	37	98.406	-0.239	0.000	0.09		22.0	OK
3.000	S1007	37	96.582	-0.388	0.000	0.05		11.2	OK
3.001	S1008	37	96.338	-0.372	0.000	0.07		11.2	OK
1.004	S1009	37	96.208	-0.400	0.000	0.17		44.4	OK
4.000	S1010	37	98.039	-0.261	0.000	0.04		8.2	OK
4.001	S1011	37	97.014	-0.256	0.000	0.05		8.2	OK
1.005	S1012	37	96.146	-0.384	0.000	0.28		58.3	OK
5.000	S1013	37	96.682	-0.330	0.000	0.03		6.3	OK
1.006	S1014	37	96.016	-0.474	0.000	0.10		73.7	OK
1.007	S1015	43	95.319	-0.430	0.000	0.29		83.3	OK
1.008	S1016	45	95.227	-0.178	0.000	0.33		100.5	OK
1.009	S1017	48	95.198	-0.427	0.000	0.25		104.7	OK
1.010	S1019	50	95.123	-0.292	0.000	0.37		102.8	OK
1.011	S1020	47	95.122	-0.253	0.000	0.30		103.4	OK
1.012	1018	46	95.121	-0.171	0.000	0.29		103.6	OK
6.000	S8143	37	96.779	-0.321	0.000	0.05		9.3	OK

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Summary Wizard of 360 minute 30 year Summer I+0% for Surface Network 4

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
6.001	S8130	37	96.334	-0.376	0.000	0.06		16.9	OK
6.002	S8158	37	96.136	-0.354	0.000	0.10		18.8	OK
6.003	S8129	37	95.948	-0.372	0.000	0.07		23.7	OK
7.000	S4004	37	95.879	-0.221	0.000	0.16		10.3	OK
6.004	S4005	43	95.642	-0.327	0.000	0.17		40.7	OK
6.005	S8122	43	95.427	-0.323	0.000	0.18		42.6	OK
8.000	S8126	43	95.350	-0.250	0.000	0.07		4.6	OK
6.006	S8123	45	95.223	-0.287	0.000	0.28		54.7	OK
6.007	S8125	47	95.122	-0.238	0.000	0.21		59.1	OK
6.008	S4020	47	95.121	-0.052	0.000	0.28		67.1	OK
6.009	S4021	46	95.120	-0.013	0.000	0.61		68.1	OK
1.013	S4022	46	95.120	-0.075	0.000	0.70		170.3	OK
1.014	S4023	36	95.119	-0.056	0.000	0.02		7.1	OK

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Summary Wizard of 480 minute 30 year Summer I+0% for Surface Network 4

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.409
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.300	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 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	S1002	67	99.970	-0.225	0.000	0.00		0.0	OK
1.001	S1003	41	99.321	-0.269	0.000	0.02		3.9	OK
1.002	S1004	41	98.818	-0.262	0.000	0.04		5.8	OK
2.000	S1005	41	98.807	-0.252	0.000	0.06		7.5	OK
1.003	S1006	41	98.398	-0.247	0.000	0.07		17.6	OK
3.000	S1007	41	96.576	-0.394	0.000	0.04		9.0	OK
3.001	S1008	41	96.328	-0.382	0.000	0.06		9.0	OK
1.004	S1009	41	96.186	-0.422	0.000	0.14		35.5	OK
4.000	S1010	41	98.035	-0.265	0.000	0.03		6.6	OK
4.001	S1011	41	97.010	-0.260	0.000	0.04		6.6	OK
1.005	S1012	41	96.122	-0.408	0.000	0.23		46.6	OK
5.000	S1013	41	96.678	-0.334	0.000	0.03		5.1	OK
1.006	S1014	41	96.002	-0.488	0.000	0.08		58.9	OK
1.007	S1015	45	95.291	-0.458	0.000	0.23		66.6	OK
1.008	S1016	50	95.198	-0.207	0.000	0.27		80.4	OK
1.009	S1017	51	95.167	-0.458	0.000	0.20		84.3	OK
1.010	S1019	46	95.138	-0.277	0.000	0.30		83.2	OK
1.011	S1020	45	95.138	-0.237	0.000	0.24		82.6	OK
1.012	1018	44	95.136	-0.156	0.000	0.23		80.8	OK
6.000	S8143	41	96.773	-0.327	0.000	0.04		7.4	OK

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Summary Wizard of 480 minute 30 year Summer I+0% for Surface Network 4

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
6.001	S8130	41	96.325	-0.385	0.000	0.05		13.5	OK
6.002	S8158	41	96.126	-0.364	0.000	0.08		15.0	OK
6.003	S8129	41	95.939	-0.381	0.000	0.06		18.9	OK
7.000	S4004	41	95.870	-0.230	0.000	0.13		8.3	OK
6.004	S4005	45	95.628	-0.341	0.000	0.13		32.5	OK
6.005	S8122	45	95.412	-0.338	0.000	0.14		34.1	OK
8.000	S8126	45	95.344	-0.256	0.000	0.05		3.6	OK
6.006	S8123	50	95.204	-0.306	0.000	0.23		43.7	OK
6.007	S8125	45	95.137	-0.223	0.000	0.17		47.3	OK
6.008	S4020	44	95.136	-0.037	0.000	0.22		53.7	OK
6.009	S4021	44	95.136	0.003	0.000	0.49		54.6	SURCHARGED
1.013	S4022	43	95.136	-0.059	0.000	0.55		133.0	OK
1.014	S4023	34	95.135	-0.040	0.000	0.02		7.1	OK

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Summary Wizard of 600 minute 30 year Summer I+0% for Surface Network 4

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.409
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.300	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 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	S1002	64	99.970	-0.225	0.000	0.00		0.0	OK
1.001	S1003	46	99.317	-0.273	0.000	0.02		3.3	OK
1.002	S1004	46	98.816	-0.264	0.000	0.03		4.8	OK
2.000	S1005	46	98.802	-0.257	0.000	0.05		6.3	OK
1.003	S1006	46	98.393	-0.252	0.000	0.06		14.7	OK
3.000	S1007	46	96.572	-0.398	0.000	0.03		7.5	OK
3.001	S1008	46	96.322	-0.388	0.000	0.05		7.5	OK
1.004	S1009	46	96.169	-0.439	0.000	0.11		29.8	OK
4.000	S1010	46	98.033	-0.267	0.000	0.03		5.5	OK
4.001	S1011	46	97.007	-0.263	0.000	0.04		5.5	OK
1.005	S1012	46	96.106	-0.424	0.000	0.19		39.1	OK
5.000	S1013	46	96.676	-0.336	0.000	0.02		4.3	OK
1.006	S1014	46	95.991	-0.499	0.000	0.07		49.5	OK
1.007	S1015	49	95.273	-0.476	0.000	0.19		55.9	OK
1.008	S1016	54	95.180	-0.225	0.000	0.22		67.5	OK
1.009	S1017	55	95.149	-0.476	0.000	0.17		70.8	OK
1.010	S1019	43	95.145	-0.270	0.000	0.25		69.8	OK
1.011	S1020	43	95.144	-0.231	0.000	0.20		69.3	OK
1.012	1018	42	95.143	-0.149	0.000	0.19		67.9	OK
6.000	S8143	46	96.769	-0.331	0.000	0.03		6.2	OK

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Summary Wizard of 600 minute 30 year Summer I+0% for Surface Network 4

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
6.001	S8130	46	96.320	-0.390	0.000	0.04		11.3	OK
6.002	S8158	46	96.117	-0.373	0.000	0.07		12.6	OK
6.003	S8129	46	95.933	-0.387	0.000	0.05		15.9	OK
7.000	S4004	46	95.865	-0.235	0.000	0.11		6.9	OK
6.004	S4005	49	95.619	-0.350	0.000	0.11		27.3	OK
6.005	S8122	49	95.402	-0.348	0.000	0.12		28.6	OK
8.000	S8126	49	95.340	-0.260	0.000	0.04		3.1	OK
6.006	S8123	54	95.192	-0.318	0.000	0.19		36.7	OK
6.007	S8125	43	95.145	-0.215	0.000	0.14		39.7	OK
6.008	S4020	42	95.144	-0.029	0.000	0.18		44.5	OK
6.009	S4021	42	95.143	0.010	0.000	0.40		45.1	SURCHARGED
1.013	S4022	41	95.143	-0.052	0.000	0.45		110.0	OK
1.014	S4023	31	95.142	-0.033	0.000	0.02		7.1	OK

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Summary Wizard of 720 minute 30 year Summer I+0% for Surface Network 4

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.409
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.300	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 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	S1002	65	99.970	-0.225	0.000	0.00		0.0	OK
1.001	S1003	51	99.313	-0.277	0.000	0.02		2.9	OK
1.002	S1004	51	98.814	-0.266	0.000	0.03		4.2	OK
2.000	S1005	51	98.799	-0.260	0.000	0.04		5.4	OK
1.003	S1006	51	98.389	-0.256	0.000	0.05		12.8	OK
3.000	S1007	51	96.569	-0.401	0.000	0.03		6.5	OK
3.001	S1008	51	96.318	-0.392	0.000	0.04		6.5	OK
1.004	S1009	51	96.156	-0.452	0.000	0.10		25.8	OK
4.000	S1010	51	98.031	-0.269	0.000	0.02		4.8	OK
4.001	S1011	51	97.004	-0.266	0.000	0.03		4.8	OK
1.005	S1012	51	96.092	-0.438	0.000	0.16		33.9	OK
5.000	S1013	51	96.672	-0.340	0.000	0.02		3.7	OK
1.006	S1014	51	95.983	-0.507	0.000	0.06		42.9	OK
1.007	S1015	52	95.257	-0.492	0.000	0.17		48.5	OK
1.008	S1016	55	95.167	-0.238	0.000	0.19		58.6	OK
1.009	S1017	53	95.151	-0.474	0.000	0.15		61.4	OK
1.010	S1019	42	95.150	-0.265	0.000	0.22		60.5	OK
1.011	S1020	42	95.150	-0.225	0.000	0.17		60.1	OK
1.012	1018	41	95.149	-0.143	0.000	0.17		58.8	OK
6.000	S8143	51	96.767	-0.333	0.000	0.03		5.4	OK

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Summary Wizard of 720 minute 30 year Summer I+0% for Surface Network 4

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
6.001	S8130	51	96.316	-0.394	0.000	0.04		9.8	OK
6.002	S8158	51	96.111	-0.379	0.000	0.06		10.9	OK
6.003	S8129	51	95.928	-0.392	0.000	0.04		13.8	OK
7.000	S4004	51	95.861	-0.239	0.000	0.09		6.0	OK
6.004	S4005	52	95.613	-0.356	0.000	0.10		23.7	OK
6.005	S8122	52	95.396	-0.354	0.000	0.10		24.8	OK
8.000	S8126	52	95.338	-0.262	0.000	0.04		2.6	OK
6.006	S8123	56	95.182	-0.328	0.000	0.16		31.8	OK
6.007	S8125	42	95.150	-0.210	0.000	0.12		34.4	OK
6.008	S4020	41	95.149	-0.024	0.000	0.16		38.6	OK
6.009	S4021	41	95.148	0.015	0.000	0.35		39.3	SURCHARGED
1.013	S4022	40	95.148	-0.047	0.000	0.39		95.5	OK
1.014	S4023	30	95.147	-0.028	0.000	0.02		7.1	OK

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Summary Wizard of 960 minute 30 year Summer I+0% for Surface Network 4

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.409
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.300	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 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	S1002	68	99.970	-0.225	0.000	0.00		0.0	OK
1.001	S1003	54	99.309	-0.281	0.000	0.01		2.3	OK
1.002	S1004	54	98.811	-0.269	0.000	0.02		3.3	OK
2.000	S1005	54	98.795	-0.264	0.000	0.04		4.3	OK
1.003	S1006	54	98.384	-0.261	0.000	0.04		10.2	OK
3.000	S1007	54	96.566	-0.404	0.000	0.02		5.2	OK
3.001	S1008	54	96.313	-0.397	0.000	0.03		5.2	OK
1.004	S1009	54	96.140	-0.468	0.000	0.08		20.6	OK
4.000	S1010	54	98.027	-0.273	0.000	0.02		3.8	OK
4.001	S1011	54	97.002	-0.268	0.000	0.02		3.8	OK
1.005	S1012	54	96.074	-0.456	0.000	0.13		27.0	OK
5.000	S1013	54	96.665	-0.347	0.000	0.02		2.9	OK
1.006	S1014	54	95.972	-0.518	0.000	0.05		34.2	OK
1.007	S1015	55	95.236	-0.513	0.000	0.13		38.7	OK
1.008	S1016	58	95.153	-0.252	0.000	0.16		46.7	OK
1.009	S1017	52	95.152	-0.473	0.000	0.12		49.0	OK
1.010	S1019	41	95.151	-0.264	0.000	0.18		48.1	OK
1.011	S1020	40	95.151	-0.224	0.000	0.14		47.8	OK
1.012	1018	40	95.151	-0.141	0.000	0.13		46.7	OK
6.000	S8143	54	96.764	-0.336	0.000	0.02		4.3	OK

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Summary Wizard of 960 minute 30 year Summer I+0% for Surface Network 4

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
6.001	S8130	54	96.311	-0.399	0.000	0.03		7.8	OK
6.002	S8158	54	96.103	-0.387	0.000	0.05		8.7	OK
6.003	S8129	54	95.923	-0.397	0.000	0.03		11.0	OK
7.000	S4004	54	95.853	-0.247	0.000	0.07		4.8	OK
6.004	S4005	55	95.602	-0.367	0.000	0.08		18.9	OK
6.005	S8122	55	95.386	-0.364	0.000	0.08		19.8	OK
8.000	S8126	55	95.334	-0.266	0.000	0.03		2.1	OK
6.006	S8123	58	95.168	-0.342	0.000	0.13		25.4	OK
6.007	S8125	41	95.152	-0.208	0.000	0.10		27.4	OK
6.008	S4020	40	95.152	-0.022	0.000	0.13		30.6	OK
6.009	S4021	40	95.151	0.018	0.000	0.28		31.1	SURCHARGED
1.013	S4022	39	95.151	-0.044	0.000	0.31		75.6	OK
1.014	S4023	29	95.150	-0.025	0.000	0.02		7.1	OK

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Summary Wizard of 1440 minute 30 year Summer I+0% for Surface Network 4

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.409
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.300	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 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	S1002	71	99.970	-0.225	0.000	0.00		0.0	OK
1.001	S1003	61	99.304	-0.286	0.000	0.01		1.7	OK
1.002	S1004	61	98.804	-0.276	0.000	0.02		2.4	OK
2.000	S1005	61	98.791	-0.268	0.000	0.03		3.1	OK
1.003	S1006	61	98.379	-0.266	0.000	0.03		7.4	OK
3.000	S1007	61	96.554	-0.416	0.000	0.02		3.8	OK
3.001	S1008	61	96.307	-0.403	0.000	0.02		3.8	OK
1.004	S1009	61	96.120	-0.488	0.000	0.06		15.0	OK
4.000	S1010	61	98.020	-0.280	0.000	0.01		2.8	OK
4.001	S1011	61	96.995	-0.275	0.000	0.02		2.8	OK
1.005	S1012	61	96.054	-0.476	0.000	0.10		19.6	OK
5.000	S1013	61	96.657	-0.355	0.000	0.01		2.1	OK
1.006	S1014	61	95.961	-0.529	0.000	0.03		24.8	OK
1.007	S1015	62	95.214	-0.535	0.000	0.10		28.1	OK
1.008	S1016	59	95.143	-0.262	0.000	0.11		33.9	OK
1.009	S1017	57	95.142	-0.483	0.000	0.09		35.6	OK
1.010	S1019	44	95.142	-0.273	0.000	0.13		34.9	OK
1.011	S1020	44	95.141	-0.234	0.000	0.10		34.6	OK
1.012	1018	43	95.141	-0.151	0.000	0.10		33.8	OK
6.000	S8143	61	96.755	-0.345	0.000	0.02		3.1	OK

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Summary Wizard of 1440 minute 30 year Summer I+0% for Surface Network 4

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
6.001	S8130	61	96.305	-0.405	0.000	0.02		5.7	OK
6.002	S8158	61	96.094	-0.396	0.000	0.03		6.3	OK
6.003	S8129	61	95.917	-0.403	0.000	0.02		8.0	OK
7.000	S4004	61	95.844	-0.256	0.000	0.05		3.5	OK
6.004	S4005	61	95.587	-0.381	0.000	0.06		13.7	OK
6.005	S8122	61	95.371	-0.379	0.000	0.06		14.4	OK
8.000	S8126	61	95.331	-0.269	0.000	0.02		1.5	OK
6.006	S8123	62	95.153	-0.357	0.000	0.10		18.4	OK
6.007	S8125	44	95.142	-0.218	0.000	0.07		19.9	OK
6.008	S4020	43	95.142	-0.031	0.000	0.09		22.3	OK
6.009	S4021	43	95.141	0.008	0.000	0.20		22.5	SURCHARGED
1.013	S4022	42	95.141	-0.054	0.000	0.23		54.8	OK
1.014	S4023	33	95.140	-0.035	0.000	0.02		7.1	OK

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Summary Wizard of 15 minute 100 year Summer I+40% for Surface Network 4

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.409
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.300	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 40

PN	US/MH Name	Storm	Water Level Rank	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S1002	72	99.970	-0.225	0.000	0.00		0.0	OK
1.001	S1003	2	99.402	-0.188	0.000	0.30		52.3	OK
1.002	S1004	2	98.936	-0.144	0.000	0.53		76.3	OK
2.000	S1005	2	98.950	-0.109	0.000	0.72		88.4	OK
1.003	S1006	2	98.666	0.021	0.000	0.90		218.3	SURCHARGED
3.000	S1007	2	97.794	0.824	0.000	0.40		95.9	SURCHARGED
3.001	S1008	2	97.756	1.046	0.000	0.49		79.0	SURCHARGED
1.004	S1009	3	97.722	1.114	0.000	1.41		366.0	SURCHARGED
4.000	S1010	2	98.131	-0.169	0.000	0.39		77.8	OK
4.001	S1011	3	97.716	0.446	0.000	0.50		77.1	SURCHARGED
1.005	S1012	3	97.626	1.096	0.000	2.22		459.0	SURCHARGED
5.000	S1013	3	97.513	0.501	0.000	0.31		58.2	SURCHARGED
1.006	S1014	3	97.476	0.986	0.000	0.73		535.4	SURCHARGED
1.007	S1015	4	97.157	1.408	0.000	2.02		590.4	FLOOD RISK
1.008	S1016	4	97.020	1.615	0.000	2.17		652.3	SURCHARGED
1.009	S1017	4	96.751	1.126	0.000	1.46		608.6	SURCHARGED
1.010	S1019	3	96.373	0.958	0.000	2.18		598.0	SURCHARGED
1.011	S1020	3	96.165	0.790	0.000	1.67		585.0	SURCHARGED
1.012	1018	4	95.929	0.637	0.000	1.62		573.3	SURCHARGED
6.000	S8143	2	97.577	0.477	0.000	0.45		84.0	SURCHARGED

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Summary Wizard of 15 minute 100 year Summer I+40% for Surface Network 4

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
6.001	S8130	2	97.513	0.803	0.000	0.57		151.7	SURCHARGED
6.002	S8158	2	97.466	0.976	0.000	0.77		140.7	SURCHARGED
6.003	S8129	2	97.371	1.051	0.000	0.49		162.1	SURCHARGED
7.000	S4004	2	97.325	1.225	2.385	1.24		80.8	FLOOD
6.004	S4005	2	97.297	1.329	0.000	1.10		264.8	FLOOD RISK
6.005	S8122	2	97.014	1.264	0.000	1.15		277.6	FLOOD RISK
8.000	S8126	3	96.721	1.121	0.000	0.50		34.5	FLOOD RISK
6.006	S8123	3	96.688	1.178	0.000	1.85		357.1	FLOOD RISK
6.007	S8125	4	96.210	0.850	0.000	1.37		380.9	SURCHARGED
6.008	S4020	4	95.924	0.751	0.000	1.79		432.0	FLOOD RISK
6.009	S4021	5	95.796	0.663	0.000	3.88		435.2	FLOOD RISK
1.013	S4022	9	95.672	0.477	0.000	3.80		923.1	SURCHARGED
1.014	S4023	42	95.014	-0.161	0.000	0.02		7.1	OK

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Summary Wizard of 30 minute 100 year Summer I+40% for Surface Network 4

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.409
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.300	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 40

PN	US/MH Name	Storm	Water Level Rank	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S1002	69	99.970	-0.225	0.000	0.00		0.0	OK
1.001	S1003	3	99.394	-0.196	0.000	0.26		45.2	OK
1.002	S1004	3	98.924	-0.156	0.000	0.46		65.4	OK
2.000	S1005	3	98.936	-0.123	0.000	0.65		80.0	OK
1.003	S1006	3	98.552	-0.093	0.000	0.80		193.3	OK
3.000	S1007	4	97.714	0.744	0.000	0.37		87.7	SURCHARGED
3.001	S1008	4	97.681	0.971	0.000	0.45		71.5	SURCHARGED
1.004	S1009	4	97.650	1.042	0.000	1.31		340.3	SURCHARGED
4.000	S1010	3	98.123	-0.177	0.000	0.35		70.5	OK
4.001	S1011	4	97.654	0.384	0.000	0.44		68.2	SURCHARGED
1.005	S1012	4	97.578	1.048	0.000	2.06		424.9	SURCHARGED
5.000	S1013	4	97.493	0.481	0.000	0.28		51.1	SURCHARGED
1.006	S1014	4	97.459	0.969	0.000	0.67		492.6	SURCHARGED
1.007	S1015	3	97.186	1.437	0.000	1.83		534.4	FLOOD RISK
1.008	S1016	3	97.028	1.623	0.000	2.03		610.1	SURCHARGED
1.009	S1017	3	96.767	1.142	0.000	1.42		592.7	SURCHARGED
1.010	S1019	4	96.369	0.954	0.000	2.13		585.7	SURCHARGED
1.011	S1020	4	96.162	0.787	0.000	1.66		579.5	SURCHARGED
1.012	1018	3	95.934	0.642	0.000	1.62		573.7	SURCHARGED
6.000	S8143	3	97.438	0.338	0.000	0.41		76.6	SURCHARGED

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Summary Wizard of 30 minute 100 year Summer I+40% for Surface Network 4

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
6.001	S8130	4	97.388	0.678	0.000	0.48		126.5	SURCHARGED
6.002	S8158	4	97.346	0.856	0.000	0.71		129.4	SURCHARGED
6.003	S8129	4	97.271	0.951	0.000	0.44		146.7	SURCHARGED
7.000	S4004	4	97.322	1.222	0.237	1.17		76.4	FLOOD
6.004	S4005	4	97.211	1.242	0.000	1.05		254.0	SURCHARGED
6.005	S8122	4	96.957	1.207	0.000	1.10		264.5	FLOOD RISK
8.000	S8126	4	96.708	1.108	0.000	0.47		32.3	FLOOD RISK
6.006	S8123	4	96.681	1.171	0.000	1.73		334.6	FLOOD RISK
6.007	S8125	3	96.250	0.890	0.000	1.28		357.5	SURCHARGED
6.008	S4020	3	95.962	0.789	0.000	1.69		408.7	FLOOD RISK
6.009	S4021	3	95.824	0.691	0.000	3.68		412.8	FLOOD RISK
1.013	S4022	8	95.684	0.489	0.000	3.83		931.3	SURCHARGED
1.014	S4023	32	95.142	-0.033	0.000	0.02		7.1	OK

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Summary Wizard of 60 minute 100 year Summer I+40% for Surface Network 4

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.409
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.300	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 40

PN	US/MH Name	Storm	Water Level Rank	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S1002	70	99.970	-0.225	0.000	0.00		0.0	OK
1.001	S1003	5	99.377	-0.213	0.000	0.19		32.2	OK
1.002	S1004	5	98.899	-0.181	0.000	0.33		46.6	OK
2.000	S1005	5	98.905	-0.154	0.000	0.47		57.8	OK
1.003	S1006	5	98.511	-0.134	0.000	0.57		138.1	OK
3.000	S1007	5	96.937	-0.033	0.000	0.29		67.7	OK
3.001	S1008	5	96.908	0.198	0.000	0.37		59.8	SURCHARGED
1.004	S1009	5	96.884	0.276	0.000	0.98		253.9	SURCHARGED
4.000	S1010	5	98.103	-0.197	0.000	0.26		50.9	OK
4.001	S1011	5	97.089	-0.181	0.000	0.32		50.1	OK
1.005	S1012	5	96.826	0.296	0.000	1.61		331.3	SURCHARGED
5.000	S1013	5	96.794	-0.218	0.000	0.21		38.2	OK
1.006	S1014	5	96.766	0.276	0.000	0.51		376.0	SURCHARGED
1.007	S1015	5	96.608	0.859	0.000	1.40		409.7	SURCHARGED
1.008	S1016	5	96.540	1.135	0.000	1.61		484.5	SURCHARGED
1.009	S1017	5	96.348	0.723	0.000	1.19		495.8	SURCHARGED
1.010	S1019	5	96.054	0.639	0.000	1.79		490.5	SURCHARGED
1.011	S1020	5	95.900	0.525	0.000	1.41		493.6	SURCHARGED
1.012	1018	8	95.732	0.440	0.000	1.38		489.5	SURCHARGED
6.000	S8143	5	96.869	-0.231	0.000	0.31		56.8	OK

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Summary Wizard of 60 minute 100 year Summer I+40% for Surface Network 4

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
6.001	S8130	5	96.664	-0.046	0.000	0.40		105.6	OK
6.002	S8158	5	96.634	0.144	0.000	0.60		110.2	SURCHARGED
6.003	S8129	5	96.590	0.270	0.000	0.36		118.9	SURCHARGED
7.000	S4004	5	96.655	0.555	0.000	0.89		58.5	SURCHARGED
6.004	S4005	5	96.550	0.581	0.000	0.83		200.4	SURCHARGED
6.005	S8122	5	96.393	0.643	0.000	0.87		209.5	SURCHARGED
8.000	S8126	5	96.232	0.632	0.000	0.36		24.9	SURCHARGED
6.006	S8123	5	96.208	0.698	0.000	1.39		267.7	SURCHARGED
6.007	S8125	5	95.899	0.539	0.000	1.04		290.4	SURCHARGED
6.008	S4020	9	95.705	0.532	0.000	1.39		336.0	SURCHARGED
6.009	S4021	13	95.642	0.509	0.000	3.05		342.0	SURCHARGED
1.013	S4022	17	95.553	0.358	0.000	3.33		809.2	SURCHARGED
1.014	S4023	20	95.265	0.090	0.000	0.02		7.1	SURCHARGED

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Summary Wizard of 120 minute 100 year Summer I+40% for Surface Network 4

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.409
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.300	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 40

PN	US/MH Name	Storm	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S1002	57	99.970	-0.225	0.000	0.00		0.0	OK
1.001	S1003	11	99.357	-0.233	0.000	0.11		19.7	OK
1.002	S1004	11	98.871	-0.209	0.000	0.20		28.8	OK
2.000	S1005	11	98.872	-0.187	0.000	0.30		37.2	OK
1.003	S1006	11	98.470	-0.175	0.000	0.36		87.5	OK
3.000	S1007	10	96.668	-0.302	0.000	0.19		44.3	OK
3.001	S1008	10	96.608	-0.102	0.000	0.27		43.7	OK
1.004	S1009	10	96.588	-0.020	0.000	0.63		163.8	OK
4.000	S1010	11	98.081	-0.219	0.000	0.16		32.8	OK
4.001	S1011	11	97.063	-0.207	0.000	0.21		32.7	OK
1.005	S1012	9	96.530	0.000	0.000	1.02		211.0	OK
5.000	S1013	11	96.729	-0.283	0.000	0.14		25.2	OK
1.006	S1014	10	96.149	-0.341	0.000	0.37		270.7	OK
1.007	S1015	7	95.952	0.203	0.000	1.01		295.2	SURCHARGED
1.008	S1016	7	95.906	0.501	0.000	1.17		350.7	SURCHARGED
1.009	S1017	8	95.785	0.160	0.000	0.89		369.7	SURCHARGED
1.010	S1019	17	95.615	0.200	0.000	1.35		369.9	SURCHARGED
1.011	S1020	19	95.560	0.185	0.000	1.06		369.1	SURCHARGED
1.012	1018	23	95.470	0.178	0.000	1.03		365.6	SURCHARGED
6.000	S8143	11	96.838	-0.262	0.000	0.20		36.9	OK

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Summary Wizard of 120 minute 100 year Summer I+40% for Surface Network 4

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
6.001	S8130	11	96.414	-0.296	0.000	0.25		67.3	OK
6.002	S8158	11	96.240	-0.250	0.000	0.41		74.5	OK
6.003	S8129	11	96.033	-0.287	0.000	0.28		93.8	OK
7.000	S4004	9	95.996	-0.104	0.000	0.63		40.9	OK
6.004	S4005	8	95.946	-0.022	0.000	0.63		151.5	OK
6.005	S8122	7	95.857	0.107	0.000	0.64		153.6	SURCHARGED
8.000	S8126	9	95.770	0.170	0.000	0.25		17.1	SURCHARGED
6.006	S8123	10	95.753	0.243	0.000	1.01		195.3	SURCHARGED
6.007	S8125	19	95.585	0.225	0.000	0.76		210.6	SURCHARGED
6.008	S4020	23	95.468	0.295	0.000	1.01		244.2	SURCHARGED
6.009	S4021	24	95.425	0.292	0.000	2.21		247.5	SURCHARGED
1.013	S4022	24	95.387	0.192	0.000	2.52		612.9	SURCHARGED
1.014	S4023	18	95.387	0.212	0.000	0.02		7.1	SURCHARGED

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Summary Wizard of 180 minute 100 year Summer I+40% for Surface Network 4

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.409
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.300	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 40

PN	US/MH Name	Storm	Water Level Rank	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S1002	58	99.970	-0.225	0.000	0.00		0.0	OK
1.001	S1003	13	99.350	-0.240	0.000	0.09		15.4	OK
1.002	S1004	13	98.859	-0.221	0.000	0.16		22.5	OK
2.000	S1005	13	98.858	-0.201	0.000	0.24		29.2	OK
1.003	S1006	13	98.454	-0.191	0.000	0.28		68.4	OK
3.000	S1007	13	96.635	-0.335	0.000	0.15		35.0	OK
3.001	S1008	14	96.451	-0.259	0.000	0.21		34.1	OK
1.004	S1009	14	96.420	-0.188	0.000	0.52		134.8	OK
4.000	S1010	13	98.071	-0.229	0.000	0.13		25.7	OK
4.001	S1011	13	97.052	-0.218	0.000	0.17		25.5	OK
1.005	S1012	14	96.365	-0.165	0.000	0.86		177.3	OK
5.000	S1013	13	96.719	-0.293	0.000	0.11		19.8	OK
1.006	S1014	14	96.117	-0.373	0.000	0.30		223.2	OK
1.007	S1015	18	95.700	-0.049	0.000	0.85		248.3	OK
1.008	S1016	21	95.649	0.244	0.000	0.98		295.4	SURCHARGED
1.009	S1017	26	95.574	-0.051	0.000	0.74		306.9	OK
1.010	S1019	28	95.465	0.050	0.000	1.10		301.8	SURCHARGED
1.011	S1020	26	95.461	0.086	0.000	0.86		301.8	SURCHARGED
1.012	1018	24	95.457	0.165	0.000	0.85		300.1	SURCHARGED
6.000	S8143	13	96.824	-0.276	0.000	0.16		29.0	OK

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Summary Wizard of 180 minute 100 year Summer I+40% for Surface Network 4

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
6.001	S8130	13	96.396	-0.314	0.000	0.20		52.6	OK
6.002	S8158	13	96.215	-0.275	0.000	0.32		58.1	OK
6.003	S8129	13	96.013	-0.307	0.000	0.22		72.9	OK
7.000	S4004	13	95.949	-0.151	0.000	0.49		32.1	OK
6.004	S4005	16	95.752	-0.217	0.000	0.52		125.1	OK
6.005	S8122	25	95.587	-0.163	0.000	0.54		129.2	OK
8.000	S8126	27	95.539	-0.061	0.000	0.20		13.9	OK
6.006	S8123	27	95.526	0.016	0.000	0.84		161.9	SURCHARGED
6.007	S8125	26	95.461	0.101	0.000	0.62		172.7	SURCHARGED
6.008	S4020	24	95.456	0.283	0.000	0.82		199.1	SURCHARGED
6.009	S4021	23	95.455	0.322	0.000	1.80		201.7	SURCHARGED
1.013	S4022	23	95.454	0.259	0.000	2.02		492.4	SURCHARGED
1.014	S4023	17	95.453	0.278	0.000	0.02		7.1	SURCHARGED

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Summary Wizard of 240 minute 100 year Summer I+40% for Surface Network 4

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.409
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.300	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 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	S1002	55	99.970	-0.225	0.000	0.00		0.0	OK
1.001	S1003	16	99.342	-0.248	0.000	0.07		12.4	OK
1.002	S1004	16	98.850	-0.230	0.000	0.13		18.1	OK
2.000	S1005	16	98.848	-0.211	0.000	0.19		23.4	OK
1.003	S1006	16	98.442	-0.203	0.000	0.23		55.1	OK
3.000	S1007	16	96.622	-0.348	0.000	0.12		28.0	OK
3.001	S1008	16	96.409	-0.301	0.000	0.17		27.8	OK
1.004	S1009	16	96.360	-0.248	0.000	0.42		110.5	OK
4.000	S1010	16	98.064	-0.236	0.000	0.10		20.6	OK
4.001	S1011	16	97.043	-0.227	0.000	0.13		20.6	OK
1.005	S1012	16	96.304	-0.226	0.000	0.70		144.4	OK
5.000	S1013	16	96.711	-0.301	0.000	0.09		15.9	OK
1.006	S1014	16	96.093	-0.397	0.000	0.25		182.7	OK
1.007	S1015	29	95.571	-0.178	0.000	0.70		204.0	OK
1.008	S1016	30	95.525	0.120	0.000	0.81		242.7	SURCHARGED
1.009	S1017	29	95.512	-0.113	0.000	0.61		253.7	OK
1.010	S1019	24	95.506	0.091	0.000	0.92		253.0	SURCHARGED
1.011	S1020	23	95.503	0.128	0.000	0.72		252.1	SURCHARGED
1.012	1018	21	95.500	0.208	0.000	0.70		249.6	SURCHARGED
6.000	S8143	16	96.813	-0.287	0.000	0.13		23.3	OK

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Summary Wizard of 240 minute 100 year Summer I+40% for Surface Network 4

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
6.001	S8130	16	96.380	-0.330	0.000	0.16		42.4	OK
6.002	S8158	16	96.195	-0.295	0.000	0.26		47.0	OK
6.003	S8129	16	95.997	-0.323	0.000	0.18		59.2	OK
7.000	S4004	16	95.931	-0.169	0.000	0.40		25.9	OK
6.004	S4005	20	95.723	-0.246	0.000	0.42		101.7	OK
6.005	S8122	30	95.514	-0.236	0.000	0.44		106.4	OK
8.000	S8126	28	95.511	-0.089	0.000	0.17		11.4	OK
6.006	S8123	28	95.510	0.000	0.000	0.70		136.0	OK
6.007	S8125	23	95.505	0.145	0.000	0.53		146.5	SURCHARGED
6.008	S4020	21	95.500	0.327	0.000	0.70		169.4	SURCHARGED
6.009	S4021	21	95.498	0.365	0.000	1.54		172.7	SURCHARGED
1.013	S4022	21	95.497	0.302	0.000	1.72		419.2	SURCHARGED
1.014	S4023	15	95.497	0.322	0.000	0.02		7.1	SURCHARGED

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Summary Wizard of 360 minute 100 year Summer I+40% for Surface Network 4

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.409
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.300	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 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	S1002	56	99.970	-0.225	0.000	0.00		0.0	OK
1.001	S1003	21	99.334	-0.256	0.000	0.05		9.0	OK
1.002	S1004	21	98.841	-0.239	0.000	0.09		13.1	OK
2.000	S1005	23	98.833	-0.226	0.000	0.14		17.0	OK
1.003	S1006	22	98.426	-0.219	0.000	0.17		40.0	OK
3.000	S1007	23	96.608	-0.362	0.000	0.09		20.4	OK
3.001	S1008	22	96.371	-0.339	0.000	0.13		20.4	OK
1.004	S1009	22	96.293	-0.315	0.000	0.31		80.8	OK
4.000	S1010	23	98.054	-0.246	0.000	0.08		15.0	OK
4.001	S1011	23	97.032	-0.238	0.000	0.10		15.0	OK
1.005	S1012	21	96.235	-0.295	0.000	0.51		106.0	OK
5.000	S1013	23	96.697	-0.315	0.000	0.06		11.5	OK
1.006	S1014	21	96.062	-0.428	0.000	0.18		134.1	OK
1.007	S1015	30	95.568	-0.181	0.000	0.52		150.6	OK
1.008	S1016	28	95.566	0.161	0.000	0.60		179.4	SURCHARGED
1.009	S1017	27	95.563	-0.062	0.000	0.45		185.7	OK
1.010	S1019	22	95.558	0.143	0.000	0.66		182.1	SURCHARGED
1.011	S1020	21	95.556	0.181	0.000	0.52		181.8	SURCHARGED
1.012	1018	20	95.553	0.261	0.000	0.51		180.5	SURCHARGED
6.000	S8143	23	96.801	-0.299	0.000	0.09		16.9	OK

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Summary Wizard of 360 minute 100 year Summer I+40% for Surface Network 4

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
6.001	S8130	22	96.362	-0.348	0.000	0.12		30.8	OK
6.002	S8158	22	96.171	-0.319	0.000	0.19		34.2	OK
6.003	S8129	22	95.977	-0.343	0.000	0.13		43.1	OK
7.000	S4004	23	95.909	-0.191	0.000	0.29		18.8	OK
6.004	S4005	27	95.689	-0.280	0.000	0.31		74.1	OK
6.005	S8122	27	95.563	-0.187	0.000	0.32		77.6	OK
8.000	S8126	26	95.561	-0.039	0.000	0.12		8.3	OK
6.006	S8123	26	95.560	0.050	0.000	0.51		97.7	SURCHARGED
6.007	S8125	21	95.557	0.197	0.000	0.37		102.5	SURCHARGED
6.008	S4020	19	95.554	0.380	0.000	0.48		115.9	SURCHARGED
6.009	S4021	19	95.552	0.419	0.000	1.06		119.0	SURCHARGED
1.013	S4022	18	95.552	0.357	0.000	1.23		299.3	SURCHARGED
1.014	S4023	13	95.551	0.376	0.000	0.02		7.1	SURCHARGED

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Summary Wizard of 480 minute 100 year Summer I+40% for Surface Network 4

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.409
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.300	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 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	S1002	59	99.970	-0.225	0.000	0.00		0.0	OK
1.001	S1003	27	99.329	-0.261	0.000	0.04		7.1	OK
1.002	S1004	27	98.833	-0.247	0.000	0.07		10.4	OK
2.000	S1005	27	98.825	-0.234	0.000	0.11		13.5	OK
1.003	S1006	27	98.417	-0.228	0.000	0.13		31.8	OK
3.000	S1007	27	96.597	-0.373	0.000	0.07		16.2	OK
3.001	S1008	27	96.355	-0.355	0.000	0.10		16.2	OK
1.004	S1009	27	96.256	-0.352	0.000	0.25		64.3	OK
4.000	S1010	27	98.047	-0.253	0.000	0.06		11.9	OK
4.001	S1011	27	97.025	-0.245	0.000	0.08		11.9	OK
1.005	S1012	27	96.196	-0.334	0.000	0.41		84.4	OK
5.000	S1013	27	96.690	-0.322	0.000	0.05		9.2	OK
1.006	S1014	27	96.041	-0.449	0.000	0.14		106.8	OK
1.007	S1015	26	95.604	-0.145	0.000	0.41		120.4	OK
1.008	S1016	25	95.602	0.197	0.000	0.48		144.5	SURCHARGED
1.009	S1017	23	95.600	-0.025	0.000	0.36		150.6	OK
1.010	S1019	19	95.593	0.178	0.000	0.53		144.3	SURCHARGED
1.011	S1020	18	95.591	0.216	0.000	0.41		142.4	SURCHARGED
1.012	1018	18	95.589	0.297	0.000	0.39		138.0	SURCHARGED
6.000	S8143	27	96.791	-0.309	0.000	0.07		13.4	OK

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Summary Wizard of 480 minute 100 year Summer I+40% for Surface Network 4

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
6.001	S8130	27	96.352	-0.358	0.000	0.09		24.5	OK
6.002	S8158	27	96.155	-0.335	0.000	0.15		27.3	OK
6.003	S8129	27	95.966	-0.354	0.000	0.10		34.3	OK
7.000	S4004	27	95.897	-0.203	0.000	0.23		15.0	OK
6.004	S4005	34	95.669	-0.300	0.000	0.24		59.0	OK
6.005	S8122	24	95.597	-0.153	0.000	0.26		61.8	OK
8.000	S8126	23	95.596	-0.004	0.000	0.10		6.6	OK
6.006	S8123	23	95.595	0.085	0.000	0.41		78.7	SURCHARGED
6.007	S8125	18	95.592	0.232	0.000	0.30		83.9	SURCHARGED
6.008	S4020	18	95.590	0.416	0.000	0.40		95.5	SURCHARGED
6.009	S4021	17	95.588	0.455	0.000	0.87		97.4	SURCHARGED
1.013	S4022	16	95.588	0.393	0.000	0.95		230.7	SURCHARGED
1.014	S4023	12	95.588	0.413	0.000	0.02		7.1	SURCHARGED

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Summary Wizard of 600 minute 100 year Summer I+40% for Surface Network 4

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.409
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.300	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 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	S1002	62	99.970	-0.225	0.000	0.00		0.0	OK
1.001	S1003	32	99.326	-0.264	0.000	0.03		6.0	OK
1.002	S1004	32	98.828	-0.252	0.000	0.06		8.7	OK
2.000	S1005	32	98.820	-0.239	0.000	0.09		11.3	OK
1.003	S1006	32	98.411	-0.234	0.000	0.11		26.7	OK
3.000	S1007	32	96.589	-0.381	0.000	0.06		13.6	OK
3.001	S1008	32	96.348	-0.362	0.000	0.08		13.6	OK
1.004	S1009	32	96.232	-0.376	0.000	0.21		53.9	OK
4.000	S1010	32	98.043	-0.257	0.000	0.05		10.0	OK
4.001	S1011	32	97.019	-0.251	0.000	0.06		10.0	OK
1.005	S1012	32	96.172	-0.358	0.000	0.34		70.7	OK
5.000	S1013	32	96.686	-0.326	0.000	0.04		7.7	OK
1.006	S1014	32	96.028	-0.462	0.000	0.12		89.4	OK
1.007	S1015	25	95.628	-0.121	0.000	0.35		100.8	OK
1.008	S1016	24	95.627	0.222	0.000	0.40		120.8	SURCHARGED
1.009	S1017	20	95.625	0.000	0.000	0.30		125.7	OK
1.010	S1019	16	95.616	0.201	0.000	0.44		119.6	SURCHARGED
1.011	S1020	16	95.615	0.240	0.000	0.34		118.2	SURCHARGED
1.012	1018	16	95.613	0.321	0.000	0.32		115.3	SURCHARGED
6.000	S8143	32	96.785	-0.315	0.000	0.06		11.3	OK

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Summary Wizard of 600 minute 100 year Summer I+40% for Surface Network 4

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
6.001	S8130	32	96.343	-0.367	0.000	0.08		20.5	OK
6.002	S8158	32	96.145	-0.345	0.000	0.12		22.8	OK
6.003	S8129	32	95.958	-0.362	0.000	0.09		28.7	OK
7.000	S4004	32	95.889	-0.211	0.000	0.19		12.5	OK
6.004	S4005	39	95.656	-0.312	0.000	0.20		49.4	OK
6.005	S8122	22	95.620	-0.130	0.000	0.21		51.7	OK
8.000	S8126	21	95.618	0.018	0.000	0.08		5.5	SURCHARGED
6.006	S8123	20	95.618	0.108	0.000	0.34		65.8	SURCHARGED
6.007	S8125	16	95.615	0.255	0.000	0.25		69.7	SURCHARGED
6.008	S4020	16	95.613	0.440	0.000	0.33		79.1	SURCHARGED
6.009	S4021	15	95.612	0.479	0.000	0.72		80.8	SURCHARGED
1.013	S4022	14	95.612	0.417	0.000	0.79		192.8	SURCHARGED
1.014	S4023	10	95.612	0.437	0.000	0.02		7.1	SURCHARGED

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Summary Wizard of 720 minute 100 year Summer I+40% for Surface Network 4

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.409
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.300	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 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	S1002	63	99.970	-0.225	0.000	0.00		0.0	OK
1.001	S1003	35	99.324	-0.266	0.000	0.03		5.2	OK
1.002	S1004	35	98.824	-0.256	0.000	0.05		7.5	OK
2.000	S1005	35	98.815	-0.244	0.000	0.08		9.8	OK
1.003	S1006	35	98.407	-0.238	0.000	0.10		23.0	OK
3.000	S1007	35	96.584	-0.386	0.000	0.05		11.7	OK
3.001	S1008	35	96.340	-0.370	0.000	0.07		11.7	OK
1.004	S1009	35	96.214	-0.394	0.000	0.18		46.6	OK
4.000	S1010	35	98.040	-0.260	0.000	0.04		8.6	OK
4.001	S1011	35	97.015	-0.255	0.000	0.06		8.6	OK
1.005	S1012	35	96.152	-0.378	0.000	0.30		61.1	OK
5.000	S1013	35	96.683	-0.329	0.000	0.04		6.7	OK
1.006	S1014	35	96.019	-0.471	0.000	0.10		77.3	OK
1.007	S1015	22	95.639	-0.110	0.000	0.30		87.1	OK
1.008	S1016	22	95.638	0.233	0.000	0.35		104.2	SURCHARGED
1.009	S1017	18	95.636	0.011	0.000	0.26		108.3	SURCHARGED
1.010	S1019	15	95.634	0.219	0.000	0.37		102.6	SURCHARGED
1.011	S1020	15	95.632	0.257	0.000	0.29		101.4	SURCHARGED
1.012	1018	15	95.631	0.339	0.000	0.28		98.9	SURCHARGED
6.000	S8143	35	96.780	-0.320	0.000	0.05		9.7	OK

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Summary Wizard of 720 minute 100 year Summer I+40% for Surface Network 4

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
6.001	S8130	35	96.336	-0.374	0.000	0.07		17.7	OK
6.002	S8158	35	96.138	-0.352	0.000	0.11		19.7	OK
6.003	S8129	35	95.951	-0.369	0.000	0.07		24.8	OK
7.000	S4004	35	95.881	-0.219	0.000	0.17		10.8	OK
6.004	S4005	41	95.645	-0.323	0.000	0.18		42.7	OK
6.005	S8122	21	95.637	-0.113	0.000	0.19		44.7	OK
8.000	S8126	18	95.635	0.035	0.000	0.07		4.8	SURCHARGED
6.006	S8123	17	95.635	0.125	0.000	0.29		56.8	SURCHARGED
6.007	S8125	15	95.633	0.273	0.000	0.22		60.1	SURCHARGED
6.008	S4020	15	95.631	0.458	0.000	0.28		68.3	SURCHARGED
6.009	S4021	14	95.630	0.497	0.000	0.62		69.6	SURCHARGED
1.013	S4022	13	95.630	0.435	0.000	0.68		165.8	SURCHARGED
1.014	S4023	9	95.630	0.455	0.000	0.02		7.1	SURCHARGED

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Summary Wizard of 960 minute 100 year Summer I+40% for Surface Network 4

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.409
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.300	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 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	S1002	60	99.970	-0.225	0.000	0.00		0.0	OK
1.001	S1003	40	99.321	-0.269	0.000	0.02		4.1	OK
1.002	S1004	40	98.819	-0.261	0.000	0.04		6.0	OK
2.000	S1005	40	98.808	-0.251	0.000	0.06		7.8	OK
1.003	S1006	40	98.399	-0.246	0.000	0.08		18.3	OK
3.000	S1007	40	96.577	-0.393	0.000	0.04		9.3	OK
3.001	S1008	40	96.330	-0.380	0.000	0.06		9.3	OK
1.004	S1009	40	96.190	-0.418	0.000	0.14		37.0	OK
4.000	S1010	40	98.036	-0.264	0.000	0.03		6.8	OK
4.001	S1011	40	97.010	-0.260	0.000	0.04		6.8	OK
1.005	S1012	40	96.126	-0.404	0.000	0.24		48.5	OK
5.000	S1013	40	96.679	-0.333	0.000	0.03		5.3	OK
1.006	S1014	40	96.005	-0.485	0.000	0.08		61.4	OK
1.007	S1015	21	95.660	-0.089	0.000	0.24		69.2	OK
1.008	S1016	20	95.659	0.254	0.000	0.28		82.6	SURCHARGED
1.009	S1017	16	95.657	0.032	0.000	0.21		85.7	SURCHARGED
1.010	S1019	14	95.655	0.240	0.000	0.30		81.2	SURCHARGED
1.011	S1020	14	95.654	0.279	0.000	0.23		80.2	SURCHARGED
1.012	1018	14	95.653	0.361	0.000	0.22		78.3	SURCHARGED
6.000	S8143	40	96.774	-0.326	0.000	0.04		7.7	OK

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Summary Wizard of 960 minute 100 year Summer I+40% for Surface Network 4

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
6.001	S8130	40	96.326	-0.384	0.000	0.05		14.1	OK
6.002	S8158	40	96.128	-0.362	0.000	0.09		15.7	OK
6.003	S8129	40	95.940	-0.380	0.000	0.06		19.7	OK
7.000	S4004	40	95.872	-0.228	0.000	0.13		8.6	OK
6.004	S4005	38	95.659	-0.309	0.000	0.14		33.9	OK
6.005	S8122	19	95.658	-0.092	0.000	0.15		35.5	OK
8.000	S8126	16	95.656	0.056	0.000	0.06		3.8	SURCHARGED
6.006	S8123	16	95.657	0.147	0.000	0.23		45.1	SURCHARGED
6.007	S8125	14	95.655	0.295	0.000	0.17		47.8	SURCHARGED
6.008	S4020	13	95.653	0.480	0.000	0.23		54.5	SURCHARGED
6.009	S4021	12	95.653	0.520	0.000	0.50		55.6	SURCHARGED
1.013	S4022	12	95.652	0.457	0.000	0.54		131.8	SURCHARGED
1.014	S4023	8	95.652	0.477	0.000	0.02		7.1	SURCHARGED

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Summary Wizard of 1440 minute 100 year Summer I+40% for Surface Network 4

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.409
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.300	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 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	S1002	61	99.970	-0.225	0.000	0.00		0.0	OK
1.001	S1003	49	99.314	-0.276	0.000	0.02		3.0	OK
1.002	S1004	49	98.814	-0.266	0.000	0.03		4.3	OK
2.000	S1005	49	98.800	-0.259	0.000	0.05		5.6	OK
1.003	S1006	49	98.390	-0.255	0.000	0.05		13.2	OK
3.000	S1007	49	96.570	-0.400	0.000	0.03		6.7	OK
3.001	S1008	49	96.319	-0.391	0.000	0.04		6.7	OK
1.004	S1009	49	96.159	-0.449	0.000	0.10		26.7	OK
4.000	S1010	49	98.032	-0.268	0.000	0.02		4.9	OK
4.001	S1011	49	97.005	-0.265	0.000	0.03		4.9	OK
1.005	S1012	49	96.095	-0.435	0.000	0.17		35.0	OK
5.000	S1013	49	96.674	-0.338	0.000	0.02		3.8	OK
1.006	S1014	49	95.985	-0.505	0.000	0.06		44.3	OK
1.007	S1015	20	95.669	-0.080	0.000	0.17		49.9	OK
1.008	S1016	19	95.669	0.264	0.000	0.20		59.5	SURCHARGED
1.009	S1017	15	95.668	0.043	0.000	0.15		61.5	SURCHARGED
1.010	S1019	12	95.668	0.253	0.000	0.21		58.2	SURCHARGED
1.011	S1020	12	95.667	0.292	0.000	0.16		57.5	SURCHARGED
1.012	1018	11	95.666	0.374	0.000	0.16		56.3	SURCHARGED
6.000	S8143	49	96.768	-0.332	0.000	0.03		5.6	OK

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Summary Wizard of 1440 minute 100 year Summer I+40% for Surface Network 4

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
6.001	S8130	49	96.317	-0.393	0.000	0.04		10.2	OK
6.002	S8158	49	96.112	-0.378	0.000	0.06		11.3	OK
6.003	S8129	49	95.929	-0.391	0.000	0.04		14.2	OK
7.000	S4004	49	95.862	-0.238	0.000	0.09		6.2	OK
6.004	S4005	33	95.671	-0.298	0.000	0.10		24.5	OK
6.005	S8122	17	95.670	-0.080	0.000	0.11		25.6	OK
8.000	S8126	14	95.669	0.069	0.000	0.04		2.7	SURCHARGED
6.006	S8123	14	95.669	0.159	0.000	0.17		32.5	SURCHARGED
6.007	S8125	12	95.667	0.307	0.000	0.12		34.4	SURCHARGED
6.008	S4020	11	95.666	0.493	0.000	0.16		39.3	SURCHARGED
6.009	S4021	10	95.666	0.533	0.000	0.36		40.1	SURCHARGED
1.013	S4022	10	95.665	0.470	0.000	0.39		95.1	SURCHARGED
1.014	S4023	6	95.664	0.489	0.000	0.02		7.1	SURCHARGED

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Summary Wizard of 15 minute 1 year Winter I+0% for Surface Network 4

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.409
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.300	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 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	S1002	12	99.970	-0.225	0.000	0.00		0.0	OK
1.001	S1003	19	99.335	-0.255	0.000	0.05		9.3	OK
1.002	S1004	19	98.842	-0.238	0.000	0.09		13.5	OK
2.000	S1005	18	98.842	-0.217	0.000	0.17		20.8	OK
1.003	S1006	19	98.432	-0.213	0.000	0.18		44.2	OK
3.000	S1007	18	96.617	-0.353	0.000	0.10		24.5	OK
3.001	S1008	19	96.382	-0.328	0.000	0.15		23.9	OK
1.004	S1009	19	96.304	-0.304	0.000	0.33		85.5	OK
4.000	S1010	18	98.061	-0.239	0.000	0.09		18.3	OK
4.001	S1011	18	97.039	-0.231	0.000	0.12		18.1	OK
1.005	S1012	19	96.244	-0.286	0.000	0.54		110.4	OK
5.000	S1013	18	96.706	-0.306	0.000	0.08		14.0	OK
1.006	S1014	20	96.064	-0.426	0.000	0.19		137.1	OK
1.007	S1015	32	95.423	-0.326	0.000	0.52		152.2	OK
1.008	S1016	34	95.300	-0.105	0.000	0.58		175.2	OK
1.009	S1017	34	95.263	-0.362	0.000	0.41		171.6	OK
1.010	S1019	45	95.141	-0.274	0.000	0.56		153.0	OK
1.011	S1020	48	95.098	-0.277	0.000	0.43		149.2	OK
1.012	1018	49	95.041	-0.251	0.000	0.41		147.0	OK
6.000	S8143	18	96.808	-0.292	0.000	0.11		20.4	OK

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Summary Wizard of 15 minute 1 year Winter I+0% for Surface Network 4

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
6.001	S8130	19	96.369	-0.341	0.000	0.13		34.6	OK
6.002	S8158	19	96.180	-0.310	0.000	0.21		38.1	OK
6.003	S8129	19	95.982	-0.338	0.000	0.14		46.8	OK
7.000	S4004	18	95.923	-0.177	0.000	0.35		22.7	OK
6.004	S4005	24	95.699	-0.269	0.000	0.34		81.1	OK
6.005	S8122	32	95.484	-0.266	0.000	0.35		84.5	OK
8.000	S8126	32	95.377	-0.223	0.000	0.15		10.0	OK
6.006	S8123	32	95.298	-0.212	0.000	0.55		105.3	OK
6.007	S8125	48	95.097	-0.263	0.000	0.39		108.7	OK
6.008	S4020	49	95.041	-0.132	0.000	0.47		114.7	OK
6.009	S4021	49	95.025	-0.108	0.000	1.02		113.8	OK
1.013	S4022	49	94.991	-0.204	0.000	0.90		217.8	OK
1.014	S4023	71	94.649	-0.526	0.000	0.01		4.2	OK

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Summary Wizard of 30 minute 1 year Winter I+0% for Surface Network 4

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.409
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.300	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 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	S1002	13	99.970	-0.225	0.000	0.00		0.0	OK
1.001	S1003	26	99.331	-0.259	0.000	0.05		7.9	OK
1.002	S1004	26	98.837	-0.243	0.000	0.08		11.4	OK
2.000	S1005	24	98.831	-0.228	0.000	0.13		16.1	OK
1.003	S1006	26	98.422	-0.223	0.000	0.15		36.2	OK
3.000	S1007	24	96.605	-0.365	0.000	0.08		19.3	OK
3.001	S1008	26	96.364	-0.346	0.000	0.12		19.1	OK
1.004	S1009	26	96.272	-0.336	0.000	0.28		71.8	OK
4.000	S1010	24	98.052	-0.248	0.000	0.07		14.2	OK
4.001	S1011	24	97.031	-0.239	0.000	0.09		14.2	OK
1.005	S1012	26	96.213	-0.317	0.000	0.45		93.2	OK
5.000	S1013	24	96.696	-0.316	0.000	0.06		10.9	OK
1.006	S1014	26	96.049	-0.441	0.000	0.16		116.8	OK
1.007	S1015	37	95.391	-0.358	0.000	0.45		130.0	OK
1.008	S1016	36	95.280	-0.125	0.000	0.51		153.2	OK
1.009	S1017	35	95.249	-0.376	0.000	0.37		153.4	OK
1.010	S1019	49	95.128	-0.287	0.000	0.52		141.7	OK
1.011	S1020	50	95.086	-0.289	0.000	0.40		139.4	OK
1.012	1018	50	95.030	-0.262	0.000	0.39		137.6	OK
6.000	S8143	24	96.799	-0.301	0.000	0.09		16.0	OK

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Summary Wizard of 30 minute 1 year Winter I+0% for Surface Network 4

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
6.001	S8130	26	96.358	-0.352	0.000	0.11		28.2	OK
6.002	S8158	26	96.164	-0.326	0.000	0.17		31.1	OK
6.003	S8129	26	95.971	-0.349	0.000	0.12		38.7	OK
7.000	S4004	24	95.906	-0.194	0.000	0.27		17.8	OK
6.004	S4005	31	95.679	-0.289	0.000	0.28		66.8	OK
6.005	S8122	37	95.465	-0.285	0.000	0.29		69.3	OK
8.000	S8126	35	95.367	-0.233	0.000	0.11		7.9	OK
6.006	S8123	37	95.274	-0.236	0.000	0.46		88.3	OK
6.007	S8125	51	95.077	-0.283	0.000	0.33		92.2	OK
6.008	S4020	50	95.031	-0.143	0.000	0.40		96.9	OK
6.009	S4021	50	95.017	-0.116	0.000	0.86		95.9	OK
1.013	S4022	50	94.983	-0.212	0.000	0.87		211.7	OK
1.014	S4023	69	94.689	-0.486	0.000	0.01		5.5	OK

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Summary Wizard of 60 minute 1 year Winter I+0% for Surface Network 4

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.409
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.300	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 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	S1002	10	99.970	-0.225	0.000	0.00		0.0	OK
1.001	S1003	33	99.325	-0.265	0.000	0.03		5.5	OK
1.002	S1004	33	98.826	-0.254	0.000	0.06		8.1	OK
2.000	S1005	33	98.819	-0.240	0.000	0.09		10.7	OK
1.003	S1006	33	98.409	-0.236	0.000	0.10		24.8	OK
3.000	S1007	33	96.587	-0.383	0.000	0.05		12.7	OK
3.001	S1008	33	96.345	-0.365	0.000	0.08		12.8	OK
1.004	S1009	33	96.223	-0.385	0.000	0.19		50.0	OK
4.000	S1010	33	98.042	-0.258	0.000	0.05		9.4	OK
4.001	S1011	33	97.018	-0.252	0.000	0.06		9.4	OK
1.005	S1012	33	96.162	-0.368	0.000	0.32		65.0	OK
5.000	S1013	33	96.685	-0.327	0.000	0.04		7.2	OK
1.006	S1014	33	96.023	-0.467	0.000	0.11		82.0	OK
1.007	S1015	41	95.336	-0.413	0.000	0.32		92.7	OK
1.008	S1016	41	95.235	-0.170	0.000	0.37		110.8	OK
1.009	S1017	46	95.204	-0.421	0.000	0.27		113.7	OK
1.010	S1019	54	95.074	-0.341	0.000	0.40		109.1	OK
1.011	S1020	54	95.034	-0.341	0.000	0.31		108.5	OK
1.012	1018	54	94.979	-0.313	0.000	0.30		108.1	OK
6.000	S8143	33	96.783	-0.317	0.000	0.06		10.6	OK

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Summary Wizard of 60 minute 1 year Winter I+0% for Surface Network 4

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
6.001	S8130	33	96.339	-0.371	0.000	0.07		19.1	OK
6.002	S8158	33	96.142	-0.348	0.000	0.12		21.3	OK
6.003	S8129	33	95.954	-0.366	0.000	0.08		26.8	OK
7.000	S4004	33	95.886	-0.214	0.000	0.18		11.8	OK
6.004	S4005	40	95.651	-0.318	0.000	0.19		46.1	OK
6.005	S8122	41	95.436	-0.314	0.000	0.20		48.1	OK
8.000	S8126	41	95.355	-0.245	0.000	0.08		5.2	OK
6.006	S8123	41	95.234	-0.276	0.000	0.32		61.3	OK
6.007	S8125	54	95.034	-0.326	0.000	0.24		65.8	OK
6.008	S4020	54	94.980	-0.193	0.000	0.30		71.6	OK
6.009	S4021	54	94.968	-0.165	0.000	0.64		71.3	OK
1.013	S4022	54	94.936	-0.259	0.000	0.71		171.8	OK
1.014	S4023	67	94.731	-0.444	0.000	0.02		6.5	OK

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Summary Wizard of 120 minute 1 year Winter I+0% for Surface Network 4

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.409
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.300	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 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	S1002	11	99.970	-0.225	0.000	0.00		0.0	OK
1.001	S1003	44	99.319	-0.271	0.000	0.02		3.6	OK
1.002	S1004	44	98.817	-0.263	0.000	0.04		5.2	OK
2.000	S1005	45	98.804	-0.255	0.000	0.06		6.7	OK
1.003	S1006	45	98.395	-0.250	0.000	0.07		15.8	OK
3.000	S1007	45	96.574	-0.396	0.000	0.03		8.1	OK
3.001	S1008	45	96.325	-0.385	0.000	0.05		8.1	OK
1.004	S1009	45	96.176	-0.432	0.000	0.12		31.9	OK
4.000	S1010	45	98.034	-0.266	0.000	0.03		5.9	OK
4.001	S1011	45	97.008	-0.262	0.000	0.04		5.9	OK
1.005	S1012	45	96.113	-0.417	0.000	0.20		41.7	OK
5.000	S1013	45	96.677	-0.335	0.000	0.02		4.6	OK
1.006	S1014	45	95.996	-0.494	0.000	0.07		52.7	OK
1.007	S1015	47	95.281	-0.468	0.000	0.20		59.4	OK
1.008	S1016	52	95.184	-0.221	0.000	0.24		71.3	OK
1.009	S1017	54	95.150	-0.475	0.000	0.18		75.0	OK
1.010	S1019	56	95.005	-0.410	0.000	0.27		73.7	OK
1.011	S1020	56	94.961	-0.414	0.000	0.21		73.5	OK
1.012	1018	56	94.900	-0.392	0.000	0.21		73.6	OK
6.000	S8143	45	96.771	-0.329	0.000	0.04		6.7	OK

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Summary Wizard of 120 minute 1 year Winter I+0% for Surface Network 4

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
6.001	S8130	45	96.322	-0.388	0.000	0.05		12.2	OK
6.002	S8158	45	96.121	-0.369	0.000	0.07		13.5	OK
6.003	S8129	45	95.935	-0.385	0.000	0.05		17.0	OK
7.000	S4004	45	95.867	-0.233	0.000	0.11		7.5	OK
6.004	S4005	48	95.623	-0.346	0.000	0.12		29.2	OK
6.005	S8122	48	95.406	-0.344	0.000	0.13		30.6	OK
8.000	S8126	48	95.342	-0.258	0.000	0.05		3.3	OK
6.006	S8123	53	95.198	-0.312	0.000	0.20		39.2	OK
6.007	S8125	56	94.980	-0.380	0.000	0.15		42.2	OK
6.008	S4020	56	94.895	-0.279	0.000	0.20		47.5	OK
6.009	S4021	56	94.887	-0.246	0.000	0.43		48.5	OK
1.013	S4022	56	94.855	-0.340	0.000	0.49		120.3	OK
1.014	S4023	64	94.772	-0.403	0.000	0.02		6.7	OK

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Summary Wizard of 180 minute 1 year Winter I+0% for Surface Network 4

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.409
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.300	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 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	S1002	14	99.970	-0.225	0.000	0.00		0.0	OK
1.001	S1003	52	99.312	-0.278	0.000	0.02		2.7	OK
1.002	S1004	52	98.813	-0.267	0.000	0.03		3.9	OK
2.000	S1005	52	98.798	-0.261	0.000	0.04		5.1	OK
1.003	S1006	52	98.388	-0.257	0.000	0.05		12.0	OK
3.000	S1007	52	96.568	-0.402	0.000	0.03		6.2	OK
3.001	S1008	52	96.317	-0.393	0.000	0.04		6.1	OK
1.004	S1009	52	96.152	-0.456	0.000	0.09		24.2	OK
4.000	S1010	52	98.031	-0.269	0.000	0.02		4.5	OK
4.001	S1011	52	97.004	-0.266	0.000	0.03		4.5	OK
1.005	S1012	52	96.087	-0.443	0.000	0.15		31.9	OK
5.000	S1013	52	96.670	-0.342	0.000	0.02		3.5	OK
1.006	S1014	52	95.980	-0.510	0.000	0.05		40.3	OK
1.007	S1015	53	95.251	-0.498	0.000	0.16		45.5	OK
1.008	S1016	57	95.157	-0.248	0.000	0.18		54.9	OK
1.009	S1017	59	95.121	-0.504	0.000	0.14		57.5	OK
1.010	S1019	59	94.967	-0.448	0.000	0.21		57.1	OK
1.011	S1020	59	94.923	-0.452	0.000	0.16		57.0	OK
1.012	1018	59	94.858	-0.434	0.000	0.16		56.9	OK
6.000	S8143	52	96.766	-0.334	0.000	0.03		5.1	OK

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Summary Wizard of 180 minute 1 year Winter I+0% for Surface Network 4

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
6.001	S8130	52	96.314	-0.396	0.000	0.04		9.3	OK
6.002	S8158	52	96.109	-0.381	0.000	0.06		10.3	OK
6.003	S8129	52	95.927	-0.393	0.000	0.04		12.9	OK
7.000	S4004	52	95.859	-0.241	0.000	0.09		5.7	OK
6.004	S4005	53	95.610	-0.358	0.000	0.09		22.2	OK
6.005	S8122	53	95.393	-0.357	0.000	0.10		23.3	OK
8.000	S8126	53	95.337	-0.263	0.000	0.04		2.5	OK
6.006	S8123	57	95.178	-0.332	0.000	0.15		29.9	OK
6.007	S8125	59	94.954	-0.406	0.000	0.12		32.4	OK
6.008	S4020	59	94.846	-0.327	0.000	0.15		37.0	OK
6.009	S4021	59	94.840	-0.293	0.000	0.34		37.6	OK
1.013	S4022	66	94.810	-0.385	0.000	0.39		93.8	OK
1.014	S4023	60	94.795	-0.380	0.000	0.02		6.8	OK

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Summary Wizard of 240 minute 1 year Winter I+0% for Surface Network 4

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.409
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.300	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 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	S1002	17	99.970	-0.225	0.000	0.00		0.0	OK
1.001	S1003	56	99.308	-0.282	0.000	0.01		2.2	OK
1.002	S1004	56	98.811	-0.269	0.000	0.02		3.2	OK
2.000	S1005	56	98.795	-0.264	0.000	0.03		4.2	OK
1.003	S1006	56	98.384	-0.261	0.000	0.04		9.8	OK
3.000	S1007	56	96.565	-0.405	0.000	0.02		5.0	OK
3.001	S1008	56	96.312	-0.398	0.000	0.03		5.0	OK
1.004	S1009	56	96.138	-0.470	0.000	0.08		19.9	OK
4.000	S1010	56	98.026	-0.274	0.000	0.02		3.7	OK
4.001	S1011	56	97.001	-0.269	0.000	0.02		3.7	OK
1.005	S1012	56	96.071	-0.459	0.000	0.13		26.0	OK
5.000	S1013	56	96.664	-0.348	0.000	0.02		2.8	OK
1.006	S1014	56	95.971	-0.519	0.000	0.04		32.9	OK
1.007	S1015	57	95.234	-0.515	0.000	0.13		37.1	OK
1.008	S1016	61	95.142	-0.263	0.000	0.15		44.9	OK
1.009	S1017	61	95.103	-0.522	0.000	0.11		47.2	OK
1.010	S1019	60	94.945	-0.470	0.000	0.17		46.9	OK
1.011	S1020	60	94.899	-0.476	0.000	0.13		46.9	OK
1.012	1018	65	94.832	-0.460	0.000	0.13		46.9	OK
6.000	S8143	56	96.763	-0.337	0.000	0.02		4.2	OK

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Summary Wizard of 240 minute 1 year Winter I+0% for Surface Network 4

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
6.001	S8130	56	96.310	-0.400	0.000	0.03		7.6	OK
6.002	S8158	56	96.102	-0.388	0.000	0.05		8.4	OK
6.003	S8129	56	95.922	-0.398	0.000	0.03		10.6	OK
7.000	S4004	56	95.852	-0.248	0.000	0.07		4.6	OK
6.004	S4005	57	95.600	-0.369	0.000	0.08		18.2	OK
6.005	S8122	57	95.384	-0.366	0.000	0.08		19.1	OK
8.000	S8126	57	95.334	-0.266	0.000	0.03		2.0	OK
6.006	S8123	60	95.166	-0.344	0.000	0.13		24.5	OK
6.007	S8125	61	94.943	-0.417	0.000	0.09		26.4	OK
6.008	S4020	66	94.816	-0.357	0.000	0.13		30.3	OK
6.009	S4021	66	94.811	-0.322	0.000	0.28		31.0	OK
1.013	S4022	65	94.810	-0.385	0.000	0.32		77.5	OK
1.014	S4023	54	94.809	-0.366	0.000	0.02		6.9	OK

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Summary Wizard of 360 minute 1 year Winter I+0% for Surface Network 4

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.409
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.300	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 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	S1002	18	99.970	-0.225	0.000	0.00		0.0	OK
1.001	S1003	62	99.303	-0.287	0.000	0.01		1.7	OK
1.002	S1004	62	98.804	-0.276	0.000	0.02		2.4	OK
2.000	S1005	62	98.791	-0.268	0.000	0.03		3.1	OK
1.003	S1006	62	98.379	-0.266	0.000	0.03		7.4	OK
3.000	S1007	62	96.554	-0.416	0.000	0.02		3.8	OK
3.001	S1008	62	96.307	-0.403	0.000	0.02		3.8	OK
1.004	S1009	62	96.120	-0.488	0.000	0.06		14.9	OK
4.000	S1010	62	98.020	-0.280	0.000	0.01		2.8	OK
4.001	S1011	62	96.995	-0.275	0.000	0.02		2.8	OK
1.005	S1012	62	96.053	-0.477	0.000	0.09		19.5	OK
5.000	S1013	62	96.657	-0.355	0.000	0.01		2.1	OK
1.006	S1014	62	95.961	-0.529	0.000	0.03		24.7	OK
1.007	S1015	63	95.214	-0.535	0.000	0.10		27.9	OK
1.008	S1016	63	95.123	-0.282	0.000	0.11		33.7	OK
1.009	S1017	63	95.083	-0.542	0.000	0.08		35.3	OK
1.010	S1019	63	94.914	-0.501	0.000	0.13		35.3	OK
1.011	S1020	63	94.868	-0.507	0.000	0.10		35.4	OK
1.012	1018	67	94.829	-0.463	0.000	0.10		35.3	OK
6.000	S8143	62	96.755	-0.345	0.000	0.02		3.1	OK

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Summary Wizard of 360 minute 1 year Winter I+0% for Surface Network 4

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
6.001	S8130	62	96.305	-0.405	0.000	0.02		5.7	OK
6.002	S8158	62	96.094	-0.396	0.000	0.03		6.3	OK
6.003	S8129	62	95.917	-0.403	0.000	0.02		7.9	OK
7.000	S4004	62	95.844	-0.256	0.000	0.05		3.5	OK
6.004	S4005	62	95.587	-0.381	0.000	0.06		13.6	OK
6.005	S8122	62	95.370	-0.380	0.000	0.06		14.3	OK
8.000	S8126	62	95.330	-0.270	0.000	0.02		1.5	OK
6.006	S8123	63	95.153	-0.357	0.000	0.09		18.3	OK
6.007	S8125	63	94.927	-0.433	0.000	0.07		19.8	OK
6.008	S4020	65	94.828	-0.345	0.000	0.09		22.9	OK
6.009	S4021	65	94.828	-0.305	0.000	0.21		23.4	OK
1.013	S4022	63	94.828	-0.367	0.000	0.24		58.5	OK
1.014	S4023	53	94.827	-0.348	0.000	0.02		6.9	OK

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Summary Wizard of 480 minute 1 year Winter I+0% for Surface Network 4

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.409
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.300	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 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	S1002	15	99.970	-0.225	0.000	0.00		0.0	OK
1.001	S1003	64	99.301	-0.289	0.000	0.01		1.3	OK
1.002	S1004	64	98.799	-0.281	0.000	0.01		2.0	OK
2.000	S1005	64	98.788	-0.271	0.000	0.02		2.5	OK
1.003	S1006	64	98.377	-0.268	0.000	0.02		6.0	OK
3.000	S1007	64	96.547	-0.423	0.000	0.01		3.0	OK
3.001	S1008	64	96.300	-0.410	0.000	0.02		3.0	OK
1.004	S1009	64	96.106	-0.502	0.000	0.05		12.0	OK
4.000	S1010	64	98.016	-0.284	0.000	0.01		2.2	OK
4.001	S1011	64	96.991	-0.279	0.000	0.01		2.2	OK
1.005	S1012	64	96.039	-0.491	0.000	0.08		15.8	OK
5.000	S1013	64	96.653	-0.359	0.000	0.01		1.7	OK
1.006	S1014	64	95.955	-0.535	0.000	0.03		20.0	OK
1.007	S1015	65	95.198	-0.551	0.000	0.08		22.6	OK
1.008	S1016	65	95.109	-0.296	0.000	0.09		27.3	OK
1.009	S1017	65	95.066	-0.559	0.000	0.07		28.7	OK
1.010	S1019	65	94.897	-0.518	0.000	0.10		28.6	OK
1.011	S1020	65	94.851	-0.524	0.000	0.08		28.6	OK
1.012	1018	63	94.835	-0.457	0.000	0.08		28.5	OK
6.000	S8143	64	96.749	-0.351	0.000	0.01		2.5	OK

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Summary Wizard of 480 minute 1 year Winter I+0% for Surface Network 4

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
6.001	S8130	64	96.297	-0.413	0.000	0.02		4.6	OK
6.002	S8158	64	96.089	-0.401	0.000	0.03		5.1	OK
6.003	S8129	64	95.911	-0.409	0.000	0.02		6.4	OK
7.000	S4004	64	95.840	-0.260	0.000	0.04		2.8	OK
6.004	S4005	64	95.580	-0.389	0.000	0.05		11.0	OK
6.005	S8122	64	95.363	-0.387	0.000	0.05		11.6	OK
8.000	S8126	64	95.325	-0.275	0.000	0.02		1.2	OK
6.006	S8123	65	95.142	-0.368	0.000	0.08		14.8	OK
6.007	S8125	65	94.916	-0.444	0.000	0.06		16.1	OK
6.008	S4020	63	94.835	-0.338	0.000	0.08		18.5	OK
6.009	S4021	63	94.835	-0.298	0.000	0.17		19.0	OK
1.013	S4022	61	94.835	-0.360	0.000	0.19		47.0	OK
1.014	S4023	51	94.834	-0.341	0.000	0.02		6.9	OK

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Summary Wizard of 600 minute 1 year Winter I+0% for Surface Network 4

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.409
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.300	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 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	S1002	16	99.970	-0.225	0.000	0.00		0.0	OK
1.001	S1003	67	99.299	-0.291	0.000	0.01		1.1	OK
1.002	S1004	67	98.796	-0.284	0.000	0.01		1.7	OK
2.000	S1005	67	98.784	-0.275	0.000	0.02		2.1	OK
1.003	S1006	67	98.375	-0.270	0.000	0.02		5.1	OK
3.000	S1007	67	96.543	-0.427	0.000	0.01		2.6	OK
3.001	S1008	67	96.294	-0.416	0.000	0.02		2.6	OK
1.004	S1009	67	96.097	-0.511	0.000	0.04		10.2	OK
4.000	S1010	67	98.014	-0.286	0.000	0.01		1.9	OK
4.001	S1011	67	96.987	-0.283	0.000	0.01		1.9	OK
1.005	S1012	67	96.029	-0.501	0.000	0.06		13.4	OK
5.000	S1013	67	96.651	-0.361	0.000	0.01		1.5	OK
1.006	S1014	67	95.952	-0.538	0.000	0.02		16.9	OK
1.007	S1015	67	95.186	-0.563	0.000	0.07		19.2	OK
1.008	S1016	67	95.101	-0.304	0.000	0.08		23.2	OK
1.009	S1017	67	95.055	-0.570	0.000	0.06		24.3	OK
1.010	S1019	67	94.886	-0.529	0.000	0.09		24.3	OK
1.011	S1020	67	94.842	-0.533	0.000	0.07		24.2	OK
1.012	1018	60	94.837	-0.455	0.000	0.07		24.1	OK
6.000	S8143	67	96.745	-0.355	0.000	0.01		2.1	OK

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Summary Wizard of 600 minute 1 year Winter I+0% for Surface Network 4

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
6.001	S8130	67	96.291	-0.419	0.000	0.01		3.9	OK
6.002	S8158	67	96.087	-0.403	0.000	0.02		4.3	OK
6.003	S8129	67	95.905	-0.415	0.000	0.02		5.4	OK
7.000	S4004	67	95.837	-0.263	0.000	0.04		2.4	OK
6.004	S4005	67	95.575	-0.393	0.000	0.04		9.4	OK
6.005	S8122	67	95.358	-0.392	0.000	0.04		9.8	OK
8.000	S8126	67	95.322	-0.278	0.000	0.02		1.0	OK
6.006	S8123	67	95.134	-0.376	0.000	0.07		12.6	OK
6.007	S8125	67	94.909	-0.451	0.000	0.05		13.6	OK
6.008	S4020	60	94.838	-0.335	0.000	0.06		15.7	OK
6.009	S4021	60	94.838	-0.295	0.000	0.14		15.9	OK
1.013	S4022	58	94.837	-0.358	0.000	0.16		39.3	OK
1.014	S4023	48	94.836	-0.339	0.000	0.02		6.9	OK

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Summary Wizard of 720 minute 1 year Winter I+0% for Surface Network 4

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.409
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.300	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 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	S1002	3	99.970	-0.225	0.000	0.00		0.0	OK
1.001	S1003	69	99.298	-0.292	0.000	0.01		1.0	OK
1.002	S1004	69	98.794	-0.286	0.000	0.01		1.4	OK
2.000	S1005	69	98.781	-0.278	0.000	0.02		1.9	OK
1.003	S1006	69	98.371	-0.274	0.000	0.02		4.4	OK
3.000	S1007	69	96.540	-0.430	0.000	0.01		2.3	OK
3.001	S1008	69	96.290	-0.420	0.000	0.01		2.3	OK
1.004	S1009	69	96.091	-0.517	0.000	0.03		8.9	OK
4.000	S1010	69	98.012	-0.288	0.000	0.01		1.7	OK
4.001	S1011	69	96.985	-0.285	0.000	0.01		1.7	OK
1.005	S1012	69	96.022	-0.508	0.000	0.06		11.7	OK
5.000	S1013	69	96.649	-0.363	0.000	0.01		1.3	OK
1.006	S1014	69	95.947	-0.543	0.000	0.02		14.8	OK
1.007	S1015	69	95.178	-0.571	0.000	0.06		16.8	OK
1.008	S1016	69	95.095	-0.310	0.000	0.07		20.3	OK
1.009	S1017	69	95.048	-0.577	0.000	0.05		21.3	OK
1.010	S1019	69	94.878	-0.537	0.000	0.08		21.3	OK
1.011	S1020	68	94.840	-0.535	0.000	0.06		21.2	OK
1.012	1018	61	94.837	-0.455	0.000	0.06		21.0	OK
6.000	S8143	69	96.743	-0.357	0.000	0.01		1.9	OK

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Summary Wizard of 720 minute 1 year Winter I+0% for Surface Network 4

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
6.001	S8130	69	96.287	-0.423	0.000	0.01		3.4	OK
6.002	S8158	69	96.084	-0.406	0.000	0.02		3.8	OK
6.003	S8129	69	95.900	-0.420	0.000	0.01		4.8	OK
7.000	S4004	69	95.835	-0.265	0.000	0.03		2.1	OK
6.004	S4005	69	95.572	-0.396	0.000	0.03		8.2	OK
6.005	S8122	69	95.355	-0.395	0.000	0.04		8.6	OK
8.000	S8126	69	95.319	-0.281	0.000	0.01		0.9	OK
6.006	S8123	69	95.129	-0.381	0.000	0.06		11.0	OK
6.007	S8125	69	94.904	-0.456	0.000	0.04		11.9	OK
6.008	S4020	61	94.838	-0.335	0.000	0.06		13.7	OK
6.009	S4021	61	94.837	-0.296	0.000	0.12		13.9	OK
1.013	S4022	59	94.837	-0.358	0.000	0.14		34.3	OK
1.014	S4023	49	94.836	-0.339	0.000	0.02		6.9	OK

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Summary Wizard of 960 minute 1 year Winter I+0% for Surface Network 4

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.409
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.300	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 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	S1002	4	99.970	-0.225	0.000	0.00		0.0	OK
1.001	S1003	70	99.297	-0.293	0.000	0.00		0.8	OK
1.002	S1004	70	98.792	-0.288	0.000	0.01		1.2	OK
2.000	S1005	70	98.777	-0.282	0.000	0.01		1.5	OK
1.003	S1006	70	98.366	-0.279	0.000	0.01		3.6	OK
3.000	S1007	70	96.536	-0.434	0.000	0.01		1.8	OK
3.001	S1008	70	96.284	-0.426	0.000	0.01		1.8	OK
1.004	S1009	70	96.082	-0.526	0.000	0.03		7.2	OK
4.000	S1010	70	98.010	-0.290	0.000	0.01		1.3	OK
4.001	S1011	70	96.982	-0.288	0.000	0.01		1.3	OK
1.005	S1012	70	96.012	-0.518	0.000	0.05		9.5	OK
5.000	S1013	70	96.647	-0.365	0.000	0.01		1.0	OK
1.006	S1014	70	95.936	-0.554	0.000	0.02		12.0	OK
1.007	S1015	70	95.167	-0.582	0.000	0.05		13.6	OK
1.008	S1016	70	95.088	-0.317	0.000	0.05		16.4	OK
1.009	S1017	70	95.038	-0.587	0.000	0.04		17.2	OK
1.010	S1019	70	94.863	-0.552	0.000	0.06		17.2	OK
1.011	S1020	69	94.840	-0.535	0.000	0.05		17.2	OK
1.012	1018	62	94.837	-0.455	0.000	0.05		17.0	OK
6.000	S8143	70	96.739	-0.361	0.000	0.01		1.5	OK

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Summary Wizard of 960 minute 1 year Winter I+0% for Surface Network 4

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
6.001	S8130	70	96.282	-0.428	0.000	0.01		2.7	OK
6.002	S8158	70	96.076	-0.414	0.000	0.02		3.1	OK
6.003	S8129	70	95.895	-0.425	0.000	0.01		3.9	OK
7.000	S4004	70	95.832	-0.268	0.000	0.03		1.7	OK
6.004	S4005	70	95.568	-0.401	0.000	0.03		6.6	OK
6.005	S8122	70	95.350	-0.400	0.000	0.03		6.9	OK
8.000	S8126	70	95.315	-0.285	0.000	0.01		0.7	OK
6.006	S8123	70	95.122	-0.388	0.000	0.05		8.9	OK
6.007	S8125	70	94.898	-0.462	0.000	0.03		9.6	OK
6.008	S4020	62	94.837	-0.336	0.000	0.05		11.1	OK
6.009	S4021	62	94.837	-0.296	0.000	0.10		11.3	OK
1.013	S4022	60	94.837	-0.358	0.000	0.11		27.8	OK
1.014	S4023	50	94.836	-0.339	0.000	0.02		6.9	OK

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Summary Wizard of 1440 minute 1 year Winter I+0% for Surface Network 4

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.409
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.300	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 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	S1002	1	99.970	-0.225	0.000	0.00		0.0	OK
1.001	S1003	72	99.295	-0.295	0.000	0.00		0.6	OK
1.002	S1004	72	98.789	-0.291	0.000	0.01		0.9	OK
2.000	S1005	72	98.772	-0.287	0.000	0.01		1.1	OK
1.003	S1006	72	98.361	-0.284	0.000	0.01		2.7	OK
3.000	S1007	72	96.532	-0.438	0.000	0.01		1.4	OK
3.001	S1008	72	96.278	-0.432	0.000	0.01		1.4	OK
1.004	S1009	72	96.074	-0.534	0.000	0.02		5.4	OK
4.000	S1010	72	98.007	-0.293	0.000	0.00		1.0	OK
4.001	S1011	72	96.979	-0.291	0.000	0.01		1.0	OK
1.005	S1012	72	96.002	-0.528	0.000	0.03		7.0	OK
5.000	S1013	72	96.644	-0.368	0.000	0.00		0.8	OK
1.006	S1014	72	95.924	-0.566	0.000	0.01		8.9	OK
1.007	S1015	72	95.155	-0.594	0.000	0.03		10.1	OK
1.008	S1016	72	95.080	-0.325	0.000	0.04		12.2	OK
1.009	S1017	72	95.027	-0.598	0.000	0.03		12.8	OK
1.010	S1019	72	94.846	-0.569	0.000	0.05		12.8	OK
1.011	S1020	71	94.835	-0.540	0.000	0.04		12.8	OK
1.012	1018	64	94.832	-0.460	0.000	0.04		12.6	OK
6.000	S8143	72	96.736	-0.364	0.000	0.01		1.1	OK

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Summary Wizard of 1440 minute 1 year Winter I+0% for Surface Network 4

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
6.001	S8130	72	96.276	-0.434	0.000	0.01		2.0	OK
6.002	S8158	72	96.066	-0.424	0.000	0.01		2.3	OK
6.003	S8129	72	95.888	-0.432	0.000	0.01		2.9	OK
7.000	S4004	72	95.827	-0.273	0.000	0.02		1.2	OK
6.004	S4005	72	95.562	-0.407	0.000	0.02		4.9	OK
6.005	S8122	72	95.345	-0.405	0.000	0.02		5.1	OK
8.000	S8126	72	95.311	-0.289	0.000	0.01		0.5	OK
6.006	S8123	72	95.114	-0.396	0.000	0.03		6.6	OK
6.007	S8125	72	94.891	-0.469	0.000	0.03		7.2	OK
6.008	S4020	64	94.832	-0.341	0.000	0.03		8.2	OK
6.009	S4021	64	94.832	-0.301	0.000	0.07		8.3	OK
1.013	S4022	62	94.832	-0.363	0.000	0.08		20.6	OK
1.014	S4023	52	94.831	-0.344	0.000	0.02		6.9	OK

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Summary Wizard of 15 minute 30 year Winter I+0% for Surface Network 4

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.409
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.300	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 40

PN	US/MH Name	Storm	Water Level Rank	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S1002	2	99.970	-0.225	0.000	0.00		0.0	OK
1.001	S1003	6	99.371	-0.219	0.000	0.17		28.8	OK
1.002	S1004	6	98.891	-0.189	0.000	0.29		42.1	OK
2.000	S1005	6	98.895	-0.164	0.000	0.42		51.0	OK
1.003	S1006	6	98.498	-0.147	0.000	0.51		124.3	OK
3.000	S1007	7	96.697	-0.273	0.000	0.25		59.5	OK
3.001	S1008	7	96.635	-0.075	0.000	0.36		57.7	OK
1.004	S1009	7	96.608	0.000	0.000	0.84		218.4	OK
4.000	S1010	6	98.097	-0.203	0.000	0.23		45.0	OK
4.001	S1011	6	97.081	-0.189	0.000	0.29		44.5	OK
1.005	S1012	11	96.530	0.000	0.000	1.37		281.9	OK
5.000	S1013	6	96.747	-0.265	0.000	0.18		33.9	OK
1.006	S1014	7	96.189	-0.301	0.000	0.48		354.9	OK
1.007	S1015	8	95.852	0.103	0.000	1.26		367.6	SURCHARGED
1.008	S1016	9	95.797	0.392	0.000	1.38		414.0	SURCHARGED
1.009	S1017	12	95.713	0.088	0.000	0.97		405.4	SURCHARGED
1.010	S1019	20	95.582	0.167	0.000	1.35		371.2	SURCHARGED
1.011	S1020	22	95.530	0.155	0.000	1.03		361.6	SURCHARGED
1.012	1018	25	95.442	0.150	0.000	1.00		353.8	SURCHARGED
6.000	S8143	6	96.859	-0.241	0.000	0.27		50.0	OK

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Summary Wizard of 15 minute 30 year Winter I+0% for Surface Network 4

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
6.001	S8130	6	96.447	-0.263	0.000	0.36		93.9	OK
6.002	S8158	7	96.286	-0.204	0.000	0.56		102.7	OK
6.003	S8129	7	96.065	-0.255	0.000	0.39		128.7	OK
7.000	S4004	7	96.038	-0.062	0.000	0.84		54.9	OK
6.004	S4005	7	95.970	0.002	0.000	0.83		199.3	SURCHARGED
6.005	S8122	8	95.848	0.098	0.000	0.82		198.0	SURCHARGED
8.000	S8126	12	95.718	0.118	0.000	0.33		22.6	SURCHARGED
6.006	S8123	13	95.699	0.189	0.000	1.26		243.9	SURCHARGED
6.007	S8125	22	95.518	0.158	0.000	0.90		251.5	SURCHARGED
6.008	S4020	25	95.420	0.246	0.000	1.14		275.4	SURCHARGED
6.009	S4021	25	95.386	0.253	0.000	2.49		279.2	SURCHARGED
1.013	S4022	25	95.344	0.149	0.000	2.32		564.8	SURCHARGED
1.014	S4023	47	94.839	-0.336	0.000	0.02		6.9	OK

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Summary Wizard of 30 minute 30 year Winter I+0% for Surface Network 4

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.409
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.300	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 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	S1002	5	99.970	-0.225	0.000	0.00		0.0	OK
1.001	S1003	10	99.360	-0.230	0.000	0.12		21.4	OK
1.002	S1004	10	98.875	-0.205	0.000	0.22		31.2	OK
2.000	S1005	10	98.876	-0.183	0.000	0.32		39.5	OK
1.003	S1006	10	98.475	-0.170	0.000	0.39		93.8	OK
3.000	S1007	11	96.664	-0.306	0.000	0.20		47.3	OK
3.001	S1008	11	96.596	-0.114	0.000	0.29		46.2	OK
1.004	S1009	11	96.580	-0.028	0.000	0.65		167.9	OK
4.000	S1010	10	98.084	-0.216	0.000	0.18		34.8	OK
4.001	S1011	10	97.066	-0.204	0.000	0.23		34.8	OK
1.005	S1012	10	96.530	0.000	0.000	1.02		210.3	OK
5.000	S1013	10	96.732	-0.280	0.000	0.14		26.7	OK
1.006	S1014	11	96.141	-0.349	0.000	0.36		269.1	OK
1.007	S1015	11	95.763	0.014	0.000	1.00		291.4	SURCHARGED
1.008	S1016	13	95.723	0.318	0.000	1.13		338.1	SURCHARGED
1.009	S1017	17	95.639	0.014	0.000	0.83		348.1	SURCHARGED
1.010	S1019	23	95.516	0.101	0.000	1.20		329.9	SURCHARGED
1.011	S1020	25	95.468	0.093	0.000	0.94		327.4	SURCHARGED
1.012	1018	26	95.395	0.103	0.000	0.92		326.0	SURCHARGED
6.000	S8143	10	96.842	-0.258	0.000	0.21		39.3	OK

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Summary Wizard of 30 minute 30 year Winter I+0% for Surface Network 4

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
6.001	S8130	10	96.420	-0.290	0.000	0.27		71.8	OK
6.002	S8158	10	96.248	-0.242	0.000	0.43		79.4	OK
6.003	S8129	10	96.038	-0.282	0.000	0.30		99.5	OK
7.000	S4004	11	95.980	-0.120	0.000	0.66		43.5	OK
6.004	S4005	12	95.801	-0.168	0.000	0.70		169.8	OK
6.005	S8122	16	95.701	-0.049	0.000	0.69		167.4	OK
8.000	S8126	19	95.633	0.033	0.000	0.26		18.1	SURCHARGED
6.006	S8123	19	95.619	0.109	0.000	1.08		208.0	SURCHARGED
6.007	S8125	24	95.488	0.128	0.000	0.78		217.7	SURCHARGED
6.008	S4020	26	95.396	0.222	0.000	1.02		246.6	SURCHARGED
6.009	S4021	26	95.361	0.228	0.000	2.21		247.3	SURCHARGED
1.013	S4022	26	95.317	0.122	0.000	2.18		530.8	SURCHARGED
1.014	S4023	45	94.925	-0.250	0.000	0.02		7.1	OK

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Summary Wizard of 60 minute 30 year Winter I+0% for Surface Network 4

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.409
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.300	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 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	S1002	8	99.970	-0.225	0.000	0.00		0.0	OK
1.001	S1003	15	99.346	-0.244	0.000	0.08		13.9	OK
1.002	S1004	15	98.855	-0.225	0.000	0.14		20.2	OK
2.000	S1005	15	98.852	-0.207	0.000	0.21		25.8	OK
1.003	S1006	15	98.447	-0.198	0.000	0.25		61.1	OK
3.000	S1007	15	96.628	-0.342	0.000	0.13		30.8	OK
3.001	S1008	15	96.424	-0.286	0.000	0.19		30.8	OK
1.004	S1009	15	96.382	-0.226	0.000	0.47		121.6	OK
4.000	S1010	15	98.067	-0.233	0.000	0.11		22.8	OK
4.001	S1011	15	97.047	-0.223	0.000	0.15		22.6	OK
1.005	S1012	15	96.327	-0.203	0.000	0.77		158.4	OK
5.000	S1013	15	96.714	-0.298	0.000	0.09		17.5	OK
1.006	S1014	15	96.102	-0.388	0.000	0.27		199.8	OK
1.007	S1015	28	95.589	-0.160	0.000	0.75		219.6	OK
1.008	S1016	29	95.545	0.140	0.000	0.86		258.3	SURCHARGED
1.009	S1017	30	95.487	-0.138	0.000	0.64		267.0	OK
1.010	S1019	30	95.409	-0.006	0.000	0.95		261.3	OK
1.011	S1020	30	95.351	-0.024	0.000	0.74		260.1	OK
1.012	1018	30	95.274	-0.018	0.000	0.73		259.8	OK
6.000	S8143	15	96.818	-0.282	0.000	0.14		25.6	OK

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Summary Wizard of 60 minute 30 year Winter I+0% for Surface Network 4

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
6.001	S8130	15	96.388	-0.322	0.000	0.18		46.9	OK
6.002	S8158	15	96.204	-0.286	0.000	0.28		52.0	OK
6.003	S8129	15	96.006	-0.314	0.000	0.20		65.6	OK
7.000	S4004	15	95.939	-0.161	0.000	0.43		28.4	OK
6.004	S4005	19	95.736	-0.233	0.000	0.47		112.6	OK
6.005	S8122	29	95.522	-0.228	0.000	0.49		118.0	OK
8.000	S8126	30	95.426	-0.174	0.000	0.18		12.5	OK
6.006	S8123	30	95.413	-0.097	0.000	0.76		146.9	OK
6.007	S8125	30	95.324	-0.036	0.000	0.57		158.6	OK
6.008	S4020	30	95.263	0.089	0.000	0.75		181.3	SURCHARGED
6.009	S4021	30	95.232	0.099	0.000	1.65		184.8	SURCHARGED
1.013	S4022	36	95.195	0.000	0.000	1.77		429.8	OK
1.014	S4023	43	95.007	-0.168	0.000	0.02		7.1	OK

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Summary Wizard of 120 minute 30 year Winter I+0% for Surface Network 4

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.409
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.300	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 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	S1002	9	99.970	-0.225	0.000	0.00		0.0	OK
1.001	S1003	24	99.332	-0.258	0.000	0.05		8.4	OK
1.002	S1004	24	98.839	-0.241	0.000	0.09		12.3	OK
2.000	S1005	26	98.831	-0.228	0.000	0.13		15.9	OK
1.003	S1006	25	98.423	-0.222	0.000	0.15		37.5	OK
3.000	S1007	26	96.605	-0.365	0.000	0.08		19.1	OK
3.001	S1008	25	96.366	-0.344	0.000	0.12		19.0	OK
1.004	S1009	23	96.282	-0.326	0.000	0.29		75.5	OK
4.000	S1010	26	98.052	-0.248	0.000	0.07		14.0	OK
4.001	S1011	26	97.031	-0.239	0.000	0.09		14.0	OK
1.005	S1012	23	96.223	-0.307	0.000	0.48		98.8	OK
5.000	S1013	26	96.695	-0.317	0.000	0.06		10.8	OK
1.006	S1014	23	96.055	-0.435	0.000	0.17		125.0	OK
1.007	S1015	33	95.410	-0.339	0.000	0.48		140.9	OK
1.008	S1016	32	95.347	-0.058	0.000	0.56		168.6	OK
1.009	S1017	32	95.314	-0.311	0.000	0.42		174.4	OK
1.010	S1019	33	95.229	-0.186	0.000	0.61		168.0	OK
1.011	S1020	37	95.201	-0.174	0.000	0.48		166.4	OK
1.012	1018	38	95.165	-0.127	0.000	0.46		162.8	OK
6.000	S8143	26	96.798	-0.302	0.000	0.09		15.8	OK

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Summary Wizard of 120 minute 30 year Winter I+0% for Surface Network 4

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
6.001	S8130	25	96.359	-0.351	0.000	0.11		28.8	OK
6.002	S8158	25	96.166	-0.324	0.000	0.17		32.0	OK
6.003	S8129	25	95.973	-0.347	0.000	0.12		40.3	OK
7.000	S4004	26	95.905	-0.195	0.000	0.27		17.6	OK
6.004	S4005	30	95.683	-0.286	0.000	0.29		69.2	OK
6.005	S8122	36	95.468	-0.282	0.000	0.30		72.5	OK
8.000	S8126	37	95.367	-0.233	0.000	0.11		7.8	OK
6.006	S8123	35	95.280	-0.230	0.000	0.48		93.0	OK
6.007	S8125	37	95.199	-0.161	0.000	0.35		98.2	OK
6.008	S4020	38	95.170	-0.003	0.000	0.46		110.4	OK
6.009	S4021	39	95.154	0.021	0.000	1.00		112.6	SURCHARGED
1.013	S4022	44	95.134	-0.061	0.000	1.09		264.9	OK
1.014	S4023	38	95.084	-0.091	0.000	0.02		7.1	OK

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Summary Wizard of 180 minute 30 year Winter I+0% for Surface Network 4

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.409
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.300	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 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	S1002	6	99.970	-0.225	0.000	0.00		0.0	OK
1.001	S1003	31	99.327	-0.263	0.000	0.04		6.3	OK
1.002	S1004	31	98.829	-0.251	0.000	0.06		9.2	OK
2.000	S1005	31	98.821	-0.238	0.000	0.10		11.9	OK
1.003	S1006	31	98.413	-0.232	0.000	0.12		27.9	OK
3.000	S1007	31	96.591	-0.379	0.000	0.06		14.3	OK
3.001	S1008	31	96.350	-0.360	0.000	0.09		14.2	OK
1.004	S1009	31	96.238	-0.370	0.000	0.22		56.3	OK
4.000	S1010	31	98.044	-0.256	0.000	0.05		10.5	OK
4.001	S1011	31	97.021	-0.249	0.000	0.07		10.4	OK
1.005	S1012	31	96.178	-0.352	0.000	0.36		73.8	OK
5.000	S1013	31	96.687	-0.325	0.000	0.04		8.1	OK
1.006	S1014	31	96.031	-0.459	0.000	0.13		93.3	OK
1.007	S1015	40	95.354	-0.395	0.000	0.36		105.4	OK
1.008	S1016	39	95.267	-0.138	0.000	0.42		127.1	OK
1.009	S1017	39	95.240	-0.385	0.000	0.32		132.9	OK
1.010	S1019	48	95.132	-0.283	0.000	0.48		131.9	OK
1.011	S1020	46	95.131	-0.244	0.000	0.38		131.6	OK
1.012	1018	45	95.128	-0.164	0.000	0.37		131.6	OK
6.000	S8143	31	96.786	-0.314	0.000	0.06		11.8	OK

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Summary Wizard of 180 minute 30 year Winter I+0% for Surface Network 4

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
6.001	S8130	31	96.345	-0.365	0.000	0.08		21.5	OK
6.002	S8158	31	96.148	-0.342	0.000	0.13		23.9	OK
6.003	S8129	31	95.961	-0.359	0.000	0.09		30.1	OK
7.000	S4004	31	95.891	-0.209	0.000	0.20		13.1	OK
6.004	S4005	37	95.659	-0.309	0.000	0.21		51.6	OK
6.005	S8122	40	95.444	-0.306	0.000	0.22		54.0	OK
8.000	S8126	40	95.358	-0.242	0.000	0.08		5.8	OK
6.006	S8123	40	95.246	-0.264	0.000	0.36		69.3	OK
6.007	S8125	46	95.130	-0.230	0.000	0.27		74.7	OK
6.008	S4020	45	95.128	-0.046	0.000	0.35		85.3	OK
6.009	S4021	45	95.127	-0.006	0.000	0.78		87.0	OK
1.013	S4022	45	95.126	-0.069	0.000	0.89		217.0	OK
1.014	S4023	35	95.125	-0.050	0.000	0.02		7.1	OK

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Summary Wizard of 240 minute 30 year Winter I+0% for Surface Network 4

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.409
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.300	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 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	S1002	7	99.970	-0.225	0.000	0.00		0.0	OK
1.001	S1003	36	99.323	-0.267	0.000	0.03		5.0	OK
1.002	S1004	36	98.823	-0.257	0.000	0.05		7.4	OK
2.000	S1005	36	98.814	-0.245	0.000	0.08		9.5	OK
1.003	S1006	36	98.406	-0.239	0.000	0.09		22.4	OK
3.000	S1007	36	96.583	-0.387	0.000	0.05		11.4	OK
3.001	S1008	36	96.339	-0.371	0.000	0.07		11.4	OK
1.004	S1009	36	96.211	-0.397	0.000	0.17		45.3	OK
4.000	S1010	36	98.039	-0.261	0.000	0.04		8.4	OK
4.001	S1011	36	97.015	-0.255	0.000	0.05		8.4	OK
1.005	S1012	36	96.149	-0.381	0.000	0.29		59.4	OK
5.000	S1013	36	96.682	-0.330	0.000	0.04		6.5	OK
1.006	S1014	36	96.017	-0.473	0.000	0.10		75.1	OK
1.007	S1015	42	95.322	-0.427	0.000	0.29		84.9	OK
1.008	S1016	43	95.231	-0.174	0.000	0.34		102.4	OK
1.009	S1017	47	95.202	-0.423	0.000	0.26		107.3	OK
1.010	S1019	40	95.158	-0.257	0.000	0.39		106.8	OK
1.011	S1020	39	95.157	-0.218	0.000	0.30		106.5	OK
1.012	1018	39	95.155	-0.137	0.000	0.30		106.7	OK
6.000	S8143	36	96.779	-0.321	0.000	0.05		9.5	OK

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Summary Wizard of 240 minute 30 year Winter I+0% for Surface Network 4

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
6.001	S8130	36	96.335	-0.375	0.000	0.07		17.3	OK
6.002	S8158	36	96.137	-0.353	0.000	0.10		19.2	OK
6.003	S8129	36	95.949	-0.371	0.000	0.07		24.2	OK
7.000	S4004	36	95.880	-0.220	0.000	0.16		10.5	OK
6.004	S4005	42	95.643	-0.325	0.000	0.17		41.5	OK
6.005	S8122	42	95.428	-0.322	0.000	0.18		43.5	OK
8.000	S8126	42	95.351	-0.249	0.000	0.07		4.6	OK
6.006	S8123	44	95.225	-0.285	0.000	0.29		55.8	OK
6.007	S8125	39	95.157	-0.203	0.000	0.22		60.3	OK
6.008	S4020	39	95.155	-0.019	0.000	0.29		69.0	OK
6.009	S4021	38	95.154	0.021	0.000	0.63		70.6	SURCHARGED
1.013	S4022	38	95.153	-0.042	0.000	0.73		176.4	OK
1.014	S4023	28	95.153	-0.022	0.000	0.02		7.1	OK

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Summary Wizard of 360 minute 30 year Winter I+0% for Surface Network 4

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.409
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.300	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 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	S1002	30	99.970	-0.225	0.000	0.00		0.0	OK
1.001	S1003	43	99.320	-0.270	0.000	0.02		3.7	OK
1.002	S1004	43	98.817	-0.263	0.000	0.04		5.4	OK
2.000	S1005	43	98.805	-0.254	0.000	0.06		7.0	OK
1.003	S1006	43	98.396	-0.249	0.000	0.07		16.4	OK
3.000	S1007	43	96.574	-0.396	0.000	0.04		8.3	OK
3.001	S1008	43	96.326	-0.384	0.000	0.05		8.3	OK
1.004	S1009	43	96.179	-0.429	0.000	0.13		33.1	OK
4.000	S1010	43	98.034	-0.266	0.000	0.03		6.1	OK
4.001	S1011	43	97.008	-0.262	0.000	0.04		6.1	OK
1.005	S1012	43	96.116	-0.414	0.000	0.21		43.4	OK
5.000	S1013	43	96.677	-0.335	0.000	0.03		4.7	OK
1.006	S1014	43	95.997	-0.493	0.000	0.07		54.9	OK
1.007	S1015	46	95.284	-0.465	0.000	0.21		62.0	OK
1.008	S1016	51	95.195	-0.210	0.000	0.25		74.9	OK
1.009	S1017	49	95.193	-0.432	0.000	0.19		78.6	OK
1.010	S1019	38	95.191	-0.224	0.000	0.28		77.4	OK
1.011	S1020	38	95.189	-0.186	0.000	0.22		76.9	OK
1.012	1018	37	95.188	-0.104	0.000	0.21		75.4	OK
6.000	S8143	43	96.772	-0.328	0.000	0.04		6.9	OK

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Summary Wizard of 360 minute 30 year Winter I+0% for Surface Network 4

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
6.001	S8130	43	96.323	-0.387	0.000	0.05		12.6	OK
6.002	S8158	43	96.122	-0.368	0.000	0.08		14.0	OK
6.003	S8129	43	95.936	-0.384	0.000	0.05		17.6	OK
7.000	S4004	43	95.868	-0.232	0.000	0.12		7.7	OK
6.004	S4005	46	95.624	-0.345	0.000	0.13		30.3	OK
6.005	S8122	46	95.408	-0.342	0.000	0.13		31.7	OK
8.000	S8126	46	95.343	-0.257	0.000	0.05		3.4	OK
6.006	S8123	51	95.199	-0.311	0.000	0.21		40.8	OK
6.007	S8125	38	95.190	-0.170	0.000	0.16		44.0	OK
6.008	S4020	37	95.188	0.015	0.000	0.20		49.5	SURCHARGED
6.009	S4021	37	95.187	0.054	0.000	0.45		50.2	SURCHARGED
1.013	S4022	37	95.186	-0.009	0.000	0.50		122.2	OK
1.014	S4023	27	95.185	0.010	0.000	0.02		7.1	SURCHARGED

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Summary Wizard of 480 minute 30 year Winter I+0% for Surface Network 4

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.409
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.300	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 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	S1002	31	99.970	-0.225	0.000	0.00		0.0	OK
1.001	S1003	50	99.314	-0.276	0.000	0.02		2.9	OK
1.002	S1004	50	98.814	-0.266	0.000	0.03		4.3	OK
2.000	S1005	50	98.800	-0.259	0.000	0.05		5.6	OK
1.003	S1006	50	98.390	-0.255	0.000	0.05		13.1	OK
3.000	S1007	50	96.570	-0.400	0.000	0.03		6.7	OK
3.001	S1008	50	96.319	-0.391	0.000	0.04		6.7	OK
1.004	S1009	50	96.158	-0.450	0.000	0.10		26.4	OK
4.000	S1010	50	98.032	-0.268	0.000	0.02		4.9	OK
4.001	S1011	50	97.005	-0.265	0.000	0.03		4.9	OK
1.005	S1012	50	96.094	-0.436	0.000	0.17		34.7	OK
5.000	S1013	50	96.673	-0.339	0.000	0.02		3.8	OK
1.006	S1014	50	95.984	-0.506	0.000	0.06		43.8	OK
1.007	S1015	51	95.260	-0.489	0.000	0.17		49.6	OK
1.008	S1016	48	95.211	-0.194	0.000	0.20		59.9	OK
1.009	S1017	45	95.209	-0.416	0.000	0.15		62.8	OK
1.010	S1019	37	95.208	-0.207	0.000	0.22		61.7	OK
1.011	S1020	36	95.207	-0.168	0.000	0.18		61.3	OK
1.012	1018	36	95.206	-0.086	0.000	0.17		59.9	OK
6.000	S8143	50	96.767	-0.333	0.000	0.03		5.5	OK

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Summary Wizard of 480 minute 30 year Winter I+0% for Surface Network 4

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
6.001	S8130	50	96.316	-0.394	0.000	0.04		10.1	OK
6.002	S8158	50	96.112	-0.378	0.000	0.06		11.2	OK
6.003	S8129	50	95.929	-0.391	0.000	0.04		14.1	OK
7.000	S4004	50	95.862	-0.238	0.000	0.09		6.1	OK
6.004	S4005	51	95.614	-0.355	0.000	0.10		24.2	OK
6.005	S8122	51	95.397	-0.353	0.000	0.11		25.4	OK
8.000	S8126	51	95.338	-0.262	0.000	0.04		2.7	OK
6.006	S8123	49	95.209	-0.301	0.000	0.17		32.6	OK
6.007	S8125	36	95.207	-0.153	0.000	0.13		35.1	OK
6.008	S4020	36	95.206	0.033	0.000	0.16		39.4	SURCHARGED
6.009	S4021	36	95.205	0.072	0.000	0.36		39.9	SURCHARGED
1.013	S4022	33	95.205	0.010	0.000	0.40		97.2	SURCHARGED
1.014	S4023	25	95.205	0.030	0.000	0.02		7.1	SURCHARGED

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Summary Wizard of 600 minute 30 year Winter I+0% for Surface Network 4

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.409
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.300	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 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	S1002	28	99.970	-0.225	0.000	0.00		0.0	OK
1.001	S1003	53	99.310	-0.280	0.000	0.01		2.5	OK
1.002	S1004	53	98.812	-0.268	0.000	0.03		3.6	OK
2.000	S1005	53	98.797	-0.262	0.000	0.04		4.7	OK
1.003	S1006	53	98.386	-0.259	0.000	0.05		11.0	OK
3.000	S1007	53	96.567	-0.403	0.000	0.02		5.6	OK
3.001	S1008	53	96.314	-0.396	0.000	0.03		5.6	OK
1.004	S1009	53	96.145	-0.463	0.000	0.09		22.2	OK
4.000	S1010	53	98.029	-0.271	0.000	0.02		4.1	OK
4.001	S1011	53	97.002	-0.268	0.000	0.03		4.1	OK
1.005	S1012	53	96.079	-0.451	0.000	0.14		29.1	OK
5.000	S1013	53	96.667	-0.345	0.000	0.02		3.2	OK
1.006	S1014	53	95.976	-0.514	0.000	0.05		36.8	OK
1.007	S1015	54	95.243	-0.506	0.000	0.14		41.6	OK
1.008	S1016	46	95.222	-0.183	0.000	0.17		50.3	OK
1.009	S1017	42	95.220	-0.405	0.000	0.13		52.7	OK
1.010	S1019	36	95.219	-0.196	0.000	0.19		51.6	OK
1.011	S1020	35	95.219	-0.156	0.000	0.15		51.2	OK
1.012	1018	35	95.218	-0.074	0.000	0.14		50.0	OK
6.000	S8143	53	96.765	-0.335	0.000	0.03		4.6	OK

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Summary Wizard of 600 minute 30 year Winter I+0% for Surface Network 4

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
6.001	S8130	53	96.312	-0.398	0.000	0.03		8.4	OK
6.002	S8158	53	96.105	-0.385	0.000	0.05		9.4	OK
6.003	S8129	53	95.925	-0.395	0.000	0.04		11.8	OK
7.000	S4004	53	95.856	-0.244	0.000	0.08		5.2	OK
6.004	S4005	54	95.606	-0.363	0.000	0.08		20.3	OK
6.005	S8122	54	95.390	-0.360	0.000	0.09		21.3	OK
8.000	S8126	54	95.335	-0.265	0.000	0.03		2.3	OK
6.006	S8123	47	95.220	-0.290	0.000	0.14		27.4	OK
6.007	S8125	35	95.218	-0.142	0.000	0.11		29.5	OK
6.008	S4020	35	95.218	0.045	0.000	0.14		33.3	SURCHARGED
6.009	S4021	35	95.217	0.084	0.000	0.31		34.6	SURCHARGED
1.013	S4022	32	95.216	0.021	0.000	0.34		82.2	SURCHARGED
1.014	S4023	24	95.216	0.041	0.000	0.02		7.1	SURCHARGED

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Summary Wizard of 720 minute 30 year Winter I+0% for Surface Network 4

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.409
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.300	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 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	S1002	29	99.970	-0.225	0.000	0.00		0.0	OK
1.001	S1003	58	99.307	-0.283	0.000	0.01		2.1	OK
1.002	S1004	58	98.810	-0.270	0.000	0.02		3.1	OK
2.000	S1005	58	98.794	-0.265	0.000	0.03		4.0	OK
1.003	S1006	58	98.383	-0.262	0.000	0.04		9.5	OK
3.000	S1007	58	96.564	-0.406	0.000	0.02		4.9	OK
3.001	S1008	58	96.311	-0.399	0.000	0.03		4.9	OK
1.004	S1009	58	96.136	-0.472	0.000	0.07		19.2	OK
4.000	S1010	58	98.025	-0.275	0.000	0.02		3.6	OK
4.001	S1011	58	97.001	-0.269	0.000	0.02		3.6	OK
1.005	S1012	58	96.069	-0.461	0.000	0.12		25.2	OK
5.000	S1013	58	96.663	-0.349	0.000	0.01		2.7	OK
1.006	S1014	58	95.970	-0.520	0.000	0.04		31.9	OK
1.007	S1015	59	95.231	-0.518	0.000	0.12		36.1	OK
1.008	S1016	44	95.228	-0.177	0.000	0.15		43.6	OK
1.009	S1017	41	95.227	-0.398	0.000	0.11		45.7	OK
1.010	S1019	34	95.226	-0.189	0.000	0.16		44.6	OK
1.011	S1020	33	95.225	-0.150	0.000	0.13		44.2	OK
1.012	1018	33	95.224	-0.068	0.000	0.12		43.0	OK
6.000	S8143	58	96.763	-0.337	0.000	0.02		4.0	OK

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Summary Wizard of 720 minute 30 year Winter I+0% for Surface Network 4

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
6.001	S8130	58	96.309	-0.401	0.000	0.03		7.3	OK
6.002	S8158	58	96.101	-0.389	0.000	0.04		8.1	OK
6.003	S8129	58	95.921	-0.399	0.000	0.03		10.3	OK
7.000	S4004	58	95.851	-0.249	0.000	0.07		4.5	OK
6.004	S4005	58	95.598	-0.370	0.000	0.07		17.6	OK
6.005	S8122	58	95.382	-0.368	0.000	0.08		18.5	OK
8.000	S8126	58	95.333	-0.267	0.000	0.03		2.0	OK
6.006	S8123	43	95.227	-0.283	0.000	0.12		23.7	OK
6.007	S8125	33	95.226	-0.134	0.000	0.09		25.6	OK
6.008	S4020	33	95.225	0.052	0.000	0.12		28.6	SURCHARGED
6.009	S4021	32	95.225	0.092	0.000	0.28		31.0	SURCHARGED
1.013	S4022	30	95.224	0.029	0.000	0.30		71.8	SURCHARGED
1.014	S4023	22	95.224	0.049	0.000	0.02		7.1	SURCHARGED

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Summary Wizard of 960 minute 30 year Winter I+0% for Surface Network 4

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.409
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.300	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 40

PN	US/MH Name	Storm	Water Level Rank	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S1002	32	99.970	-0.225	0.000	0.00		0.0	OK
1.001	S1003	60	99.304	-0.286	0.000	0.01		1.7	OK
1.002	S1004	60	98.805	-0.275	0.000	0.02		2.5	OK
2.000	S1005	60	98.791	-0.268	0.000	0.03		3.2	OK
1.003	S1006	60	98.380	-0.265	0.000	0.03		7.6	OK
3.000	S1007	60	96.555	-0.415	0.000	0.02		3.9	OK
3.001	S1008	60	96.307	-0.403	0.000	0.02		3.9	OK
1.004	S1009	60	96.122	-0.486	0.000	0.06		15.3	OK
4.000	S1010	60	98.020	-0.280	0.000	0.01		2.8	OK
4.001	S1011	60	96.996	-0.274	0.000	0.02		2.8	OK
1.005	S1012	60	96.055	-0.475	0.000	0.10		20.1	OK
5.000	S1013	60	96.658	-0.354	0.000	0.01		2.2	OK
1.006	S1014	60	95.962	-0.528	0.000	0.03		25.5	OK
1.007	S1015	58	95.232	-0.517	0.000	0.10		28.8	OK
1.008	S1016	42	95.231	-0.174	0.000	0.12		34.8	OK
1.009	S1017	40	95.230	-0.395	0.000	0.09		36.4	OK
1.010	S1019	32	95.230	-0.185	0.000	0.13		35.4	OK
1.011	S1020	32	95.230	-0.145	0.000	0.10		35.1	OK
1.012	1018	32	95.229	-0.063	0.000	0.10		34.2	OK
6.000	S8143	60	96.756	-0.344	0.000	0.02		3.2	OK

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Summary Wizard of 960 minute 30 year Winter I+0% for Surface Network 4

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
6.001	S8130	60	96.306	-0.404	0.000	0.02		5.8	OK
6.002	S8158	60	96.095	-0.395	0.000	0.04		6.5	OK
6.003	S8129	60	95.917	-0.403	0.000	0.02		8.2	OK
7.000	S4004	60	95.845	-0.255	0.000	0.05		3.6	OK
6.004	S4005	60	95.588	-0.380	0.000	0.06		14.1	OK
6.005	S8122	60	95.372	-0.378	0.000	0.06		14.7	OK
8.000	S8126	60	95.331	-0.269	0.000	0.02		1.6	OK
6.006	S8123	42	95.231	-0.279	0.000	0.10		18.9	OK
6.007	S8125	32	95.230	-0.130	0.000	0.07		20.4	OK
6.008	S4020	32	95.230	0.057	0.000	0.09		22.8	SURCHARGED
6.009	S4021	31	95.229	0.096	0.000	0.21		23.1	SURCHARGED
1.013	S4022	29	95.229	0.034	0.000	0.23		55.7	SURCHARGED
1.014	S4023	21	95.228	0.053	0.000	0.02		7.1	SURCHARGED

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Summary Wizard of 1440 minute 30 year Winter I+0% for Surface Network 4

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.409
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.300	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 40

PN	US/MH Name	Storm	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S1002	35	99.970	-0.225	0.000	0.00		0.0	OK
1.001	S1003	66	99.300	-0.290	0.000	0.01		1.2	OK
1.002	S1004	66	98.798	-0.282	0.000	0.01		1.8	OK
2.000	S1005	66	98.786	-0.273	0.000	0.02		2.3	OK
1.003	S1006	66	98.376	-0.269	0.000	0.02		5.5	OK
3.000	S1007	66	96.545	-0.425	0.000	0.01		2.8	OK
3.001	S1008	66	96.297	-0.413	0.000	0.02		2.8	OK
1.004	S1009	66	96.102	-0.506	0.000	0.04		11.1	OK
4.000	S1010	66	98.015	-0.285	0.000	0.01		2.1	OK
4.001	S1011	66	96.989	-0.281	0.000	0.01		2.1	OK
1.005	S1012	66	96.034	-0.496	0.000	0.07		14.6	OK
5.000	S1013	66	96.652	-0.360	0.000	0.01		1.6	OK
1.006	S1014	66	95.953	-0.537	0.000	0.03		18.5	OK
1.007	S1015	60	95.221	-0.528	0.000	0.07		20.9	OK
1.008	S1016	47	95.220	-0.185	0.000	0.08		25.2	OK
1.009	S1017	43	95.219	-0.406	0.000	0.06		26.4	OK
1.010	S1019	35	95.220	-0.195	0.000	0.09		25.6	OK
1.011	S1020	34	95.220	-0.155	0.000	0.07		25.4	OK
1.012	1018	34	95.219	-0.073	0.000	0.07		24.7	OK
6.000	S8143	66	96.747	-0.353	0.000	0.01		2.3	OK

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Summary Wizard of 1440 minute 30 year Winter I+0% for Surface Network 4

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
6.001	S8130	66	96.294	-0.416	0.000	0.02		4.2	OK
6.002	S8158	66	96.088	-0.402	0.000	0.03		4.7	OK
6.003	S8129	66	95.908	-0.412	0.000	0.02		5.9	OK
7.000	S4004	66	95.838	-0.262	0.000	0.04		2.6	OK
6.004	S4005	66	95.578	-0.391	0.000	0.04		10.2	OK
6.005	S8122	66	95.360	-0.390	0.000	0.04		10.7	OK
8.000	S8126	66	95.324	-0.276	0.000	0.02		1.1	OK
6.006	S8123	46	95.221	-0.289	0.000	0.07		13.7	OK
6.007	S8125	34	95.220	-0.140	0.000	0.05		14.8	OK
6.008	S4020	34	95.220	0.047	0.000	0.07		16.6	SURCHARGED
6.009	S4021	34	95.219	0.086	0.000	0.15		16.8	SURCHARGED
1.013	S4022	31	95.219	0.024	0.000	0.17		40.5	SURCHARGED
1.014	S4023	23	95.218	0.043	0.000	0.02		7.1	SURCHARGED

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Summary Wizard of 15 minute 100 year Winter I+40% for Surface Network 4

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.409
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.300	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 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	S1002	36	99.970	-0.225	0.000	0.00		0.0	OK
1.001	S1003	1	99.402	-0.188	0.000	0.30		52.3	OK
1.002	S1004	1	98.936	-0.144	0.000	0.53		76.4	OK
2.000	S1005	1	99.035	-0.024	0.000	0.76		92.6	OK
1.003	S1006	1	98.873	0.228	0.000	0.88		212.8	SURCHARGED
3.000	S1007	1	98.148	1.178	0.000	0.40		95.5	SURCHARGED
3.001	S1008	1	98.107	1.397	0.000	0.49		79.0	SURCHARGED
1.004	S1009	1	98.070	1.462	0.000	1.42		369.3	SURCHARGED
4.000	S1010	1	98.151	-0.149	0.000	0.41		81.6	OK
4.001	S1011	1	98.063	0.793	0.000	0.48		74.7	SURCHARGED
1.005	S1012	1	97.961	1.431	0.000	2.21		455.0	SURCHARGED
5.000	S1013	1	97.843	0.831	0.000	0.31		57.3	FLOOD RISK
1.006	S1014	1	97.797	1.307	0.000	0.76		559.1	FLOOD RISK
1.007	S1015	1	97.437	1.688	2.626	2.07		603.5	FLOOD
1.008	S1016	1	97.286	1.881	0.000	2.28		685.5	SURCHARGED
1.009	S1017	1	96.988	1.363	0.000	1.55		646.8	SURCHARGED
1.010	S1019	1	96.550	1.135	0.000	2.32		636.8	SURCHARGED
1.011	S1020	1	96.312	0.937	0.000	1.79		625.6	SURCHARGED
1.012	1018	1	96.044	0.752	0.000	1.74		617.9	SURCHARGED
6.000	S8143	1	97.766	0.666	0.000	0.45		82.4	SURCHARGED

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Summary Wizard of 15 minute 100 year Winter I+40% for Surface Network 4

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
6.001	S8130	1	97.685	0.975	0.000	0.56		147.5	SURCHARGED
6.002	S8158	1	97.625	1.135	0.000	0.82		150.3	FLOOD RISK
6.003	S8129	1	97.497	1.177	0.000	0.56		185.9	FLOOD RISK
7.000	S4004	1	97.331	1.231	8.848	1.49		97.7	FLOOD
6.004	S4005	1	97.382	1.413	0.000	1.12		269.5	FLOOD RISK
6.005	S8122	1	97.132	1.382	0.000	1.14		275.2	FLOOD RISK
8.000	S8126	1	96.798	1.198	1.598	0.54		37.1	FLOOD
6.006	S8123	1	96.806	1.296	0.000	1.88		363.1	FLOOD RISK
6.007	S8125	1	96.340	0.980	0.000	1.40		390.3	FLOOD RISK
6.008	S4020	1	96.037	0.864	0.000	1.87		452.7	FLOOD RISK
6.009	S4021	1	95.893	0.760	0.000	4.07		456.8	FLOOD RISK
1.013	S4022	3	95.752	0.557	0.000	4.07		988.6	FLOOD RISK
1.014	S4023	40	95.065	-0.110	0.000	0.02		7.1	OK

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Summary Wizard of 30 minute 100 year Winter I+40% for Surface Network 4

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.409
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.300	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 40

PN	US/MH Name	Storm	Water Level Rank	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S1002	33	99.970	-0.225	0.000	0.00		0.0	OK
1.001	S1003	4	99.386	-0.204	0.000	0.23		39.3	OK
1.002	S1004	4	98.912	-0.168	0.000	0.40		57.1	OK
2.000	S1005	4	98.925	-0.134	0.000	0.59		72.4	OK
1.003	S1006	4	98.534	-0.111	0.000	0.71		171.8	OK
3.000	S1007	3	97.789	0.819	0.000	0.34		81.6	SURCHARGED
3.001	S1008	3	97.755	1.045	0.000	0.42		67.9	SURCHARGED
1.004	S1009	2	97.726	1.118	0.000	1.16		301.9	SURCHARGED
4.000	S1010	4	98.116	-0.184	0.000	0.32		63.7	OK
4.001	S1011	2	97.716	0.446	0.000	0.40		62.5	SURCHARGED
1.005	S1012	2	97.643	1.113	0.000	1.86		382.9	SURCHARGED
5.000	S1013	2	97.556	0.544	0.000	0.26		47.4	SURCHARGED
1.006	S1014	2	97.524	1.034	0.000	0.62		458.6	SURCHARGED
1.007	S1015	2	97.277	1.528	0.000	1.76		514.3	FLOOD RISK
1.008	S1016	2	97.133	1.728	0.000	2.00		600.0	SURCHARGED
1.009	S1017	2	96.841	1.216	0.000	1.43		597.0	SURCHARGED
1.010	S1019	2	96.437	1.022	0.000	2.17		595.7	SURCHARGED
1.011	S1020	2	96.219	0.844	0.000	1.69		591.4	SURCHARGED
1.012	1018	2	95.978	0.686	0.000	1.65		587.0	SURCHARGED
6.000	S8143	4	97.434	0.334	0.000	0.38		70.3	SURCHARGED

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Summary Wizard of 30 minute 100 year Winter I+40% for Surface Network 4

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
6.001	S8130	3	97.389	0.679	0.000	0.46		121.4	SURCHARGED
6.002	S8158	3	97.351	0.861	0.000	0.68		124.1	SURCHARGED
6.003	S8129	3	97.284	0.964	0.000	0.43		142.7	SURCHARGED
7.000	S4004	3	97.322	1.222	0.258	1.09		71.1	FLOOD
6.004	S4005	3	97.228	1.259	0.000	1.03		248.9	FLOOD RISK
6.005	S8122	3	97.001	1.251	0.000	1.06		256.2	FLOOD RISK
8.000	S8126	2	96.755	1.155	0.000	0.44		30.0	FLOOD RISK
6.006	S8123	2	96.728	1.218	0.000	1.69		326.5	FLOOD RISK
6.007	S8125	2	96.302	0.942	0.000	1.26		350.4	FLOOD RISK
6.008	S4020	2	96.019	0.846	0.000	1.66		401.6	FLOOD RISK
6.009	S4021	2	95.866	0.733	0.000	3.63		407.3	FLOOD RISK
1.013	S4022	6	95.721	0.526	0.000	3.96		963.2	FLOOD RISK
1.014	S4023	26	95.204	0.029	0.000	0.02		7.1	SURCHARGED

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Summary Wizard of 60 minute 100 year Winter I+40% for Surface Network 4

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.409
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.300	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 40

PN	US/MH Name	Storm	Water Level Rank	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S1002	34	99.970	-0.225	0.000	0.00		0.0	OK
1.001	S1003	8	99.366	-0.224	0.000	0.15		25.6	OK
1.002	S1004	8	98.884	-0.196	0.000	0.26		37.2	OK
2.000	S1005	8	98.889	-0.170	0.000	0.39		47.6	OK
1.003	S1006	8	98.489	-0.156	0.000	0.47		112.5	OK
3.000	S1007	6	96.714	-0.256	0.000	0.24		56.7	OK
3.001	S1008	6	96.685	-0.025	0.000	0.36		56.8	OK
1.004	S1009	6	96.665	0.057	0.000	0.87		225.4	SURCHARGED
4.000	S1010	8	98.093	-0.207	0.000	0.21		41.9	OK
4.001	S1011	8	97.076	-0.194	0.000	0.27		41.6	OK
1.005	S1012	6	96.618	0.088	0.000	1.42		293.7	SURCHARGED
5.000	S1013	8	96.742	-0.270	0.000	0.17		32.1	OK
1.006	S1014	6	96.569	0.079	0.000	0.46		340.3	SURCHARGED
1.007	S1015	6	96.432	0.683	0.000	1.30		378.8	SURCHARGED
1.008	S1016	6	96.372	0.967	0.000	1.51		453.8	SURCHARGED
1.009	S1017	6	96.199	0.574	0.000	1.11		464.3	SURCHARGED
1.010	S1019	6	95.940	0.525	0.000	1.69		465.4	SURCHARGED
1.011	S1020	6	95.810	0.435	0.000	1.33		464.8	SURCHARGED
1.012	1018	12	95.665	0.373	0.000	1.30		463.1	SURCHARGED
6.000	S8143	8	96.853	-0.247	0.000	0.25		47.1	OK

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Summary Wizard of 60 minute 100 year Winter I+40% for Surface Network 4

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
6.001	S8130	8	96.443	-0.267	0.000	0.33		86.3	OK
6.002	S8158	6	96.402	-0.088	0.000	0.52		94.3	OK
6.003	S8129	6	96.359	0.039	0.000	0.33		108.8	SURCHARGED
7.000	S4004	6	96.390	0.290	0.000	0.77		50.4	SURCHARGED
6.004	S4005	6	96.321	0.352	0.000	0.76		182.1	SURCHARGED
6.005	S8122	6	96.197	0.447	0.000	0.79		190.1	SURCHARGED
8.000	S8126	6	96.070	0.470	0.000	0.32		21.8	SURCHARGED
6.006	S8123	6	96.050	0.540	0.000	1.27		244.7	SURCHARGED
6.007	S8125	6	95.810	0.450	0.000	0.95		264.5	SURCHARGED
6.008	S4020	14	95.641	0.468	0.000	1.27		305.8	SURCHARGED
6.009	S4021	18	95.584	0.451	0.000	2.79		312.9	SURCHARGED
1.013	S4022	20	95.505	0.310	0.000	3.15		766.8	SURCHARGED
1.014	S4023	19	95.341	0.166	0.000	0.02		7.1	SURCHARGED

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Summary Wizard of 120 minute 100 year Winter I+40% for Surface Network 4

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.409
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.300	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 40

PN	US/MH Name	Storm	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S1002	21	99.970	-0.225	0.000	0.00		0.0	OK
1.001	S1003	14	99.350	-0.240	0.000	0.09		15.5	OK
1.002	S1004	14	98.859	-0.221	0.000	0.16		22.6	OK
2.000	S1005	14	98.858	-0.201	0.000	0.24		29.3	OK
1.003	S1006	14	98.454	-0.191	0.000	0.29		69.0	OK
3.000	S1007	14	96.635	-0.335	0.000	0.15		35.1	OK
3.001	S1008	13	96.454	-0.256	0.000	0.22		34.9	OK
1.004	S1009	13	96.423	-0.185	0.000	0.53		138.6	OK
4.000	S1010	14	98.071	-0.229	0.000	0.13		25.8	OK
4.001	S1011	14	97.052	-0.218	0.000	0.17		25.8	OK
1.005	S1012	13	96.369	-0.161	0.000	0.88		181.3	OK
5.000	S1013	14	96.719	-0.293	0.000	0.11		19.9	OK
1.006	S1014	13	96.119	-0.371	0.000	0.31		229.3	OK
1.007	S1015	14	95.749	0.000	0.000	0.87		253.1	OK
1.008	S1016	15	95.702	0.297	0.000	1.01		304.4	SURCHARGED
1.009	S1017	21	95.624	-0.001	0.000	0.77		320.1	OK
1.010	S1019	25	95.505	0.090	0.000	1.16		318.4	SURCHARGED
1.011	S1020	24	95.488	0.113	0.000	0.91		317.1	SURCHARGED
1.012	1018	22	95.482	0.190	0.000	0.89		316.0	SURCHARGED
6.000	S8143	14	96.824	-0.276	0.000	0.16		29.1	OK

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Summary Wizard of 120 minute 100 year Winter I+40% for Surface Network 4

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
6.001	S8130	14	96.396	-0.314	0.000	0.20		53.1	OK
6.002	S8158	14	96.215	-0.275	0.000	0.32		58.9	OK
6.003	S8129	14	96.013	-0.307	0.000	0.22		74.2	OK
7.000	S4004	14	95.949	-0.151	0.000	0.50		32.4	OK
6.004	S4005	17	95.752	-0.217	0.000	0.53		127.5	OK
6.005	S8122	20	95.648	-0.102	0.000	0.53		128.8	OK
8.000	S8126	24	95.591	-0.009	0.000	0.20		13.8	OK
6.006	S8123	24	95.577	0.067	0.000	0.85		164.8	SURCHARGED
6.007	S8125	25	95.488	0.128	0.000	0.64		178.6	SURCHARGED
6.008	S4020	22	95.480	0.307	0.000	0.85		205.4	SURCHARGED
6.009	S4021	22	95.478	0.345	0.000	1.88		210.9	SURCHARGED
1.013	S4022	22	95.477	0.282	0.000	2.16		524.9	SURCHARGED
1.014	S4023	16	95.476	0.301	0.000	0.02		7.1	SURCHARGED

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Summary Wizard of 180 minute 100 year Winter I+40% for Surface Network 4

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.409
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.300	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 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	S1002	22	99.970	-0.225	0.000	0.00		0.0	OK
1.001	S1003	17	99.340	-0.250	0.000	0.07		11.5	OK
1.002	S1004	17	98.848	-0.232	0.000	0.12		16.8	OK
2.000	S1005	17	98.844	-0.215	0.000	0.18		21.8	OK
1.003	S1006	17	98.438	-0.207	0.000	0.21		51.3	OK
3.000	S1007	17	96.619	-0.351	0.000	0.11		26.2	OK
3.001	S1008	17	96.400	-0.310	0.000	0.16		26.1	OK
1.004	S1009	17	96.343	-0.265	0.000	0.40		103.2	OK
4.000	S1010	17	98.062	-0.238	0.000	0.10		19.2	OK
4.001	S1011	17	97.040	-0.230	0.000	0.12		19.2	OK
1.005	S1012	17	96.286	-0.244	0.000	0.66		135.5	OK
5.000	S1013	17	96.707	-0.305	0.000	0.08		14.8	OK
1.006	S1014	17	96.085	-0.405	0.000	0.23		171.2	OK
1.007	S1015	27	95.590	-0.159	0.000	0.66		193.1	OK
1.008	S1016	27	95.586	0.181	0.000	0.77		232.4	SURCHARGED
1.009	S1017	25	95.579	-0.046	0.000	0.58		243.5	OK
1.010	S1019	21	95.562	0.147	0.000	0.88		242.9	SURCHARGED
1.011	S1020	20	95.558	0.183	0.000	0.69		242.8	SURCHARGED
1.012	1018	19	95.554	0.262	0.000	0.68		242.3	SURCHARGED
6.000	S8143	17	96.810	-0.290	0.000	0.12		21.7	OK

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Summary Wizard of 180 minute 100 year Winter I+40% for Surface Network 4

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
6.001	S8130	17	96.375	-0.335	0.000	0.15		39.5	OK
6.002	S8158	17	96.189	-0.301	0.000	0.24		43.9	OK
6.003	S8129	17	95.992	-0.328	0.000	0.17		55.2	OK
7.000	S4004	17	95.926	-0.174	0.000	0.37		24.1	OK
6.004	S4005	21	95.715	-0.254	0.000	0.39		94.8	OK
6.005	S8122	26	95.569	-0.181	0.000	0.41		99.2	OK
8.000	S8126	25	95.565	-0.035	0.000	0.15		10.6	OK
6.006	S8123	25	95.564	0.054	0.000	0.66		127.3	SURCHARGED
6.007	S8125	20	95.557	0.197	0.000	0.49		137.9	SURCHARGED
6.008	S4020	20	95.553	0.380	0.000	0.66		159.2	SURCHARGED
6.009	S4021	20	95.551	0.418	0.000	1.46		163.3	SURCHARGED
1.013	S4022	19	95.550	0.355	0.000	1.66		403.1	SURCHARGED
1.014	S4023	14	95.549	0.374	0.000	0.02		7.1	SURCHARGED

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Summary Wizard of 240 minute 100 year Winter I+40% for Surface Network 4

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.409
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.300	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 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	S1002	19	99.970	-0.225	0.000	0.00		0.0	OK
1.001	S1003	20	99.334	-0.256	0.000	0.05		9.2	OK
1.002	S1004	20	98.842	-0.238	0.000	0.09		13.5	OK
2.000	S1005	22	98.834	-0.225	0.000	0.14		17.5	OK
1.003	S1006	21	98.428	-0.217	0.000	0.17		41.1	OK
3.000	S1007	22	96.610	-0.360	0.000	0.09		20.9	OK
3.001	S1008	21	96.374	-0.336	0.000	0.13		20.9	OK
1.004	S1009	20	96.298	-0.310	0.000	0.32		82.9	OK
4.000	S1010	22	98.055	-0.245	0.000	0.08		15.4	OK
4.001	S1011	22	97.033	-0.237	0.000	0.10		15.4	OK
1.005	S1012	20	96.240	-0.290	0.000	0.53		108.7	OK
5.000	S1013	22	96.698	-0.314	0.000	0.06		11.9	OK
1.006	S1014	19	96.064	-0.426	0.000	0.19		137.5	OK
1.007	S1015	24	95.636	-0.113	0.000	0.53		155.0	OK
1.008	S1016	23	95.632	0.227	0.000	0.62		186.0	SURCHARGED
1.009	S1017	19	95.625	0.000	0.000	0.47		195.9	OK
1.010	S1019	18	95.607	0.192	0.000	0.71		195.1	SURCHARGED
1.011	S1020	17	95.604	0.229	0.000	0.56		194.6	SURCHARGED
1.012	1018	17	95.601	0.309	0.000	0.55		193.5	SURCHARGED
6.000	S8143	22	96.802	-0.298	0.000	0.09		17.4	OK

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Summary Wizard of 240 minute 100 year Winter I+40% for Surface Network 4

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
6.001	S8130	21	96.363	-0.347	0.000	0.12		31.6	OK
6.002	S8158	21	96.173	-0.317	0.000	0.19		35.2	OK
6.003	S8129	21	95.978	-0.342	0.000	0.13		44.3	OK
7.000	S4004	22	95.911	-0.189	0.000	0.30		19.3	OK
6.004	S4005	26	95.692	-0.277	0.000	0.32		76.0	OK
6.005	S8122	23	95.613	-0.137	0.000	0.33		79.6	OK
8.000	S8126	22	95.610	0.010	0.000	0.12		8.5	SURCHARGED
6.006	S8123	22	95.609	0.099	0.000	0.53		102.2	SURCHARGED
6.007	S8125	17	95.604	0.244	0.000	0.40		110.3	SURCHARGED
6.008	S4020	17	95.600	0.427	0.000	0.53		127.5	SURCHARGED
6.009	S4021	16	95.599	0.466	0.000	1.16		130.2	SURCHARGED
1.013	S4022	15	95.599	0.404	0.000	1.33		323.6	SURCHARGED
1.014	S4023	11	95.598	0.423	0.000	0.02		7.1	SURCHARGED

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Summary Wizard of 360 minute 100 year Winter I+40% for Surface Network 4

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.409
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.300	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 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	S1002	20	99.970	-0.225	0.000	0.00		0.0	OK
1.001	S1003	29	99.328	-0.262	0.000	0.04		6.7	OK
1.002	S1004	29	98.831	-0.249	0.000	0.07		9.7	OK
2.000	S1005	30	98.823	-0.236	0.000	0.10		12.7	OK
1.003	S1006	29	98.415	-0.230	0.000	0.12		29.8	OK
3.000	S1007	30	96.594	-0.376	0.000	0.06		15.2	OK
3.001	S1008	30	96.353	-0.357	0.000	0.09		15.2	OK
1.004	S1009	29	96.247	-0.361	0.000	0.23		60.2	OK
4.000	S1010	30	98.046	-0.254	0.000	0.06		11.1	OK
4.001	S1011	30	97.023	-0.247	0.000	0.07		11.1	OK
1.005	S1012	29	96.187	-0.343	0.000	0.38		78.9	OK
5.000	S1013	30	96.689	-0.323	0.000	0.05		8.6	OK
1.006	S1014	29	96.036	-0.454	0.000	0.14		99.8	OK
1.007	S1015	19	95.674	-0.075	0.000	0.39		112.5	OK
1.008	S1016	18	95.672	0.267	0.000	0.45		134.8	SURCHARGED
1.009	S1017	14	95.668	0.043	0.000	0.34		140.4	SURCHARGED
1.010	S1019	13	95.665	0.250	0.000	0.49		133.7	SURCHARGED
1.011	S1020	13	95.663	0.288	0.000	0.38		132.1	SURCHARGED
1.012	1018	13	95.661	0.369	0.000	0.36		128.7	SURCHARGED
6.000	S8143	30	96.789	-0.311	0.000	0.07		12.6	OK

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Summary Wizard of 360 minute 100 year Winter I+40% for Surface Network 4

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
6.001	S8130	30	96.349	-0.361	0.000	0.09		22.9	OK
6.002	S8158	30	96.151	-0.339	0.000	0.14		25.5	OK
6.003	S8129	29	95.963	-0.357	0.000	0.10		32.1	OK
7.000	S4004	30	95.894	-0.206	0.000	0.21		14.0	OK
6.004	S4005	32	95.672	-0.297	0.000	0.23		55.1	OK
6.005	S8122	18	95.669	-0.081	0.000	0.24		57.8	OK
8.000	S8126	15	95.666	0.066	0.000	0.09		6.2	SURCHARGED
6.006	S8123	15	95.666	0.156	0.000	0.38		73.2	SURCHARGED
6.007	S8125	13	95.663	0.303	0.000	0.28		77.8	SURCHARGED
6.008	S4020	12	95.661	0.488	0.000	0.37		88.4	SURCHARGED
6.009	S4021	11	95.660	0.527	0.000	0.80		90.0	SURCHARGED
1.013	S4022	11	95.659	0.464	0.000	0.88		214.9	SURCHARGED
1.014	S4023	7	95.659	0.484	0.000	0.02		7.1	SURCHARGED

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Summary Wizard of 480 minute 100 year Winter I+40% for Surface Network 4

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.409
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.300	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 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	S1002	23	99.970	-0.225	0.000	0.00		0.0	OK
1.001	S1003	34	99.324	-0.266	0.000	0.03		5.3	OK
1.002	S1004	34	98.825	-0.255	0.000	0.05		7.8	OK
2.000	S1005	34	98.816	-0.243	0.000	0.08		10.1	OK
1.003	S1006	34	98.408	-0.237	0.000	0.10		23.7	OK
3.000	S1007	34	96.585	-0.385	0.000	0.05		12.1	OK
3.001	S1008	34	96.341	-0.369	0.000	0.08		12.1	OK
1.004	S1009	34	96.217	-0.391	0.000	0.18		47.9	OK
4.000	S1010	34	98.040	-0.260	0.000	0.04		8.9	OK
4.001	S1011	34	97.016	-0.254	0.000	0.06		8.9	OK
1.005	S1012	34	96.156	-0.374	0.000	0.30		62.8	OK
5.000	S1013	34	96.683	-0.329	0.000	0.04		6.8	OK
1.006	S1014	34	96.021	-0.469	0.000	0.11		79.5	OK
1.007	S1015	17	95.712	-0.037	0.000	0.31		89.6	OK
1.008	S1016	14	95.710	0.305	0.000	0.36		107.0	SURCHARGED
1.009	S1017	13	95.707	0.082	0.000	0.27		111.1	SURCHARGED
1.010	S1019	11	95.705	0.290	0.000	0.38		105.3	SURCHARGED
1.011	S1020	11	95.704	0.329	0.000	0.30		104.0	SURCHARGED
1.012	1018	10	95.702	0.410	0.000	0.29		101.5	SURCHARGED
6.000	S8143	34	96.781	-0.319	0.000	0.05		10.0	OK

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Summary Wizard of 480 minute 100 year Winter I+40% for Surface Network 4

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
6.001	S8130	34	96.337	-0.373	0.000	0.07		18.2	OK
6.002	S8158	34	96.139	-0.351	0.000	0.11		20.3	OK
6.003	S8129	34	95.952	-0.368	0.000	0.08		25.5	OK
7.000	S4004	34	95.883	-0.217	0.000	0.17		11.1	OK
6.004	S4005	22	95.710	-0.258	0.000	0.18		43.9	OK
6.005	S8122	15	95.708	-0.042	0.000	0.19		46.0	OK
8.000	S8126	13	95.706	0.106	0.000	0.07		4.9	SURCHARGED
6.006	S8123	12	95.706	0.196	0.000	0.30		58.2	SURCHARGED
6.007	S8125	11	95.704	0.344	0.000	0.22		61.6	SURCHARGED
6.008	S4020	10	95.702	0.529	0.000	0.29		70.3	SURCHARGED
6.009	S4021	9	95.702	0.569	0.000	0.64		71.7	SURCHARGED
1.013	S4022	7	95.701	0.506	0.000	0.70		170.5	SURCHARGED
1.014	S4023	5	95.701	0.526	0.000	0.02		7.1	SURCHARGED

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Summary Wizard of 600 minute 100 year Winter I+40% for Surface Network 4

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.409
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.300	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 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	S1002	26	99.970	-0.225	0.000	0.00		0.0	OK
1.001	S1003	39	99.322	-0.268	0.000	0.03		4.5	OK
1.002	S1004	39	98.821	-0.259	0.000	0.05		6.5	OK
2.000	S1005	39	98.810	-0.249	0.000	0.07		8.4	OK
1.003	S1006	39	98.402	-0.243	0.000	0.08		19.8	OK
3.000	S1007	39	96.579	-0.391	0.000	0.04		10.1	OK
3.001	S1008	39	96.333	-0.377	0.000	0.06		10.1	OK
1.004	S1009	39	96.198	-0.410	0.000	0.15		40.1	OK
4.000	S1010	39	98.037	-0.263	0.000	0.04		7.4	OK
4.001	S1011	39	97.012	-0.258	0.000	0.05		7.4	OK
1.005	S1012	39	96.135	-0.395	0.000	0.26		52.6	OK
5.000	S1013	39	96.680	-0.332	0.000	0.03		5.7	OK
1.006	S1014	39	96.011	-0.479	0.000	0.09		66.5	OK
1.007	S1015	16	95.741	-0.008	0.000	0.26		75.0	OK
1.008	S1016	12	95.737	0.332	0.000	0.30		89.5	SURCHARGED
1.009	S1017	11	95.735	0.110	0.000	0.22		92.8	SURCHARGED
1.010	S1019	10	95.733	0.318	0.000	0.32		88.1	SURCHARGED
1.011	S1020	10	95.732	0.357	0.000	0.25		87.0	SURCHARGED
1.012	1018	9	95.731	0.439	0.000	0.24		85.2	SURCHARGED
6.000	S8143	39	96.776	-0.324	0.000	0.05		8.4	OK

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Summary Wizard of 600 minute 100 year Winter I+40% for Surface Network 4

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
6.001	S8130	39	96.329	-0.381	0.000	0.06		15.3	OK
6.002	S8158	39	96.132	-0.358	0.000	0.09		17.0	OK
6.003	S8129	39	95.944	-0.376	0.000	0.06		21.4	OK
7.000	S4004	39	95.875	-0.225	0.000	0.14		9.3	OK
6.004	S4005	18	95.737	-0.232	0.000	0.15		36.8	OK
6.005	S8122	13	95.735	-0.015	0.000	0.16		38.5	OK
8.000	S8126	11	95.734	0.134	0.000	0.06		4.1	SURCHARGED
6.006	S8123	11	95.734	0.224	0.000	0.25		48.7	SURCHARGED
6.007	S8125	10	95.732	0.372	0.000	0.18		51.5	SURCHARGED
6.008	S4020	8	95.730	0.557	0.000	0.24		58.7	SURCHARGED
6.009	S4021	8	95.730	0.597	0.000	0.53		60.0	FLOOD RISK
1.013	S4022	5	95.730	0.535	0.000	0.59		143.4	FLOOD RISK
1.014	S4023	4	95.729	0.554	0.000	0.02		7.1	FLOOD RISK

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Summary Wizard of 720 minute 100 year Winter I+40% for Surface Network 4

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.409
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.300	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 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	S1002	27	99.970	-0.225	0.000	0.00		0.0	OK
1.001	S1003	42	99.320	-0.270	0.000	0.02		3.8	OK
1.002	S1004	42	98.818	-0.262	0.000	0.04		5.6	OK
2.000	S1005	42	98.806	-0.253	0.000	0.06		7.3	OK
1.003	S1006	42	98.397	-0.248	0.000	0.07		17.2	OK
3.000	S1007	42	96.575	-0.395	0.000	0.04		8.7	OK
3.001	S1008	42	96.327	-0.383	0.000	0.05		8.7	OK
1.004	S1009	42	96.183	-0.425	0.000	0.13		34.7	OK
4.000	S1010	42	98.035	-0.265	0.000	0.03		6.4	OK
4.001	S1011	42	97.009	-0.261	0.000	0.04		6.4	OK
1.005	S1012	42	96.120	-0.410	0.000	0.22		45.5	OK
5.000	S1013	42	96.678	-0.334	0.000	0.03		5.0	OK
1.006	S1014	42	96.001	-0.489	0.000	0.08		57.5	OK
1.007	S1015	12	95.758	0.009	0.000	0.22		64.7	SURCHARGED
1.008	S1016	11	95.757	0.352	0.000	0.26		77.0	SURCHARGED
1.009	S1017	10	95.755	0.130	0.000	0.19		79.7	SURCHARGED
1.010	S1019	9	95.754	0.339	0.000	0.27		75.3	SURCHARGED
1.011	S1020	9	95.753	0.378	0.000	0.21		74.5	SURCHARGED
1.012	1018	7	95.752	0.460	0.000	0.21		73.5	SURCHARGED
6.000	S8143	42	96.773	-0.327	0.000	0.04		7.2	OK

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Summary Wizard of 720 minute 100 year Winter I+40% for Surface Network 4

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
6.001	S8130	42	96.324	-0.386	0.000	0.05		13.2	OK
6.002	S8158	42	96.124	-0.366	0.000	0.08		14.7	OK
6.003	S8129	42	95.938	-0.382	0.000	0.06		18.5	OK
7.000	S4004	42	95.870	-0.230	0.000	0.12		8.1	OK
6.004	S4005	15	95.758	-0.211	0.000	0.13		31.8	OK
6.005	S8122	12	95.756	0.006	0.000	0.14		33.3	SURCHARGED
8.000	S8126	10	95.755	0.155	0.000	0.05		3.6	SURCHARGED
6.006	S8123	9	95.755	0.245	0.000	0.22		42.1	SURCHARGED
6.007	S8125	9	95.753	0.393	0.000	0.16		44.6	SURCHARGED
6.008	S4020	7	95.752	0.579	0.000	0.21		50.9	SURCHARGED
6.009	S4021	7	95.751	0.618	0.000	0.46		51.9	FLOOD RISK
1.013	S4022	4	95.751	0.556	0.000	0.51		123.6	FLOOD RISK
1.014	S4023	3	95.750	0.575	0.000	0.02		7.1	FLOOD RISK

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Summary Wizard of 960 minute 100 year Winter I+40% for Surface Network 4

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.409
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.300	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 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	S1002	24	99.970	-0.225	0.000	0.00		0.0	OK
1.001	S1003	47	99.315	-0.275	0.000	0.02		3.1	OK
1.002	S1004	47	98.814	-0.266	0.000	0.03		4.5	OK
2.000	S1005	47	98.801	-0.258	0.000	0.05		5.8	OK
1.003	S1006	47	98.391	-0.254	0.000	0.06		13.6	OK
3.000	S1007	47	96.570	-0.400	0.000	0.03		6.9	OK
3.001	S1008	47	96.320	-0.390	0.000	0.04		6.9	OK
1.004	S1009	47	96.162	-0.446	0.000	0.11		27.5	OK
4.000	S1010	47	98.032	-0.268	0.000	0.03		5.1	OK
4.001	S1011	47	97.005	-0.265	0.000	0.03		5.1	OK
1.005	S1012	47	96.098	-0.432	0.000	0.18		36.1	OK
5.000	S1013	47	96.675	-0.337	0.000	0.02		3.9	OK
1.006	S1014	47	95.986	-0.504	0.000	0.06		45.7	OK
1.007	S1015	10	95.783	0.034	0.000	0.18		51.4	SURCHARGED
1.008	S1016	10	95.782	0.377	0.000	0.20		61.1	SURCHARGED
1.009	S1017	9	95.781	0.156	0.000	0.15		63.0	SURCHARGED
1.010	S1019	8	95.780	0.365	0.000	0.22		59.7	SURCHARGED
1.011	S1020	8	95.779	0.404	0.000	0.17		58.9	SURCHARGED
1.012	1018	6	95.778	0.486	0.000	0.16		58.5	SURCHARGED
6.000	S8143	47	96.768	-0.332	0.000	0.03		5.8	OK

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Summary Wizard of 960 minute 100 year Winter I+40% for Surface Network 4

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
6.001	S8130	47	96.317	-0.393	0.000	0.04		10.5	OK
6.002	S8158	47	96.113	-0.377	0.000	0.06		11.7	OK
6.003	S8129	47	95.930	-0.390	0.000	0.04		14.7	OK
7.000	S4004	47	95.863	-0.237	0.000	0.10		6.4	OK
6.004	S4005	13	95.783	-0.186	0.000	0.10		25.2	OK
6.005	S8122	10	95.782	0.032	0.000	0.11		26.4	SURCHARGED
8.000	S8126	8	95.781	0.181	0.000	0.04		2.8	SURCHARGED
6.006	S8123	8	95.781	0.271	0.000	0.17		33.4	SURCHARGED
6.007	S8125	8	95.780	0.420	0.000	0.13		35.4	SURCHARGED
6.008	S4020	6	95.778	0.605	0.000	0.17		40.4	SURCHARGED
6.009	S4021	6	95.778	0.645	0.000	0.37		41.2	FLOOD RISK
1.013	S4022	2	95.778	0.583	0.000	0.40		98.2	FLOOD RISK
1.014	S4023	2	95.777	0.602	0.000	0.02		7.1	FLOOD RISK

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Summary Wizard of 1440 minute 100 year Winter I+40% for Surface Network 4

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.409
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.300	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 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	S1002	25	99.970	-0.225	0.000	0.00		0.0	OK
1.001	S1003	57	99.308	-0.282	0.000	0.01		2.2	OK
1.002	S1004	57	98.811	-0.269	0.000	0.02		3.2	OK
2.000	S1005	57	98.795	-0.264	0.000	0.03		4.2	OK
1.003	S1006	57	98.384	-0.261	0.000	0.04		9.8	OK
3.000	S1007	57	96.565	-0.405	0.000	0.02		5.0	OK
3.001	S1008	57	96.312	-0.398	0.000	0.03		5.0	OK
1.004	S1009	57	96.138	-0.470	0.000	0.08		19.9	OK
4.000	S1010	57	98.026	-0.274	0.000	0.02		3.7	OK
4.001	S1011	57	97.001	-0.269	0.000	0.02		3.7	OK
1.005	S1012	57	96.071	-0.459	0.000	0.13		26.1	OK
5.000	S1013	57	96.664	-0.348	0.000	0.02		2.8	OK
1.006	S1014	57	95.971	-0.519	0.000	0.04		33.0	OK
1.007	S1015	9	95.803	0.054	0.000	0.13		37.1	SURCHARGED
1.008	S1016	8	95.802	0.397	0.000	0.15		44.2	SURCHARGED
1.009	S1017	7	95.801	0.176	0.000	0.11		45.7	SURCHARGED
1.010	S1019	7	95.801	0.386	0.000	0.16		43.8	SURCHARGED
1.011	S1020	7	95.801	0.426	0.000	0.12		43.4	SURCHARGED
1.012	1018	5	95.800	0.508	0.000	0.12		42.7	SURCHARGED
6.000	S8143	57	96.763	-0.337	0.000	0.02		4.2	OK

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Summary Wizard of 1440 minute 100 year Winter I+40% for Surface Network 4

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
6.001	S8130	57	96.310	-0.400	0.000	0.03		7.6	OK
6.002	S8158	57	96.102	-0.388	0.000	0.05		8.4	OK
6.003	S8129	57	95.922	-0.398	0.000	0.03		10.6	OK
7.000	S4004	57	95.852	-0.248	0.000	0.07		4.6	OK
6.004	S4005	11	95.804	-0.165	0.000	0.08		18.2	OK
6.005	S8122	9	95.803	0.053	0.000	0.08		19.1	SURCHARGED
8.000	S8126	7	95.802	0.202	0.000	0.03		2.0	SURCHARGED
6.006	S8123	7	95.802	0.292	0.000	0.12		24.1	SURCHARGED
6.007	S8125	7	95.801	0.441	0.000	0.09		25.5	SURCHARGED
6.008	S4020	5	95.800	0.627	0.000	0.12		29.2	SURCHARGED
6.009	S4021	4	95.800	0.667	0.000	0.27		29.8	FLOOD RISK
1.013	S4022	1	95.800	0.605	0.000	0.30		72.2	FLOOD RISK
1.014	S4023	1	95.800	0.625	0.000	0.02		7.1	FLOOD RISK

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STORM SEWER DESIGN by the Modified Rational Method

Design Criteria for Surface Network 4

Pipe Sizes STANDARD Manhole Sizes STANDARD

FSR Rainfall Model - England and Wales

Return Period (years)	2	PIMP (%)	100
M5-60 (mm)	19.300	Add Flow / Climate Change (%)	0
Ratio R	0.409	Minimum Backdrop Height (m)	0.200
Maximum Rainfall (mm/hr)	50	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 Network 4

PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)	Section Type	Auto Design
1.000	31.977	0.605	52.9	0.000	5.00	0.0	0.600	o	225	Pipe/Conduit	
1.001	14.537	0.510	28.5	0.081	0.00	0.0	0.600	o	300	Pipe/Conduit	
1.002	19.952	0.435	45.9	0.037	0.00	0.0	0.600	o	300	Pipe/Conduit	
2.000	27.936	0.414	67.5	0.154	5.00	0.0	0.600	o	300	Pipe/Conduit	
1.003	37.093	2.037	18.2	0.090	0.00	0.0	0.600	o	300	Pipe/Conduit	
3.000	37.536	0.260	144.4	0.184	5.00	0.0	0.600	o	450	Pipe/Conduit	
3.001	30.732	0.102	301.3	0.000	0.00	0.0	0.600	o	450	Pipe/Conduit	
1.004	38.768	0.078	497.0	0.185	0.00	0.0	0.600	o	600	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	50.00	5.30	99.970	0.000	0.0	0.0	0.0	1.80	71.7	0.0
1.001	50.00	5.38	99.290	0.081	0.0	0.0	0.0	2.96	209.0	11.0
1.002	50.00	5.52	98.780	0.118	0.0	0.0	0.0	2.33	164.5	16.0
2.000	50.00	5.24	98.759	0.154	0.0	0.0	0.0	1.92	135.5	20.8
1.003	50.00	5.69	98.345	0.362	0.0	0.0	0.0	3.70	261.7	49.0
3.000	50.00	5.37	96.520	0.184	0.0	0.0	0.0	1.69	268.8	25.0
3.001	50.00	5.81	96.260	0.184	0.0	0.0	0.0	1.17	185.4	25.0
1.004	50.00	6.40	96.008	0.731	0.0	0.0	0.0	1.09	306.9	99.0

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Network Design Table for Surface Network 4

PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)	Section Type	Auto Design
4.000	26.077	1.030	25.3	0.135	5.00	0.0	0.600	o	300	Pipe/Conduit	
4.001	32.208	0.740	43.5	0.000	0.00	0.0	0.600	o	300	Pipe/Conduit	
1.005	20.022	0.040	500.5	0.093	0.00	0.0	0.600	o	600	Pipe/Conduit	
5.000	56.434	0.554	101.9	0.104	5.00	0.0	0.600	o	375	Pipe/Conduit	
1.006	49.499	0.741	66.8	0.150	0.00	0.0	0.600	o	600	Pipe/Conduit	
1.007	21.990	0.044	499.8	0.159	0.00	0.0	0.600	o	675	Pipe/Conduit	
1.008	23.168	0.080	289.6	0.287	0.00	0.0	0.600	ooo	46	Pipe/Conduit	
1.009	87.576	0.210	417.0	0.086	0.00	0.0	0.600	o	675	Pipe/Conduit	
1.010	19.277	0.040	481.9	0.000	0.00	0.0	0.600	o	675	Pipe/Conduit	
1.011	41.556	0.083	500.7	0.000	0.00	0.0	0.600	o	675	Pipe/Conduit	
1.012	46.638	0.093	501.5	0.000	0.00	0.0	0.600	o	675	Pipe/Conduit	
6.000	37.185	0.390	95.3	0.153	5.00	0.0	0.600	o	375	Pipe/Conduit	
6.001	17.625	0.220	80.1	0.126	0.00	0.0	0.600	o	450	Pipe/Conduit	
6.002	42.117	0.170	247.7	0.031	0.00	0.0	0.600	o	450	Pipe/Conduit	
6.003	18.109	0.351	51.5	0.080	0.00	0.0	0.600	o	450	Pipe/Conduit	
7.000	31.269	0.131	238.0	0.170	5.00	0.0	0.600	o	300	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)
4.000	50.00	5.14	98.000	0.135	0.0	0.0	0.0	3.14	221.8	18.3
4.001	50.00	5.36	96.970	0.135	0.0	0.0	0.0	2.39	168.9	18.3
1.005	50.00	6.71	95.930	0.959	0.0	0.0	0.0	1.08	305.8	129.9
5.000	50.00	5.52	96.637	0.104	0.0	0.0	0.0	1.80	198.3	14.1
1.006	50.00	6.99	95.890	1.213	0.0	0.0	0.0	2.98	843.3	164.3
1.007	50.00	7.30	95.074	1.372	0.0	0.0	0.0	1.17	417.1	185.8
1.008	50.00	7.67	95.030	1.659	0.0	0.0	0.0	1.06	350.5	224.6
1.009	50.00	8.81	94.950	1.745	0.0	0.0	0.0	1.28	457.0	236.2
1.010	50.00	9.08	94.740	1.745	0.0	0.0	0.0	1.19	424.8	236.2
1.011	49.78	9.68	94.700	1.745	0.0	0.0	0.0	1.16	416.7	236.2
1.012	48.03	10.35	94.617	1.745	0.0	0.0	0.0	1.16	416.4	236.2
6.000	50.00	5.33	96.725	0.153	0.0	0.0	0.0	1.86	205.0	20.7
6.001	50.00	5.46	96.260	0.278	0.0	0.0	0.0	2.27	361.5	37.7
6.002	50.00	6.01	96.040	0.310	0.0	0.0	0.0	1.29	204.7	41.9
6.003	50.00	6.11	95.870	0.390	0.0	0.0	0.0	2.84	451.2	52.8
7.000	50.00	5.51	95.800	0.170	0.0	0.0	0.0	1.01	71.7	23.0

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Network Design Table for Surface Network 4

PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)	Section Type	Auto Design
6.004	28.670	0.219	131.2	0.110	0.00	0.0	0.600	o	450	Pipe/Conduit	
6.005	32.335	0.240	134.7	0.032	0.00	0.0	0.600	o	450	Pipe/Conduit	
8.000	17.004	0.090	188.9	0.075	5.00	0.0	0.600	o	300	Pipe/Conduit	
6.006	31.219	0.150	208.1	0.125	0.00	0.0	0.600	o	450	Pipe/Conduit	
6.007	43.376	0.187	232.1	0.075	0.00	0.0	0.600	o	525	Pipe/Conduit	
6.008	13.526	0.040	337.0	0.152	0.00	0.0	0.600	o	600	Pipe/Conduit	
6.009	22.609	0.013	1739.2	0.028	0.00	0.0	0.600	o	600	Pipe/Conduit	
1.013	7.123	0.020	356.2	0.000	0.00	0.0	0.600	o	675	Pipe/Conduit	
1.014	12.463	0.050	249.3	0.000	0.00	0.0	0.600	o	675	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)
6.004	50.00	6.38	95.519	0.670	0.0	0.0	0.0	1.77	282.1	90.7
6.005	50.00	6.69	95.300	0.702	0.0	0.0	0.0	1.75	278.3	95.1
8.000	50.00	5.25	95.300	0.075	0.0	0.0	0.0	1.14	80.6	10.1
6.006	50.00	7.06	95.060	0.901	0.0	0.0	0.0	1.41	223.5	122.1
6.007	50.00	7.56	94.835	0.976	0.0	0.0	0.0	1.47	317.4	132.2
6.008	50.00	7.73	94.573	1.128	0.0	0.0	0.0	1.32	373.5	152.8
6.009	50.00	8.38	94.533	1.157	0.0	0.0	0.0	0.57	162.5	156.6
1.013	47.82	10.43	94.520	2.901	0.0	0.0	0.0	1.38	494.9	375.7
1.014	47.51	10.56	94.500	2.901	0.0	0.0	0.0	1.66	592.4	375.7

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Manhole Schedules for Surface Network 4

MH Name	MH CL (m)	MH Depth (m)	MH Connection	MH Diam.,L*W (mm)	Pipe Out PN	Pipe Out Invert Level (m)	Pipe Out Diameter (mm)	Pipes In PN	Pipes In Invert Level (m)	Pipes In Diameter (mm)	Backdrop (mm)
S1002	101.875	1.905	Open Manhole	1200	1.000	99.970	225				
S1003	100.931	1.641	Open Manhole	1200	1.001	99.290	300	1.000	99.365	225	
S1004	100.387	1.607	Open Manhole	1200	1.002	98.780	300	1.001	98.780	300	
S1005	100.235	1.476	Open Manhole	1200	2.000	98.759	300				
S1006	99.762	1.417	Open Manhole	1500	1.003	98.345	300	1.002	98.345	300	
								2.000	98.345	300	
S1007	98.496	1.976	Open Manhole	1500	3.000	96.520	450				
S1008	98.979	2.719	Open Manhole	1350	3.001	96.260	450	3.000	96.260	450	
S1009	99.036	3.028	Open Manhole	1500	1.004	96.008	600	1.003	96.308	300	
								3.001	96.158	450	
S1010	99.556	1.556	Open Manhole	1500	4.000	98.000	300				
S1011	98.953	1.983	Open Manhole	1200	4.001	96.970	300	4.000	96.970	300	
S1012	98.341	2.411	Open Manhole	1500	1.005	95.930	600	1.004	95.930	600	
								4.001	96.230	300	
S1013	98.038	1.401	Open Manhole	1500	5.000	96.637	375				
S1014	98.080	2.190	Open Manhole	1500	1.006	95.890	600	1.005	95.890	600	
								5.000	96.083	375	
S1015	97.434	2.360	Open Manhole	1500	1.007	95.074	675	1.006	95.149	600	
S1016	97.732	2.702	Open Manhole	3000	1.008	95.030	46	1.007	95.030	675	
S1017	97.642	2.692	Open Manhole	3000	1.009	94.950	675	1.008	94.950	46	
S1019	97.500	2.760	Open Manhole	1500	1.010	94.740	675	1.009	94.740	675	
S1020	97.500	2.800	Open Manhole	1500	1.011	94.700	675	1.010	94.700	675	
1018	97.500	2.883	Open Manhole	1500	1.012	94.617	675	1.011	94.617	675	
S8143	98.492	1.767	Open Manhole	1200	6.000	96.725	375				
S8130	98.083	1.823	Open Manhole	1350	6.001	96.260	450	6.000	96.335	375	
S8158	97.806	1.766	Open Manhole	1350	6.002	96.040	450	6.001	96.040	450	
S8129	97.755	1.885	Open Manhole	1500	6.003	95.870	450	6.002	95.870	450	
S4004	97.322	1.522	Open Manhole	1200	7.000	95.800	300				
S4005	97.515	1.997	Open Manhole	1500	6.004	95.519	450	6.003	95.519	450	
								7.000	95.669	300	
S8122	97.197	1.897	Open Manhole	1350	6.005	95.300	450	6.004	95.300	450	
S8126	96.797	1.497	Open Manhole	1200	8.000	95.300	300				
S8123	96.866	1.806	Open Manhole	1350	6.006	95.060	450	6.005	95.060	450	
								8.000	95.210	300	
S8125	96.574	1.739	Open Manhole	1500	6.007	94.835	525	6.006	94.910	450	
S4020	96.144	1.570	Open Manhole	1500	6.008	94.573	600	6.007	94.648	525	
S4021	96.020	1.487	Open Manhole	1950	6.009	94.533	600	6.008	94.533	600	

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Manhole Schedules for Surface Network 4

MH Name	MH CL (m)	MH Depth (m)	MH Connection	MH Diam.,L*W (mm)	Pipe Out PN	Pipe Out Invert Level (m)	Pipe Out Diameter (mm)	Pipes In PN	Pipes In Invert Level (m)	Pipes In Diameter (mm)	Backdrop (mm)
S4022	96.020	1.500	Open Manhole	1950	1.013	94.520	675	1.012	94.524	675	4
								6.009	94.520	600	
S4023	96.020	1.520	Open Manhole	3000	1.014	94.500	675	1.013	94.500	675	
S4024	95.700	1.250	Open Manhole	1500		OUTFALL		1.014	94.450	675	

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PIPELINE SCHEDULES for Surface Network 4

Upstream Manhole

PN	Hyd Sect	Diam (mm)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
1.000	o	225	S1002	101.875	99.970	1.680	Open Manhole	1200
1.001	o	300	S1003	100.931	99.290	1.341	Open Manhole	1200
1.002	o	300	S1004	100.387	98.780	1.307	Open Manhole	1200
2.000	o	300	S1005	100.235	98.759	1.176	Open Manhole	1200
1.003	o	300	S1006	99.762	98.345	1.117	Open Manhole	1500
3.000	o	450	S1007	98.496	96.520	1.526	Open Manhole	1500
3.001	o	450	S1008	98.979	96.260	2.269	Open Manhole	1350
1.004	o	600	S1009	99.036	96.008	2.428	Open Manhole	1500
4.000	o	300	S1010	99.556	98.000	1.256	Open Manhole	1500
4.001	o	300	S1011	98.953	96.970	1.683	Open Manhole	1200
1.005	o	600	S1012	98.341	95.930	1.811	Open Manhole	1500
5.000	o	375	S1013	98.038	96.637	1.026	Open Manhole	1500

Downstream Manhole

PN	Length (m)	Slope (1:X)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
1.000	31.977	52.9	S1003	100.931	99.365	1.341	Open Manhole	1200
1.001	14.537	28.5	S1004	100.387	98.780	1.307	Open Manhole	1200
1.002	19.952	45.9	S1006	99.762	98.345	1.117	Open Manhole	1500
2.000	27.936	67.5	S1006	99.762	98.345	1.117	Open Manhole	1500
1.003	37.093	18.2	S1009	99.036	96.308	2.428	Open Manhole	1500
3.000	37.536	144.4	S1008	98.979	96.260	2.269	Open Manhole	1350
3.001	30.732	301.3	S1009	99.036	96.158	2.428	Open Manhole	1500
1.004	38.768	497.0	S1012	98.341	95.930	1.811	Open Manhole	1500
4.000	26.077	25.3	S1011	98.953	96.970	1.683	Open Manhole	1200
4.001	32.208	43.5	S1012	98.341	96.230	1.811	Open Manhole	1500
1.005	20.022	500.5	S1014	98.080	95.890	1.590	Open Manhole	1500
5.000	56.434	101.9	S1014	98.080	96.083	1.622	Open Manhole	1500

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PIPELINE SCHEDULES for Surface Network 4

Upstream Manhole

PN	Hyd Sect	Diam (mm)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
1.006	o	600	S1014	98.080	95.890	1.590	Open Manhole	1500
1.007	o	675	S1015	97.434	95.074	1.685	Open Manhole	1500
1.008	ooo	46	S1016	97.732	95.030	2.327	Open Manhole	3000
1.009	o	675	S1017	97.642	94.950	2.017	Open Manhole	3000
1.010	o	675	S1019	97.500	94.740	2.085	Open Manhole	1500
1.011	o	675	S1020	97.500	94.700	2.125	Open Manhole	1500
1.012	o	675	1018	97.500	94.617	2.208	Open Manhole	1500
6.000	o	375	S8143	98.492	96.725	1.392	Open Manhole	1200
6.001	o	450	S8130	98.083	96.260	1.373	Open Manhole	1350
6.002	o	450	S8158	97.806	96.040	1.316	Open Manhole	1350
6.003	o	450	S8129	97.755	95.870	1.435	Open Manhole	1500
7.000	o	300	S4004	97.322	95.800	1.222	Open Manhole	1200
6.004	o	450	S4005	97.515	95.519	1.547	Open Manhole	1500
6.005	o	450	S8122	97.197	95.300	1.447	Open Manhole	1350
8.000	o	300	S8126	96.797	95.300	1.197	Open Manhole	1200

Downstream Manhole

PN	Length (m)	Slope (1:X)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
1.006	49.499	66.8	S1015	97.434	95.149	1.685	Open Manhole	1500
1.007	21.990	499.8	S1016	97.732	95.030	2.027	Open Manhole	3000
1.008	23.168	289.6	S1017	97.642	94.950	2.317	Open Manhole	3000
1.009	87.576	417.0	S1019	97.500	94.740	2.085	Open Manhole	1500
1.010	19.277	481.9	S1020	97.500	94.700	2.125	Open Manhole	1500
1.011	41.556	500.7	1018	97.500	94.617	2.208	Open Manhole	1500
1.012	46.638	501.5	S4022	96.020	94.524	0.821	Open Manhole	1950
6.000	37.185	95.3	S8130	98.083	96.335	1.373	Open Manhole	1350
6.001	17.625	80.1	S8158	97.806	96.040	1.316	Open Manhole	1350
6.002	42.117	247.7	S8129	97.755	95.870	1.435	Open Manhole	1500
6.003	18.109	51.5	S4005	97.515	95.519	1.547	Open Manhole	1500
7.000	31.269	238.0	S4005	97.515	95.669	1.547	Open Manhole	1500
6.004	28.670	131.2	S8122	97.197	95.300	1.447	Open Manhole	1350
6.005	32.335	134.7	S8123	96.866	95.060	1.356	Open Manhole	1350
8.000	17.004	188.9	S8123	96.866	95.210	1.356	Open Manhole	1350

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PIPELINE SCHEDULES for Surface Network 4

Upstream Manhole

PN	Hyd Sect	Diam (mm)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
6.006	o	450	S8123	96.866	95.060	1.356	Open Manhole	1350
6.007	o	525	S8125	96.574	94.835	1.214	Open Manhole	1500
6.008	o	600	S4020	96.144	94.573	0.970	Open Manhole	1500
6.009	o	600	S4021	96.020	94.533	0.887	Open Manhole	1950
1.013	o	675	S4022	96.020	94.520	0.825	Open Manhole	1950
1.014	o	675	S4023	96.020	94.500	0.845	Open Manhole	3000

Downstream Manhole

PN	Length (m)	Slope (1:X)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
6.006	31.219	208.1	S8125	96.574	94.910	1.214	Open Manhole	1500
6.007	43.376	232.1	S4020	96.144	94.648	0.970	Open Manhole	1500
6.008	13.526	337.0	S4021	96.020	94.533	0.887	Open Manhole	1950
6.009	22.609	1739.2	S4022	96.020	94.520	0.900	Open Manhole	1950
1.013	7.123	356.2	S4023	96.020	94.500	0.845	Open Manhole	3000
1.014	12.463	249.3	S4024	95.700	94.450	0.575	Open Manhole	1500

Free Flowing Outfall Details for Surface Network 4

Outfall Pipe Number	Outfall Name	C. Level (m)	I. Level (m)	Min I. Level (m)	D,L (mm)	W (mm)
1.014	S4024	95.700	94.450	0.000	1500	0

Simulation Criteria for Surface Network 4

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

Synthetic Rainfall Details

Rainfall Model FSR Return Period (years) 2

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Synthetic Rainfall Details

Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.300	Cv (Winter)	0.840
Ratio R	0.409	Storm Duration (mins)	30
Profile Type	Summer		

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Online Controls for Surface Network 4

Hydro-Brake® Optimum Manhole: S4023, DS/PN: 1.014, Volume (m³): 12.4

Unit Reference	MD-SHE-0117-7100-1500-7100
Design Head (m)	1.500
Design Flow (l/s)	7.1
Flush-Flo™	Calculated
Objective	Minimise upstream storage
Application	Surface
Sump Available	Yes
Diameter (mm)	117
Invert Level (m)	94.500
Minimum Outlet Pipe Diameter (mm)	150
Suggested Manhole Diameter (mm)	1200

Control Points	Head (m)	Flow (l/s)	Control Points	Head (m)	Flow (l/s)
Design Point (Calculated)	1.500	7.1	Kick-Flo®	0.921	5.7
Flush-Flo™	0.442	7.1	Mean Flow over Head Range	-	6.2

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	4.1	1.200	6.4	3.000	9.8	7.000	14.7
0.200	6.4	1.400	6.9	3.500	10.6	7.500	15.2
0.300	6.9	1.600	7.3	4.000	11.3	8.000	15.7
0.400	7.1	1.800	7.7	4.500	11.9	8.500	16.1
0.500	7.1	2.000	8.1	5.000	12.5	9.000	16.6
0.600	7.0	2.200	8.5	5.500	13.1	9.500	17.0
0.800	6.4	2.400	8.8	6.000	13.7		
1.000	5.9	2.600	9.2	6.500	14.2		

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Storage Structures for Surface Network 4

Tank or Pond Manhole: S4023, DS/PN: 1.014

Invert Level (m) 94.500

Depth (m)	Area (m²)	Depth (m)	Area (m²)	Depth (m)	Area (m²)	Depth (m)	Area (m²)
0.000	1122.6	0.501	1474.0	1.001	1851.6	1.501	2255.3
0.101	1190.8	0.601	1547.4	1.101	1930.2	1.601	2339.2
0.201	1260.0	0.701	1621.9	1.201	2009.9	1.700	2423.3
0.301	1330.3	0.801	1697.4	1.301	2090.7	1.701	2424.1
0.401	1401.6	0.901	1774.0	1.401	2172.5		

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Summary of Critical Results by Maximum Level (Rank 1) for Surface Network 4

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.409
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.300	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 40

PN	US/MH Name	Storm	Return Period	Climate Change	First (X) Surcharge	First (Y) Flood	First (Z) Overflow	Overflow Act.
1.000	S1002	1440 Winter	1	+0%				
1.001	S1003	15 Winter	100	+40%				
1.002	S1004	15 Winter	100	+40%				
2.000	S1005	15 Winter	100	+40%				
1.003	S1006	15 Winter	100	+40%	100/15 Summer			
3.000	S1007	15 Winter	100	+40%	100/15 Summer			
3.001	S1008	15 Winter	100	+40%	100/15 Summer			
1.004	S1009	15 Winter	100	+40%	100/15 Summer			
4.000	S1010	15 Winter	100	+40%				
4.001	S1011	15 Winter	100	+40%	100/15 Summer			
1.005	S1012	15 Winter	100	+40%	100/15 Summer			
5.000	S1013	15 Winter	100	+40%	100/15 Summer			
1.006	S1014	15 Winter	100	+40%	100/15 Summer			
1.007	S1015	15 Winter	100	+40%	30/15 Winter	100/15 Winter		
1.008	S1016	15 Winter	100	+40%	30/15 Summer			
1.009	S1017	15 Winter	100	+40%	30/15 Winter			
1.010	S1019	15 Winter	100	+40%	30/15 Summer			
1.011	S1020	15 Winter	100	+40%	30/15 Summer			
1.012	1018	15 Winter	100	+40%	30/15 Summer			

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Summary of Critical Results by Maximum Level (Rank 1) for Surface Network 4

PN	US/MH Name	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status	Level Exceeded
1.000	S1002	99.970	-0.225	0.000	0.00		0.0	OK	
1.001	S1003	99.402	-0.188	0.000	0.30		52.3	OK	
1.002	S1004	98.936	-0.144	0.000	0.53		76.4	OK	
2.000	S1005	99.035	-0.024	0.000	0.76		92.6	OK	
1.003	S1006	98.873	0.228	0.000	0.88		212.8	SURCHARGED	
3.000	S1007	98.148	1.178	0.000	0.40		95.5	SURCHARGED	
3.001	S1008	98.107	1.397	0.000	0.49		79.0	SURCHARGED	
1.004	S1009	98.070	1.462	0.000	1.42		369.3	SURCHARGED	
4.000	S1010	98.151	-0.149	0.000	0.41		81.6	OK	
4.001	S1011	98.063	0.793	0.000	0.48		74.7	SURCHARGED	
1.005	S1012	97.961	1.431	0.000	2.21		455.0	SURCHARGED	
5.000	S1013	97.843	0.831	0.000	0.31		57.3	FLOOD RISK	
1.006	S1014	97.797	1.307	0.000	0.76		559.1	FLOOD RISK	
1.007	S1015	97.437	1.688	2.626	2.07		603.5	FLOOD	1
1.008	S1016	97.286	1.881	0.000	2.28		685.5	SURCHARGED	
1.009	S1017	96.988	1.363	0.000	1.55		646.8	SURCHARGED	
1.010	S1019	96.550	1.135	0.000	2.32		636.8	SURCHARGED	
1.011	S1020	96.312	0.937	0.000	1.79		625.6	SURCHARGED	
1.012	1018	96.044	0.752	0.000	1.74		617.9	SURCHARGED	

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Summary of Critical Results by Maximum Level (Rank 1) for Surface Network 4

PN	US/MH Name	Storm	Return Period	Climate Change	First (X) Surcharge	First (Y) Flood	First (Z) Overflow	Overflow Act.
6.000	S8143	15 Winter	100	+40%	100/15 Summer			
6.001	S8130	15 Winter	100	+40%	100/15 Summer			
6.002	S8158	15 Winter	100	+40%	100/15 Summer			
6.003	S8129	15 Winter	100	+40%	100/15 Summer			
7.000	S4004	15 Winter	100	+40%	100/15 Summer	100/15 Summer		
6.004	S4005	15 Winter	100	+40%	30/15 Winter			
6.005	S8122	15 Winter	100	+40%	30/15 Summer			
8.000	S8126	15 Winter	100	+40%	30/15 Summer	100/15 Winter		
6.006	S8123	15 Winter	100	+40%	30/15 Summer			
6.007	S8125	15 Winter	100	+40%	30/15 Summer			
6.008	S4020	15 Winter	100	+40%	30/15 Summer			
6.009	S4021	15 Winter	100	+40%	30/15 Summer			
1.013	S4022	1440 Winter	100	+40%	30/15 Summer			
1.014	S4023	1440 Winter	100	+40%	30/360 Winter			

PN	US/MH Name	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status	Level Exceeded
6.000	S8143	97.766	0.666	0.000	0.45		82.4	SURCHARGED	
6.001	S8130	97.685	0.975	0.000	0.56		147.5	SURCHARGED	
6.002	S8158	97.625	1.135	0.000	0.82		150.3	FLOOD RISK	
6.003	S8129	97.497	1.177	0.000	0.56		185.9	FLOOD RISK	
7.000	S4004	97.331	1.231	8.848	1.49		97.7	FLOOD	4
6.004	S4005	97.382	1.413	0.000	1.12		269.5	FLOOD RISK	
6.005	S8122	97.132	1.382	0.000	1.14		275.2	FLOOD RISK	
8.000	S8126	96.798	1.198	1.598	0.54		37.1	FLOOD	1
6.006	S8123	96.806	1.296	0.000	1.88		363.1	FLOOD RISK	
6.007	S8125	96.340	0.980	0.000	1.40		390.3	FLOOD RISK	
6.008	S4020	96.037	0.864	0.000	1.87		452.7	FLOOD RISK	
6.009	S4021	95.893	0.760	0.000	4.07		456.8	FLOOD RISK	
1.013	S4022	95.800	0.605	0.000	0.30		72.2	FLOOD RISK	
1.014	S4023	95.800	0.625	0.000	0.02		7.1	FLOOD RISK	

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STORM SEWER DESIGN by the Modified Rational Method

Design Criteria for Surface Network 5

Pipe Sizes STANDARD Manhole Sizes STANDARD

FSR Rainfall Model - England and Wales

Return Period (years)	2	PIMP (%)	100
M5-60 (mm)	19.800	Add Flow / Climate Change (%)	0
Ratio R	0.410	Minimum Backdrop Height (m)	0.200
Maximum Rainfall (mm/hr)	50	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 Network 5

« - Indicates pipe capacity < flow

PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)	Section Type	Auto Design
1.000	55.915	0.565	99.0	0.111	5.00	0.0	0.600	o	375	Pipe/Conduit	
2.000	54.117	1.510	35.8	0.185	5.00	0.0	0.600	o	300	Pipe/Conduit	
1.001	12.257	0.105	116.7	0.076	0.00	0.0	0.600	o	450	Pipe/Conduit	
1.002	34.666	0.190	182.5	0.091	0.00	0.0	0.600	o	525	Pipe/Conduit	
1.003	52.051	0.410	127.0	0.037	0.00	0.0	0.600	o	525	Pipe/Conduit	
1.004	14.699	0.219	67.1	0.140	0.00	0.0	0.600	o	525	Pipe/Conduit	
1.005	13.648	0.037	368.9	0.110	0.00	0.0	0.600	o	525	Pipe/Conduit	
1.006	49.722	0.504	98.7	0.064	0.00	0.0	0.600	o	525	Pipe/Conduit	
1.007	43.120	0.240	179.7	0.107	0.00	0.0	0.600	o	525	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	50.00	5.51	96.740	0.111	0.0	0.0	0.0	1.82	201.2	15.1
2.000	50.00	5.34	97.760	0.185	0.0	0.0	0.0	2.63	186.3	25.0
1.001	50.00	5.62	96.100	0.372	0.0	0.0	0.0	1.88	299.1	50.4
1.002	50.00	5.97	95.920	0.464	0.0	0.0	0.0	1.66	358.3	62.8
1.003	50.00	6.41	95.730	0.501	0.0	0.0	0.0	1.99	430.1	67.8
1.004	50.00	6.50	95.320	0.641	0.0	0.0	0.0	2.74	592.5	86.8
1.005	50.00	6.69	95.101	0.751	0.0	0.0	0.0	1.16	251.2	101.7
1.006	50.00	7.06	95.064	0.816	0.0	0.0	0.0	2.26	488.2	110.4
1.007	50.00	7.49	94.560	0.922	0.0	0.0	0.0	1.67	361.1	124.9

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Network Design Table for Surface Network 5

PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)	Section Type	Auto Design
3.000	36.698	0.760	48.3	0.042	5.00	0.0	0.600	o	375	Pipe/Conduit	
3.001	34.870	0.280	124.5	0.138	0.00	0.0	0.600	o	450	Pipe/Conduit	
3.002	37.104	0.110	337.3	0.095	0.00	0.0	0.600	o	450	Pipe/Conduit	
3.003	14.380	0.460	31.3	0.140	0.00	0.0	0.600	o	525	Pipe/Conduit	
1.008	27.959	0.140	199.7	0.104	0.00	0.0	0.600	o	525	Pipe/Conduit	
1.009	21.589	0.230	93.9	0.036	0.00	0.0	0.600	o	525	Pipe/Conduit	
1.010	25.448	0.070	363.5	0.163	0.00	0.0	0.600	o	525	Pipe/Conduit	
4.000	23.367	0.999	23.4	0.067	5.00	0.0	0.600	o	300	Pipe/Conduit	
1.011	16.716	0.040	417.9	0.026	0.00	0.0	0.600	o	525	Pipe/Conduit	
1.012	19.123	0.035	546.4	0.051	0.00	0.0	0.600	o	525	Pipe/Conduit	
1.013	18.537	0.360	51.5	0.086	0.00	0.0	0.600	o	600	Pipe/Conduit	
5.000	45.943	0.360	127.6	0.206	5.00	0.0	0.600	o	450	Pipe/Conduit	
5.001	17.179	0.155	110.8	0.113	0.00	0.0	0.600	o	450	Pipe/Conduit	
6.000	42.376	0.457	92.8	0.072	5.00	0.0	0.600	o	300	Pipe/Conduit	
6.001	19.218	0.119	161.9	0.144	0.00	0.0	0.600	o	375	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)
3.000	50.00	5.23	96.005	0.042	0.0	0.0	0.0	2.61	288.6	5.7
3.001	50.00	5.55	95.170	0.180	0.0	0.0	0.0	1.82	289.5	24.3
3.002	50.00	6.11	94.890	0.275	0.0	0.0	0.0	1.10	175.2	37.3
3.003	50.00	6.17	94.780	0.415	0.0	0.0	0.0	4.02	869.5	56.2
1.008	50.00	7.78	94.320	1.441	0.0	0.0	0.0	1.58	342.3	195.2
1.009	50.00	7.94	94.180	1.477	0.0	0.0	0.0	2.31	500.6	200.0
1.010	50.00	8.30	93.950	1.640	0.0	0.0	0.0	1.17	253.0	222.1
4.000	50.00	5.12	95.104	0.067	0.0	0.0	0.0	3.26	230.8	9.1
1.011	50.00	8.56	93.880	1.733	0.0	0.0	0.0	1.09	235.8	234.7
1.012	50.00	8.89	93.840	1.784	0.0	0.0	0.0	0.95	205.9«	241.6
1.013	50.00	8.98	93.730	1.871	0.0	0.0	0.0	3.40	960.8	253.3
5.000	50.00	5.43	94.070	0.206	0.0	0.0	0.0	1.80	286.0	27.9
5.001	50.00	5.57	93.710	0.320	0.0	0.0	0.0	1.93	307.0	43.3
6.000	50.00	5.43	94.292	0.072	0.0	0.0	0.0	1.63	115.4	9.8
6.001	50.00	5.66	93.760	0.216	0.0	0.0	0.0	1.42	157.0	29.2

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Network Design Table for Surface Network 5

PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)	Section Type	Auto Design
5.002	20.959	0.046	455.0	0.050	0.00	0.0	0.600	o	525	Pipe/Conduit	
1.014	28.717	0.043	667.0	0.078	0.00	0.0	0.600	o	675	Pipe/Conduit	
1.015	17.061	0.026	667.0	0.024	0.00	0.0	0.600	o	675	Pipe/Conduit	
1.016	17.691	0.027	667.0	0.094	0.00	0.0	0.600	o	675	Pipe/Conduit	
1.017	100.192	0.000	10019229173944400.0	0.141	0.00	0.0	0.600	o	1125	Pipe/Conduit	
7.000	29.105	0.076	385.0	0.230	5.00	0.0	0.600	o	450	Pipe/Conduit	
7.001	26.555	0.069	385.0	0.079	0.00	0.0	0.600	o	450	Pipe/Conduit	
7.002	23.062	0.060	385.0	0.078	0.00	0.0	0.600	o	450	Pipe/Conduit	
7.003	28.734	0.075	385.0	0.026	0.00	0.0	0.600	o	450	Pipe/Conduit	
8.000	20.598	0.487	42.3	0.186	5.00	0.0	0.600	o	300	Pipe/Conduit	
7.004	26.598	0.069	385.0	0.000	0.00	0.0	0.600	o	450	Pipe/Conduit	
7.005	15.843	0.041	385.0	0.142	0.00	0.0	0.600	o	450	Pipe/Conduit	
9.000	25.933	0.175	148.2	0.058	5.00	0.0	0.600	o	300	Pipe/Conduit	
9.001	18.737	0.146	128.3	0.066	0.00	0.0	0.600	o	375	Pipe/Conduit	
7.006	16.607	0.349	47.6	0.052	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)
5.002	50.00	5.99	93.491	0.585	0.0	0.0	0.0	1.04	225.9	79.2
1.014	50.00	9.46	93.295	2.534	0.0	0.0	0.0	1.01	360.4	343.1
1.015	50.00	9.74	93.252	2.558	0.0	0.0	0.0	1.01	360.4	346.4
1.016	50.00	10.03	93.227	2.652	0.0	0.0	0.0	1.01	360.4	359.1
1.017	0.00	10.03	93.200	2.793	0.0	0.0	0.0	0.00	0.0«	0.0
7.000	50.00	5.47	96.168	0.230	0.0	0.0	0.0	1.03	163.8	31.1
7.001	50.00	5.90	96.093	0.309	0.0	0.0	0.0	1.03	163.8	41.8
7.002	50.00	6.27	96.024	0.387	0.0	0.0	0.0	1.03	163.8	52.3
7.003	50.00	6.74	95.964	0.413	0.0	0.0	0.0	1.03	163.8	55.9
8.000	50.00	5.14	96.527	0.186	0.0	0.0	0.0	2.43	171.5	25.2
7.004	50.00	7.17	95.889	0.599	0.0	0.0	0.0	1.03	163.8	81.1
7.005	50.00	7.43	95.820	0.741	0.0	0.0	0.0	1.03	163.8	100.3
9.000	50.00	5.34	96.250	0.058	0.0	0.0	0.0	1.29	91.1	7.8
9.001	50.00	5.53	96.000	0.124	0.0	0.0	0.0	1.60	176.5	16.7
7.006	50.00	7.52	95.779	0.916	0.0	0.0	0.0	2.95	469.7	124.0

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Network Design Table for Surface Network 5

PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)	Section Type	Auto Design
10.000	13.663	0.145	94.0	0.056	5.00	0.0	0.600	o	375	Pipe/Conduit	
7.007	20.097	0.415	48.4	0.041	0.00	0.0	0.600	o	450	Pipe/Conduit	
7.008	44.236	0.200	221.2	0.027	0.00	0.0	0.600	o	525	Pipe/Conduit	
7.009	21.562	0.187	115.3	0.256	0.00	0.0	0.600	o	525	Pipe/Conduit	
11.000	24.409	0.146	167.0	0.047	5.00	0.0	0.600	o	225	Pipe/Conduit	
11.001	18.487	0.078	237.9	0.041	0.00	0.0	0.600	o	300	Pipe/Conduit	
11.002	18.482	0.078	237.9	0.005	0.00	0.0	0.600	o	300	Pipe/Conduit	
12.000	50.891	0.305	167.0	0.127	5.00	0.0	0.600	o	225	Pipe/Conduit	
7.010	11.324	0.223	50.8	0.041	0.00	0.0	0.600	o	525	Pipe/Conduit	
7.011	44.443	0.835	53.2	0.054	0.00	0.0	0.600	o	525	Pipe/Conduit	
7.012	17.516	0.295	59.4	0.040	0.00	0.0	0.600	o	525	Pipe/Conduit	
7.013	52.662	0.075	702.2	0.000	0.00	0.0	0.600	o	675	Pipe/Conduit	
1.018	9.903	0.050	198.1	0.000	0.00	0.0	0.600	o	750	Pipe/Conduit	
1.019	14.831	0.150	98.9	0.000	0.00	0.0	0.600	o	750	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)
10.000	50.00	5.12	95.650	0.056	0.0	0.0	0.0	1.87	206.4	7.5
7.007	50.00	7.63	95.430	1.012	0.0	0.0	0.0	2.93	465.6	137.1
7.008	50.00	8.12	94.940	1.039	0.0	0.0	0.0	1.50	325.2	140.7
7.009	50.00	8.30	94.740	1.295	0.0	0.0	0.0	2.09	451.4	175.4
11.000	50.00	5.40	95.155	0.047	0.0	0.0	0.0	1.01	40.1	6.3
11.001	50.00	5.71	94.933	0.088	0.0	0.0	0.0	1.01	71.7	12.0
11.002	50.00	6.01	94.856	0.093	0.0	0.0	0.0	1.02	71.8	12.6
12.000	50.00	5.84	95.158	0.127	0.0	0.0	0.0	1.01	40.1	17.2
7.010	50.00	8.36	94.553	1.557	0.0	0.0	0.0	3.15	681.6	210.8
7.011	50.00	8.60	94.330	1.610	0.0	0.0	0.0	3.08	665.7	218.0
7.012	50.00	8.70	93.495	1.650	0.0	0.0	0.0	2.91	630.1	223.4
7.013	50.00	9.59	93.275	1.650	0.0	0.0	0.0	0.98	351.2	223.4
1.018	49.95	10.12	93.200	4.443	0.0	0.0	0.0	1.98	876.9	601.0
1.019	49.72	10.21	93.150	4.443	0.0	0.0	0.0	2.81	1243.5	601.0

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Manhole Schedules for Surface Network 5

MH Name	MH CL (m)	MH Depth (m)	MH Connection	MH Diam.,L*W (mm)	Pipe Out PN	Pipe Out Invert Level (m)	Pipe Out Diameter (mm)	Pipes In PN	Pipes In Invert Level (m)	Pipes In Diamet (mm)
S8142	98.815	2.075	Open Manhole	1800	1.000	96.740	375			
S8133	99.311	1.551	Open Manhole	1350	2.000	97.760	300			
S8134	98.119	2.019	Open Manhole	1350	1.001	96.100	450	1.000	96.175	3
								2.000	96.250	3
S8141	98.046	2.126	Open Manhole	1500	1.002	95.920	525	1.001	95.995	4
S8139	98.374	2.644	Open Manhole	1500	1.003	95.730	525	1.002	95.730	5
S8140	97.688	2.368	Open Manhole	1800	1.004	95.320	525	1.003	95.320	5
S4008	97.634	2.533	Open Manhole	1800	1.005	95.101	525	1.004	95.101	5
S4011	97.754	2.690	Open Manhole	1800	1.006	95.064	525	1.005	95.064	5
S4012	97.313	2.753	Open Manhole	1800	1.007	94.560	525	1.006	94.560	5
S8157	97.886	1.881	Open Manhole	1350	3.000	96.005	375			
S8159	97.487	2.317	Open Manhole	1350	3.001	95.170	450	3.000	95.245	3
S8154	97.228	2.338	Open Manhole	1350	3.002	94.890	450	3.001	94.890	4
S8155	97.204	2.424	Open Manhole	1500	3.003	94.780	525	3.002	94.780	4
S5015	97.521	3.201	Open Manhole	1500	1.008	94.320	525	1.007	94.320	5
								3.003	94.320	5
S5016	97.189	3.009	Open Manhole	1500	1.009	94.180	525	1.008	94.180	5
S5017 - PH4 Connection	97.280	3.330	Open Manhole	1500	1.010	93.950	525	1.009	93.950	5
S5018	96.512	1.408	Open Manhole	1350	4.000	95.104	300			
S5019	96.955	3.075	Open Manhole	1500	1.011	93.880	525	1.010	93.880	5
								4.000	94.105	3
S5020 PH5 Connection	96.136	2.296	Open Manhole	1500	1.012	93.840	525	1.011	93.840	5
S5021	95.600	1.870	Open Manhole	1500	1.013	93.730	600	1.012	93.805	5
S5023	95.946	1.876	Open Manhole	1350	5.000	94.070	450			
S5025	95.436	1.726	Open Manhole	1350	5.001	93.710	450	5.000	93.710	4
S5026	95.874	1.582	Open Manhole	1350	6.000	94.292	300			
S5027	95.528	1.768	Open Manhole	1350	6.001	93.760	375	6.000	93.835	3
S5028	95.410	1.919	Open Manhole	1500	5.002	93.491	525	5.001	93.555	4
								6.001	93.641	3
S5029	95.519	2.224	Open Manhole	1800	1.014	93.295	675	1.013	93.370	6
								5.002	93.445	5
S5030	95.485	2.233	Open Manhole	1800	1.015	93.252	675	1.014	93.252	6
S8121	95.115	1.888	Open Manhole	1800	1.016	93.227	675	1.015	93.227	6
S5036 - Headwall	94.650	1.450	Open Manhole	2025	1.017	93.200	1125	1.016	93.200	6
S8135	98.236	2.068	Open Manhole	1800	7.000	96.168	450			
S8136	98.654	2.561	Open Manhole	1350	7.001	96.093	450	7.000	96.093	4
S8137	98.548	2.524	Open Manhole	1350	7.002	96.024	450	7.001	96.024	4

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Manhole Schedules for Surface Network 5

MH Name	MH CL (m)	MH Depth (m)	MH Connection	MH Diam.,L*W (mm)	Pipe Out PN	Pipe Out Invert Level (m)	Pipe Out Diameter (mm)	Pipes In PN	Pipes In Invert Level (m)	Pipes In Diam (m
S8161	98.234	2.270	Open Manhole	1350	7.003	95.964	450	7.002	95.964	
S8151	98.010	1.484	Open Manhole	1350	8.000	96.527	300			
S8162	97.928	2.039	Open Manhole	1500	7.004	95.889	450	7.003	95.889	
								8.000	96.039	
S8152	97.712	1.892	Open Manhole	1350	7.005	95.820	450	7.004	95.820	
S8144	97.890	1.640	Open Manhole	1350	9.000	96.250	300			
S8145	97.579	1.579	Open Manhole	1800	9.001	96.000	375	9.000	96.075	
S8146	97.513	1.734	Open Manhole	1350	7.006	95.779	450	7.005	95.779	
								9.001	95.854	
S8164	97.225	1.575	Open Manhole	1350	10.000	95.650	375			
S8147	97.322	1.892	Open Manhole	1350	7.007	95.430	450	7.006	95.430	
								10.000	95.505	
S8150	97.042	2.102	Open Manhole	1500	7.008	94.940	525	7.007	95.015	
S8149	96.506	1.766	Open Manhole	1500	7.009	94.740	525	7.008	94.740	
S5037	96.395	1.240	Open Manhole	1350	11.000	95.155	225			
S5038	96.592	1.659	Open Manhole	1350	11.001	94.933	300	11.000	95.008	
S5039	96.418	1.562	Open Manhole	1350	11.002	94.856	300	11.001	94.856	
S5040	96.511	1.353	Open Manhole	1350	12.000	95.158	225			
S5041	96.315	1.762	Open Manhole	1500	7.010	94.553	525	7.009	94.553	
								11.002	94.778	
								12.000	94.853	
S5042	96.064	1.734	Open Manhole	1500	7.011	94.330	525	7.010	94.330	
S5047	95.436	1.941	Open Manhole	1500	7.012	93.495	525	7.011	93.495	
S5048 - Headwall	94.700	1.500	Open Manhole	900 x 1125	7.013	93.275	675	7.012	93.200	
S5049 - Headwall	94.700	1.500	Open Manhole	2025	1.018	93.200	750	1.017	93.200	
								7.013	93.200	
S5050 Control Chamber	94.700	1.550	Open Manhole	3000	1.019	93.150	750	1.018	93.150	
S5051 Outfall	93.800	0.800	Open Manhole	1800		OUTFALL		1.019	93.000	

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PIPELINE SCHEDULES for Surface Network 5

Upstream Manhole

PN	Hyd Sect	Diam (mm)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
1.000	o	375	S8142	98.815	96.740	1.700	Open Manhole	1800
2.000	o	300	S8133	99.311	97.760	1.251	Open Manhole	1350
1.001	o	450	S8134	98.119	96.100	1.569	Open Manhole	1350
1.002	o	525	S8141	98.046	95.920	1.601	Open Manhole	1500
1.003	o	525	S8139	98.374	95.730	2.119	Open Manhole	1500
1.004	o	525	S8140	97.688	95.320	1.843	Open Manhole	1800
1.005	o	525	S4008	97.634	95.101	2.008	Open Manhole	1800
1.006	o	525	S4011	97.754	95.064	2.165	Open Manhole	1800
1.007	o	525	S4012	97.313	94.560	2.228	Open Manhole	1800
3.000	o	375	S8157	97.886	96.005	1.506	Open Manhole	1350
3.001	o	450	S8159	97.487	95.170	1.867	Open Manhole	1350
3.002	o	450	S8154	97.228	94.890	1.888	Open Manhole	1350
3.003	o	525	S8155	97.204	94.780	1.899	Open Manhole	1500
1.008	o	525	S5015	97.521	94.320	2.676	Open Manhole	1500
1.009	o	525	S5016	97.189	94.180	2.484	Open Manhole	1500
1.010	o	525	S5017 - PH4 Connection	97.280	93.950	2.805	Open Manhole	1500

Downstream Manhole

PN	Length (m)	Slope (1:X)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
1.000	55.915	99.0	S8134	98.119	96.175	1.569	Open Manhole	1350
2.000	54.117	35.8	S8134	98.119	96.250	1.569	Open Manhole	1350
1.001	12.257	116.7	S8141	98.046	95.995	1.601	Open Manhole	1500
1.002	34.666	182.5	S8139	98.374	95.730	2.119	Open Manhole	1500
1.003	52.051	127.0	S8140	97.688	95.320	1.843	Open Manhole	1800
1.004	14.699	67.1	S4008	97.634	95.101	2.008	Open Manhole	1800
1.005	13.648	368.9	S4011	97.754	95.064	2.165	Open Manhole	1800
1.006	49.722	98.7	S4012	97.313	94.560	2.228	Open Manhole	1800
1.007	43.120	179.7	S5015	97.521	94.320	2.676	Open Manhole	1500
3.000	36.698	48.3	S8159	97.487	95.245	1.867	Open Manhole	1350
3.001	34.870	124.5	S8154	97.228	94.890	1.888	Open Manhole	1350
3.002	37.104	337.3	S8155	97.204	94.780	1.974	Open Manhole	1500
3.003	14.380	31.3	S5015	97.521	94.320	2.676	Open Manhole	1500
1.008	27.959	199.7	S5016	97.189	94.180	2.484	Open Manhole	1500
1.009	21.589	93.9	S5017 - PH4 Connection	97.280	93.950	2.805	Open Manhole	1500
1.010	25.448	363.5	S5019	96.955	93.880	2.550	Open Manhole	1500

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PIPELINE SCHEDULES for Surface Network 5

Upstream Manhole

PN	Hyd Sect	Diam (mm)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
4.000	o	300	S5018	96.512	95.104	1.108	Open Manhole	1350
1.011	o	525	S5019	96.955	93.880	2.550	Open Manhole	1500
1.012	o	525	S5020 PH5 Connection	96.136	93.840	1.771	Open Manhole	1500
1.013	o	600	S5021	95.600	93.730	1.270	Open Manhole	1500
5.000	o	450	S5023	95.946	94.070	1.426	Open Manhole	1350
5.001	o	450	S5025	95.436	93.710	1.276	Open Manhole	1350
6.000	o	300	S5026	95.874	94.292	1.282	Open Manhole	1350
6.001	o	375	S5027	95.528	93.760	1.393	Open Manhole	1350
5.002	o	525	S5028	95.410	93.491	1.394	Open Manhole	1500
1.014	o	675	S5029	95.519	93.295	1.549	Open Manhole	1800
1.015	o	675	S5030	95.485	93.252	1.558	Open Manhole	1800
1.016	o	675	S8121	95.115	93.227	1.213	Open Manhole	1800
1.017	o	1125	S5036 - Headwall	94.650	93.200	0.325	Open Manhole	2025

Downstream Manhole

PN	Length (m)	Slope (1:X)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
4.000	23.367	23.4	S5019	96.955	94.105	2.550	Open Manhole	1500
1.011	16.716	417.9	S5020 PH5 Connection	96.136	93.840	1.771	Open Manhole	1500
1.012	19.123	546.4	S5021	95.600	93.805	1.270	Open Manhole	1500
1.013	18.537	51.5	S5029	95.519	93.370	1.549	Open Manhole	1800
5.000	45.943	127.6	S5025	95.436	93.710	1.276	Open Manhole	1350
5.001	17.179	110.8	S5028	95.410	93.555	1.405	Open Manhole	1500
6.000	42.376	92.8	S5027	95.528	93.835	1.393	Open Manhole	1350
6.001	19.218	161.9	S5028	95.410	93.641	1.394	Open Manhole	1500
5.002	20.959	455.0	S5029	95.519	93.445	1.549	Open Manhole	1800
1.014	28.717	667.0	S5030	95.485	93.252	1.558	Open Manhole	1800
1.015	17.061	667.0	S8121	95.115	93.227	1.213	Open Manhole	1800
1.016	17.691	667.0	S5036 - Headwall	94.650	93.200	0.775	Open Manhole	2025
1.017	100.192	10019229173944400.0	S5049 - Headwall	94.700	93.200	0.375	Open Manhole	2025

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PIPELINE SCHEDULES for Surface Network 5

Upstream Manhole

PN	Hyd Sect	Diam (mm)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
7.000	o	450	S8135	98.236	96.168	1.618	Open Manhole	1800
7.001	o	450	S8136	98.654	96.093	2.111	Open Manhole	1350
7.002	o	450	S8137	98.548	96.024	2.074	Open Manhole	1350
7.003	o	450	S8161	98.234	95.964	1.820	Open Manhole	1350
8.000	o	300	S8151	98.010	96.527	1.184	Open Manhole	1350
7.004	o	450	S8162	97.928	95.889	1.589	Open Manhole	1500
7.005	o	450	S8152	97.712	95.820	1.442	Open Manhole	1350
9.000	o	300	S8144	97.890	96.250	1.340	Open Manhole	1350
9.001	o	375	S8145	97.579	96.000	1.204	Open Manhole	1800
7.006	o	450	S8146	97.513	95.779	1.284	Open Manhole	1350
10.000	o	375	S8164	97.225	95.650	1.200	Open Manhole	1350
7.007	o	450	S8147	97.322	95.430	1.442	Open Manhole	1350
7.008	o	525	S8150	97.042	94.940	1.577	Open Manhole	1500
7.009	o	525	S8149	96.506	94.740	1.241	Open Manhole	1500

Downstream Manhole

PN	Length (m)	Slope (1:X)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
7.000	29.105	385.0	S8136	98.654	96.093	2.111	Open Manhole	1350
7.001	26.555	385.0	S8137	98.548	96.024	2.074	Open Manhole	1350
7.002	23.062	385.0	S8161	98.234	95.964	1.820	Open Manhole	1350
7.003	28.734	385.0	S8162	97.928	95.889	1.589	Open Manhole	1500
8.000	20.598	42.3	S8162	97.928	96.039	1.589	Open Manhole	1500
7.004	26.598	385.0	S8152	97.712	95.820	1.441	Open Manhole	1350
7.005	15.843	385.0	S8146	97.513	95.779	1.284	Open Manhole	1350
9.000	25.933	148.2	S8145	97.579	96.075	1.204	Open Manhole	1800
9.001	18.737	128.3	S8146	97.513	95.854	1.284	Open Manhole	1350
7.006	16.607	47.6	S8147	97.322	95.430	1.442	Open Manhole	1350
10.000	13.663	94.0	S8147	97.322	95.505	1.442	Open Manhole	1350
7.007	20.097	48.4	S8150	97.042	95.015	1.577	Open Manhole	1500
7.008	44.236	221.2	S8149	96.506	94.740	1.241	Open Manhole	1500
7.009	21.562	115.3	S5041	96.315	94.553	1.237	Open Manhole	1500

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PIPELINE SCHEDULES for Surface Network 5

Upstream Manhole

PN	Hyd Sect	Diam (mm)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
11.000	o	225	S5037	96.395	95.155	1.015	Open Manhole	1350
11.001	o	300	S5038	96.592	94.933	1.359	Open Manhole	1350
11.002	o	300	S5039	96.418	94.856	1.262	Open Manhole	1350
12.000	o	225	S5040	96.511	95.158	1.128	Open Manhole	1350
7.010	o	525	S5041	96.315	94.553	1.237	Open Manhole	1500
7.011	o	525	S5042	96.064	94.330	1.209	Open Manhole	1500
7.012	o	525	S5047	95.436	93.495	1.416	Open Manhole	1500
7.013	o	675	S5048 - Headwall	94.700	93.275	0.750	Open Manhole	900 x 1125
1.018	o	750	S5049 - Headwall	94.700	93.200	0.750	Open Manhole	2025
1.019	o	750	S5050 Control Chamber	94.700	93.150	0.800	Open Manhole	3000

Downstream Manhole

PN	Length (m)	Slope (1:X)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
11.000	24.409	167.0	S5038	96.592	95.008	1.359	Open Manhole	1350
11.001	18.487	237.9	S5039	96.418	94.856	1.262	Open Manhole	1350
11.002	18.482	237.9	S5041	96.315	94.778	1.237	Open Manhole	1500
12.000	50.891	167.0	S5041	96.315	94.853	1.237	Open Manhole	1500
7.010	11.324	50.8	S5042	96.064	94.330	1.209	Open Manhole	1500
7.011	44.443	53.2	S5047	95.436	93.495	1.416	Open Manhole	1500
7.012	17.516	59.4	S5048 - Headwall	94.700	93.200	0.975	Open Manhole	900 x 1125
7.013	52.662	702.2	S5049 - Headwall	94.700	93.200	0.825	Open Manhole	2025
1.018	9.903	198.1	S5050 Control Chamber	94.700	93.150	0.800	Open Manhole	3000
1.019	14.831	98.9	S5051 Outfall	93.800	93.000	0.050	Open Manhole	1800

Free Flowing Outfall Details for Surface Network 5

Outfall Pipe Number	Outfall Name	C. Level (m)	I. Level (m)	Min I. Level (m)	D,L (mm)	W (mm)
1.019	S5051 Outfall	93.800	93.000	0.000	1800	0

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Simulation Criteria for Surface Network 5

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

Synthetic Rainfall Details

Rainfall Model	FSR	Profile Type	Summer
Return Period (years)	2	Cv (Summer)	0.750
Region	England and Wales	Cv (Winter)	0.840
M5-60 (mm)	19.800	Storm Duration (mins)	30
Ratio R	0.410		

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Online Controls for Surface Network 5

Hydro-Brake® Optimum Manhole: S5050 Control Chamber, DS/PN: 1.019, Volume (m³): 14.2

Unit Reference	MD-SHE-0146-1240-2000-1240
Design Head (m)	2.000
Design Flow (l/s)	12.4
Flush-Flo™	Calculated
Objective	Minimise upstream storage
Application	Surface
Sump Available	Yes
Diameter (mm)	146
Invert Level (m)	93.150
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)	2.000	12.4	Kick-Flo®	1.209	9.8
Flush-Flo™	0.587	12.3	Mean Flow over Head Range	-	10.8

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	5.3	1.200	9.9	3.000	15.0	7.000	22.5
0.200	10.3	1.400	10.5	3.500	16.2	7.500	23.3
0.300	11.4	1.600	11.1	4.000	17.2	8.000	24.0
0.400	12.0	1.800	11.8	4.500	18.2	8.500	24.7
0.500	12.3	2.000	12.4	5.000	19.2	9.000	25.4
0.600	12.3	2.200	13.0	5.500	20.1	9.500	26.1
0.800	12.1	2.400	13.5	6.000	20.9		
1.000	11.4	2.600	14.0	6.500	21.7		

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Storage Structures for Surface Network 5

Tank or Pond Manhole: S5050 Control Chamber, DS/PN: 1.019

Invert Level (m) 93.150

Depth (m)	Area (m²)	Depth (m)	Area (m²)	Depth (m)	Area (m²)	Depth (m)	Area (m²)
0.000	2747.5	0.600	3369.3	1.200	4019.3	1.800	4697.5
0.100	2849.2	0.700	3475.7	1.300	4130.4	1.900	4813.3
0.200	2951.6	0.800	3582.8	1.400	4242.3	2.000	4929.9
0.300	3054.9	0.900	3690.8	1.500	4354.9	2.100	5047.2
0.400	3158.9	1.000	3799.5	1.600	4468.3	2.200	5165.4
0.500	3263.7	1.100	3909.0	1.700	4582.5	2.300	5284.2

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Summary Wizard of 15 minute 1 year Summer I+0% for Surface Network 5

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.410
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.800	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 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	S8142	20	96.810	-0.305	0.000	0.08		14.5	OK
2.000	S8133	20	97.834	-0.226	0.000	0.14		24.3	OK
1.001	S8134	20	96.256	-0.294	0.000	0.26		47.2	OK
1.002	S8141	20	96.074	-0.371	0.000	0.19		57.3	OK
1.003	S8139	20	95.869	-0.386	0.000	0.16		60.1	OK
1.004	S8140	20	95.483	-0.362	0.000	0.21		73.9	OK
1.005	S4008	21	95.372	-0.254	0.000	0.52		84.8	OK
1.006	S4011	22	95.226	-0.363	0.000	0.21		89.4	OK
1.007	S4012	22	94.762	-0.323	0.000	0.31		98.6	OK
3.000	S8157	20	96.043	-0.337	0.000	0.02		5.6	OK
3.001	S8159	20	95.257	-0.363	0.000	0.08		20.7	OK
3.002	S8154	21	95.028	-0.312	0.000	0.20		30.8	OK
3.003	S8155	22	94.885	-0.420	0.000	0.09		45.5	OK
1.008	S5015	24	94.590	-0.255	0.000	0.52		148.0	OK
1.009	S5016	24	94.490	-0.215	0.000	0.39		142.0	OK
1.010	S5017 - PH4 Connection	24	94.452	-0.023	0.000	0.72		149.5	OK
4.000	S5018	20	95.144	-0.260	0.000	0.04		8.9	OK
1.011	S5019	28	94.405	0.000	0.000	0.96		151.9	OK
1.012	S5020 PH5 Connection	27	94.365	0.000	0.000	1.14		151.6	OK
1.013	S5021	38	93.940	-0.390	0.000	0.26		157.0	OK

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Summary Wizard of 15 minute 1 year Summer I+0% for Surface Network 5

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
5.000	S5023	20	94.168	-0.352	0.000	0.10		26.9	OK
5.001	S5025	39	93.865	-0.295	0.000	0.18		39.5	OK
6.000	S5026	20	94.352	-0.240	0.000	0.09		9.4	OK
6.001	S5027	39	93.873	-0.262	0.000	0.19		25.2	OK
5.002	S5028	39	93.862	-0.155	0.000	0.38		64.1	OK
1.014	S5029	39	93.856	-0.114	0.000	0.69		182.0	OK
1.015	S5030	39	93.813	-0.114	0.000	1.00		180.3	OK
1.016	S8121	39	93.761	-0.140	0.000	0.99		183.5	OK
1.017	S5036 - Headwall	44	93.662	-0.663	0.000	0.18		179.8	OK
7.000	S8135	20	96.328	-0.290	0.000	0.21		29.7	OK
7.001	S8136	22	96.273	-0.269	0.000	0.26		36.1	OK
7.002	S8137	23	96.222	-0.252	0.000	0.31		42.6	OK
7.003	S8161	24	96.176	-0.238	0.000	0.31		44.0	OK
8.000	S8151	20	96.608	-0.219	0.000	0.16		24.6	OK
7.004	S8162	24	96.130	-0.209	0.000	0.43		59.7	OK
7.005	S8152	24	96.076	-0.194	0.000	0.61		70.5	OK
9.000	S8144	20	96.312	-0.238	0.000	0.09		7.6	OK
9.001	S8145	20	96.080	-0.295	0.000	0.10		14.9	OK
7.006	S8146	24	95.934	-0.295	0.000	0.26		85.9	OK
10.000	S8164	20	95.704	-0.322	0.000	0.05		7.3	OK
7.007	S8147	24	95.585	-0.295	0.000	0.26		93.7	OK
7.008	S8150	24	95.149	-0.316	0.000	0.33		95.1	OK
7.009	S8149	26	94.954	-0.311	0.000	0.35		115.3	OK
11.000	S5037	20	95.216	-0.163	0.000	0.17		6.2	OK
11.001	S5038	20	95.018	-0.216	0.000	0.17		10.7	OK
11.002	S5039	20	94.941	-0.214	0.000	0.18		11.2	OK
12.000	S5040	20	95.262	-0.120	0.000	0.44		17.0	OK
7.010	S5041	24	94.782	-0.296	0.000	0.39		142.4	OK
7.011	S5042	24	94.508	-0.347	0.000	0.25		147.1	OK
7.012	S5047	38	93.713	-0.307	0.000	0.36		150.6	OK
7.013	S5048 - Headwall	45	93.655	-0.295	0.000	0.47		144.3	OK
1.018	S5049 - Headwall	52	93.604	-0.346	0.000	0.57		285.2	OK
1.019	S5050 Control Chamber	72	93.240	-0.660	0.000	0.01		4.4	OK

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Summary Wizard of 30 minute 1 year Summer I+0% for Surface Network 5

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.410
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.800	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 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	S8142	21	96.805	-0.310	0.000	0.07		13.1	OK
2.000	S8133	21	97.830	-0.230	0.000	0.13		22.0	OK
1.001	S8134	21	96.248	-0.302	0.000	0.24		43.1	OK
1.002	S8141	22	96.066	-0.379	0.000	0.17		52.1	OK
1.003	S8139	23	95.863	-0.392	0.000	0.14		55.5	OK
1.004	S8140	23	95.476	-0.369	0.000	0.19		69.0	OK
1.005	S4008	23	95.361	-0.265	0.000	0.49		79.3	OK
1.006	S4011	24	95.221	-0.368	0.000	0.20		85.0	OK
1.007	S4012	25	94.755	-0.330	0.000	0.29		93.4	OK
3.000	S8157	21	96.039	-0.341	0.000	0.02		5.0	OK
3.001	S8159	23	95.252	-0.368	0.000	0.08		19.3	OK
3.002	S8154	23	95.022	-0.318	0.000	0.19		28.7	OK
3.003	S8155	25	94.880	-0.425	0.000	0.08		42.7	OK
1.008	S5015	25	94.584	-0.261	0.000	0.50		142.0	OK
1.009	S5016	27	94.484	-0.221	0.000	0.37		136.4	OK
1.010	S5017 - PH4 Connection	27	94.448	-0.027	0.000	0.69		142.6	OK
4.000	S5018	21	95.142	-0.262	0.000	0.04		8.0	OK
1.011	S5019	29	94.405	0.000	0.000	0.94		148.4	OK
1.012	S5020 PH5 Connection	25	94.365	0.000	0.000	1.13		150.3	OK
1.013	S5021	39	93.936	-0.394	0.000	0.26		154.1	OK

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Summary Wizard of 30 minute 1 year Summer I+0% for Surface Network 5

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
5.000	S5023	21	94.163	-0.357	0.000	0.10		24.5	OK
5.001	S5025	38	93.877	-0.283	0.000	0.16		36.1	OK
6.000	S5026	21	94.348	-0.244	0.000	0.08		8.6	OK
6.001	S5027	38	93.880	-0.255	0.000	0.18		23.5	OK
5.002	S5028	38	93.872	-0.144	0.000	0.34		57.5	OK
1.014	S5029	38	93.866	-0.104	0.000	0.70		183.4	OK
1.015	S5030	38	93.819	-0.108	0.000	1.02		184.0	OK
1.016	S8121	38	93.767	-0.134	0.000	1.01		186.9	OK
1.017	S5036 - Headwall	43	93.672	-0.653	0.000	0.19		187.2	OK
7.000	S8135	23	96.321	-0.298	0.000	0.19		26.9	OK
7.001	S8136	25	96.266	-0.277	0.000	0.24		33.7	OK
7.002	S8137	25	96.215	-0.259	0.000	0.29		40.0	OK
7.003	S8161	25	96.170	-0.244	0.000	0.30		41.5	OK
8.000	S8151	21	96.603	-0.224	0.000	0.15		22.2	OK
7.004	S8162	25	96.124	-0.215	0.000	0.41		56.7	OK
7.005	S8152	25	96.072	-0.198	0.000	0.60		68.6	OK
9.000	S8144	21	96.308	-0.242	0.000	0.08		6.9	OK
9.001	S8145	23	96.077	-0.298	0.000	0.09		13.8	OK
7.006	S8146	26	95.932	-0.297	0.000	0.25		83.5	OK
10.000	S8164	21	95.701	-0.325	0.000	0.04		6.6	OK
7.007	S8147	26	95.584	-0.296	0.000	0.25		91.5	OK
7.008	S8150	26	95.147	-0.318	0.000	0.33		93.7	OK
7.009	S8149	27	94.953	-0.312	0.000	0.34		114.5	OK
11.000	S5037	21	95.213	-0.167	0.000	0.15		5.6	OK
11.001	S5038	23	95.013	-0.220	0.000	0.16		9.8	OK
11.002	S5039	23	94.938	-0.218	0.000	0.17		10.4	OK
12.000	S5040	21	95.256	-0.127	0.000	0.39		15.1	OK
7.010	S5041	26	94.779	-0.299	0.000	0.39		139.9	OK
7.011	S5042	26	94.507	-0.348	0.000	0.25		144.1	OK
7.012	S5047	39	93.712	-0.308	0.000	0.35		147.5	OK
7.013	S5048 - Headwall	43	93.667	-0.283	0.000	0.47		142.4	OK
1.018	S5049 - Headwall	50	93.616	-0.334	0.000	0.59		297.5	OK
1.019	S5050 Control Chamber	70	93.265	-0.635	0.000	0.01		6.5	OK

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Summary Wizard of 60 minute 1 year Summer I+0% for Surface Network 5

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.410
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.800	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 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	S8142	28	96.795	-0.320	0.000	0.05		9.5	OK
2.000	S8133	28	97.821	-0.239	0.000	0.09		15.9	OK
1.001	S8134	28	96.227	-0.323	0.000	0.17		31.5	OK
1.002	S8141	28	96.045	-0.400	0.000	0.13		39.2	OK
1.003	S8139	29	95.846	-0.409	0.000	0.11		42.3	OK
1.004	S8140	30	95.454	-0.391	0.000	0.15		53.5	OK
1.005	S4008	30	95.327	-0.299	0.000	0.38		61.7	OK
1.006	S4011	30	95.202	-0.387	0.000	0.15		66.1	OK
1.007	S4012	30	94.734	-0.351	0.000	0.24		74.8	OK
3.000	S8157	28	96.030	-0.350	0.000	0.01		3.6	OK
3.001	S8159	30	95.240	-0.380	0.000	0.06		14.8	OK
3.002	S8154	30	95.005	-0.335	0.000	0.15		22.6	OK
3.003	S8155	30	94.867	-0.438	0.000	0.07		33.9	OK
1.008	S5015	30	94.554	-0.291	0.000	0.41		115.5	OK
1.009	S5016	32	94.397	-0.308	0.000	0.32		117.2	OK
1.010	S5017 - PH4 Connection	32	94.342	-0.133	0.000	0.61		126.4	OK
4.000	S5018	28	95.138	-0.266	0.000	0.03		5.8	OK
1.011	S5019	32	94.304	-0.101	0.000	0.82		129.7	OK
1.012	S5020 PH5 Connection	32	94.267	-0.098	0.000	1.00		133.2	OK
1.013	S5021	40	93.925	-0.405	0.000	0.23		138.2	OK

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Summary Wizard of 60 minute 1 year Summer I+0% for Surface Network 5

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
5.000	S5023	28	94.148	-0.372	0.000	0.07		17.5	OK
5.001	S5025	40	93.852	-0.308	0.000	0.12		26.2	OK
6.000	S5026	28	94.339	-0.253	0.000	0.06		6.1	OK
6.001	S5027	40	93.863	-0.272	0.000	0.14		17.8	OK
5.002	S5028	40	93.845	-0.171	0.000	0.26		44.0	OK
1.014	S5029	40	93.837	-0.133	0.000	0.66		172.9	OK
1.015	S5030	40	93.797	-0.130	0.000	0.95		171.7	OK
1.016	S8121	40	93.748	-0.153	0.000	0.95		176.7	OK
1.017	S5036 - Headwall	46	93.657	-0.668	0.000	0.18		178.1	OK
7.000	S8135	30	96.298	-0.321	0.000	0.14		19.5	OK
7.001	S8136	30	96.242	-0.301	0.000	0.19		25.6	OK
7.002	S8137	30	96.191	-0.283	0.000	0.23		30.9	OK
7.003	S8161	30	96.144	-0.270	0.000	0.24		33.1	OK
8.000	S8151	28	96.593	-0.234	0.000	0.11		16.1	OK
7.004	S8162	31	96.097	-0.242	0.000	0.33		46.4	OK
7.005	S8152	31	96.043	-0.227	0.000	0.49		56.7	OK
9.000	S8144	28	96.298	-0.252	0.000	0.06		4.9	OK
9.001	S8145	29	96.066	-0.309	0.000	0.07		10.3	OK
7.006	S8146	31	95.918	-0.311	0.000	0.21		69.6	OK
10.000	S8164	28	95.694	-0.331	0.000	0.03		4.8	OK
7.007	S8147	31	95.570	-0.310	0.000	0.21		76.6	OK
7.008	S8150	31	95.127	-0.338	0.000	0.27		78.5	OK
7.009	S8149	31	94.934	-0.331	0.000	0.29		96.9	OK
11.000	S5037	28	95.205	-0.175	0.000	0.11		4.0	OK
11.001	S5038	28	95.003	-0.231	0.000	0.12		7.4	OK
11.002	S5039	29	94.927	-0.229	0.000	0.13		7.9	OK
12.000	S5040	28	95.240	-0.142	0.000	0.28		10.9	OK
7.010	S5041	31	94.758	-0.320	0.000	0.32		117.1	OK
7.011	S5042	31	94.491	-0.364	0.000	0.21		121.2	OK
7.012	S5047	40	93.693	-0.327	0.000	0.30		123.9	OK
7.013	S5048 - Headwall	46	93.648	-0.302	0.000	0.39		119.5	OK
1.018	S5049 - Headwall	53	93.600	-0.350	0.000	0.55		277.9	OK
1.019	S5050 Control Chamber	68	93.292	-0.608	0.000	0.01		8.3	OK

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Summary Wizard of 120 minute 1 year Summer I+0% for Surface Network 5

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.410
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.800	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 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	S8142	38	96.785	-0.330	0.000	0.03		6.3	OK
2.000	S8133	38	97.807	-0.253	0.000	0.06		10.6	OK
1.001	S8134	38	96.202	-0.348	0.000	0.12		21.3	OK
1.002	S8141	38	96.024	-0.421	0.000	0.09		26.3	OK
1.003	S8139	38	95.824	-0.431	0.000	0.07		28.1	OK
1.004	S8140	38	95.432	-0.413	0.000	0.10		36.0	OK
1.005	S4008	38	95.284	-0.342	0.000	0.26		42.0	OK
1.006	S4011	38	95.178	-0.411	0.000	0.10		45.1	OK
1.007	S4012	38	94.703	-0.382	0.000	0.16		50.5	OK
3.000	S8157	38	96.022	-0.358	0.000	0.01		2.4	OK
3.001	S8159	38	95.228	-0.392	0.000	0.04		10.2	OK
3.002	S8154	38	94.986	-0.354	0.000	0.10		15.5	OK
3.003	S8155	38	94.852	-0.453	0.000	0.05		23.5	OK
1.008	S5015	38	94.512	-0.333	0.000	0.28		78.6	OK
1.009	S5016	38	94.349	-0.356	0.000	0.22		79.9	OK
1.010	S5017 - PH4 Connection	39	94.254	-0.221	0.000	0.43		89.1	OK
4.000	S5018	38	95.131	-0.273	0.000	0.02		3.8	OK
1.011	S5019	39	94.212	-0.193	0.000	0.60		94.4	OK
1.012	S5020 PH5 Connection	39	94.174	-0.191	0.000	0.73		97.3	OK
1.013	S5021	44	93.894	-0.436	0.000	0.17		101.4	OK

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Summary Wizard of 120 minute 1 year Summer I+0% for Surface Network 5

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
5.000	S5023	40	94.132	-0.388	0.000	0.05		11.8	OK
5.001	S5025	44	93.798	-0.362	0.000	0.08		18.2	OK
6.000	S5026	38	94.330	-0.262	0.000	0.04		4.1	OK
6.001	S5027	44	93.837	-0.298	0.000	0.09		12.3	OK
5.002	S5028	44	93.755	-0.261	0.000	0.18		31.2	OK
1.014	S5029	44	93.747	-0.223	0.000	0.50		132.4	OK
1.015	S5030	44	93.709	-0.218	0.000	0.73		131.5	OK
1.016	S8121	50	93.661	-0.241	0.000	0.72		134.4	OK
1.017	S5036 - Headwall	55	93.602	-0.723	0.000	0.14		139.9	OK
7.000	S8135	38	96.272	-0.347	0.000	0.09		13.1	OK
7.001	S8136	38	96.214	-0.329	0.000	0.12		17.3	OK
7.002	S8137	38	96.160	-0.314	0.000	0.16		21.2	OK
7.003	S8161	38	96.110	-0.304	0.000	0.16		22.3	OK
8.000	S8151	38	96.579	-0.248	0.000	0.07		10.7	OK
7.004	S8162	38	96.060	-0.279	0.000	0.23		32.0	OK
7.005	S8152	39	96.006	-0.264	0.000	0.34		39.5	OK
9.000	S8144	38	96.289	-0.261	0.000	0.04		3.3	OK
9.001	S8145	38	96.053	-0.322	0.000	0.05		7.0	OK
7.006	S8146	39	95.896	-0.333	0.000	0.15		48.5	OK
10.000	S8164	38	95.688	-0.337	0.000	0.02		3.2	OK
7.007	S8147	39	95.548	-0.332	0.000	0.15		53.5	OK
7.008	S8150	39	95.099	-0.366	0.000	0.19		55.4	OK
7.009	S8149	39	94.905	-0.360	0.000	0.21		68.5	OK
11.000	S5037	38	95.194	-0.185	0.000	0.07		2.7	OK
11.001	S5038	38	94.991	-0.243	0.000	0.08		5.0	OK
11.002	S5039	38	94.915	-0.241	0.000	0.08		5.2	OK
12.000	S5040	38	95.224	-0.159	0.000	0.19		7.2	OK
7.010	S5041	39	94.726	-0.352	0.000	0.23		81.8	OK
7.011	S5042	39	94.466	-0.389	0.000	0.14		85.0	OK
7.012	S5047	50	93.660	-0.360	0.000	0.21		87.5	OK
7.013	S5048 - Headwall	55	93.598	-0.352	0.000	0.29		88.0	OK
1.018	S5049 - Headwall	55	93.546	-0.404	0.000	0.44		221.1	OK
1.019	S5050 Control Chamber	66	93.319	-0.581	0.000	0.02		9.7	OK

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Summary Wizard of 180 minute 1 year Summer I+0% for Surface Network 5

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.410
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.800	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 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	S8142	44	96.781	-0.334	0.000	0.03		5.1	OK
2.000	S8133	44	97.802	-0.258	0.000	0.05		8.5	OK
1.001	S8134	44	96.192	-0.358	0.000	0.09		16.9	OK
1.002	S8141	44	96.010	-0.435	0.000	0.07		20.9	OK
1.003	S8139	44	95.812	-0.443	0.000	0.06		22.3	OK
1.004	S8140	44	95.420	-0.425	0.000	0.08		28.6	OK
1.005	S4008	44	95.263	-0.363	0.000	0.21		33.6	OK
1.006	S4011	45	95.166	-0.423	0.000	0.08		36.5	OK
1.007	S4012	45	94.685	-0.400	0.000	0.13		41.2	OK
3.000	S8157	44	96.018	-0.362	0.000	0.01		1.9	OK
3.001	S8159	44	95.222	-0.398	0.000	0.03		8.1	OK
3.002	S8154	44	94.975	-0.365	0.000	0.08		12.2	OK
3.003	S8155	44	94.844	-0.461	0.000	0.04		18.3	OK
1.008	S5015	45	94.489	-0.356	0.000	0.23		64.1	OK
1.009	S5016	45	94.328	-0.377	0.000	0.18		65.6	OK
1.010	S5017 - PH4 Connection	45	94.211	-0.264	0.000	0.35		72.1	OK
4.000	S5018	44	95.126	-0.278	0.000	0.02		3.1	OK
1.011	S5019	45	94.168	-0.237	0.000	0.47		75.2	OK
1.012	S5020 PH5 Connection	47	94.130	-0.235	0.000	0.58		77.7	OK
1.013	S5021	48	93.876	-0.454	0.000	0.14		81.3	OK

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Summary Wizard of 180 minute 1 year Summer I+0% for Surface Network 5

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
5.000	S5023	46	94.126	-0.394	0.000	0.04		9.4	OK
5.001	S5025	47	93.785	-0.375	0.000	0.07		14.4	OK
6.000	S5026	44	94.326	-0.266	0.000	0.03		3.3	OK
6.001	S5027	47	93.828	-0.307	0.000	0.07		9.7	OK
5.002	S5028	49	93.706	-0.311	0.000	0.15		25.6	OK
1.014	S5029	48	93.696	-0.274	0.000	0.41		107.6	OK
1.015	S5030	53	93.660	-0.267	0.000	0.60		108.0	OK
1.016	S8121	57	93.617	-0.284	0.000	0.60		111.1	OK
1.017	S5036 - Headwall	57	93.565	-0.760	0.000	0.12		115.2	OK
7.000	S8135	44	96.260	-0.358	0.000	0.07		10.5	OK
7.001	S8136	44	96.199	-0.344	0.000	0.10		13.7	OK
7.002	S8137	45	96.142	-0.332	0.000	0.13		17.2	OK
7.003	S8161	45	96.090	-0.324	0.000	0.13		18.4	OK
8.000	S8151	44	96.573	-0.254	0.000	0.06		8.5	OK
7.004	S8162	45	96.038	-0.301	0.000	0.19		26.4	OK
7.005	S8152	45	95.983	-0.288	0.000	0.28		32.5	OK
9.000	S8144	44	96.285	-0.265	0.000	0.03		2.6	OK
9.001	S8145	44	96.047	-0.328	0.000	0.04		5.6	OK
7.006	S8146	45	95.882	-0.347	0.000	0.12		40.1	OK
10.000	S8164	44	95.681	-0.344	0.000	0.02		2.5	OK
7.007	S8147	45	95.534	-0.346	0.000	0.12		44.3	OK
7.008	S8150	45	95.079	-0.386	0.000	0.16		45.3	OK
7.009	S8149	45	94.885	-0.380	0.000	0.17		56.2	OK
11.000	S5037	44	95.190	-0.190	0.000	0.06		2.1	OK
11.001	S5038	44	94.983	-0.250	0.000	0.06		4.0	OK
11.002	S5039	44	94.907	-0.249	0.000	0.07		4.1	OK
12.000	S5040	44	95.216	-0.167	0.000	0.15		5.8	OK
7.010	S5041	45	94.706	-0.372	0.000	0.19		67.6	OK
7.011	S5042	45	94.450	-0.405	0.000	0.12		69.7	OK
7.012	S5047	53	93.641	-0.379	0.000	0.17		71.2	OK
7.013	S5048 - Headwall	57	93.563	-0.387	0.000	0.23		70.8	OK
1.018	S5049 - Headwall	57	93.511	-0.439	0.000	0.36		182.8	OK
1.019	S5050 Control Chamber	65	93.333	-0.567	0.000	0.02		10.0	OK

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Summary Wizard of 240 minute 1 year Summer I+0% for Surface Network 5

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.410
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.800	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 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	S8142	48	96.778	-0.337	0.000	0.02		4.2	OK
2.000	S8133	48	97.798	-0.262	0.000	0.04		6.9	OK
1.001	S8134	48	96.182	-0.368	0.000	0.08		14.0	OK
1.002	S8141	48	96.001	-0.444	0.000	0.06		17.3	OK
1.003	S8139	48	95.804	-0.451	0.000	0.05		18.6	OK
1.004	S8140	48	95.408	-0.437	0.000	0.07		23.9	OK
1.005	S4008	48	95.247	-0.379	0.000	0.17		27.9	OK
1.006	S4011	48	95.155	-0.434	0.000	0.07		30.1	OK
1.007	S4012	48	94.675	-0.410	0.000	0.11		33.8	OK
3.000	S8157	48	96.016	-0.364	0.000	0.01		1.6	OK
3.001	S8159	48	95.219	-0.401	0.000	0.03		6.7	OK
3.002	S8154	48	94.966	-0.374	0.000	0.07		10.2	OK
3.003	S8155	48	94.839	-0.466	0.000	0.03		15.5	OK
1.008	S5015	48	94.474	-0.371	0.000	0.19		52.7	OK
1.009	S5016	48	94.315	-0.390	0.000	0.15		53.9	OK
1.010	S5017 - PH4 Connection	50	94.182	-0.293	0.000	0.29		60.1	OK
4.000	S5018	48	95.122	-0.282	0.000	0.01		2.5	OK
1.011	S5019	51	94.137	-0.268	0.000	0.40		63.5	OK
1.012	S5020 PH5 Connection	51	94.099	-0.266	0.000	0.49		65.4	OK
1.013	S5021	51	93.864	-0.466	0.000	0.11		68.3	OK

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Summary Wizard of 240 minute 1 year Summer I+0% for Surface Network 5

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
5.000	S5023	49	94.121	-0.399	0.000	0.03		7.7	OK
5.001	S5025	50	93.777	-0.383	0.000	0.05		12.0	OK
6.000	S5026	48	94.324	-0.268	0.000	0.03		2.7	OK
6.001	S5027	50	93.820	-0.315	0.000	0.06		8.1	OK
5.002	S5028	56	93.675	-0.341	0.000	0.13		21.6	OK
1.014	S5029	56	93.662	-0.308	0.000	0.35		91.1	OK
1.015	S5030	56	93.628	-0.300	0.000	0.50		91.1	OK
1.016	S8121	58	93.587	-0.315	0.000	0.50		93.6	OK
1.017	S5036 - Headwall	58	93.538	-0.787	0.000	0.10		98.0	OK
7.000	S8135	48	96.250	-0.368	0.000	0.06		8.6	OK
7.001	S8136	48	96.189	-0.354	0.000	0.08		11.5	OK
7.002	S8137	48	96.131	-0.343	0.000	0.11		14.3	OK
7.003	S8161	48	96.078	-0.336	0.000	0.11		15.1	OK
8.000	S8151	48	96.568	-0.259	0.000	0.05		7.0	OK
7.004	S8162	48	96.026	-0.314	0.000	0.16		21.8	OK
7.005	S8152	49	95.969	-0.302	0.000	0.23		26.9	OK
9.000	S8144	48	96.282	-0.268	0.000	0.03		2.2	OK
9.001	S8145	48	96.043	-0.332	0.000	0.03		4.6	OK
7.006	S8146	49	95.875	-0.354	0.000	0.10		33.3	OK
10.000	S8164	48	95.675	-0.350	0.000	0.01		2.1	OK
7.007	S8147	49	95.526	-0.354	0.000	0.10		36.7	OK
7.008	S8150	49	95.067	-0.398	0.000	0.13		37.7	OK
7.009	S8149	49	94.872	-0.393	0.000	0.14		46.8	OK
11.000	S5037	48	95.186	-0.194	0.000	0.05		1.8	OK
11.001	S5038	48	94.978	-0.255	0.000	0.05		3.3	OK
11.002	S5039	48	94.902	-0.254	0.000	0.06		3.5	OK
12.000	S5040	48	95.210	-0.173	0.000	0.12		4.8	OK
7.010	S5041	49	94.692	-0.386	0.000	0.15		56.1	OK
7.011	S5042	49	94.441	-0.414	0.000	0.10		58.2	OK
7.012	S5047	56	93.628	-0.392	0.000	0.14		59.8	OK
7.013	S5048 - Headwall	58	93.537	-0.413	0.000	0.20		59.9	OK
1.018	S5049 - Headwall	58	93.484	-0.466	0.000	0.31		155.5	OK
1.019	S5050 Control Chamber	63	93.343	-0.557	0.000	0.02		10.2	OK

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Summary Wizard of 360 minute 1 year Summer I+0% for Surface Network 5

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.410
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.800	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 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	S8142	55	96.770	-0.345	0.000	0.02		3.1	OK
2.000	S8133	55	97.794	-0.266	0.000	0.03		5.2	OK
1.001	S8134	55	96.169	-0.381	0.000	0.06		10.5	OK
1.002	S8141	55	95.989	-0.456	0.000	0.04		13.0	OK
1.003	S8139	55	95.794	-0.461	0.000	0.04		14.0	OK
1.004	S8140	55	95.395	-0.450	0.000	0.05		18.0	OK
1.005	S4008	55	95.226	-0.400	0.000	0.13		21.0	OK
1.006	S4011	55	95.141	-0.448	0.000	0.05		22.8	OK
1.007	S4012	55	94.660	-0.425	0.000	0.08		25.8	OK
3.000	S8157	55	96.013	-0.367	0.000	0.00		1.2	OK
3.001	S8159	55	95.212	-0.408	0.000	0.02		5.0	OK
3.002	S8154	55	94.954	-0.386	0.000	0.05		7.7	OK
3.003	S8155	55	94.833	-0.472	0.000	0.02		11.6	OK
1.008	S5015	55	94.451	-0.394	0.000	0.14		40.2	OK
1.009	S5016	55	94.297	-0.408	0.000	0.11		41.2	OK
1.010	S5017 - PH4 Connection	56	94.147	-0.328	0.000	0.22		45.6	OK
4.000	S5018	55	95.117	-0.287	0.000	0.01		1.9	OK
1.011	S5019	56	94.100	-0.305	0.000	0.30		47.9	OK
1.012	S5020 PH5 Connection	56	94.062	-0.303	0.000	0.37		48.9	OK
1.013	S5021	56	93.849	-0.481	0.000	0.09		51.2	OK

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Summary Wizard of 360 minute 1 year Summer I+0% for Surface Network 5

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
5.000	S5023	56	94.116	-0.404	0.000	0.02		5.8	OK
5.001	S5025	56	93.768	-0.392	0.000	0.04		9.0	OK
6.000	S5026	55	94.319	-0.273	0.000	0.02		2.0	OK
6.001	S5027	56	93.812	-0.323	0.000	0.05		6.1	OK
5.002	S5028	60	93.635	-0.381	0.000	0.10		16.3	OK
1.014	S5029	61	93.613	-0.357	0.000	0.26		68.8	OK
1.015	S5030	61	93.580	-0.347	0.000	0.39		69.7	OK
1.016	S8121	61	93.541	-0.360	0.000	0.39		72.2	OK
1.017	S5036 - Headwall	61	93.496	-0.829	0.000	0.08		75.8	OK
7.000	S8135	55	96.237	-0.381	0.000	0.05		6.4	OK
7.001	S8136	55	96.175	-0.368	0.000	0.06		8.7	OK
7.002	S8137	55	96.116	-0.357	0.000	0.08		10.8	OK
7.003	S8161	55	96.062	-0.352	0.000	0.08		11.6	OK
8.000	S8151	55	96.563	-0.264	0.000	0.03		5.2	OK
7.004	S8162	55	96.005	-0.334	0.000	0.12		16.7	OK
7.005	S8152	55	95.948	-0.322	0.000	0.18		20.6	OK
9.000	S8144	55	96.278	-0.272	0.000	0.02		1.6	OK
9.001	S8145	55	96.039	-0.336	0.000	0.02		3.5	OK
7.006	S8146	55	95.861	-0.368	0.000	0.08		25.6	OK
10.000	S8164	55	95.669	-0.356	0.000	0.01		1.6	OK
7.007	S8147	55	95.513	-0.367	0.000	0.08		28.2	OK
7.008	S8150	55	95.051	-0.414	0.000	0.10		28.8	OK
7.009	S8149	55	94.855	-0.410	0.000	0.11		35.9	OK
11.000	S5037	55	95.182	-0.198	0.000	0.04		1.3	OK
11.001	S5038	55	94.972	-0.262	0.000	0.04		2.5	OK
11.002	S5039	55	94.895	-0.261	0.000	0.04		2.6	OK
12.000	S5040	55	95.204	-0.179	0.000	0.09		3.6	OK
7.010	S5041	55	94.673	-0.405	0.000	0.12		43.2	OK
7.011	S5042	55	94.426	-0.429	0.000	0.08		44.5	OK
7.012	S5047	60	93.611	-0.409	0.000	0.11		45.5	OK
7.013	S5048 - Headwall	61	93.501	-0.449	0.000	0.15		45.0	OK
1.018	S5049 - Headwall	61	93.447	-0.503	0.000	0.24		120.4	OK
1.019	S5050 Control Chamber	62	93.353	-0.547	0.000	0.02		10.3	OK

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Summary Wizard of 480 minute 1 year Summer I+0% for Surface Network 5

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.410
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.800	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 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	S8142	59	96.764	-0.351	0.000	0.01		2.5	OK
2.000	S8133	59	97.791	-0.269	0.000	0.02		4.2	OK
1.001	S8134	59	96.162	-0.388	0.000	0.05		8.5	OK
1.002	S8141	59	95.983	-0.462	0.000	0.03		10.5	OK
1.003	S8139	59	95.789	-0.466	0.000	0.03		11.4	OK
1.004	S8140	59	95.388	-0.457	0.000	0.04		14.6	OK
1.005	S4008	59	95.214	-0.412	0.000	0.10		17.1	OK
1.006	S4011	59	95.133	-0.456	0.000	0.04		18.5	OK
1.007	S4012	59	94.648	-0.437	0.000	0.07		20.9	OK
3.000	S8157	59	96.012	-0.368	0.000	0.00		1.0	OK
3.001	S8159	59	95.204	-0.416	0.000	0.02		4.1	OK
3.002	S8154	59	94.948	-0.392	0.000	0.04		6.2	OK
3.003	S8155	59	94.825	-0.480	0.000	0.02		9.4	OK
1.008	S5015	59	94.438	-0.407	0.000	0.12		32.7	OK
1.009	S5016	59	94.286	-0.419	0.000	0.09		33.5	OK
1.010	S5017 - PH4 Connection	59	94.124	-0.351	0.000	0.18		37.2	OK
4.000	S5018	59	95.115	-0.289	0.000	0.01		1.5	OK
1.011	S5019	59	94.076	-0.329	0.000	0.25		39.1	OK
1.012	S5020 PH5 Connection	59	94.037	-0.328	0.000	0.30		40.0	OK
1.013	S5021	59	93.834	-0.496	0.000	0.07		41.8	OK

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Summary Wizard of 480 minute 1 year Summer I+0% for Surface Network 5

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
5.000	S5023	59	94.109	-0.411	0.000	0.02		4.7	OK
5.001	S5025	59	93.763	-0.397	0.000	0.03		7.3	OK
6.000	S5026	59	94.313	-0.278	0.000	0.02		1.6	OK
6.001	S5027	59	93.807	-0.328	0.000	0.04		4.9	OK
5.002	S5028	62	93.611	-0.406	0.000	0.08		13.3	OK
1.014	S5029	62	93.580	-0.390	0.000	0.21		56.1	OK
1.015	S5030	62	93.548	-0.379	0.000	0.31		56.2	OK
1.016	S8121	62	93.512	-0.389	0.000	0.31		58.4	OK
1.017	S5036 - Headwall	62	93.469	-0.856	0.000	0.06		61.8	OK
7.000	S8135	59	96.229	-0.389	0.000	0.04		5.2	OK
7.001	S8136	59	96.165	-0.378	0.000	0.05		7.0	OK
7.002	S8137	59	96.106	-0.368	0.000	0.06		8.8	OK
7.003	S8161	59	96.051	-0.362	0.000	0.07		9.4	OK
8.000	S8151	59	96.560	-0.267	0.000	0.03		4.2	OK
7.004	S8162	59	95.993	-0.347	0.000	0.10		13.6	OK
7.005	S8152	59	95.934	-0.336	0.000	0.15		16.8	OK
9.000	S8144	59	96.273	-0.277	0.000	0.02		1.3	OK
9.001	S8145	59	96.034	-0.341	0.000	0.02		2.8	OK
7.006	S8146	59	95.852	-0.377	0.000	0.06		20.8	OK
10.000	S8164	59	95.665	-0.360	0.000	0.01		1.3	OK
7.007	S8147	59	95.503	-0.377	0.000	0.06		23.0	OK
7.008	S8150	59	95.040	-0.425	0.000	0.08		23.5	OK
7.009	S8149	59	94.845	-0.420	0.000	0.09		29.3	OK
11.000	S5037	59	95.180	-0.200	0.000	0.03		1.1	OK
11.001	S5038	59	94.968	-0.265	0.000	0.03		2.0	OK
11.002	S5039	59	94.892	-0.264	0.000	0.03		2.1	OK
12.000	S5040	59	95.198	-0.184	0.000	0.08		2.9	OK
7.010	S5041	59	94.662	-0.416	0.000	0.10		35.2	OK
7.011	S5042	59	94.415	-0.440	0.000	0.06		36.3	OK
7.012	S5047	62	93.601	-0.419	0.000	0.09		37.1	OK
7.013	S5048 - Headwall	62	93.479	-0.471	0.000	0.12		36.6	OK
1.018	S5049 - Headwall	62	93.422	-0.528	0.000	0.20		98.3	OK
1.019	S5050 Control Chamber	60	93.358	-0.542	0.000	0.02		10.4	OK

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Summary Wizard of 600 minute 1 year Summer I+0% for Surface Network 5

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.410
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.800	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 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	S8142	63	96.760	-0.355	0.000	0.01		2.1	OK
2.000	S8133	63	97.789	-0.271	0.000	0.02		3.6	OK
1.001	S8134	63	96.157	-0.393	0.000	0.04		7.2	OK
1.002	S8141	63	95.979	-0.466	0.000	0.03		8.9	OK
1.003	S8139	63	95.786	-0.469	0.000	0.03		9.7	OK
1.004	S8140	63	95.383	-0.462	0.000	0.03		12.4	OK
1.005	S4008	63	95.206	-0.420	0.000	0.09		14.5	OK
1.006	S4011	63	95.128	-0.461	0.000	0.04		15.7	OK
1.007	S4012	63	94.640	-0.445	0.000	0.06		17.8	OK
3.000	S8157	63	96.011	-0.369	0.000	0.00		0.8	OK
3.001	S8159	63	95.199	-0.421	0.000	0.01		3.5	OK
3.002	S8154	63	94.944	-0.396	0.000	0.03		5.3	OK
3.003	S8155	63	94.818	-0.487	0.000	0.02		8.0	OK
1.008	S5015	63	94.430	-0.415	0.000	0.10		27.8	OK
1.009	S5016	63	94.276	-0.429	0.000	0.08		28.5	OK
1.010	S5017 - PH4 Connection	63	94.109	-0.366	0.000	0.15		31.5	OK
4.000	S5018	63	95.113	-0.291	0.000	0.01		1.3	OK
1.011	S5019	63	94.059	-0.346	0.000	0.21		33.2	OK
1.012	S5020 PH5 Connection	63	94.020	-0.345	0.000	0.26		34.0	OK
1.013	S5021	63	93.825	-0.505	0.000	0.06		35.6	OK

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Summary Wizard of 600 minute 1 year Summer I+0% for Surface Network 5

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
5.000	S5023	63	94.103	-0.417	0.000	0.02		4.0	OK
5.001	S5025	63	93.759	-0.401	0.000	0.03		6.2	OK
6.000	S5026	63	94.310	-0.282	0.000	0.01		1.4	OK
6.001	S5027	63	93.803	-0.332	0.000	0.03		4.2	OK
5.002	S5028	64	93.596	-0.420	0.000	0.07		11.3	OK
1.014	S5029	64	93.558	-0.413	0.000	0.18		48.0	OK
1.015	S5030	64	93.526	-0.401	0.000	0.27		48.0	OK
1.016	S8121	64	93.491	-0.410	0.000	0.27		49.6	OK
1.017	S5036 - Headwall	64	93.450	-0.875	0.000	0.05		52.6	OK
7.000	S8135	63	96.224	-0.394	0.000	0.03		4.4	OK
7.001	S8136	63	96.158	-0.384	0.000	0.04		5.9	OK
7.002	S8137	63	96.098	-0.376	0.000	0.05		7.4	OK
7.003	S8161	63	96.043	-0.371	0.000	0.06		8.0	OK
8.000	S8151	63	96.558	-0.269	0.000	0.02		3.6	OK
7.004	S8162	63	95.985	-0.355	0.000	0.08		11.5	OK
7.005	S8152	63	95.925	-0.345	0.000	0.12		14.3	OK
9.000	S8144	63	96.269	-0.281	0.000	0.01		1.1	OK
9.001	S8145	63	96.029	-0.346	0.000	0.02		2.4	OK
7.006	S8146	63	95.845	-0.384	0.000	0.05		17.6	OK
10.000	S8164	63	95.663	-0.362	0.000	0.01		1.1	OK
7.007	S8147	63	95.497	-0.383	0.000	0.05		19.5	OK
7.008	S8150	63	95.031	-0.434	0.000	0.07		20.0	OK
7.009	S8149	63	94.835	-0.430	0.000	0.08		24.9	OK
11.000	S5037	63	95.178	-0.201	0.000	0.02		0.9	OK
11.001	S5038	63	94.966	-0.267	0.000	0.03		1.7	OK
11.002	S5039	63	94.889	-0.266	0.000	0.03		1.8	OK
12.000	S5040	63	95.194	-0.188	0.000	0.06		2.5	OK
7.010	S5041	63	94.654	-0.424	0.000	0.08		29.9	OK
7.011	S5042	63	94.407	-0.448	0.000	0.05		30.9	OK
7.012	S5047	64	93.590	-0.430	0.000	0.08		31.5	OK
7.013	S5048 - Headwall	64	93.460	-0.490	0.000	0.10		31.2	OK
1.018	S5049 - Headwall	64	93.404	-0.546	0.000	0.17		83.8	OK
1.019	S5050 Control Chamber	59	93.363	-0.537	0.000	0.02		10.5	OK

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Summary Wizard of 720 minute 1 year Summer I+0% for Surface Network 5

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.410
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.800	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 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	S8142	65	96.758	-0.357	0.000	0.01		1.9	OK
2.000	S8133	65	97.785	-0.275	0.000	0.02		3.1	OK
1.001	S8134	65	96.154	-0.396	0.000	0.03		6.3	OK
1.002	S8141	65	95.976	-0.469	0.000	0.03		7.8	OK
1.003	S8139	65	95.783	-0.472	0.000	0.02		8.4	OK
1.004	S8140	65	95.379	-0.466	0.000	0.03		10.8	OK
1.005	S4008	65	95.198	-0.428	0.000	0.08		12.7	OK
1.006	S4011	65	95.125	-0.464	0.000	0.03		13.7	OK
1.007	S4012	65	94.634	-0.451	0.000	0.05		15.5	OK
3.000	S8157	65	96.010	-0.370	0.000	0.00		0.7	OK
3.001	S8159	65	95.195	-0.425	0.000	0.01		3.0	OK
3.002	S8154	65	94.941	-0.399	0.000	0.03		4.6	OK
3.003	S8155	65	94.813	-0.492	0.000	0.01		7.0	OK
1.008	S5015	65	94.423	-0.422	0.000	0.09		24.3	OK
1.009	S5016	65	94.269	-0.436	0.000	0.07		24.9	OK
1.010	S5017 - PH4 Connection	65	94.097	-0.378	0.000	0.13		27.6	OK
4.000	S5018	65	95.112	-0.292	0.000	0.01		1.1	OK
1.011	S5019	65	94.047	-0.358	0.000	0.18		29.1	OK
1.012	S5020 PH5 Connection	65	94.008	-0.357	0.000	0.22		29.8	OK
1.013	S5021	65	93.818	-0.512	0.000	0.05		31.2	OK

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Summary Wizard of 720 minute 1 year Summer I+0% for Surface Network 5

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
5.000	S5023	65	94.099	-0.421	0.000	0.01		3.5	OK
5.001	S5025	65	93.757	-0.403	0.000	0.02		5.4	OK
6.000	S5026	65	94.308	-0.284	0.000	0.01		1.2	OK
6.001	S5027	65	93.801	-0.334	0.000	0.03		3.6	OK
5.002	S5028	66	93.584	-0.432	0.000	0.06		9.8	OK
1.014	S5029	66	93.540	-0.430	0.000	0.16		42.1	OK
1.015	S5030	66	93.509	-0.418	0.000	0.23		42.1	OK
1.016	S8121	66	93.475	-0.426	0.000	0.23		43.3	OK
1.017	S5036 - Headwall	66	93.437	-0.888	0.000	0.05		46.0	OK
7.000	S8135	65	96.221	-0.397	0.000	0.03		3.9	OK
7.001	S8136	65	96.154	-0.389	0.000	0.04		5.2	OK
7.002	S8137	65	96.092	-0.381	0.000	0.05		6.5	OK
7.003	S8161	65	96.037	-0.377	0.000	0.05		7.0	OK
8.000	S8151	65	96.556	-0.270	0.000	0.02		3.1	OK
7.004	S8162	65	95.979	-0.360	0.000	0.07		10.1	OK
7.005	S8152	65	95.918	-0.352	0.000	0.11		12.5	OK
9.000	S8144	65	96.267	-0.283	0.000	0.01		1.0	OK
9.001	S8145	65	96.025	-0.350	0.000	0.01		2.1	OK
7.006	S8146	65	95.841	-0.388	0.000	0.05		15.4	OK
10.000	S8164	65	95.661	-0.364	0.000	0.01		0.9	OK
7.007	S8147	65	95.492	-0.388	0.000	0.05		17.0	OK
7.008	S8150	65	95.024	-0.441	0.000	0.06		17.5	OK
7.009	S8149	65	94.827	-0.438	0.000	0.07		21.8	OK
11.000	S5037	65	95.177	-0.202	0.000	0.02		0.8	OK
11.001	S5038	65	94.965	-0.269	0.000	0.02		1.5	OK
11.002	S5039	65	94.888	-0.268	0.000	0.03		1.6	OK
12.000	S5040	65	95.192	-0.191	0.000	0.06		2.1	OK
7.010	S5041	65	94.645	-0.433	0.000	0.07		26.2	OK
7.011	S5042	65	94.402	-0.453	0.000	0.05		27.0	OK
7.012	S5047	66	93.583	-0.437	0.000	0.07		27.6	OK
7.013	S5048 - Headwall	66	93.447	-0.503	0.000	0.09		27.4	OK
1.018	S5049 - Headwall	69	93.390	-0.560	0.000	0.15		73.2	OK
1.019	S5050 Control Chamber	57	93.366	-0.534	0.000	0.02		10.5	OK

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Summary Wizard of 960 minute 1 year Summer I+0% for Surface Network 5

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.410
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.800	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 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	S8142	68	96.754	-0.361	0.000	0.01		1.5	OK
2.000	S8133	68	97.780	-0.280	0.000	0.01		2.5	OK
1.001	S8134	68	96.149	-0.401	0.000	0.03		5.1	OK
1.002	S8141	68	95.971	-0.474	0.000	0.02		6.3	OK
1.003	S8139	68	95.774	-0.481	0.000	0.02		6.8	OK
1.004	S8140	68	95.375	-0.470	0.000	0.02		8.7	OK
1.005	S4008	68	95.186	-0.440	0.000	0.06		10.2	OK
1.006	S4011	68	95.120	-0.469	0.000	0.03		11.1	OK
1.007	S4012	68	94.627	-0.458	0.000	0.04		12.6	OK
3.000	S8157	68	96.009	-0.371	0.000	0.00		0.6	OK
3.001	S8159	68	95.191	-0.429	0.000	0.01		2.4	OK
3.002	S8154	68	94.937	-0.403	0.000	0.02		3.7	OK
3.003	S8155	68	94.807	-0.498	0.000	0.01		5.7	OK
1.008	S5015	68	94.410	-0.435	0.000	0.07		19.6	OK
1.009	S5016	68	94.259	-0.446	0.000	0.05		20.1	OK
1.010	S5017 - PH4 Connection	68	94.080	-0.395	0.000	0.11		22.3	OK
4.000	S5018	68	95.110	-0.294	0.000	0.00		0.9	OK
1.011	S5019	68	94.029	-0.376	0.000	0.15		23.5	OK
1.012	S5020 PH5 Connection	68	93.990	-0.375	0.000	0.18		24.2	OK
1.013	S5021	68	93.809	-0.521	0.000	0.04		25.3	OK

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Summary Wizard of 960 minute 1 year Summer I+0% for Surface Network 5

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
5.000	S5023	68	94.093	-0.427	0.000	0.01		2.8	OK
5.001	S5025	68	93.752	-0.408	0.000	0.02		4.4	OK
6.000	S5026	68	94.305	-0.287	0.000	0.01		1.0	OK
6.001	S5027	68	93.798	-0.337	0.000	0.02		2.9	OK
5.002	S5028	68	93.569	-0.448	0.000	0.05		8.0	OK
1.014	S5029	68	93.514	-0.456	0.000	0.13		34.1	OK
1.015	S5030	68	93.484	-0.443	0.000	0.19		34.2	OK
1.016	S8121	68	93.452	-0.449	0.000	0.19		35.3	OK
1.017	S5036 - Headwall	68	93.415	-0.910	0.000	0.04		37.1	OK
7.000	S8135	68	96.217	-0.402	0.000	0.02		3.1	OK
7.001	S8136	68	96.148	-0.395	0.000	0.03		4.2	OK
7.002	S8137	68	96.085	-0.389	0.000	0.04		5.3	OK
7.003	S8161	68	96.028	-0.385	0.000	0.04		5.6	OK
8.000	S8151	68	96.551	-0.276	0.000	0.02		2.5	OK
7.004	S8162	68	95.968	-0.371	0.000	0.06		8.2	OK
7.005	S8152	68	95.910	-0.361	0.000	0.09		10.1	OK
9.000	S8144	68	96.264	-0.286	0.000	0.01		0.8	OK
9.001	S8145	68	96.020	-0.355	0.000	0.01		1.7	OK
7.006	S8146	68	95.835	-0.394	0.000	0.04		12.5	OK
10.000	S8164	68	95.659	-0.366	0.000	0.01		0.8	OK
7.007	S8147	68	95.486	-0.394	0.000	0.04		13.8	OK
7.008	S8150	68	95.015	-0.450	0.000	0.05		14.2	OK
7.009	S8149	68	94.817	-0.448	0.000	0.05		17.6	OK
11.000	S5037	68	95.173	-0.207	0.000	0.02		0.6	OK
11.001	S5038	68	94.961	-0.272	0.000	0.02		1.2	OK
11.002	S5039	68	94.885	-0.271	0.000	0.02		1.3	OK
12.000	S5040	68	95.188	-0.195	0.000	0.05		1.7	OK
7.010	S5041	68	94.635	-0.443	0.000	0.06		21.2	OK
7.011	S5042	68	94.395	-0.460	0.000	0.04		21.9	OK
7.012	S5047	68	93.573	-0.447	0.000	0.05		22.4	OK
7.013	S5048 - Headwall	68	93.429	-0.521	0.000	0.07		22.3	OK
1.018	S5049 - Headwall	71	93.371	-0.579	0.000	0.12		59.1	OK
1.019	S5050 Control Chamber	55	93.368	-0.532	0.000	0.02		10.5	OK

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Summary Wizard of 1440 minute 1 year Summer I+0% for Surface Network 5

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.410
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.800	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 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	S8142	71	96.751	-0.364	0.000	0.01		1.1	OK
2.000	S8133	71	97.775	-0.285	0.000	0.01		1.9	OK
1.001	S8134	71	96.144	-0.406	0.000	0.02		3.8	OK
1.002	S8141	71	95.958	-0.487	0.000	0.02		4.7	OK
1.003	S8139	71	95.763	-0.492	0.000	0.01		5.1	OK
1.004	S8140	71	95.365	-0.480	0.000	0.02		6.5	OK
1.005	S4008	71	95.173	-0.453	0.000	0.05		7.6	OK
1.006	S4011	71	95.111	-0.478	0.000	0.02		8.2	OK
1.007	S4012	71	94.619	-0.466	0.000	0.03		9.3	OK
3.000	S8157	71	96.008	-0.372	0.000	0.00		0.4	OK
3.001	S8159	71	95.185	-0.435	0.000	0.01		1.8	OK
3.002	S8154	71	94.928	-0.412	0.000	0.02		2.8	OK
3.003	S8155	71	94.800	-0.505	0.000	0.01		4.2	OK
1.008	S5015	71	94.396	-0.449	0.000	0.05		14.6	OK
1.009	S5016	71	94.248	-0.457	0.000	0.04		14.9	OK
1.010	S5017 - PH4 Connection	71	94.061	-0.414	0.000	0.08		16.6	OK
4.000	S5018	71	95.109	-0.295	0.000	0.00		0.7	OK
1.011	S5019	70	94.006	-0.399	0.000	0.11		17.5	OK
1.012	S5020 PH5 Connection	70	93.968	-0.397	0.000	0.13		17.9	OK
1.013	S5021	70	93.799	-0.531	0.000	0.03		18.8	OK

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Summary Wizard of 1440 minute 1 year Summer I+0% for Surface Network 5

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
5.000	S5023	71	94.087	-0.433	0.000	0.01		2.1	OK
5.001	S5025	71	93.741	-0.419	0.000	0.01		3.2	OK
6.000	S5026	71	94.301	-0.290	0.000	0.01		0.7	OK
6.001	S5027	71	93.790	-0.345	0.000	0.02		2.2	OK
5.002	S5028	71	93.554	-0.462	0.000	0.03		5.9	OK
1.014	S5029	70	93.483	-0.487	0.000	0.10		25.4	OK
1.015	S5030	70	93.453	-0.474	0.000	0.14		25.5	OK
1.016	S8121	70	93.423	-0.478	0.000	0.14		26.3	OK
1.017	S5036 - Headwall	72	93.388	-0.937	0.000	0.03		27.6	OK
7.000	S8135	71	96.210	-0.409	0.000	0.02		2.3	OK
7.001	S8136	71	96.141	-0.401	0.000	0.02		3.1	OK
7.002	S8137	71	96.077	-0.397	0.000	0.03		3.9	OK
7.003	S8161	71	96.019	-0.395	0.000	0.03		4.2	OK
8.000	S8151	71	96.545	-0.282	0.000	0.01		1.9	OK
7.004	S8162	71	95.955	-0.384	0.000	0.04		6.1	OK
7.005	S8152	71	95.895	-0.376	0.000	0.07		7.5	OK
9.000	S8144	71	96.260	-0.290	0.000	0.01		0.6	OK
9.001	S8145	71	96.015	-0.360	0.000	0.01		1.2	OK
7.006	S8146	71	95.828	-0.401	0.000	0.03		9.3	OK
10.000	S8164	71	95.657	-0.368	0.000	0.00		0.6	OK
7.007	S8147	71	95.480	-0.400	0.000	0.03		10.2	OK
7.008	S8150	71	95.005	-0.460	0.000	0.04		10.5	OK
7.009	S8149	71	94.807	-0.458	0.000	0.04		13.1	OK
11.000	S5037	71	95.168	-0.211	0.000	0.01		0.5	OK
11.001	S5038	71	94.954	-0.280	0.000	0.01		0.9	OK
11.002	S5039	71	94.877	-0.278	0.000	0.02		0.9	OK
12.000	S5040	71	95.184	-0.198	0.000	0.03		1.3	OK
7.010	S5041	71	94.623	-0.455	0.000	0.04		15.7	OK
7.011	S5042	70	94.388	-0.467	0.000	0.03		16.2	OK
7.012	S5047	70	93.562	-0.458	0.000	0.04		16.6	OK
7.013	S5048 - Headwall	70	93.409	-0.541	0.000	0.05		16.6	OK
1.018	S5049 - Headwall	72	93.371	-0.579	0.000	0.09		43.7	OK
1.019	S5050 Control Chamber	54	93.369	-0.531	0.000	0.02		10.6	OK

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Summary Wizard of 15 minute 30 year Summer I+0% for Surface Network 5

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.410
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.800	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 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)
1.000	S8142	8	96.852	-0.263	0.000	0.19		35.5
2.000	S8133	7	97.881	-0.179	0.000	0.34		59.4
1.001	S8134	8	96.373	-0.177	0.000	0.66		120.4
1.002	S8141	8	96.186	-0.259	0.000	0.50		151.5
1.003	S8139	8	95.969	-0.286	0.000	0.42		161.3
1.004	S8140	9	95.678	-0.167	0.000	0.57		204.1
1.005	S4008	9	95.629	0.003	0.000	1.45		235.3
1.006	S4011	9	95.503	-0.086	0.000	0.54		233.2
1.007	S4012	9	95.386	0.301	0.000	0.71		226.3
3.000	S8157	8	96.060	-0.320	0.000	0.05		13.7
3.001	S8159	10	95.323	-0.297	0.000	0.25		63.4
3.002	S8154	11	95.291	-0.049	0.000	0.59		90.4
3.003	S8155	10	95.274	-0.031	0.000	0.24		122.9
1.008	S5015	10	95.261	0.416	0.000	1.06		300.8
1.009	S5016	11	95.110	0.405	0.000	0.83		305.9
1.010	S5017 - PH4 Connection	11	94.961	0.486	0.000	1.58		326.9
4.000	S5018	9	95.169	-0.235	0.000	0.11		21.9
1.011	S5019	11	94.790	0.385	0.000	2.15		341.8
1.012	S5020 PH5 Connection	12	94.600	0.235	0.000	2.60		346.7
1.013	S5021	13	94.401	0.071	0.000	0.58		350.8

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Summary Wizard of 15 minute 30 year Summer I+0% for Surface Network 5

PN	US/MH Name	Status
1.000	S8142	OK
2.000	S8133	OK
1.001	S8134	OK
1.002	S8141	OK
1.003	S8139	OK
1.004	S8140	OK
1.005	S4008	SURCHARGED
1.006	S4011	OK
1.007	S4012	SURCHARGED
3.000	S8157	OK
3.001	S8159	OK
3.002	S8154	OK
3.003	S8155	OK
1.008	S5015	SURCHARGED
1.009	S5016	SURCHARGED
1.010	S5017 - PH4 Connection	SURCHARGED
4.000	S5018	OK
1.011	S5019	SURCHARGED
1.012	S5020 PH5 Connection	SURCHARGED
1.013	S5021	SURCHARGED

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Summary Wizard of 15 minute 30 year Summer I+0% for Surface Network 5

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)
5.000	S5023	13	94.340	-0.180	0.000	0.26		65.9
5.001	S5025	13	94.332	0.172	0.000	0.34		75.7
6.000	S5026	13	94.387	-0.205	0.000	0.21		23.1
6.001	S5027	13	94.333	0.198	0.000	0.49		64.0
5.002	S5028	13	94.324	0.308	0.000	0.87		147.9
1.014	S5029	13	94.313	0.343	0.000	1.77		467.2
1.015	S5030	13	94.239	0.312	0.000	2.56		462.6
1.016	S8121	13	94.178	0.276	0.000	2.51		467.3
1.017	S5036 - Headwall	15	94.110	-0.215	0.000	0.45		438.4
7.000	S8135	8	96.548	-0.071	0.000	0.50		70.8
7.001	S8136	8	96.517	-0.025	0.000	0.62		85.4
7.002	S8137	8	96.481	0.007	0.000	0.75		101.1
7.003	S8161	8	96.439	0.025	0.000	0.74		104.2
8.000	S8151	8	96.660	-0.167	0.000	0.40		60.5
7.004	S8162	8	96.393	0.054	0.000	1.08		150.0
7.005	S8152	8	96.311	0.041	0.000	1.53		175.7
9.000	S8144	8	96.347	-0.203	0.000	0.23		18.5
9.001	S8145	8	96.138	-0.237	0.000	0.29		42.3
7.006	S8146	8	96.051	-0.178	0.000	0.66		220.1
10.000	S8164	8	95.741	-0.284	0.000	0.12		18.1
7.007	S8147	8	95.706	-0.174	0.000	0.68		246.0
7.008	S8150	9	95.326	-0.139	0.000	0.87		247.9
7.009	S8149	9	95.151	-0.114	0.000	0.88		292.2
11.000	S5037	8	95.256	-0.124	0.000	0.41		15.0
11.001	S5038	8	95.082	-0.152	0.000	0.47		29.3
11.002	S5039	9	95.026	-0.129	0.000	0.47		29.3
12.000	S5040	8	95.419	0.036	0.000	1.04		40.0
7.010	S5041	9	95.003	-0.075	0.000	1.00		362.2
7.011	S5042	10	94.637	-0.218	0.000	0.64		373.2
7.012	S5047	13	94.260	0.240	0.000	0.92		381.5
7.013	S5048 - Headwall	14	94.133	0.183	0.000	1.20		363.8
1.018	S5049 - Headwall	17	94.075	0.125	0.000	1.43		718.2
1.019	S5050 Control Chamber	58	93.363	-0.537	0.000	0.02		10.5

PN	US/MH Name	Status
5.000	S5023	OK
5.001	S5025	SURCHARGED
6.000	S5026	OK
6.001	S5027	SURCHARGED
5.002	S5028	SURCHARGED
1.014	S5029	SURCHARGED
1.015	S5030	SURCHARGED
1.016	S8121	SURCHARGED
1.017	S5036 - Headwall	OK

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Summary Wizard of 15 minute 30 year Summer I+0% for Surface Network 5

PN	US/MH Name	Status
7.000	S8135	OK
7.001	S8136	OK
7.002	S8137	SURCHARGED
7.003	S8161	SURCHARGED
8.000	S8151	OK
7.004	S8162	SURCHARGED
7.005	S8152	SURCHARGED
9.000	S8144	OK
9.001	S8145	OK
7.006	S8146	OK
10.000	S8164	OK
7.007	S8147	OK
7.008	S8150	OK
7.009	S8149	OK
11.000	S5037	OK
11.001	S5038	OK
11.002	S5039	OK
12.000	S5040	SURCHARGED
7.010	S5041	OK
7.011	S5042	OK
7.012	S5047	SURCHARGED
7.013	S5048 - Headwall	SURCHARGED
1.018	S5049 - Headwall	SURCHARGED
1.019	S5050 Control Chamber	OK

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Summary Wizard of 30 minute 30 year Summer I+0% for Surface Network 5

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.410
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.800	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 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)
1.000	S8142	9	96.844	-0.271	0.000	0.17		32.2
2.000	S8133	9	97.873	-0.187	0.000	0.31		53.9
1.001	S8134	9	96.352	-0.198	0.000	0.60		109.0
1.002	S8141	9	96.165	-0.280	0.000	0.44		135.1
1.003	S8139	9	95.954	-0.301	0.000	0.37		144.3
1.004	S8140	10	95.671	-0.174	0.000	0.50		180.2
1.005	S4008	10	95.626	0.000	0.000	1.29		209.1
1.006	S4011	11	95.420	-0.169	0.000	0.50		216.6
1.007	S4012	11	95.329	0.244	0.000	0.66		208.9
3.000	S8157	9	96.057	-0.323	0.000	0.05		12.3
3.001	S8159	12	95.312	-0.308	0.000	0.21		54.2
3.002	S8154	12	95.259	-0.081	0.000	0.53		81.4
3.003	S8155	12	95.245	-0.060	0.000	0.22		114.9
1.008	S5015	12	95.232	0.387	0.000	1.02		289.5
1.009	S5016	12	95.099	0.394	0.000	0.80		292.9
1.010	S5017 - PH4 Connection	12	94.956	0.481	0.000	1.54		318.0
4.000	S5018	10	95.166	-0.238	0.000	0.10		19.6
1.011	S5019	12	94.785	0.380	0.000	2.10		332.6
1.012	S5020 PH5 Connection	11	94.608	0.243	0.000	2.53		337.7
1.013	S5021	12	94.436	0.106	0.000	0.58		346.6

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Summary Wizard of 30 minute 30 year Summer I+0% for Surface Network 5

PN	US/MH Name	Status
1.000	S8142	OK
2.000	S8133	OK
1.001	S8134	OK
1.002	S8141	OK
1.003	S8139	OK
1.004	S8140	OK
1.005	S4008	OK
1.006	S4011	OK
1.007	S4012	SURCHARGED
3.000	S8157	OK
3.001	S8159	OK
3.002	S8154	OK
3.003	S8155	OK
1.008	S5015	SURCHARGED
1.009	S5016	SURCHARGED
1.010	S5017 - PH4 Connection	SURCHARGED
4.000	S5018	OK
1.011	S5019	SURCHARGED
1.012	S5020 PH5 Connection	SURCHARGED
1.013	S5021	SURCHARGED

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Summary Wizard of 30 minute 30 year Summer I+0% for Surface Network 5

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)
5.000	S5023	12	94.400	-0.120	0.000	0.23		59.6
5.001	S5025	12	94.387	0.227	0.000	0.34		74.8
6.000	S5026	12	94.399	-0.193	0.000	0.20		21.0
6.001	S5027	12	94.387	0.252	0.000	0.43		56.3
5.002	S5028	12	94.375	0.359	0.000	0.82		140.2
1.014	S5029	12	94.359	0.389	0.000	1.74		459.3
1.015	S5030	12	94.274	0.347	0.000	2.53		458.0
1.016	S8121	12	94.204	0.302	0.000	2.50		465.3
1.017	S5036 - Headwall	13	94.135	-0.190	0.000	0.46		452.3
7.000	S8135	10	96.510	-0.108	0.000	0.46		64.5
7.001	S8136	10	96.484	-0.059	0.000	0.57		79.6
7.002	S8137	10	96.452	-0.022	0.000	0.70		95.4
7.003	S8161	10	96.414	0.000	0.000	0.71		99.0
8.000	S8151	9	96.651	-0.175	0.000	0.36		54.3
7.004	S8162	10	96.369	0.030	0.000	1.03		142.3
7.005	S8152	10	96.298	0.027	0.000	1.47		169.0
9.000	S8144	9	96.342	-0.208	0.000	0.21		16.8
9.001	S8145	9	96.128	-0.247	0.000	0.25		36.8
7.006	S8146	10	96.040	-0.189	0.000	0.63		210.3
10.000	S8164	9	95.733	-0.292	0.000	0.11		16.2
7.007	S8147	10	95.695	-0.185	0.000	0.64		232.8
7.008	S8150	10	95.312	-0.153	0.000	0.83		238.1
7.009	S8149	10	95.122	-0.143	0.000	0.87		287.3
11.000	S5037	9	95.249	-0.130	0.000	0.37		13.6
11.001	S5038	10	95.070	-0.163	0.000	0.42		26.1
11.002	S5039	10	95.006	-0.150	0.000	0.42		26.2
12.000	S5040	9	95.333	-0.050	0.000	0.94		36.2
7.010	S5041	10	94.967	-0.111	0.000	0.98		353.8
7.011	S5042	11	94.631	-0.224	0.000	0.62		364.2
7.012	S5047	11	94.317	0.297	0.000	0.88		366.5
7.013	S5048 - Headwall	11	94.161	0.211	0.000	1.15		349.1
1.018	S5049 - Headwall	14	94.096	0.146	0.000	1.50		752.5
1.019	S5050 Control Chamber	46	93.422	-0.478	0.000	0.02		11.2

PN	US/MH Name	Status
5.000	S5023	OK
5.001	S5025	SURCHARGED
6.000	S5026	OK
6.001	S5027	SURCHARGED
5.002	S5028	SURCHARGED
1.014	S5029	SURCHARGED
1.015	S5030	SURCHARGED
1.016	S8121	SURCHARGED
1.017	S5036 - Headwall	OK

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Summary Wizard of 30 minute 30 year Summer I+0% for Surface Network 5

PN	US/MH Name	Status
7.000	S8135	OK
7.001	S8136	OK
7.002	S8137	OK
7.003	S8161	SURCHARGED
8.000	S8151	OK
7.004	S8162	SURCHARGED
7.005	S8152	SURCHARGED
9.000	S8144	OK
9.001	S8145	OK
7.006	S8146	OK
10.000	S8164	OK
7.007	S8147	OK
7.008	S8150	OK
7.009	S8149	OK
11.000	S5037	OK
11.001	S5038	OK
11.002	S5039	OK
12.000	S5040	OK
7.010	S5041	OK
7.011	S5042	OK
7.012	S5047	SURCHARGED
7.013	S5048 - Headwall	SURCHARGED
1.018	S5049 - Headwall	SURCHARGED
1.019	S5050 Control Chamber	OK

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Summary Wizard of 60 minute 30 year Summer I+0% for Surface Network 5

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.410
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.800	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 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)
1.000	S8142	12	96.828	-0.287	0.000	0.12		22.8
2.000	S8133	12	97.856	-0.204	0.000	0.22		38.3
1.001	S8134	12	96.308	-0.242	0.000	0.42		76.4
1.002	S8141	12	96.127	-0.318	0.000	0.31		95.7
1.003	S8139	12	95.919	-0.336	0.000	0.27		105.0
1.004	S8140	12	95.550	-0.295	0.000	0.37		133.4
1.005	S4008	12	95.507	-0.119	0.000	0.96		155.3
1.006	S4011	13	95.289	-0.300	0.000	0.38		167.3
1.007	S4012	14	95.049	-0.036	0.000	0.55		173.5
3.000	S8157	12	96.050	-0.330	0.000	0.03		8.8
3.001	S8159	13	95.289	-0.331	0.000	0.15		38.7
3.002	S8154	14	95.086	-0.254	0.000	0.37		57.7
3.003	S8155	14	94.997	-0.308	0.000	0.16		85.4
1.008	S5015	14	94.983	0.138	0.000	0.90		255.8
1.009	S5016	14	94.874	0.169	0.000	0.71		260.5
1.010	S5017 - PH4 Connection	14	94.762	0.287	0.000	1.38		283.9
4.000	S5018	12	95.156	-0.248	0.000	0.07		14.1
1.011	S5019	14	94.627	0.222	0.000	1.88		298.3
1.012	S5020 PH5 Connection	14	94.476	0.111	0.000	2.29		304.9
1.013	S5021	14	94.329	-0.001	0.000	0.51		308.9

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Summary Wizard of 60 minute 30 year Summer I+0% for Surface Network 5

PN	US/MH Name	Status
1.000	S8142	OK
2.000	S8133	OK
1.001	S8134	OK
1.002	S8141	OK
1.003	S8139	OK
1.004	S8140	OK
1.005	S4008	OK
1.006	S4011	OK
1.007	S4012	OK
3.000	S8157	OK
3.001	S8159	OK
3.002	S8154	OK
3.003	S8155	OK
1.008	S5015	SURCHARGED
1.009	S5016	SURCHARGED
1.010	S5017 - PH4 Connection	SURCHARGED
4.000	S5018	OK
1.011	S5019	SURCHARGED
1.012	S5020 PH5 Connection	SURCHARGED
1.013	S5021	OK

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Summary Wizard of 60 minute 30 year Summer I+0% for Surface Network 5

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)
5.000	S5023	14	94.309	-0.211	0.000	0.16		42.2
5.001	S5025	14	94.296	0.136	0.000	0.25		55.5
6.000	S5026	14	94.367	-0.225	0.000	0.14		14.8
6.001	S5027	14	94.297	0.162	0.000	0.32		42.2
5.002	S5028	14	94.283	0.267	0.000	0.60		103.0
1.014	S5029	14	94.266	0.296	0.000	1.51		398.1
1.015	S5030	14	94.194	0.267	0.000	2.22		401.1
1.016	S8121	15	94.138	0.236	0.000	2.22		412.8
1.017	S5036 - Headwall	18	94.077	-0.248	0.000	0.43		414.7
7.000	S8135	13	96.435	-0.184	0.000	0.33		46.2
7.001	S8136	14	96.411	-0.132	0.000	0.42		57.5
7.002	S8137	14	96.386	-0.088	0.000	0.51		68.8
7.003	S8161	14	96.357	-0.057	0.000	0.53		73.7
8.000	S8151	12	96.631	-0.196	0.000	0.26		39.0
7.004	S8162	14	96.324	-0.015	0.000	0.76		105.5
7.005	S8152	12	96.270	0.000	0.000	1.10		127.1
9.000	S8144	12	96.327	-0.223	0.000	0.15		11.9
9.001	S8145	12	96.108	-0.267	0.000	0.18		26.2
7.006	S8146	14	96.002	-0.227	0.000	0.47		156.9
10.000	S8164	12	95.720	-0.305	0.000	0.08		11.6
7.007	S8147	14	95.655	-0.225	0.000	0.48		174.1
7.008	S8150	14	95.245	-0.220	0.000	0.63		179.9
7.009	S8149	14	95.059	-0.206	0.000	0.68		227.2
11.000	S5037	12	95.234	-0.146	0.000	0.26		9.6
11.001	S5038	12	95.048	-0.186	0.000	0.30		18.3
11.002	S5039	12	94.973	-0.182	0.000	0.32		19.6
12.000	S5040	12	95.297	-0.085	0.000	0.68		26.3
7.010	S5041	13	94.901	-0.177	0.000	0.77		280.1
7.011	S5042	13	94.591	-0.264	0.000	0.49		289.4
7.012	S5047	14	94.168	0.148	0.000	0.68		282.0
7.013	S5048 - Headwall	18	94.090	0.140	0.000	0.93		281.8
1.018	S5049 - Headwall	20	94.040	0.090	0.000	1.30		655.4
1.019	S5050 Control Chamber	44	93.480	-0.420	0.000	0.02		11.6

PN	US/MH Name	Status
5.000	S5023	OK
5.001	S5025	SURCHARGED
6.000	S5026	OK
6.001	S5027	SURCHARGED
5.002	S5028	SURCHARGED
1.014	S5029	SURCHARGED
1.015	S5030	SURCHARGED
1.016	S8121	SURCHARGED
1.017	S5036 - Headwall	OK

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Summary Wizard of 60 minute 30 year Summer I+0% for Surface Network 5

PN	US/MH Name	Status
7.000	S8135	OK
7.001	S8136	OK
7.002	S8137	OK
7.003	S8161	OK
8.000	S8151	OK
7.004	S8162	OK
7.005	S8152	OK
9.000	S8144	OK
9.001	S8145	OK
7.006	S8146	OK
10.000	S8164	OK
7.007	S8147	OK
7.008	S8150	OK
7.009	S8149	OK
11.000	S5037	OK
11.001	S5038	OK
11.002	S5039	OK
12.000	S5040	OK
7.010	S5041	OK
7.011	S5042	OK
7.012	S5047	SURCHARGED
7.013	S5048 - Headwall	SURCHARGED
1.018	S5049 - Headwall	SURCHARGED
1.019	S5050 Control Chamber	OK

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Summary Wizard of 120 minute 30 year Summer I+0% for Surface Network 5

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.410
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.800	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 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)
1.000	S8142	19	96.810	-0.305	0.000	0.08		14.9
2.000	S8133	19	97.835	-0.225	0.000	0.14		24.9
1.001	S8134	19	96.260	-0.290	0.000	0.27		50.0
1.002	S8141	18	96.080	-0.365	0.000	0.20		62.0
1.003	S8139	18	95.877	-0.378	0.000	0.17		66.7
1.004	S8140	18	95.494	-0.351	0.000	0.24		85.6
1.005	S4008	18	95.402	-0.224	0.000	0.62		100.2
1.006	S4011	18	95.242	-0.347	0.000	0.25		108.4
1.007	S4012	18	94.787	-0.298	0.000	0.39		122.0
3.000	S8157	19	96.043	-0.337	0.000	0.02		5.7
3.001	S8159	18	95.263	-0.357	0.000	0.10		24.2
3.002	S8154	18	95.039	-0.301	0.000	0.24		37.1
3.003	S8155	18	94.894	-0.411	0.000	0.11		55.9
1.008	S5015	18	94.657	-0.188	0.000	0.66		188.3
1.009	S5016	18	94.579	-0.126	0.000	0.52		190.2
1.010	S5017 - PH4 Connection	18	94.523	0.048	0.000	1.01		208.6
4.000	S5018	19	95.144	-0.260	0.000	0.04		9.1
1.011	S5019	18	94.446	0.041	0.000	1.39		219.8
1.012	S5020 PH5 Connection	18	94.379	0.014	0.000	1.71		227.4
1.013	S5021	23	94.070	-0.260	0.000	0.39		235.9

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Summary Wizard of 120 minute 30 year Summer I+0% for Surface Network 5

PN	US/MH Name	Status
1.000	S8142	OK
2.000	S8133	OK
1.001	S8134	OK
1.002	S8141	OK
1.003	S8139	OK
1.004	S8140	OK
1.005	S4008	OK
1.006	S4011	OK
1.007	S4012	OK
3.000	S8157	OK
3.001	S8159	OK
3.002	S8154	OK
3.003	S8155	OK
1.008	S5015	OK
1.009	S5016	OK
1.010	S5017 - PH4 Connection	SURCHARGED
4.000	S5018	OK
1.011	S5019	SURCHARGED
1.012	S5020 PH5 Connection	SURCHARGED
1.013	S5021	OK

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Summary Wizard of 120 minute 30 year Summer I+0% for Surface Network 5

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)
5.000	S5023	19	94.168	-0.352	0.000	0.11		27.7
5.001	S5025	24	94.055	-0.105	0.000	0.19		41.2
6.000	S5026	19	94.352	-0.239	0.000	0.09		9.7
6.001	S5027	24	94.056	-0.079	0.000	0.22		28.5
5.002	S5028	24	94.043	0.027	0.000	0.44		74.8
1.014	S5029	26	94.028	0.058	0.000	1.18		311.8
1.015	S5030	30	93.980	0.053	0.000	1.74		315.6
1.016	S8121	31	93.939	0.037	0.000	1.75		325.9
1.017	S5036 - Headwall	31	93.895	-0.430	0.000	0.35		339.8
7.000	S8135	18	96.345	-0.274	0.000	0.22		30.7
7.001	S8136	18	96.301	-0.241	0.000	0.29		40.7
7.002	S8137	18	96.261	-0.213	0.000	0.37		50.2
7.003	S8161	18	96.223	-0.191	0.000	0.38		52.6
8.000	S8151	19	96.609	-0.218	0.000	0.17		25.1
7.004	S8162	18	96.187	-0.152	0.000	0.55		75.6
7.005	S8152	18	96.138	-0.132	0.000	0.81		93.1
9.000	S8144	19	96.312	-0.238	0.000	0.10		7.8
9.001	S8145	18	96.084	-0.291	0.000	0.11		16.6
7.006	S8146	18	95.966	-0.263	0.000	0.35		116.1
10.000	S8164	19	95.704	-0.321	0.000	0.05		7.5
7.007	S8147	18	95.618	-0.262	0.000	0.35		128.3
7.008	S8150	18	95.195	-0.270	0.000	0.45		129.6
7.009	S8149	18	95.006	-0.259	0.000	0.49		161.8
11.000	S5037	19	95.217	-0.163	0.000	0.17		6.3
11.001	S5038	18	95.022	-0.211	0.000	0.19		11.9
11.002	S5039	18	94.947	-0.209	0.000	0.20		12.5
12.000	S5040	19	95.263	-0.120	0.000	0.44		17.0
7.010	S5041	18	94.835	-0.243	0.000	0.54		195.7
7.011	S5042	18	94.547	-0.308	0.000	0.34		201.5
7.012	S5047	31	93.953	-0.067	0.000	0.48		201.3
7.013	S5048 - Headwall	31	93.906	-0.044	0.000	0.66		201.9
1.018	S5049 - Headwall	31	93.850	-0.100	0.000	1.00		503.3
1.019	S5050 Control Chamber	41	93.535	-0.365	0.000	0.02		11.9

PN	US/MH Name	Status
5.000	S5023	OK
5.001	S5025	OK
6.000	S5026	OK
6.001	S5027	OK
5.002	S5028	SURCHARGED
1.014	S5029	SURCHARGED
1.015	S5030	SURCHARGED
1.016	S8121	SURCHARGED
1.017	S5036 - Headwall	OK

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Summary Wizard of 120 minute 30 year Summer I+0% for Surface Network 5

PN	US/MH Name	Status
7.000	S8135	OK
7.001	S8136	OK
7.002	S8137	OK
7.003	S8161	OK
8.000	S8151	OK
7.004	S8162	OK
7.005	S8152	OK
9.000	S8144	OK
9.001	S8145	OK
7.006	S8146	OK
10.000	S8164	OK
7.007	S8147	OK
7.008	S8150	OK
7.009	S8149	OK
11.000	S5037	OK
11.001	S5038	OK
11.002	S5039	OK
12.000	S5040	OK
7.010	S5041	OK
7.011	S5042	OK
7.012	S5047	OK
7.013	S5048 - Headwall	OK
1.018	S5049 - Headwall	OK
1.019	S5050 Control Chamber	OK

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Summary Wizard of 180 minute 30 year Summer I+0% for Surface Network 5

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.410
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.800	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 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)
1.000	S8142	25	96.801	-0.314	0.000	0.06		11.7
2.000	S8133	25	97.826	-0.234	0.000	0.11		19.5
1.001	S8134	24	96.241	-0.309	0.000	0.21		39.1
1.002	S8141	24	96.060	-0.385	0.000	0.16		48.5
1.003	S8139	24	95.859	-0.396	0.000	0.13		51.9
1.004	S8140	24	95.474	-0.371	0.000	0.18		66.3
1.005	S4008	25	95.360	-0.266	0.000	0.48		77.2
1.006	S4011	25	95.221	-0.368	0.000	0.19		84.0
1.007	S4012	24	94.757	-0.328	0.000	0.30		95.0
3.000	S8157	25	96.036	-0.344	0.000	0.02		4.4
3.001	S8159	24	95.251	-0.369	0.000	0.07		19.0
3.002	S8154	24	95.022	-0.318	0.000	0.19		28.8
3.003	S8155	23	94.882	-0.423	0.000	0.08		43.4
1.008	S5015	23	94.596	-0.249	0.000	0.52		148.1
1.009	S5016	23	94.508	-0.197	0.000	0.41		152.1
1.010	S5017 - PH4 Connection	23	94.466	-0.009	0.000	0.81		168.1
4.000	S5018	25	95.140	-0.264	0.000	0.03		7.1
1.011	S5019	22	94.410	0.005	0.000	1.12		177.3
1.012	S5020 PH5 Connection	21	94.365	0.000	0.000	1.37		182.1
1.013	S5021	31	94.015	-0.315	0.000	0.32		189.8

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Summary Wizard of 180 minute 30 year Summer I+0% for Surface Network 5

PN	US/MH Name	Status
1.000	S8142	OK
2.000	S8133	OK
1.001	S8134	OK
1.002	S8141	OK
1.003	S8139	OK
1.004	S8140	OK
1.005	S4008	OK
1.006	S4011	OK
1.007	S4012	OK
3.000	S8157	OK
3.001	S8159	OK
3.002	S8154	OK
3.003	S8155	OK
1.008	S5015	OK
1.009	S5016	OK
1.010	S5017 - PH4 Connection	OK
4.000	S5018	OK
1.011	S5019	SURCHARGED
1.012	S5020 PH5 Connection	OK
1.013	S5021	OK

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Summary Wizard of 180 minute 30 year Summer I+0% for Surface Network 5

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)
5.000	S5023	25	94.158	-0.362	0.000	0.08		21.7
5.001	S5025	32	94.006	-0.154	0.000	0.14		31.3
6.000	S5026	25	94.344	-0.248	0.000	0.07		7.6
6.001	S5027	32	94.007	-0.128	0.000	0.16		21.0
5.002	S5028	32	93.995	-0.022	0.000	0.33		57.1
1.014	S5029	33	93.979	0.009	0.000	0.96		251.8
1.015	S5030	33	93.938	0.011	0.000	1.39		251.7
1.016	S8121	32	93.902	0.000	0.000	1.40		260.7
1.017	S5036 - Headwall	33	93.779	-0.546	0.000	0.28		269.6
7.000	S8135	25	96.317	-0.301	0.000	0.17		24.1
7.001	S8136	24	96.268	-0.275	0.000	0.23		31.8
7.002	S8137	24	96.221	-0.253	0.000	0.29		39.4
7.003	S8161	23	96.178	-0.236	0.000	0.30		42.4
8.000	S8151	25	96.599	-0.228	0.000	0.13		19.6
7.004	S8162	23	96.137	-0.202	0.000	0.44		61.2
7.005	S8152	23	96.086	-0.184	0.000	0.65		75.1
9.000	S8144	25	96.304	-0.246	0.000	0.07		6.1
9.001	S8145	24	96.075	-0.300	0.000	0.09		13.0
7.006	S8146	23	95.941	-0.288	0.000	0.28		92.5
10.000	S8164	25	95.698	-0.327	0.000	0.04		5.9
7.007	S8147	23	95.593	-0.287	0.000	0.28		102.2
7.008	S8150	22	95.160	-0.305	0.000	0.37		104.8
7.009	S8149	22	94.968	-0.297	0.000	0.39		129.7
11.000	S5037	25	95.209	-0.170	0.000	0.13		4.9
11.001	S5038	24	95.011	-0.222	0.000	0.15		9.3
11.002	S5039	24	94.936	-0.220	0.000	0.16		9.7
12.000	S5040	25	95.250	-0.133	0.000	0.35		13.3
7.010	S5041	22	94.794	-0.284	0.000	0.43		156.2
7.011	S5042	23	94.517	-0.338	0.000	0.28		161.4
7.012	S5047	33	93.812	-0.208	0.000	0.39		163.9
7.013	S5048 - Headwall	33	93.773	-0.177	0.000	0.53		161.0
1.018	S5049 - Headwall	33	93.727	-0.223	0.000	0.83		419.7
1.019	S5050 Control Chamber	39	93.564	-0.336	0.000	0.02		12.1

PN	US/MH Name	Status
5.000	S5023	OK
5.001	S5025	OK
6.000	S5026	OK
6.001	S5027	OK
5.002	S5028	OK
1.014	S5029	SURCHARGED
1.015	S5030	SURCHARGED
1.016	S8121	OK
1.017	S5036 - Headwall	OK

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Summary Wizard of 180 minute 30 year Summer I+0% for Surface Network 5

PN	US/MH Name	Status
7.000	S8135	OK
7.001	S8136	OK
7.002	S8137	OK
7.003	S8161	OK
8.000	S8151	OK
7.004	S8162	OK
7.005	S8152	OK
9.000	S8144	OK
9.001	S8145	OK
7.006	S8146	OK
10.000	S8164	OK
7.007	S8147	OK
7.008	S8150	OK
7.009	S8149	OK
11.000	S5037	OK
11.001	S5038	OK
11.002	S5039	OK
12.000	S5040	OK
7.010	S5041	OK
7.011	S5042	OK
7.012	S5047	OK
7.013	S5048 - Headwall	OK
1.018	S5049 - Headwall	OK
1.019	S5050 Control Chamber	OK

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Summary Wizard of 240 minute 30 year Summer I+0% for Surface Network 5

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.410
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.800	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 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	S8142	29		96.794	-0.321	0.000	0.05		9.4	OK
2.000	S8133	29		97.820	-0.240	0.000	0.09		15.7	OK
1.001	S8134	29		96.225	-0.325	0.000	0.17		31.6	OK
1.002	S8141	29		96.045	-0.400	0.000	0.13		39.3	OK
1.003	S8139	28		95.846	-0.409	0.000	0.11		42.4	OK
1.004	S8140	28		95.456	-0.389	0.000	0.15		54.3	OK
1.005	S4008	28		95.329	-0.297	0.000	0.39		63.6	OK
1.006	S4011	28		95.203	-0.386	0.000	0.16		68.9	OK
1.007	S4012	28		94.736	-0.349	0.000	0.25		77.7	OK
3.000	S8157	29		96.030	-0.350	0.000	0.01		3.6	OK
3.001	S8159	28		95.241	-0.379	0.000	0.06		15.3	OK
3.002	S8154	28		95.006	-0.334	0.000	0.15		23.4	OK
3.003	S8155	28		94.869	-0.436	0.000	0.07		35.3	OK
1.008	S5015	29		94.563	-0.282	0.000	0.43		121.1	OK
1.009	S5016	29		94.477	-0.228	0.000	0.33		119.6	OK
1.010	S5017 - PH4 Connection	29		94.444	-0.031	0.000	0.64		132.3	OK
4.000	S5018	29		95.137	-0.267	0.000	0.03		5.7	OK
1.011	S5019	24		94.405	0.000	0.000	0.88		139.4	OK
1.012	S5020 PH5 Connection	23		94.365	0.000	0.000	1.07		142.8	OK
1.013	S5021	34		93.972	-0.358	0.000	0.25		148.1	OK

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Summary Wizard of 240 minute 30 year Summer I+0% for Surface Network 5

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
5.000	S5023	30	94.146	-0.374	0.000	0.07		17.5	OK
5.001	S5025	34	93.961	-0.199	0.000	0.11		25.5	OK
6.000	S5026	29	94.338	-0.254	0.000	0.06		6.1	OK
6.001	S5027	34	93.962	-0.173	0.000	0.14		17.9	OK
5.002	S5028	34	93.952	-0.064	0.000	0.26		44.8	OK
1.014	S5029	34	93.941	-0.029	0.000	0.73		192.0	OK
1.015	S5030	34	93.890	-0.037	0.000	1.06		192.2	OK
1.016	S8121	34	93.838	-0.063	0.000	1.07		199.0	OK
1.017	S5036 - Headwall	34	93.704	-0.621	0.000	0.21		208.2	OK
7.000	S8135	28	96.299	-0.319	0.000	0.14		19.5	OK
7.001	S8136	28	96.246	-0.297	0.000	0.19		26.0	OK
7.002	S8137	28	96.197	-0.277	0.000	0.24		32.4	OK
7.003	S8161	28	96.152	-0.262	0.000	0.24		34.3	OK
8.000	S8151	29	96.591	-0.235	0.000	0.11		15.8	OK
7.004	S8162	28	96.108	-0.231	0.000	0.36		49.5	OK
7.005	S8152	28	96.056	-0.214	0.000	0.53		61.0	OK
9.000	S8144	29	96.297	-0.253	0.000	0.06		4.9	OK
9.001	S8145	28	96.066	-0.309	0.000	0.07		10.5	OK
7.006	S8146	28	95.925	-0.304	0.000	0.23		75.7	OK
10.000	S8164	29	95.694	-0.332	0.000	0.03		4.7	OK
7.007	S8147	28	95.577	-0.303	0.000	0.23		83.6	OK
7.008	S8150	28	95.138	-0.327	0.000	0.30		85.1	OK
7.009	S8149	29	94.946	-0.319	0.000	0.32		106.2	OK
11.000	S5037	29	95.204	-0.176	0.000	0.11		4.0	OK
11.001	S5038	29	95.003	-0.231	0.000	0.12		7.5	OK
11.002	S5039	28	94.927	-0.229	0.000	0.13		7.9	OK
12.000	S5040	29	95.239	-0.144	0.000	0.28		10.8	OK
7.010	S5041	29	94.770	-0.308	0.000	0.35		127.9	OK
7.011	S5042	29	94.500	-0.355	0.000	0.23		132.0	OK
7.012	S5047	34	93.734	-0.286	0.000	0.32		134.5	OK
7.013	S5048 - Headwall	34	93.702	-0.248	0.000	0.44		135.0	OK
1.018	S5049 - Headwall	40	93.650	-0.300	0.000	0.67		336.6	OK
1.019	S5050 Control Chamber	37	93.584	-0.316	0.000	0.02		12.1	OK

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Summary Wizard of 360 minute 30 year Summer I+0% for Surface Network 5

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.410
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.800	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 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	S8142	37		96.786	-0.329	0.000	0.04		6.9	OK
2.000	S8133	37		97.810	-0.250	0.000	0.07		11.5	OK
1.001	S8134	37		96.206	-0.344	0.000	0.13		23.1	OK
1.002	S8141	37		96.028	-0.417	0.000	0.09		28.8	OK
1.003	S8139	37		95.829	-0.426	0.000	0.08		31.1	OK
1.004	S8140	37		95.436	-0.409	0.000	0.11		39.8	OK
1.005	S4008	37		95.292	-0.334	0.000	0.29		46.7	OK
1.006	S4011	37		95.183	-0.406	0.000	0.12		50.7	OK
1.007	S4012	37		94.710	-0.375	0.000	0.18		57.3	OK
3.000	S8157	37		96.023	-0.357	0.000	0.01		2.6	OK
3.001	S8159	37		95.230	-0.390	0.000	0.04		11.2	OK
3.002	S8154	37		94.989	-0.351	0.000	0.11		17.1	OK
3.003	S8155	37		94.855	-0.450	0.000	0.05		25.8	OK
1.008	S5015	37		94.522	-0.323	0.000	0.32		89.6	OK
1.009	S5016	37		94.357	-0.348	0.000	0.25		91.8	OK
1.010	S5017 - PH4 Connection	37		94.283	-0.192	0.000	0.49		101.5	OK
4.000	S5018	37		95.133	-0.271	0.000	0.02		4.2	OK
1.011	S5019	37		94.244	-0.161	0.000	0.67		106.8	OK
1.012	S5020 PH5 Connection	37		94.207	-0.158	0.000	0.82		109.2	OK
1.013	S5021	43		93.908	-0.422	0.000	0.19		114.4	OK

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Summary Wizard of 360 minute 30 year Summer I+0% for Surface Network 5

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
5.000	S5023	39	94.134	-0.386	0.000	0.05		12.8	OK
5.001	S5025	43	93.829	-0.331	0.000	0.09		19.6	OK
6.000	S5026	37	94.331	-0.261	0.000	0.04		4.5	OK
6.001	S5027	43	93.850	-0.285	0.000	0.10		13.4	OK
5.002	S5028	43	93.812	-0.205	0.000	0.21		35.1	OK
1.014	S5029	43	93.802	-0.168	0.000	0.58		152.0	OK
1.015	S5030	43	93.762	-0.165	0.000	0.85		154.2	OK
1.016	S8121	43	93.713	-0.189	0.000	0.86		159.8	OK
1.017	S5036 - Headwall	49	93.641	-0.684	0.000	0.17		167.9	OK
7.000	S8135	37	96.276	-0.342	0.000	0.10		14.3	OK
7.001	S8136	37	96.220	-0.323	0.000	0.14		19.2	OK
7.002	S8137	37	96.167	-0.307	0.000	0.18		24.0	OK
7.003	S8161	37	96.118	-0.295	0.000	0.18		25.6	OK
8.000	S8151	37	96.582	-0.245	0.000	0.08		11.5	OK
7.004	S8162	37	96.071	-0.268	0.000	0.27		37.1	OK
7.005	S8152	37	96.017	-0.253	0.000	0.40		45.8	OK
9.000	S8144	37	96.290	-0.260	0.000	0.04		3.6	OK
9.001	S8145	37	96.055	-0.320	0.000	0.05		7.7	OK
7.006	S8146	37	95.903	-0.326	0.000	0.17		56.7	OK
10.000	S8164	37	95.689	-0.336	0.000	0.02		3.4	OK
7.007	S8147	37	95.555	-0.325	0.000	0.17		62.6	OK
7.008	S8150	37	95.108	-0.357	0.000	0.22		64.1	OK
7.009	S8149	37	94.914	-0.351	0.000	0.24		79.9	OK
11.000	S5037	37	95.196	-0.183	0.000	0.08		2.9	OK
11.001	S5038	37	94.993	-0.240	0.000	0.09		5.5	OK
11.002	S5039	37	94.917	-0.239	0.000	0.09		5.8	OK
12.000	S5040	37	95.227	-0.156	0.000	0.21		7.9	OK
7.010	S5041	37	94.736	-0.342	0.000	0.27		96.0	OK
7.011	S5042	37	94.475	-0.380	0.000	0.17		99.0	OK
7.012	S5047	46	93.683	-0.337	0.000	0.24		101.2	OK
7.013	S5048 - Headwall	49	93.638	-0.312	0.000	0.33		99.9	OK
1.018	S5049 - Headwall	51	93.607	-0.343	0.000	0.53		266.5	OK
1.019	S5050 Control Chamber	36	93.606	-0.294	0.000	0.02		12.2	OK

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Summary Wizard of 480 minute 30 year Summer I+0% for Surface Network 5

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.410
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.800	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 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	S8142	41	96.782	-0.333	0.000	0.03		5.5	OK
2.000	S8133	41	97.804	-0.256	0.000	0.05		9.2	OK
1.001	S8134	41	96.195	-0.355	0.000	0.10		18.5	OK
1.002	S8141	41	96.015	-0.430	0.000	0.08		23.0	OK
1.003	S8139	41	95.816	-0.439	0.000	0.06		24.9	OK
1.004	S8140	41	95.425	-0.420	0.000	0.09		31.8	OK
1.005	S4008	41	95.271	-0.355	0.000	0.23		37.3	OK
1.006	S4011	41	95.171	-0.418	0.000	0.09		40.5	OK
1.007	S4012	41	94.692	-0.393	0.000	0.14		45.8	OK
3.000	S8157	41	96.019	-0.361	0.000	0.01		2.1	OK
3.001	S8159	41	95.224	-0.396	0.000	0.04		8.9	OK
3.002	S8154	41	94.980	-0.360	0.000	0.09		13.6	OK
3.003	S8155	41	94.847	-0.458	0.000	0.04		20.6	OK
1.008	S5015	41	94.498	-0.347	0.000	0.25		71.5	OK
1.009	S5016	41	94.339	-0.366	0.000	0.20		73.3	OK
1.010	S5017 - PH4 Connection	41	94.232	-0.243	0.000	0.39		81.3	OK
4.000	S5018	41	95.127	-0.277	0.000	0.02		3.3	OK
1.011	S5019	41	94.191	-0.214	0.000	0.54		85.8	OK
1.012	S5020 PH5 Connection	41	94.153	-0.212	0.000	0.66		88.1	OK
1.013	S5021	45	93.886	-0.444	0.000	0.15		92.2	OK

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Summary Wizard of 480 minute 30 year Summer I+0% for Surface Network 5

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
5.000	S5023	43	94.127	-0.393	0.000	0.04		10.2	OK
5.001	S5025	45	93.793	-0.367	0.000	0.07		15.8	OK
6.000	S5026	41	94.327	-0.265	0.000	0.03		3.6	OK
6.001	S5027	45	93.831	-0.304	0.000	0.08		10.7	OK
5.002	S5028	45	93.746	-0.271	0.000	0.17		28.7	OK
1.014	S5029	45	93.737	-0.234	0.000	0.47		123.6	OK
1.015	S5030	45	93.699	-0.228	0.000	0.69		123.9	OK
1.016	S8121	51	93.653	-0.249	0.000	0.69		127.7	OK
1.017	S5036 - Headwall	54	93.619	-0.706	0.000	0.14		134.9	OK
7.000	S8135	41	96.264	-0.354	0.000	0.08		11.4	OK
7.001	S8136	41	96.204	-0.338	0.000	0.11		15.3	OK
7.002	S8137	41	96.150	-0.324	0.000	0.14		19.2	OK
7.003	S8161	41	96.100	-0.314	0.000	0.15		20.5	OK
8.000	S8151	41	96.575	-0.252	0.000	0.06		9.2	OK
7.004	S8162	41	96.049	-0.291	0.000	0.21		29.7	OK
7.005	S8152	41	95.994	-0.276	0.000	0.32		36.7	OK
9.000	S8144	41	96.286	-0.264	0.000	0.04		2.9	OK
9.001	S8145	41	96.049	-0.326	0.000	0.04		6.1	OK
7.006	S8146	41	95.889	-0.340	0.000	0.14		45.4	OK
10.000	S8164	41	95.683	-0.342	0.000	0.02		2.8	OK
7.007	S8147	41	95.541	-0.339	0.000	0.14		50.1	OK
7.008	S8150	41	95.089	-0.376	0.000	0.18		51.4	OK
7.009	S8149	41	94.896	-0.369	0.000	0.19		64.0	OK
11.000	S5037	41	95.191	-0.189	0.000	0.06		2.3	OK
11.001	S5038	41	94.986	-0.248	0.000	0.07		4.4	OK
11.002	S5039	41	94.910	-0.246	0.000	0.07		4.6	OK
12.000	S5040	41	95.218	-0.164	0.000	0.16		6.3	OK
7.010	S5041	41	94.717	-0.361	0.000	0.21		76.9	OK
7.011	S5042	41	94.458	-0.397	0.000	0.14		79.4	OK
7.012	S5047	51	93.652	-0.368	0.000	0.19		81.2	OK
7.013	S5048 - Headwall	53	93.620	-0.330	0.000	0.26		80.6	OK
1.018	S5049 - Headwall	48	93.619	-0.331	0.000	0.43		215.5	OK
1.019	S5050 Control Chamber	33	93.618	-0.282	0.000	0.02		12.2	OK

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Summary Wizard of 600 minute 30 year Summer I+0% for Surface Network 5

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.410
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.800	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 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	S8142	46	96.779	-0.336	0.000	0.02		4.6	OK
2.000	S8133	46	97.800	-0.260	0.000	0.04		7.7	OK
1.001	S8134	46	96.188	-0.362	0.000	0.08		15.5	OK
1.002	S8141	46	96.005	-0.440	0.000	0.06		19.3	OK
1.003	S8139	46	95.808	-0.447	0.000	0.05		20.9	OK
1.004	S8140	46	95.414	-0.431	0.000	0.07		26.7	OK
1.005	S4008	46	95.256	-0.370	0.000	0.19		31.3	OK
1.006	S4011	46	95.161	-0.428	0.000	0.08		34.0	OK
1.007	S4012	46	94.681	-0.404	0.000	0.12		38.4	OK
3.000	S8157	46	96.017	-0.363	0.000	0.01		1.8	OK
3.001	S8159	46	95.221	-0.399	0.000	0.03		7.5	OK
3.002	S8154	46	94.970	-0.370	0.000	0.07		11.5	OK
3.003	S8155	46	94.842	-0.463	0.000	0.03		17.3	OK
1.008	S5015	46	94.483	-0.362	0.000	0.21		60.1	OK
1.009	S5016	46	94.323	-0.382	0.000	0.17		61.5	OK
1.010	S5017 - PH4 Connection	46	94.201	-0.274	0.000	0.33		68.3	OK
4.000	S5018	46	95.123	-0.281	0.000	0.01		2.8	OK
1.011	S5019	46	94.158	-0.247	0.000	0.46		72.2	OK
1.012	S5020 PH5 Connection	48	94.120	-0.245	0.000	0.56		74.3	OK
1.013	S5021	49	93.873	-0.457	0.000	0.13		77.9	OK

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Summary Wizard of 600 minute 30 year Summer I+0% for Surface Network 5

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
5.000	S5023	48	94.123	-0.397	0.000	0.03		8.6	OK
5.001	S5025	49	93.781	-0.379	0.000	0.06		13.3	OK
6.000	S5026	46	94.325	-0.267	0.000	0.03		3.0	OK
6.001	S5027	49	93.824	-0.311	0.000	0.07		9.0	OK
5.002	S5028	48	93.707	-0.310	0.000	0.14		24.3	OK
1.014	S5029	49	93.695	-0.275	0.000	0.40		105.1	OK
1.015	S5030	54	93.660	-0.267	0.000	0.58		105.7	OK
1.016	S8121	53	93.626	-0.275	0.000	0.59		109.4	OK
1.017	S5036 - Headwall	51	93.625	-0.700	0.000	0.12		113.7	OK
7.000	S8135	46	96.256	-0.363	0.000	0.07		9.6	OK
7.001	S8136	46	96.194	-0.349	0.000	0.09		12.9	OK
7.002	S8137	46	96.137	-0.337	0.000	0.12		16.1	OK
7.003	S8161	46	96.086	-0.328	0.000	0.12		17.2	OK
8.000	S8151	46	96.570	-0.256	0.000	0.05		7.7	OK
7.004	S8162	46	96.034	-0.306	0.000	0.18		24.9	OK
7.005	S8152	46	95.978	-0.292	0.000	0.27		30.8	OK
9.000	S8144	46	96.284	-0.266	0.000	0.03		2.4	OK
9.001	S8145	46	96.045	-0.330	0.000	0.04		5.2	OK
7.006	S8146	46	95.880	-0.349	0.000	0.11		38.1	OK
10.000	S8164	46	95.678	-0.348	0.000	0.02		2.3	OK
7.007	S8147	46	95.531	-0.349	0.000	0.12		42.2	OK
7.008	S8150	46	95.075	-0.390	0.000	0.15		43.3	OK
7.009	S8149	46	94.881	-0.384	0.000	0.16		53.9	OK
11.000	S5037	46	95.188	-0.192	0.000	0.05		2.0	OK
11.001	S5038	46	94.980	-0.253	0.000	0.06		3.7	OK
11.002	S5039	46	94.904	-0.251	0.000	0.06		3.9	OK
12.000	S5040	46	95.213	-0.170	0.000	0.14		5.3	OK
7.010	S5041	46	94.702	-0.376	0.000	0.18		64.8	OK
7.011	S5042	46	94.448	-0.407	0.000	0.11		67.0	OK
7.012	S5047	54	93.637	-0.383	0.000	0.16		68.6	OK
7.013	S5048 - Headwall	51	93.626	-0.324	0.000	0.22		68.4	OK
1.018	S5049 - Headwall	46	93.625	-0.325	0.000	0.36		180.2	OK
1.019	S5050 Control Chamber	31	93.624	-0.276	0.000	0.02		12.2	OK

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Summary Wizard of 720 minute 30 year Summer I+0% for Surface Network 5

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.410
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.800	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 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	S8142	51	96.778	-0.337	0.000	0.02		4.0	OK
2.000	S8133	51	97.797	-0.263	0.000	0.04		6.7	OK
1.001	S8134	51	96.180	-0.370	0.000	0.07		13.4	OK
1.002	S8141	51	95.999	-0.446	0.000	0.05		16.7	OK
1.003	S8139	51	95.803	-0.452	0.000	0.05		18.1	OK
1.004	S8140	51	95.406	-0.439	0.000	0.06		23.2	OK
1.005	S4008	51	95.244	-0.382	0.000	0.17		27.1	OK
1.006	S4011	51	95.153	-0.436	0.000	0.07		29.4	OK
1.007	S4012	51	94.673	-0.412	0.000	0.11		33.3	OK
3.000	S8157	51	96.015	-0.365	0.000	0.01		1.5	OK
3.001	S8159	51	95.218	-0.402	0.000	0.03		6.5	OK
3.002	S8154	51	94.964	-0.376	0.000	0.06		9.9	OK
3.003	S8155	51	94.838	-0.467	0.000	0.03		15.0	OK
1.008	S5015	51	94.471	-0.374	0.000	0.18		52.0	OK
1.009	S5016	51	94.312	-0.393	0.000	0.14		53.3	OK
1.010	S5017 - PH4 Connection	51	94.179	-0.296	0.000	0.29		59.2	OK
4.000	S5018	51	95.121	-0.283	0.000	0.01		2.4	OK
1.011	S5019	52	94.135	-0.270	0.000	0.39		62.6	OK
1.012	S5020 PH5 Connection	52	94.097	-0.268	0.000	0.48		64.4	OK
1.013	S5021	52	93.863	-0.467	0.000	0.11		67.5	OK

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Summary Wizard of 720 minute 30 year Summer I+0% for Surface Network 5

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
5.000	S5023	52	94.120	-0.400	0.000	0.03		7.4	OK
5.001	S5025	52	93.776	-0.384	0.000	0.05		11.5	OK
6.000	S5026	51	94.323	-0.269	0.000	0.02		2.6	OK
6.001	S5027	52	93.819	-0.316	0.000	0.06		7.8	OK
5.002	S5028	55	93.679	-0.337	0.000	0.12		21.1	OK
1.014	S5029	55	93.665	-0.305	0.000	0.35		91.3	OK
1.015	S5030	55	93.631	-0.296	0.000	0.51		91.9	OK
1.016	S8121	52	93.629	-0.272	0.000	0.51		95.2	OK
1.017	S5036 - Headwall	50	93.629	-0.696	0.000	0.10		99.5	OK
7.000	S8135	51	96.248	-0.370	0.000	0.06		8.3	OK
7.001	S8136	51	96.187	-0.356	0.000	0.08		11.1	OK
7.002	S8137	51	96.129	-0.345	0.000	0.10		14.0	OK
7.003	S8161	51	96.076	-0.338	0.000	0.11		14.9	OK
8.000	S8151	51	96.567	-0.259	0.000	0.04		6.7	OK
7.004	S8162	51	96.023	-0.316	0.000	0.16		21.6	OK
7.005	S8152	51	95.966	-0.304	0.000	0.23		26.7	OK
9.000	S8144	51	96.282	-0.268	0.000	0.03		2.1	OK
9.001	S8145	51	96.043	-0.332	0.000	0.03		4.5	OK
7.006	S8146	51	95.873	-0.356	0.000	0.10		33.1	OK
10.000	S8164	51	95.674	-0.351	0.000	0.01		2.0	OK
7.007	S8147	51	95.525	-0.355	0.000	0.10		36.5	OK
7.008	S8150	51	95.066	-0.399	0.000	0.13		37.5	OK
7.009	S8149	51	94.870	-0.395	0.000	0.14		46.8	OK
11.000	S5037	51	95.185	-0.194	0.000	0.05		1.7	OK
11.001	S5038	51	94.977	-0.256	0.000	0.05		3.2	OK
11.002	S5039	51	94.901	-0.255	0.000	0.05		3.4	OK
12.000	S5040	51	95.209	-0.174	0.000	0.12		4.6	OK
7.010	S5041	51	94.690	-0.388	0.000	0.16		56.2	OK
7.011	S5042	51	94.440	-0.415	0.000	0.10		58.1	OK
7.012	S5047	55	93.630	-0.390	0.000	0.14		59.5	OK
7.013	S5048 - Headwall	50	93.629	-0.321	0.000	0.20		59.4	OK
1.018	S5049 - Headwall	44	93.628	-0.322	0.000	0.31		157.8	OK
1.019	S5050 Control Chamber	29	93.627	-0.273	0.000	0.02		12.2	OK

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Summary Wizard of 960 minute 30 year Summer I+0% for Surface Network 5

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.410
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.800	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 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	S8142	54		96.770	-0.345	0.000	0.02		3.2	OK
2.000	S8133	54		97.794	-0.266	0.000	0.03		5.3	OK
1.001	S8134	54		96.170	-0.380	0.000	0.06		10.7	OK
1.002	S8141	54		95.990	-0.455	0.000	0.04		13.4	OK
1.003	S8139	54		95.795	-0.460	0.000	0.04		14.4	OK
1.004	S8140	54		95.396	-0.449	0.000	0.05		18.5	OK
1.005	S4008	54		95.228	-0.398	0.000	0.13		21.6	OK
1.006	S4011	54		95.142	-0.447	0.000	0.05		23.5	OK
1.007	S4012	54		94.661	-0.424	0.000	0.08		26.5	OK
3.000	S8157	54		96.013	-0.367	0.000	0.00		1.2	OK
3.001	S8159	54		95.213	-0.407	0.000	0.02		5.2	OK
3.002	S8154	54		94.955	-0.385	0.000	0.05		7.9	OK
3.003	S8155	54		94.834	-0.471	0.000	0.02		11.9	OK
1.008	S5015	54		94.453	-0.392	0.000	0.15		41.5	OK
1.009	S5016	54		94.298	-0.407	0.000	0.12		42.5	OK
1.010	S5017 - PH4 Connection	55		94.150	-0.325	0.000	0.23		47.2	OK
4.000	S5018	54		95.117	-0.287	0.000	0.01		1.9	OK
1.011	S5019	55		94.104	-0.301	0.000	0.31		49.9	OK
1.012	S5020 PH5 Connection	55		94.065	-0.300	0.000	0.39		51.4	OK
1.013	S5021	55		93.851	-0.479	0.000	0.09		53.9	OK

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Summary Wizard of 960 minute 30 year Summer I+0% for Surface Network 5

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
5.000	S5023	55	94.116	-0.404	0.000	0.02		5.9	OK
5.001	S5025	55	93.769	-0.391	0.000	0.04		9.2	OK
6.000	S5026	54	94.319	-0.273	0.000	0.02		2.1	OK
6.001	S5027	55	93.812	-0.323	0.000	0.05		6.2	OK
5.002	S5028	58	93.643	-0.373	0.000	0.10		16.8	OK
1.014	S5029	58	93.628	-0.342	0.000	0.28		72.8	OK
1.015	S5030	57	93.627	-0.300	0.000	0.41		73.4	OK
1.016	S8121	54	93.626	-0.276	0.000	0.41		76.0	OK
1.017	S5036 - Headwall	52	93.625	-0.700	0.000	0.08		79.7	OK
7.000	S8135	54	96.238	-0.380	0.000	0.05		6.6	OK
7.001	S8136	54	96.176	-0.367	0.000	0.06		8.9	OK
7.002	S8137	54	96.117	-0.356	0.000	0.08		11.1	OK
7.003	S8161	54	96.063	-0.351	0.000	0.08		11.9	OK
8.000	S8151	54	96.563	-0.264	0.000	0.04		5.4	OK
7.004	S8162	54	96.007	-0.332	0.000	0.12		17.2	OK
7.005	S8152	54	95.950	-0.320	0.000	0.19		21.3	OK
9.000	S8144	54	96.279	-0.271	0.000	0.02		1.7	OK
9.001	S8145	54	96.039	-0.336	0.000	0.02		3.6	OK
7.006	S8146	54	95.863	-0.366	0.000	0.08		26.4	OK
10.000	S8164	54	95.669	-0.356	0.000	0.01		1.6	OK
7.007	S8147	54	95.514	-0.366	0.000	0.08		29.1	OK
7.008	S8150	54	95.053	-0.412	0.000	0.10		29.9	OK
7.009	S8149	54	94.857	-0.408	0.000	0.11		37.3	OK
11.000	S5037	54	95.182	-0.197	0.000	0.04		1.3	OK
11.001	S5038	54	94.972	-0.261	0.000	0.04		2.5	OK
11.002	S5039	54	94.896	-0.260	0.000	0.04		2.7	OK
12.000	S5040	54	95.204	-0.179	0.000	0.10		3.7	OK
7.010	S5041	54	94.675	-0.403	0.000	0.12		44.8	OK
7.011	S5042	54	94.428	-0.427	0.000	0.08		46.3	OK
7.012	S5047	57	93.625	-0.395	0.000	0.11		47.5	OK
7.013	S5048 - Headwall	52	93.624	-0.326	0.000	0.16		47.4	OK
1.018	S5049 - Headwall	47	93.624	-0.326	0.000	0.25		125.4	OK
1.019	S5050 Control Chamber	32	93.623	-0.277	0.000	0.02		12.2	OK

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Summary Wizard of 1440 minute 30 year Summer I+0% for Surface Network 5

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.410
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.800	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 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	S8142	62		96.762	-0.353	0.000	0.01		2.3	OK
2.000	S8133	62		97.790	-0.270	0.000	0.02		3.9	OK
1.001	S8134	62		96.159	-0.391	0.000	0.04		7.8	OK
1.002	S8141	62		95.981	-0.464	0.000	0.03		9.7	OK
1.003	S8139	62		95.787	-0.468	0.000	0.03		10.5	OK
1.004	S8140	62		95.385	-0.460	0.000	0.04		13.4	OK
1.005	S4008	62		95.210	-0.416	0.000	0.10		15.7	OK
1.006	S4011	62		95.131	-0.458	0.000	0.04		17.0	OK
1.007	S4012	62		94.643	-0.442	0.000	0.06		19.3	OK
3.000	S8157	62		96.011	-0.369	0.000	0.00		0.9	OK
3.001	S8159	62		95.202	-0.418	0.000	0.01		3.8	OK
3.002	S8154	62		94.946	-0.394	0.000	0.04		5.7	OK
3.003	S8155	62		94.821	-0.484	0.000	0.02		8.7	OK
1.008	S5015	62		94.434	-0.411	0.000	0.11		30.1	OK
1.009	S5016	62		94.281	-0.424	0.000	0.08		30.9	OK
1.010	S5017 - PH4 Connection	61		94.116	-0.359	0.000	0.17		34.3	OK
4.000	S5018	62		95.114	-0.290	0.000	0.01		1.4	OK
1.011	S5019	61		94.067	-0.338	0.000	0.23		36.2	OK
1.012	S5020 PH5 Connection	61		94.028	-0.337	0.000	0.28		37.3	OK
1.013	S5021	61		93.829	-0.501	0.000	0.07		39.1	OK

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Summary Wizard of 1440 minute 30 year Summer I+0% for Surface Network 5

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
5.000	S5023	62	94.106	-0.414	0.000	0.02		4.3	OK
5.001	S5025	62	93.761	-0.399	0.000	0.03		6.7	OK
6.000	S5026	62	94.312	-0.280	0.000	0.01		1.5	OK
6.001	S5027	62	93.805	-0.330	0.000	0.03		4.5	OK
5.002	S5028	61	93.622	-0.394	0.000	0.07		12.2	OK
1.014	S5029	59	93.622	-0.348	0.000	0.20		52.9	OK
1.015	S5030	58	93.621	-0.306	0.000	0.29		53.2	OK
1.016	S8121	56	93.620	-0.282	0.000	0.30		55.1	OK
1.017	S5036 - Headwall	53	93.619	-0.706	0.000	0.06		57.8	OK
7.000	S8135	62	96.227	-0.392	0.000	0.03		4.8	OK
7.001	S8136	62	96.162	-0.381	0.000	0.05		6.5	OK
7.002	S8137	62	96.102	-0.372	0.000	0.06		8.1	OK
7.003	S8161	62	96.047	-0.367	0.000	0.06		8.6	OK
8.000	S8151	62	96.559	-0.268	0.000	0.03		3.9	OK
7.004	S8162	62	95.988	-0.351	0.000	0.09		12.5	OK
7.005	S8152	62	95.929	-0.341	0.000	0.13		15.5	OK
9.000	S8144	62	96.271	-0.279	0.000	0.01		1.2	OK
9.001	S8145	62	96.031	-0.344	0.000	0.02		2.6	OK
7.006	S8146	62	95.848	-0.381	0.000	0.06		19.1	OK
10.000	S8164	62	95.664	-0.361	0.000	0.01		1.2	OK
7.007	S8147	62	95.500	-0.380	0.000	0.06		21.2	OK
7.008	S8150	62	95.035	-0.430	0.000	0.08		21.7	OK
7.009	S8149	61	94.840	-0.425	0.000	0.08		27.1	OK
11.000	S5037	62	95.179	-0.201	0.000	0.03		1.0	OK
11.001	S5038	62	94.967	-0.266	0.000	0.03		1.8	OK
11.002	S5039	62	94.890	-0.265	0.000	0.03		2.0	OK
12.000	S5040	62	95.196	-0.186	0.000	0.07		2.7	OK
7.010	S5041	61	94.659	-0.419	0.000	0.09		32.5	OK
7.011	S5042	61	94.411	-0.444	0.000	0.06		33.6	OK
7.012	S5047	59	93.620	-0.400	0.000	0.08		34.5	OK
7.013	S5048 - Headwall	54	93.619	-0.331	0.000	0.11		34.4	OK
1.018	S5049 - Headwall	49	93.619	-0.331	0.000	0.18		90.2	OK
1.019	S5050 Control Chamber	34	93.618	-0.282	0.000	0.02		12.2	OK

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Summary Wizard of 15 minute 100 year Summer I+40% for Surface Network 5

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.410
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.800	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 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)
1.000	S8142	3	97.899	0.784	0.000	0.33		62.4
2.000	S8133	2	98.197	0.137	0.000	0.61		108.0
1.001	S8134	3	97.856	1.306	0.000	0.97		177.0
1.002	S8141	3	97.808	1.363	0.000	0.71		216.0
1.003	S8139	3	97.744	1.489	0.000	0.50		192.1
1.004	S8140	3	97.649	1.804	0.000	0.60		214.0
1.005	S4008	3	97.593	1.967	0.000	1.56		252.9
1.006	S4011	4	97.506	1.917	0.000	0.59		257.9
1.007	S4012	4	97.318	2.233	5.044	0.88		279.9
3.000	S8157	2	97.295	0.915	0.000	0.09		23.2
3.001	S8159	2	97.272	1.652	0.000	0.37		94.6
3.002	S8154	4	97.232	1.892	4.335	0.67		103.7
3.003	S8155	3	97.207	1.902	2.377	0.27		139.5
1.008	S5015	1	97.211	2.366	0.000	1.40		396.8
1.009	S5016	4	96.962	2.257	0.000	1.10		406.1
1.010	S5017 - PH4 Connection	4	96.728	2.253	0.000	2.21		456.3
4.000	S5018	3	96.452	1.048	0.000	0.18		37.0
1.011	S5019	3	96.416	2.011	0.000	3.06		484.9
1.012	S5020 PH5 Connection	2	96.025	1.660	0.000	3.67		489.4
1.013	S5021	4	95.602	1.272	1.732	0.83		499.9

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Summary Wizard of 15 minute 100 year Summer I+40% for Surface Network 5

PN	US/MH Name	Status
1.000	S8142	SURCHARGED
2.000	S8133	SURCHARGED
1.001	S8134	FLOOD RISK
1.002	S8141	FLOOD RISK
1.003	S8139	SURCHARGED
1.004	S8140	FLOOD RISK
1.005	S4008	FLOOD RISK
1.006	S4011	FLOOD RISK
1.007	S4012	FLOOD
3.000	S8157	SURCHARGED
3.001	S8159	FLOOD RISK
3.002	S8154	FLOOD
3.003	S8155	FLOOD
1.008	S5015	SURCHARGED
1.009	S5016	FLOOD RISK
1.010	S5017 - PH4 Connection	SURCHARGED
4.000	S5018	FLOOD RISK
1.011	S5019	SURCHARGED
1.012	S5020 PH5 Connection	FLOOD RISK
1.013	S5021	FLOOD

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Summary Wizard of 15 minute 100 year Summer I+40% for Surface Network 5

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)
5.000	S5023	4	95.488	0.968	0.000	0.41		106.0
5.001	S5025	4	95.438	1.278	2.538	0.72		159.3
6.000	S5026	4	95.505	0.913	0.000	0.34		36.9
6.001	S5027	4	95.458	1.323	0.000	0.78		101.6
5.002	S5028	4	95.411	1.395	0.827	1.64		279.3
1.014	S5029	3	95.374	1.404	0.000	2.92		770.5
1.015	S5030	3	95.113	1.186	0.000	4.18		756.8
1.016	S8121	4	94.847	0.946	0.000	4.14		770.0
1.017	S5036 - Headwall	4	94.554	0.229	0.000	0.75		727.9
7.000	S8135	2	98.195	1.577	0.000	0.78		109.2
7.001	S8136	2	98.148	1.605	0.000	1.04		144.4
7.002	S8137	2	98.086	1.612	0.000	1.27		171.6
7.003	S8161	2	98.008	1.594	0.000	1.20		167.4
8.000	S8151	2	98.011	1.185	0.845	0.67		100.1
7.004	S8162	2	97.907	1.568	0.000	1.71		237.3
7.005	S8152	3	97.712	1.442	0.452	2.46		283.3
9.000	S8144	3	97.560	1.010	0.000	0.37		30.3
9.001	S8145	4	97.531	1.156	0.000	0.48		70.1
7.006	S8146	4	97.506	1.277	0.000	1.00		333.5
10.000	S8164	4	97.184	1.158	0.000	0.19		28.5
7.007	S8147	4	97.173	1.293	0.000	1.00		364.3
7.008	S8150	4	96.761	1.296	0.000	1.28		367.1
7.009	S8149	4	96.431	1.166	0.000	1.32		436.7
11.000	S5037	4	96.189	0.809	0.000	0.65		24.0
11.001	S5038	4	96.151	0.917	0.000	0.68		42.2
11.002	S5039	4	96.124	0.968	0.000	0.52		32.0
12.000	S5040	3	96.512	1.129	1.337	1.58		60.6
7.010	S5041	4	96.098	1.020	0.000	1.47		531.5
7.011	S5042	4	95.673	0.818	0.000	0.93		546.8
7.012	S5047	4	95.105	1.085	0.000	1.32		549.9
7.013	S5048 - Headwall	4	94.700	0.750	0.095	1.73		527.0
1.018	S5049 - Headwall	4	94.499	0.549	0.000	2.46		1236.1
1.019	S5050 Control Chamber	42	93.523	-0.377	0.000	0.02		11.9

PN	US/MH Name	Status
5.000	S5023	SURCHARGED
5.001	S5025	FLOOD
6.000	S5026	SURCHARGED
6.001	S5027	FLOOD RISK
5.002	S5028	FLOOD
1.014	S5029	FLOOD RISK
1.015	S5030	SURCHARGED
1.016	S8121	FLOOD RISK
1.017	S5036 - Headwall	FLOOD RISK

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Summary Wizard of 15 minute 100 year Summer I+40% for Surface Network 5

PN	US/MH Name	Status
7.000	S8135	FLOOD RISK
7.001	S8136	SURCHARGED
7.002	S8137	SURCHARGED
7.003	S8161	FLOOD RISK
8.000	S8151	FLOOD
7.004	S8162	FLOOD RISK
7.005	S8152	FLOOD
9.000	S8144	SURCHARGED
9.001	S8145	FLOOD RISK
7.006	S8146	FLOOD RISK
10.000	S8164	FLOOD RISK
7.007	S8147	FLOOD RISK
7.008	S8150	FLOOD RISK
7.009	S8149	FLOOD RISK
11.000	S5037	FLOOD RISK
11.001	S5038	SURCHARGED
11.002	S5039	FLOOD RISK
12.000	S5040	FLOOD
7.010	S5041	FLOOD RISK
7.011	S5042	SURCHARGED
7.012	S5047	SURCHARGED
7.013	S5048 - Headwall	FLOOD
1.018	S5049 - Headwall	FLOOD RISK
1.019	S5050 Control Chamber	OK

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Summary Wizard of 30 minute 100 year Summer I+40% for Surface Network 5

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.410
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.800	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 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)
1.000	S8142	4	97.859	0.744	0.000	0.30		55.9
2.000	S8133	4	98.114	0.054	0.000	0.56		98.7
1.001	S8134	4	97.822	1.272	0.000	0.86		157.3
1.002	S8141	4	97.782	1.337	0.000	0.66		201.2
1.003	S8139	4	97.727	1.472	0.000	0.45		174.4
1.004	S8140	4	97.640	1.795	0.000	0.59		211.2
1.005	S4008	4	97.585	1.959	0.000	1.49		241.9
1.006	S4011	3	97.506	1.917	0.000	0.60		259.9
1.007	S4012	3	97.319	2.234	6.235	0.84		267.4
3.000	S8157	3	97.284	0.904	0.000	0.08		19.7
3.001	S8159	4	97.268	1.648	0.000	0.32		81.2
3.002	S8154	3	97.234	1.894	5.393	0.60		93.0
3.003	S8155	4	97.206	1.901	2.330	0.24		125.5
1.008	S5015	4	97.186	2.341	0.000	1.41		400.0
1.009	S5016	2	96.997	2.292	0.000	1.10		404.7
1.010	S5017 - PH4 Connection	2	96.765	2.290	0.000	2.12		438.1
4.000	S5018	4	96.445	1.041	0.000	0.15		31.5
1.011	S5019	4	96.412	2.007	0.000	3.00		475.7
1.012	S5020 PH5 Connection	4	96.009	1.644	0.000	3.65		486.3
1.013	S5021	3	95.604	1.274	3.919	0.83		497.0

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Summary Wizard of 30 minute 100 year Summer I+40% for Surface Network 5

PN	US/MH Name	Status
1.000	S8142	SURCHARGED
2.000	S8133	SURCHARGED
1.001	S8134	FLOOD RISK
1.002	S8141	FLOOD RISK
1.003	S8139	SURCHARGED
1.004	S8140	FLOOD RISK
1.005	S4008	FLOOD RISK
1.006	S4011	FLOOD RISK
1.007	S4012	FLOOD
3.000	S8157	SURCHARGED
3.001	S8159	FLOOD RISK
3.002	S8154	FLOOD
3.003	S8155	FLOOD
1.008	S5015	SURCHARGED
1.009	S5016	FLOOD RISK
1.010	S5017 - PH4 Connection	SURCHARGED
4.000	S5018	FLOOD RISK
1.011	S5019	SURCHARGED
1.012	S5020 PH5 Connection	FLOOD RISK
1.013	S5021	FLOOD

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Summary Wizard of 30 minute 100 year Summer I+40% for Surface Network 5

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)
5.000	S5023	2	95.493	0.973	0.000	0.38		97.8
5.001	S5025	3	95.442	1.282	6.435	0.67		148.6
6.000	S5026	2	95.525	0.933	0.000	0.29		30.9
6.001	S5027	2	95.476	1.341	0.000	0.73		95.8
5.002	S5028	3	95.414	1.397	3.446	1.50		256.9
1.014	S5029	4	95.373	1.403	0.000	2.77		729.9
1.015	S5030	4	95.112	1.185	0.000	4.00		724.0
1.016	S8121	3	94.852	0.950	0.000	4.07		756.0
1.017	S5036 - Headwall	3	94.559	0.234	0.000	0.76		737.2
7.000	S8135	4	98.124	1.506	0.000	0.73		102.2
7.001	S8136	4	98.085	1.542	0.000	0.94		130.6
7.002	S8137	4	98.036	1.563	0.000	1.19		161.4
7.003	S8161	4	97.973	1.559	0.000	1.14		159.9
8.000	S8151	4	98.002	1.176	0.000	0.61		91.1
7.004	S8162	4	97.888	1.549	0.000	1.61		222.7
7.005	S8152	4	97.712	1.442	0.153	2.38		273.4
9.000	S8144	4	97.558	1.008	0.000	0.36		29.6
9.001	S8145	3	97.534	1.159	0.000	0.40		58.3
7.006	S8146	3	97.511	1.282	0.000	0.96		318.7
10.000	S8164	3	97.208	1.182	0.000	0.17		25.2
7.007	S8147	3	97.198	1.318	0.000	0.96		348.0
7.008	S8150	3	96.816	1.351	0.000	1.23		353.2
7.009	S8149	3	96.506	1.241	0.042	1.28		426.1
11.000	S5037	3	96.289	0.909	0.000	0.60		22.3
11.001	S5038	3	96.254	1.021	0.000	0.60		37.1
11.002	S5039	3	96.228	1.072	0.000	0.47		28.9
12.000	S5040	4	96.512	1.129	1.067	1.47		56.4
7.010	S5041	3	96.202	1.124	0.000	1.41		509.7
7.011	S5042	3	95.771	0.916	0.000	0.89		524.4
7.012	S5047	3	95.151	1.131	0.000	1.28		533.9
7.013	S5048 - Headwall	3	94.701	0.751	1.553	1.69		514.1
1.018	S5049 - Headwall	3	94.502	0.552	0.000	2.47		1244.3
1.019	S5050 Control Chamber	30	93.625	-0.275	0.000	0.02		12.2

PN	US/MH Name	Status
5.000	S5023	SURCHARGED
5.001	S5025	FLOOD
6.000	S5026	SURCHARGED
6.001	S5027	FLOOD RISK
5.002	S5028	FLOOD
1.014	S5029	FLOOD RISK
1.015	S5030	SURCHARGED
1.016	S8121	FLOOD RISK
1.017	S5036 - Headwall	FLOOD RISK

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Summary Wizard of 30 minute 100 year Summer I+40% for Surface Network 5

PN	US/MH Name	Status
7.000	S8135	FLOOD RISK
7.001	S8136	SURCHARGED
7.002	S8137	SURCHARGED
7.003	S8161	FLOOD RISK
8.000	S8151	FLOOD RISK
7.004	S8162	FLOOD RISK
7.005	S8152	FLOOD
9.000	S8144	SURCHARGED
9.001	S8145	FLOOD RISK
7.006	S8146	FLOOD RISK
10.000	S8164	FLOOD RISK
7.007	S8147	FLOOD RISK
7.008	S8150	FLOOD RISK
7.009	S8149	FLOOD
11.000	S5037	FLOOD RISK
11.001	S5038	SURCHARGED
11.002	S5039	FLOOD RISK
12.000	S5040	FLOOD
7.010	S5041	FLOOD RISK
7.011	S5042	FLOOD RISK
7.012	S5047	FLOOD RISK
7.013	S5048 - Headwall	FLOOD
1.018	S5049 - Headwall	FLOOD RISK
1.019	S5050 Control Chamber	OK

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Summary Wizard of 60 minute 100 year Summer I+40% for Surface Network 5

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.410
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.800	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 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)
1.000	S8142	5	97.232	0.117	0.000	0.22		41.5
2.000	S8133	5	97.894	-0.166	0.000	0.40		70.5
1.001	S8134	5	97.206	0.656	0.000	0.75		137.4
1.002	S8141	5	97.176	0.731	0.000	0.54		164.2
1.003	S8139	5	97.137	0.882	0.000	0.36		139.8
1.004	S8140	5	97.089	1.244	0.000	0.48		170.9
1.005	S4008	5	97.050	1.424	0.000	1.20		194.8
1.006	S4011	5	97.007	1.418	0.000	0.47		203.5
1.007	S4012	5	96.896	1.811	0.000	0.72		227.6
3.000	S8157	5	96.860	0.480	0.000	0.06		14.8
3.001	S8159	5	96.852	1.232	0.000	0.24		59.9
3.002	S8154	5	96.830	1.490	0.000	0.48		73.6
3.003	S8155	5	96.797	1.492	0.000	0.21		110.1
1.008	S5015	5	96.772	1.927	0.000	1.23		349.2
1.009	S5016	5	96.551	1.846	0.000	0.97		358.4
1.010	S5017 - PH4 Connection	5	96.330	1.855	0.000	1.93		398.7
4.000	S5018	5	96.077	0.673	0.000	0.11		21.7
1.011	S5019	5	96.057	1.652	0.000	2.65		420.8
1.012	S5020 PH5 Connection	5	95.751	1.386	0.000	3.25		432.7
1.013	S5021	5	95.428	1.098	0.000	0.75		451.8

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Summary Wizard of 60 minute 100 year Summer I+40% for Surface Network 5

PN	US/MH Name	Status
1.000	S8142	SURCHARGED
2.000	S8133	OK
1.001	S8134	SURCHARGED
1.002	S8141	SURCHARGED
1.003	S8139	SURCHARGED
1.004	S8140	SURCHARGED
1.005	S4008	SURCHARGED
1.006	S4011	SURCHARGED
1.007	S4012	SURCHARGED
3.000	S8157	SURCHARGED
3.001	S8159	SURCHARGED
3.002	S8154	SURCHARGED
3.003	S8155	SURCHARGED
1.008	S5015	SURCHARGED
1.009	S5016	SURCHARGED
1.010	S5017 - PH4 Connection	SURCHARGED
4.000	S5018	SURCHARGED
1.011	S5019	SURCHARGED
1.012	S5020 PH5 Connection	SURCHARGED
1.013	S5021	FLOOD RISK

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Summary Wizard of 60 minute 100 year Summer I+40% for Surface Network 5

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)
5.000	S5023	5	95.327	0.807	0.000	0.28		72.2
5.001	S5025	5	95.295	1.135	0.000	0.49		109.4
6.000	S5026	5	95.326	0.734	0.000	0.21		22.6
6.001	S5027	5	95.297	1.162	0.000	0.54		70.5
5.002	S5028	5	95.263	1.246	0.000	1.14		194.1
1.014	S5029	5	95.219	1.249	0.000	2.45		646.5
1.015	S5030	5	94.966	1.039	0.000	3.60		650.9
1.016	S8121	5	94.707	0.805	0.000	3.62		673.9
1.017	S5036 - Headwall	5	94.443	0.118	0.000	0.71		690.6
7.000	S8135	5	97.141	0.522	0.000	0.57		80.5
7.001	S8136	5	97.108	0.565	0.000	0.77		106.8
7.002	S8137	5	97.066	0.593	0.000	0.98		133.5
7.003	S8161	5	97.017	0.604	0.000	1.01		141.2
8.000	S8151	5	97.037	0.211	0.000	0.48		71.7
7.004	S8162	5	96.955	0.616	0.000	1.43		198.7
7.005	S8152	5	96.843	0.572	0.000	2.13		245.4
9.000	S8144	5	96.734	0.184	0.000	0.27		22.0
9.001	S8145	5	96.715	0.340	0.000	0.32		46.9
7.006	S8146	5	96.695	0.466	0.000	0.82		272.7
10.000	S8164	5	96.480	0.455	0.000	0.13		19.1
7.007	S8147	5	96.472	0.592	0.000	0.82		298.9
7.008	S8150	5	96.201	0.736	0.000	1.06		303.2
7.009	S8149	5	95.980	0.715	0.000	1.12		370.6
11.000	S5037	5	95.825	0.446	0.000	0.48		17.6
11.001	S5038	5	95.795	0.562	0.000	0.45		27.7
11.002	S5039	5	95.772	0.616	0.000	0.42		25.8
12.000	S5040	5	96.023	0.641	0.000	1.14		43.8
7.010	S5041	5	95.748	0.670	0.000	1.22		442.9
7.011	S5042	5	95.418	0.563	0.000	0.78		456.0
7.012	S5047	5	94.915	0.895	0.000	1.11		464.4
7.013	S5048 - Headwall	5	94.550	0.600	0.000	1.50		457.7
1.018	S5049 - Headwall	5	94.395	0.445	0.000	2.25		1134.4
1.019	S5050 Control Chamber	20	93.726	-0.174	0.000	0.02		12.3

PN	US/MH Name	Status
5.000	S5023	SURCHARGED
5.001	S5025	FLOOD RISK
6.000	S5026	SURCHARGED
6.001	S5027	FLOOD RISK
5.002	S5028	FLOOD RISK
1.014	S5029	FLOOD RISK
1.015	S5030	SURCHARGED
1.016	S8121	SURCHARGED
1.017	S5036 - Headwall	FLOOD RISK

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Summary Wizard of 60 minute 100 year Summer I+40% for Surface Network 5

PN	US/MH Name	Status
7.000	S8135	SURCHARGED
7.001	S8136	SURCHARGED
7.002	S8137	SURCHARGED
7.003	S8161	SURCHARGED
8.000	S8151	SURCHARGED
7.004	S8162	SURCHARGED
7.005	S8152	SURCHARGED
9.000	S8144	SURCHARGED
9.001	S8145	SURCHARGED
7.006	S8146	SURCHARGED
10.000	S8164	SURCHARGED
7.007	S8147	SURCHARGED
7.008	S8150	SURCHARGED
7.009	S8149	SURCHARGED
11.000	S5037	SURCHARGED
11.001	S5038	SURCHARGED
11.002	S5039	SURCHARGED
12.000	S5040	SURCHARGED
7.010	S5041	SURCHARGED
7.011	S5042	SURCHARGED
7.012	S5047	SURCHARGED
7.013	S5048 - Headwall	FLOOD RISK
1.018	S5049 - Headwall	SURCHARGED
1.019	S5050 Control Chamber	OK

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Summary Wizard of 120 minute 100 year Summer I+40% for Surface Network 5

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.410
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.800	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 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)
1.000	S8142	11	96.835	-0.280	0.000	0.15		27.5
2.000	S8133	11	97.864	-0.196	0.000	0.26		45.7
1.001	S8134	11	96.327	-0.223	0.000	0.50		92.0
1.002	S8141	11	96.143	-0.302	0.000	0.37		114.1
1.003	S8139	10	95.946	-0.309	0.000	0.32		122.5
1.004	S8140	7	95.881	0.036	0.000	0.38		135.3
1.005	S4008	7	95.851	0.225	0.000	0.98		159.2
1.006	S4011	7	95.818	0.229	0.000	0.38		167.4
1.007	S4012	7	95.749	0.664	0.000	0.59		185.9
3.000	S8157	11	96.053	-0.327	0.000	0.04		10.4
3.001	S8159	7	95.739	0.119	0.000	0.17		42.9
3.002	S8154	7	95.723	0.383	0.000	0.39		60.2
3.003	S8155	7	95.698	0.393	0.000	0.15		80.5
1.008	S5015	7	95.678	0.833	0.000	0.98		277.3
1.009	S5016	7	95.547	0.842	0.000	0.77		283.8
1.010	S5017 - PH4 Connection	7	95.414	0.939	0.000	1.53		314.7
4.000	S5018	7	95.257	-0.147	0.000	0.08		16.0
1.011	S5019	7	95.241	0.836	0.000	2.10		333.2
1.012	S5020 PH5 Connection	7	95.047	0.682	0.000	2.57		342.3
1.013	S5021	7	94.845	0.515	0.000	0.60		358.2

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Summary Wizard of 120 minute 100 year Summer I+40% for Surface Network 5

PN	US/MH Name	Status
1.000	S8142	OK
2.000	S8133	OK
1.001	S8134	OK
1.002	S8141	OK
1.003	S8139	OK
1.004	S8140	SURCHARGED
1.005	S4008	SURCHARGED
1.006	S4011	SURCHARGED
1.007	S4012	SURCHARGED
3.000	S8157	OK
3.001	S8159	SURCHARGED
3.002	S8154	SURCHARGED
3.003	S8155	SURCHARGED
1.008	S5015	SURCHARGED
1.009	S5016	SURCHARGED
1.010	S5017 - PH4 Connection	SURCHARGED
4.000	S5018	OK
1.011	S5019	SURCHARGED
1.012	S5020 PH5 Connection	SURCHARGED
1.013	S5021	SURCHARGED

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Summary Wizard of 120 minute 100 year Summer I+40% for Surface Network 5

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)
5.000	S5023	7	94.807	0.287	0.000	0.19		48.0
5.001	S5025	7	94.782	0.622	0.000	0.33		72.9
6.000	S5026	7	94.807	0.215	0.000	0.15		16.1
6.001	S5027	7	94.784	0.649	0.000	0.36		47.2
5.002	S5028	7	94.754	0.738	0.000	0.74		126.3
1.014	S5029	7	94.717	0.747	0.000	1.87		492.3
1.015	S5030	7	94.564	0.637	0.000	2.75		497.8
1.016	S8121	7	94.415	0.513	0.000	2.77		515.8
1.017	S5036 - Headwall	7	94.255	-0.070	0.000	0.55		539.0
7.000	S8135	9	96.521	-0.098	0.000	0.40		56.2
7.001	S8136	9	96.496	-0.047	0.000	0.53		73.2
7.002	S8137	9	96.464	-0.010	0.000	0.67		90.5
7.003	S8161	9	96.426	0.012	0.000	0.68		95.4
8.000	S8151	11	96.640	-0.186	0.000	0.31		46.1
7.004	S8162	9	96.383	0.043	0.000	1.00		138.5
7.005	S8152	9	96.307	0.037	0.000	1.49		172.0
9.000	S8144	11	96.334	-0.216	0.000	0.17		14.3
9.001	S8145	11	96.116	-0.259	0.000	0.21		30.6
7.006	S8146	9	96.047	-0.182	0.000	0.64		214.5
10.000	S8164	10	95.733	-0.293	0.000	0.09		13.7
7.007	S8147	9	95.701	-0.179	0.000	0.65		236.9
7.008	S8150	8	95.331	-0.134	0.000	0.84		239.1
7.009	S8149	8	95.183	-0.082	0.000	0.88		293.5
11.000	S5037	11	95.241	-0.139	0.000	0.31		11.6
11.001	S5038	9	95.081	-0.153	0.000	0.35		21.5
11.002	S5039	8	95.050	-0.105	0.000	0.34		21.3
12.000	S5040	11	95.314	-0.069	0.000	0.81		31.3
7.010	S5041	8	95.031	-0.047	0.000	0.96		348.3
7.011	S5042	7	94.820	-0.035	0.000	0.61		356.3
7.012	S5047	7	94.517	0.497	0.000	0.87		363.9
7.013	S5048 - Headwall	7	94.300	0.350	0.000	1.20		364.8
1.018	S5049 - Headwall	7	94.195	0.245	0.000	1.77		890.3
1.019	S5050 Control Chamber	18	93.823	-0.077	0.000	0.02		12.3

PN	US/MH Name	Status
5.000	S5023	SURCHARGED
5.001	S5025	SURCHARGED
6.000	S5026	SURCHARGED
6.001	S5027	SURCHARGED
5.002	S5028	SURCHARGED
1.014	S5029	SURCHARGED
1.015	S5030	SURCHARGED
1.016	S8121	SURCHARGED
1.017	S5036 - Headwall	OK

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Summary Wizard of 120 minute 100 year Summer I+40% for Surface Network 5

PN	US/MH Name	Status
7.000	S8135	OK
7.001	S8136	OK
7.002	S8137	OK
7.003	S8161	SURCHARGED
8.000	S8151	OK
7.004	S8162	SURCHARGED
7.005	S8152	SURCHARGED
9.000	S8144	OK
9.001	S8145	OK
7.006	S8146	OK
10.000	S8164	OK
7.007	S8147	OK
7.008	S8150	OK
7.009	S8149	OK
11.000	S5037	OK
11.001	S5038	OK
11.002	S5039	OK
12.000	S5040	OK
7.010	S5041	OK
7.011	S5042	OK
7.012	S5047	SURCHARGED
7.013	S5048 - Headwall	SURCHARGED
1.018	S5049 - Headwall	SURCHARGED
1.019	S5050 Control Chamber	OK

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Summary Wizard of 180 minute 100 year Summer I+40% for Surface Network 5

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.410
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.800	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 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)
1.000	S8142	14	96.824	-0.291	0.000	0.11		21.5
2.000	S8133	14	97.852	-0.208	0.000	0.20		35.8
1.001	S8134	14	96.297	-0.253	0.000	0.39		71.8
1.002	S8141	14	96.114	-0.331	0.000	0.29		89.1
1.003	S8139	14	95.909	-0.346	0.000	0.25		95.4
1.004	S8140	14	95.535	-0.310	0.000	0.34		121.8
1.005	S4008	14	95.488	-0.138	0.000	0.87		141.8
1.006	S4011	14	95.282	-0.307	0.000	0.35		154.1
1.007	S4012	13	95.133	0.048	0.000	0.51		162.3
3.000	S8157	14	96.048	-0.332	0.000	0.03		8.2
3.001	S8159	14	95.281	-0.339	0.000	0.14		34.9
3.002	S8154	13	95.118	-0.222	0.000	0.34		52.9
3.003	S8155	13	95.087	-0.218	0.000	0.14		73.7
1.008	S5015	13	95.071	0.226	0.000	0.86		243.3
1.009	S5016	13	94.969	0.264	0.000	0.68		248.9
1.010	S5017 - PH4 Connection	13	94.875	0.400	0.000	1.33		274.3
4.000	S5018	14	95.153	-0.251	0.000	0.06		13.0
1.011	S5019	13	94.745	0.340	0.000	1.83		289.6
1.012	S5020 PH5 Connection	13	94.600	0.235	0.000	2.24		297.9
1.013	S5021	11	94.447	0.117	0.000	0.52		311.6

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Summary Wizard of 180 minute 100 year Summer I+40% for Surface Network 5

PN	US/MH Name	Status
1.000	S8142	OK
2.000	S8133	OK
1.001	S8134	OK
1.002	S8141	OK
1.003	S8139	OK
1.004	S8140	OK
1.005	S4008	OK
1.006	S4011	OK
1.007	S4012	SURCHARGED
3.000	S8157	OK
3.001	S8159	OK
3.002	S8154	OK
3.003	S8155	OK
1.008	S5015	SURCHARGED
1.009	S5016	SURCHARGED
1.010	S5017 - PH4 Connection	SURCHARGED
4.000	S5018	OK
1.011	S5019	SURCHARGED
1.012	S5020 PH5 Connection	SURCHARGED
1.013	S5021	SURCHARGED

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Summary Wizard of 180 minute 100 year Summer I+40% for Surface Network 5

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)
5.000	S5023	11	94.443	-0.077	0.000	0.15		38.4
5.001	S5025	11	94.423	0.263	0.000	0.24		54.3
6.000	S5026	11	94.442	-0.150	0.000	0.13		13.8
6.001	S5027	11	94.425	0.290	0.000	0.27		35.9
5.002	S5028	11	94.403	0.387	0.000	0.57		98.0
1.014	S5029	11	94.376	0.406	0.000	1.59		419.4
1.015	S5030	11	94.280	0.353	0.000	2.34		424.0
1.016	S8121	11	94.211	0.309	0.000	2.36		439.2
1.017	S5036 - Headwall	14	94.135	-0.190	0.000	0.47		459.8
7.000	S8135	14	96.434	-0.185	0.000	0.31		43.8
7.001	S8136	13	96.411	-0.131	0.000	0.41		56.5
7.002	S8137	13	96.387	-0.087	0.000	0.52		70.6
7.003	S8161	13	96.358	-0.056	0.000	0.54		75.2
8.000	S8151	14	96.626	-0.200	0.000	0.24		36.0
7.004	S8162	13	96.325	-0.014	0.000	0.79		108.9
7.005	S8152	14	96.270	0.000	0.000	1.16		133.8
9.000	S8144	14	96.324	-0.226	0.000	0.14		11.2
9.001	S8145	14	96.101	-0.274	0.000	0.16		23.9
7.006	S8146	13	96.003	-0.226	0.000	0.50		165.2
10.000	S8164	14	95.717	-0.309	0.000	0.07		10.8
7.007	S8147	13	95.656	-0.224	0.000	0.50		182.1
7.008	S8150	13	95.250	-0.215	0.000	0.65		185.7
7.009	S8149	13	95.064	-0.201	0.000	0.69		229.3
11.000	S5037	14	95.230	-0.149	0.000	0.25		9.1
11.001	S5038	14	95.041	-0.193	0.000	0.28		17.0
11.002	S5039	14	94.966	-0.189	0.000	0.29		17.9
12.000	S5040	14	95.289	-0.093	0.000	0.64		24.4
7.010	S5041	14	94.900	-0.178	0.000	0.76		276.4
7.011	S5042	14	94.590	-0.265	0.000	0.49		285.3
7.012	S5047	12	94.294	0.274	0.000	0.69		289.1
7.013	S5048 - Headwall	12	94.155	0.205	0.000	0.95		289.9
1.018	S5049 - Headwall	16	94.091	0.141	0.000	1.47		741.5
1.019	S5050 Control Chamber	17	93.874	-0.026	0.000	0.02		12.3

PN	US/MH Name	Status
5.000	S5023	OK
5.001	S5025	SURCHARGED
6.000	S5026	OK
6.001	S5027	SURCHARGED
5.002	S5028	SURCHARGED
1.014	S5029	SURCHARGED
1.015	S5030	SURCHARGED
1.016	S8121	SURCHARGED
1.017	S5036 - Headwall	OK

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Summary Wizard of 180 minute 100 year Summer I+40% for Surface Network 5

PN	US/MH Name	Status
7.000	S8135	OK
7.001	S8136	OK
7.002	S8137	OK
7.003	S8161	OK
8.000	S8151	OK
7.004	S8162	OK
7.005	S8152	OK
9.000	S8144	OK
9.001	S8145	OK
7.006	S8146	OK
10.000	S8164	OK
7.007	S8147	OK
7.008	S8150	OK
7.009	S8149	OK
11.000	S5037	OK
11.001	S5038	OK
11.002	S5039	OK
12.000	S5040	OK
7.010	S5041	OK
7.011	S5042	OK
7.012	S5047	SURCHARGED
7.013	S5048 - Headwall	SURCHARGED
1.018	S5049 - Headwall	SURCHARGED
1.019	S5050 Control Chamber	OK

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Summary Wizard of 240 minute 100 year Summer I+40% for Surface Network 5

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.410
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.800	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 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)
1.000	S8142	16	96.816	-0.299	0.000	0.09		17.3
2.000	S8133	16	97.841	-0.219	0.000	0.16		28.7
1.001	S8134	16	96.274	-0.276	0.000	0.32		57.8
1.002	S8141	16	96.092	-0.353	0.000	0.23		71.9
1.003	S8139	16	95.890	-0.365	0.000	0.20		77.5
1.004	S8140	16	95.508	-0.337	0.000	0.28		99.3
1.005	S4008	16	95.432	-0.194	0.000	0.72		116.2
1.006	S4011	16	95.257	-0.332	0.000	0.29		126.0
1.007	S4012	16	94.850	-0.235	0.000	0.44		140.2
3.000	S8157	16	96.045	-0.335	0.000	0.03		6.6
3.001	S8159	16	95.269	-0.351	0.000	0.11		28.0
3.002	S8154	16	95.051	-0.289	0.000	0.28		42.8
3.003	S8155	16	94.902	-0.403	0.000	0.12		64.6
1.008	S5015	16	94.783	-0.062	0.000	0.75		213.5
1.009	S5016	16	94.702	-0.003	0.000	0.60		219.1
1.010	S5017 - PH4 Connection	16	94.631	0.156	0.000	1.17		242.3
4.000	S5018	16	95.147	-0.257	0.000	0.05		10.5
1.011	S5019	16	94.533	0.128	0.000	1.61		255.6
1.012	S5020 PH5 Connection	16	94.421	0.056	0.000	1.97		262.7
1.013	S5021	16	94.283	-0.047	0.000	0.45		272.8

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Summary Wizard of 240 minute 100 year Summer I+40% for Surface Network 5

PN	US/MH Name	Status
1.000	S8142	OK
2.000	S8133	OK
1.001	S8134	OK
1.002	S8141	OK
1.003	S8139	OK
1.004	S8140	OK
1.005	S4008	OK
1.006	S4011	OK
1.007	S4012	OK
3.000	S8157	OK
3.001	S8159	OK
3.002	S8154	OK
3.003	S8155	OK
1.008	S5015	OK
1.009	S5016	OK
1.010	S5017 - PH4 Connection	SURCHARGED
4.000	S5018	OK
1.011	S5019	SURCHARGED
1.012	S5020 PH5 Connection	SURCHARGED
1.013	S5021	OK

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Summary Wizard of 240 minute 100 year Summer I+40% for Surface Network 5

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)
5.000	S5023	16	94.281	-0.239	0.000	0.12		31.6
5.001	S5025	16	94.267	0.107	0.000	0.19		42.6
6.000	S5026	16	94.356	-0.236	0.000	0.10		11.2
6.001	S5027	16	94.268	0.133	0.000	0.24		30.8
5.002	S5028	16	94.251	0.235	0.000	0.46		78.6
1.014	S5029	16	94.231	0.261	0.000	1.37		360.8
1.015	S5030	16	94.163	0.236	0.000	2.01		363.7
1.016	S8121	19	94.111	0.209	0.000	2.02		375.9
1.017	S5036 - Headwall	21	94.054	-0.271	0.000	0.40		389.3
7.000	S8135	16	96.366	-0.252	0.000	0.25		35.6
7.001	S8136	16	96.328	-0.215	0.000	0.34		47.3
7.002	S8137	16	96.292	-0.182	0.000	0.43		58.7
7.003	S8161	16	96.258	-0.156	0.000	0.44		62.0
8.000	S8151	16	96.616	-0.211	0.000	0.19		28.9
7.004	S8162	16	96.224	-0.116	0.000	0.65		89.6
7.005	S8152	16	96.176	-0.094	0.000	0.96		110.6
9.000	S8144	16	96.316	-0.234	0.000	0.11		9.0
9.001	S8145	16	96.090	-0.285	0.000	0.13		19.2
7.006	S8146	16	95.982	-0.247	0.000	0.41		137.5
10.000	S8164	16	95.708	-0.317	0.000	0.06		8.6
7.007	S8147	16	95.635	-0.245	0.000	0.42		152.0
7.008	S8150	16	95.220	-0.245	0.000	0.54		154.8
7.009	S8149	16	95.032	-0.233	0.000	0.58		193.2
11.000	S5037	16	95.222	-0.157	0.000	0.20		7.3
11.001	S5038	16	95.029	-0.205	0.000	0.22		13.7
11.002	S5039	16	94.954	-0.202	0.000	0.23		14.5
12.000	S5040	16	95.272	-0.111	0.000	0.51		19.7
7.010	S5041	16	94.864	-0.214	0.000	0.64		232.9
7.011	S5042	16	94.566	-0.289	0.000	0.41		240.4
7.012	S5047	17	94.134	0.114	0.000	0.58		241.7
7.013	S5048 - Headwall	21	94.064	0.114	0.000	0.80		244.5
1.018	S5049 - Headwall	24	94.017	0.067	0.000	1.23		618.7
1.019	S5050 Control Chamber	15	93.906	0.006	0.000	0.02		12.3

PN	US/MH Name	Status
5.000	S5023	OK
5.001	S5025	SURCHARGED
6.000	S5026	OK
6.001	S5027	SURCHARGED
5.002	S5028	SURCHARGED
1.014	S5029	SURCHARGED
1.015	S5030	SURCHARGED
1.016	S8121	SURCHARGED
1.017	S5036 - Headwall	OK

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Summary Wizard of 240 minute 100 year Summer I+40% for Surface Network 5

PN	US/MH Name	Status
7.000	S8135	OK
7.001	S8136	OK
7.002	S8137	OK
7.003	S8161	OK
8.000	S8151	OK
7.004	S8162	OK
7.005	S8152	OK
9.000	S8144	OK
9.001	S8145	OK
7.006	S8146	OK
10.000	S8164	OK
7.007	S8147	OK
7.008	S8150	OK
7.009	S8149	OK
11.000	S5037	OK
11.001	S5038	OK
11.002	S5039	OK
12.000	S5040	OK
7.010	S5041	OK
7.011	S5042	OK
7.012	S5047	SURCHARGED
7.013	S5048 - Headwall	SURCHARGED
1.018	S5049 - Headwall	SURCHARGED
1.019	S5050 Control Chamber	SURCHARGED

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Summary Wizard of 360 minute 100 year Summer I+40% for Surface Network 5

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.410
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.800	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 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)
1.000	S8142	23	96.803	-0.312	0.000	0.07		12.6
2.000	S8133	23	97.828	-0.232	0.000	0.12		20.9
1.001	S8134	23	96.246	-0.304	0.000	0.23		42.0
1.002	S8141	23	96.065	-0.380	0.000	0.17		52.4
1.003	S8139	22	95.863	-0.392	0.000	0.15		56.5
1.004	S8140	22	95.479	-0.366	0.000	0.20		72.4
1.005	S4008	22	95.370	-0.256	0.000	0.52		84.8
1.006	S4011	21	95.227	-0.362	0.000	0.21		92.1
1.007	S4012	21	94.767	-0.318	0.000	0.33		104.1
3.000	S8157	23	96.037	-0.343	0.000	0.02		4.8
3.001	S8159	22	95.254	-0.366	0.000	0.08		20.3
3.002	S8154	22	95.026	-0.314	0.000	0.20		31.1
3.003	S8155	21	94.886	-0.419	0.000	0.09		46.8
1.008	S5015	20	94.610	-0.235	0.000	0.57		162.8
1.009	S5016	20	94.520	-0.185	0.000	0.45		166.8
1.010	S5017 - PH4 Connection	20	94.475	0.000	0.000	0.90		185.1
4.000	S5018	23	95.141	-0.263	0.000	0.04		7.6
1.011	S5019	20	94.414	0.009	0.000	1.23		195.5
1.012	S5020 PH5 Connection	28	94.365	0.000	0.000	1.51		200.9
1.013	S5021	28	94.029	-0.301	0.000	0.35		210.3

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Summary Wizard of 360 minute 100 year Summer I+40% for Surface Network 5

PN	US/MH Name	Status
1.000	S8142	OK
2.000	S8133	OK
1.001	S8134	OK
1.002	S8141	OK
1.003	S8139	OK
1.004	S8140	OK
1.005	S4008	OK
1.006	S4011	OK
1.007	S4012	OK
3.000	S8157	OK
3.001	S8159	OK
3.002	S8154	OK
3.003	S8155	OK
1.008	S5015	OK
1.009	S5016	OK
1.010	S5017 - PH4 Connection	OK
4.000	S5018	OK
1.011	S5019	SURCHARGED
1.012	S5020 PH5 Connection	OK
1.013	S5021	OK

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Summary Wizard of 360 minute 100 year Summer I+40% for Surface Network 5

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)
5.000	S5023	23	94.161	-0.359	0.000	0.09		23.3
5.001	S5025	28	94.020	-0.140	0.000	0.16		36.0
6.000	S5026	23	94.346	-0.246	0.000	0.08		8.2
6.001	S5027	28	94.021	-0.114	0.000	0.19		24.3
5.002	S5028	29	94.007	-0.009	0.000	0.39		65.8
1.014	S5029	31	93.989	0.019	0.000	1.08		283.9
1.015	S5030	31	93.961	0.034	0.000	1.58		285.7
1.016	S8121	30	93.957	0.055	0.000	1.59		296.0
1.017	S5036 - Headwall	30	93.953	-0.372	0.000	0.31		306.5
7.000	S8135	22	96.324	-0.294	0.000	0.18		25.9
7.001	S8136	21	96.278	-0.265	0.000	0.25		34.8
7.002	S8137	20	96.234	-0.240	0.000	0.32		43.5
7.003	S8161	20	96.194	-0.220	0.000	0.33		46.4
8.000	S8151	23	96.601	-0.226	0.000	0.14		21.0
7.004	S8162	20	96.155	-0.185	0.000	0.49		67.2
7.005	S8152	20	96.105	-0.165	0.000	0.72		83.0
9.000	S8144	23	96.306	-0.244	0.000	0.08		6.5
9.001	S8145	22	96.077	-0.298	0.000	0.10		14.0
7.006	S8146	20	95.950	-0.279	0.000	0.31		102.8
10.000	S8164	23	95.699	-0.326	0.000	0.04		6.3
7.007	S8147	20	95.602	-0.278	0.000	0.31		113.5
7.008	S8150	20	95.173	-0.292	0.000	0.41		116.2
7.009	S8149	20	94.983	-0.282	0.000	0.44		144.8
11.000	S5037	23	95.211	-0.169	0.000	0.14		5.3
11.001	S5038	22	95.013	-0.220	0.000	0.16		10.0
11.002	S5039	22	94.938	-0.217	0.000	0.17		10.5
12.000	S5040	23	95.253	-0.130	0.000	0.37		14.4
7.010	S5041	20	94.810	-0.268	0.000	0.48		174.2
7.011	S5042	20	94.529	-0.326	0.000	0.31		179.7
7.012	S5047	30	93.958	-0.062	0.000	0.44		182.5
7.013	S5048 - Headwall	30	93.953	0.003	0.000	0.59		180.2
1.018	S5049 - Headwall	30	93.950	0.000	0.000	0.97		490.2
1.019	S5050 Control Chamber	14	93.949	0.049	0.000	0.02		12.3

PN	US/MH Name	Status
5.000	S5023	OK
5.001	S5025	OK
6.000	S5026	OK
6.001	S5027	OK
5.002	S5028	OK
1.014	S5029	SURCHARGED
1.015	S5030	SURCHARGED
1.016	S8121	SURCHARGED
1.017	S5036 - Headwall	OK

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Summary Wizard of 360 minute 100 year Summer I+40% for Surface Network 5

PN	US/MH Name	Status
7.000	S8135	OK
7.001	S8136	OK
7.002	S8137	OK
7.003	S8161	OK
8.000	S8151	OK
7.004	S8162	OK
7.005	S8152	OK
9.000	S8144	OK
9.001	S8145	OK
7.006	S8146	OK
10.000	S8164	OK
7.007	S8147	OK
7.008	S8150	OK
7.009	S8149	OK
11.000	S5037	OK
11.001	S5038	OK
11.002	S5039	OK
12.000	S5040	OK
7.010	S5041	OK
7.011	S5042	OK
7.012	S5047	OK
7.013	S5048 - Headwall	SURCHARGED
1.018	S5049 - Headwall	SURCHARGED
1.019	S5050 Control Chamber	SURCHARGED

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Summary Wizard of 480 minute 100 year Summer I+40% for Surface Network 5

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.410
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.800	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 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	S8142	27	96.795	-0.320	0.000	0.05		10.0	OK
2.000	S8133	27	97.822	-0.238	0.000	0.09		16.6	OK
1.001	S8134	27	96.229	-0.321	0.000	0.18		33.5	OK
1.002	S8141	27	96.048	-0.397	0.000	0.14		41.7	OK
1.003	S8139	27	95.849	-0.406	0.000	0.12		45.0	OK
1.004	S8140	27	95.460	-0.385	0.000	0.16		57.6	OK
1.005	S4008	27	95.336	-0.290	0.000	0.42		67.5	OK
1.006	S4011	27	95.208	-0.381	0.000	0.17		73.3	OK
1.007	S4012	27	94.741	-0.344	0.000	0.26		82.8	OK
3.000	S8157	27	96.031	-0.349	0.000	0.01		3.8	OK
3.001	S8159	27	95.243	-0.377	0.000	0.06		16.1	OK
3.002	S8154	27	95.010	-0.330	0.000	0.16		24.7	OK
3.003	S8155	27	94.872	-0.433	0.000	0.07		37.3	OK
1.008	S5015	27	94.573	-0.272	0.000	0.46		129.5	OK
1.009	S5016	26	94.484	-0.221	0.000	0.36		132.7	OK
1.010	S5017 - PH4 Connection	26	94.448	-0.027	0.000	0.71		147.3	OK
4.000	S5018	27	95.138	-0.266	0.000	0.03		6.0	OK
1.011	S5019	26	94.405	0.000	0.000	0.98		155.6	OK
1.012	S5020 PH5 Connection	24	94.365	0.000	0.000	1.20		160.1	OK
1.013	S5021	33	94.003	-0.327	0.000	0.28		167.5	OK

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Summary Wizard of 480 minute 100 year Summer I+40% for Surface Network 5

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)
5.000	S5023	27	94.149	-0.371	0.000	0.07		18.5
5.001	S5025	33	93.996	-0.164	0.000	0.13		28.5
6.000	S5026	27	94.339	-0.253	0.000	0.06		6.5
6.001	S5027	33	93.997	-0.138	0.000	0.15		19.3
5.002	S5028	33	93.992	-0.025	0.000	0.30		51.8
1.014	S5029	30	93.991	0.020	0.000	0.85		224.2
1.015	S5030	29	93.987	0.060	0.000	1.24		225.0
1.016	S8121	29	93.985	0.083	0.000	1.24		230.7
1.017	S5036 - Headwall	29	93.983	-0.342	0.000	0.25		242.2
7.000	S8135	27	96.304	-0.315	0.000	0.15		20.6
7.001	S8136	27	96.252	-0.291	0.000	0.20		27.7
7.002	S8137	27	96.204	-0.270	0.000	0.26		34.7
7.003	S8161	27	96.160	-0.254	0.000	0.26		37.1
8.000	S8151	27	96.593	-0.234	0.000	0.11		16.7
7.004	S8162	27	96.117	-0.222	0.000	0.39		53.7
7.005	S8152	27	96.066	-0.204	0.000	0.58		66.4
9.000	S8144	27	96.299	-0.251	0.000	0.06		5.2
9.001	S8145	27	96.068	-0.307	0.000	0.08		11.1
7.006	S8146	27	95.930	-0.299	0.000	0.25		82.1
10.000	S8164	27	95.695	-0.331	0.000	0.03		5.0
7.007	S8147	27	95.582	-0.298	0.000	0.25		90.7
7.008	S8150	27	95.146	-0.319	0.000	0.33		93.1
7.009	S8149	25	94.954	-0.311	0.000	0.35		115.9
11.000	S5037	27	95.205	-0.175	0.000	0.11		4.2
11.001	S5038	27	95.004	-0.229	0.000	0.13		7.9
11.002	S5039	27	94.929	-0.227	0.000	0.14		8.4
12.000	S5040	27	95.241	-0.142	0.000	0.30		11.4
7.010	S5041	27	94.779	-0.299	0.000	0.38		139.3
7.011	S5042	27	94.506	-0.349	0.000	0.25		143.8
7.012	S5047	29	93.985	-0.035	0.000	0.35		146.7
7.013	S5048 - Headwall	29	93.983	0.033	0.000	0.48		145.5
1.018	S5049 - Headwall	29	93.982	0.032	0.000	0.77		388.7
1.019	S5050 Control Chamber	12	93.981	0.081	0.000	0.02		12.3

PN	US/MH Name	Status
5.000	S5023	OK
5.001	S5025	OK
6.000	S5026	OK
6.001	S5027	OK
5.002	S5028	OK
1.014	S5029	SURCHARGED
1.015	S5030	SURCHARGED
1.016	S8121	SURCHARGED
1.017	S5036 - Headwall	OK

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Summary Wizard of 480 minute 100 year Summer I+40% for Surface Network 5

PN	US/MH Name	Status
7.000	S8135	OK
7.001	S8136	OK
7.002	S8137	OK
7.003	S8161	OK
8.000	S8151	OK
7.004	S8162	OK
7.005	S8152	OK
9.000	S8144	OK
9.001	S8145	OK
7.006	S8146	OK
10.000	S8164	OK
7.007	S8147	OK
7.008	S8150	OK
7.009	S8149	OK
11.000	S5037	OK
11.001	S5038	OK
11.002	S5039	OK
12.000	S5040	OK
7.010	S5041	OK
7.011	S5042	OK
7.012	S5047	OK
7.013	S5048 - Headwall	SURCHARGED
1.018	S5049 - Headwall	SURCHARGED
1.019	S5050 Control Chamber	SURCHARGED

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Summary Wizard of 600 minute 100 year Summer I+40% for Surface Network 5

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.410
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.800	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 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	S8142	32	96.791	-0.324	0.000	0.04		8.4	OK
2.000	S8133	32	97.816	-0.244	0.000	0.08		13.9	OK
1.001	S8134	32	96.217	-0.333	0.000	0.15		28.0	OK
1.002	S8141	32	96.037	-0.408	0.000	0.11		34.9	OK
1.003	S8139	32	95.840	-0.415	0.000	0.10		37.7	OK
1.004	S8140	32	95.447	-0.398	0.000	0.13		48.2	OK
1.005	S4008	32	95.314	-0.312	0.000	0.35		56.5	OK
1.006	S4011	32	95.194	-0.395	0.000	0.14		61.3	OK
1.007	S4012	32	94.726	-0.359	0.000	0.22		69.3	OK
3.000	S8157	32	96.027	-0.353	0.000	0.01		3.2	OK
3.001	S8159	32	95.236	-0.384	0.000	0.05		13.5	OK
3.002	S8154	32	94.999	-0.341	0.000	0.13		20.7	OK
3.003	S8155	32	94.863	-0.442	0.000	0.06		31.2	OK
1.008	S5015	32	94.544	-0.301	0.000	0.38		108.4	OK
1.009	S5016	31	94.398	-0.307	0.000	0.30		110.9	OK
1.010	S5017 - PH4 Connection	31	94.348	-0.127	0.000	0.60		122.9	OK
4.000	S5018	32	95.136	-0.268	0.000	0.02		5.0	OK
1.011	S5019	31	94.313	-0.092	0.000	0.82		129.6	OK
1.012	S5020 PH5 Connection	31	94.276	-0.089	0.000	1.00		133.3	OK
1.013	S5021	32	94.008	-0.322	0.000	0.23		139.5	OK

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Summary Wizard of 600 minute 100 year Summer I+40% for Surface Network 5

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)
5.000	S5023	33	94.141	-0.379	0.000	0.06		15.5
5.001	S5025	31	94.007	-0.153	0.000	0.11		23.4
6.000	S5026	32	94.335	-0.257	0.000	0.05		5.4
6.001	S5027	31	94.008	-0.127	0.000	0.12		16.0
5.002	S5028	30	94.007	-0.010	0.000	0.25		42.2
1.014	S5029	29	94.006	0.035	0.000	0.71		186.2
1.015	S5030	28	94.003	0.076	0.000	1.03		186.9
1.016	S8121	27	94.001	0.100	0.000	1.04		193.2
1.017	S5036 - Headwall	27	94.000	-0.325	0.000	0.21		201.6
7.000	S8135	32	96.289	-0.329	0.000	0.12		17.3
7.001	S8136	32	96.235	-0.307	0.000	0.17		23.2
7.002	S8137	32	96.184	-0.290	0.000	0.21		29.1
7.003	S8161	32	96.138	-0.276	0.000	0.22		31.0
8.000	S8151	32	96.588	-0.239	0.000	0.09		14.0
7.004	S8162	32	96.093	-0.246	0.000	0.32		45.0
7.005	S8152	32	96.041	-0.229	0.000	0.48		55.7
9.000	S8144	32	96.294	-0.256	0.000	0.05		4.3
9.001	S8145	32	96.061	-0.314	0.000	0.06		9.3
7.006	S8146	32	95.917	-0.312	0.000	0.21		68.8
10.000	S8164	32	95.692	-0.334	0.000	0.03		4.2
7.007	S8147	32	95.569	-0.311	0.000	0.21		76.1
7.008	S8150	32	95.126	-0.339	0.000	0.27		78.1
7.009	S8149	32	94.933	-0.332	0.000	0.29		97.3
11.000	S5037	32	95.201	-0.179	0.000	0.10		3.5
11.001	S5038	32	94.999	-0.235	0.000	0.11		6.6
11.002	S5039	32	94.923	-0.233	0.000	0.11		7.0
12.000	S5040	32	95.233	-0.149	0.000	0.25		9.6
7.010	S5041	32	94.757	-0.321	0.000	0.32		117.0
7.011	S5042	32	94.491	-0.364	0.000	0.21		121.0
7.012	S5047	27	94.002	-0.018	0.000	0.30		123.7
7.013	S5048 - Headwall	27	94.000	0.050	0.000	0.41		123.3
1.018	S5049 - Headwall	27	93.999	0.049	0.000	0.63		317.3
1.019	S5050 Control Chamber	10	93.998	0.098	0.000	0.02		12.3

PN	US/MH Name	Status
5.000	S5023	OK
5.001	S5025	OK
6.000	S5026	OK
6.001	S5027	OK
5.002	S5028	OK
1.014	S5029	SURCHARGED
1.015	S5030	SURCHARGED
1.016	S8121	SURCHARGED
1.017	S5036 - Headwall	OK

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Summary Wizard of 600 minute 100 year Summer I+40% for Surface Network 5

PN	US/MH Name	Status
7.000	S8135	OK
7.001	S8136	OK
7.002	S8137	OK
7.003	S8161	OK
8.000	S8151	OK
7.004	S8162	OK
7.005	S8152	OK
9.000	S8144	OK
9.001	S8145	OK
7.006	S8146	OK
10.000	S8164	OK
7.007	S8147	OK
7.008	S8150	OK
7.009	S8149	OK
11.000	S5037	OK
11.001	S5038	OK
11.002	S5039	OK
12.000	S5040	OK
7.010	S5041	OK
7.011	S5042	OK
7.012	S5047	OK
7.013	S5048 - Headwall	SURCHARGED
1.018	S5049 - Headwall	SURCHARGED
1.019	S5050 Control Chamber	SURCHARGED

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Summary Wizard of 720 minute 100 year Summer I+40% for Surface Network 5

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.410
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.800	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 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	S8142	35		96.787	-0.328	0.000	0.04		7.2	OK
2.000	S8133	35		97.811	-0.249	0.000	0.07		12.0	OK
1.001	S8134	35		96.208	-0.342	0.000	0.13		24.2	OK
1.002	S8141	35		96.030	-0.415	0.000	0.10		30.1	OK
1.003	S8139	35		95.832	-0.423	0.000	0.08		32.6	OK
1.004	S8140	35		95.438	-0.407	0.000	0.12		41.7	OK
1.005	S4008	35		95.297	-0.329	0.000	0.30		48.8	OK
1.006	S4011	35		95.185	-0.404	0.000	0.12		53.0	OK
1.007	S4012	35		94.714	-0.371	0.000	0.19		59.9	OK
3.000	S8157	35		96.024	-0.356	0.000	0.01		2.7	OK
3.001	S8159	35		95.232	-0.388	0.000	0.05		11.7	OK
3.002	S8154	35		94.991	-0.349	0.000	0.12		17.9	OK
3.003	S8155	35		94.856	-0.449	0.000	0.05		27.0	OK
1.008	S5015	35		94.527	-0.318	0.000	0.33		93.7	OK
1.009	S5016	35		94.364	-0.341	0.000	0.26		96.0	OK
1.010	S5017 - PH4 Connection	35		94.295	-0.180	0.000	0.52		106.6	OK
4.000	S5018	35		95.134	-0.270	0.000	0.02		4.4	OK
1.011	S5019	35		94.257	-0.148	0.000	0.71		112.6	OK
1.012	S5020 PH5 Connection	35		94.219	-0.146	0.000	0.87		115.9	OK
1.013	S5021	30		94.019	-0.311	0.000	0.20		121.6	OK

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Summary Wizard of 720 minute 100 year Summer I+40% for Surface Network 5

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)
5.000	S5023	36	94.136	-0.384	0.000	0.05		13.4
5.001	S5025	29	94.018	-0.142	0.000	0.09		20.6
6.000	S5026	35	94.332	-0.260	0.000	0.04		4.7
6.001	S5027	29	94.018	-0.117	0.000	0.11		14.0
5.002	S5028	27	94.018	0.001	0.000	0.22		37.4
1.014	S5029	27	94.017	0.047	0.000	0.62		163.4
1.015	S5030	26	94.014	0.087	0.000	0.91		164.2
1.016	S8121	26	94.012	0.111	0.000	0.91		169.8
1.017	S5036 - Headwall	26	94.011	-0.314	0.000	0.18		177.8
7.000	S8135	35	96.279	-0.339	0.000	0.11		14.9
7.001	S8136	35	96.224	-0.319	0.000	0.14		20.1
7.002	S8137	35	96.171	-0.303	0.000	0.19		25.1
7.003	S8161	35	96.123	-0.291	0.000	0.19		26.8
8.000	S8151	35	96.583	-0.244	0.000	0.08		12.1
7.004	S8162	35	96.076	-0.263	0.000	0.28		38.9
7.005	S8152	35	96.022	-0.248	0.000	0.42		48.1
9.000	S8144	35	96.291	-0.259	0.000	0.05		3.8
9.001	S8145	35	96.056	-0.319	0.000	0.05		8.0
7.006	S8146	35	95.906	-0.323	0.000	0.18		59.5
10.000	S8164	35	95.690	-0.336	0.000	0.02		3.6
7.007	S8147	35	95.558	-0.322	0.000	0.18		65.8
7.008	S8150	35	95.112	-0.353	0.000	0.24		67.5
7.009	S8149	35	94.919	-0.346	0.000	0.25		84.2
11.000	S5037	35	95.198	-0.182	0.000	0.08		3.0
11.001	S5038	35	94.995	-0.239	0.000	0.09		5.7
11.002	S5039	35	94.918	-0.237	0.000	0.10		6.1
12.000	S5040	35	95.228	-0.155	0.000	0.21		8.3
7.010	S5041	35	94.741	-0.337	0.000	0.28		101.2
7.011	S5042	35	94.479	-0.376	0.000	0.18		104.6
7.012	S5047	26	94.013	-0.007	0.000	0.26		106.9
7.013	S5048 - Headwall	26	94.012	0.062	0.000	0.35		106.4
1.018	S5049 - Headwall	25	94.011	0.061	0.000	0.54		273.9
1.019	S5050 Control Chamber	9	94.010	0.110	0.000	0.02		12.3

PN	US/MH Name	Status
5.000	S5023	OK
5.001	S5025	OK
6.000	S5026	OK
6.001	S5027	OK
5.002	S5028	SURCHARGED
1.014	S5029	SURCHARGED
1.015	S5030	SURCHARGED
1.016	S8121	SURCHARGED
1.017	S5036 - Headwall	OK

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Summary Wizard of 720 minute 100 year Summer I+40% for Surface Network 5

PN	US/MH Name	Status
7.000	S8135	OK
7.001	S8136	OK
7.002	S8137	OK
7.003	S8161	OK
8.000	S8151	OK
7.004	S8162	OK
7.005	S8152	OK
9.000	S8144	OK
9.001	S8145	OK
7.006	S8146	OK
10.000	S8164	OK
7.007	S8147	OK
7.008	S8150	OK
7.009	S8149	OK
11.000	S5037	OK
11.001	S5038	OK
11.002	S5039	OK
12.000	S5040	OK
7.010	S5041	OK
7.011	S5042	OK
7.012	S5047	OK
7.013	S5048 - Headwall	SURCHARGED
1.018	S5049 - Headwall	SURCHARGED
1.019	S5050 Control Chamber	SURCHARGED

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Summary Wizard of 960 minute 100 year Summer I+40% for Surface Network 5

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.410
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.800	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 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	S8142	40		96.783	-0.332	0.000	0.03		5.7	OK
2.000	S8133	40		97.805	-0.255	0.000	0.05		9.5	OK
1.001	S8134	40		96.197	-0.353	0.000	0.11		19.2	OK
1.002	S8141	40		96.017	-0.428	0.000	0.08		23.9	OK
1.003	S8139	40		95.818	-0.437	0.000	0.07		25.8	OK
1.004	S8140	40		95.427	-0.418	0.000	0.09		33.1	OK
1.005	S4008	40		95.274	-0.352	0.000	0.24		38.8	OK
1.006	S4011	40		95.173	-0.416	0.000	0.10		42.1	OK
1.007	S4012	40		94.695	-0.390	0.000	0.15		47.6	OK
3.000	S8157	40		96.020	-0.360	0.000	0.01		2.2	OK
3.001	S8159	40		95.225	-0.395	0.000	0.04		9.3	OK
3.002	S8154	40		94.981	-0.359	0.000	0.09		14.2	OK
3.003	S8155	40		94.848	-0.457	0.000	0.04		21.4	OK
1.008	S5015	40		94.502	-0.343	0.000	0.26		74.4	OK
1.009	S5016	40		94.341	-0.364	0.000	0.21		76.2	OK
1.010	S5017 - PH4 Connection	40		94.240	-0.235	0.000	0.41		84.6	OK
4.000	S5018	40		95.128	-0.276	0.000	0.02		3.5	OK
1.011	S5019	40		94.199	-0.206	0.000	0.56		89.4	OK
1.012	S5020 PH5 Connection	40		94.162	-0.203	0.000	0.69		92.1	OK
1.013	S5021	27		94.032	-0.298	0.000	0.16		96.5	OK

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Summary Wizard of 960 minute 100 year Summer I+40% for Surface Network 5

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)
5.000	S5023	42	94.128	-0.392	0.000	0.04		10.6
5.001	S5025	26	94.031	-0.129	0.000	0.07		16.4
6.000	S5026	40	94.328	-0.264	0.000	0.03		3.7
6.001	S5027	26	94.031	-0.104	0.000	0.08		11.1
5.002	S5028	26	94.031	0.014	0.000	0.17		29.7
1.014	S5029	25	94.030	0.060	0.000	0.49		129.6
1.015	S5030	25	94.028	0.101	0.000	0.72		130.2
1.016	S8121	25	94.027	0.126	0.000	0.72		134.5
1.017	S5036 - Headwall	25	94.026	-0.299	0.000	0.14		141.0
7.000	S8135	40	96.266	-0.352	0.000	0.08		11.8
7.001	S8136	40	96.207	-0.336	0.000	0.11		15.9
7.002	S8137	40	96.153	-0.321	0.000	0.15		19.9
7.003	S8161	40	96.103	-0.311	0.000	0.15		21.3
8.000	S8151	40	96.576	-0.251	0.000	0.06		9.6
7.004	S8162	40	96.052	-0.287	0.000	0.22		30.9
7.005	S8152	40	95.998	-0.272	0.000	0.33		38.2
9.000	S8144	40	96.287	-0.263	0.000	0.04		3.0
9.001	S8145	40	96.050	-0.325	0.000	0.04		6.4
7.006	S8146	40	95.891	-0.338	0.000	0.14		47.3
10.000	S8164	40	95.684	-0.341	0.000	0.02		2.9
7.007	S8147	40	95.543	-0.337	0.000	0.14		52.2
7.008	S8150	40	95.093	-0.372	0.000	0.19		53.6
7.009	S8149	40	94.899	-0.366	0.000	0.20		66.8
11.000	S5037	40	95.192	-0.188	0.000	0.07		2.4
11.001	S5038	40	94.987	-0.247	0.000	0.07		4.6
11.002	S5039	40	94.911	-0.245	0.000	0.08		4.8
12.000	S5040	40	95.220	-0.163	0.000	0.17		6.6
7.010	S5041	40	94.720	-0.358	0.000	0.22		80.3
7.011	S5042	40	94.461	-0.394	0.000	0.14		83.1
7.012	S5047	25	94.027	0.007	0.000	0.20		84.8
7.013	S5048 - Headwall	25	94.026	0.076	0.000	0.28		84.4
1.018	S5049 - Headwall	22	94.026	0.076	0.000	0.43		216.8
1.019	S5050 Control Chamber	8	94.025	0.125	0.000	0.02		12.3

PN	US/MH Name	Status
5.000	S5023	OK
5.001	S5025	OK
6.000	S5026	OK
6.001	S5027	OK
5.002	S5028	SURCHARGED
1.014	S5029	SURCHARGED
1.015	S5030	SURCHARGED
1.016	S8121	SURCHARGED
1.017	S5036 - Headwall	OK

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Summary Wizard of 960 minute 100 year Summer I+40% for Surface Network 5

PN	US/MH Name	Status
7.000	S8135	OK
7.001	S8136	OK
7.002	S8137	OK
7.003	S8161	OK
8.000	S8151	OK
7.004	S8162	OK
7.005	S8152	OK
9.000	S8144	OK
9.001	S8145	OK
7.006	S8146	OK
10.000	S8164	OK
7.007	S8147	OK
7.008	S8150	OK
7.009	S8149	OK
11.000	S5037	OK
11.001	S5038	OK
11.002	S5039	OK
12.000	S5040	OK
7.010	S5041	OK
7.011	S5042	OK
7.012	S5047	SURCHARGED
7.013	S5048 - Headwall	SURCHARGED
1.018	S5049 - Headwall	SURCHARGED
1.019	S5050 Control Chamber	SURCHARGED

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Summary Wizard of 1440 minute 100 year Summer I+40% for Surface Network 5

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.410
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.800	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 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	S8142	49	96.778	-0.337	0.000	0.02		4.1	OK
2.000	S8133	49	97.798	-0.262	0.000	0.04		6.9	OK
1.001	S8134	49	96.182	-0.368	0.000	0.08		13.9	OK
1.002	S8141	49	96.000	-0.445	0.000	0.06		17.3	OK
1.003	S8139	49	95.804	-0.451	0.000	0.05		18.6	OK
1.004	S8140	49	95.408	-0.437	0.000	0.07		23.9	OK
1.005	S4008	49	95.246	-0.380	0.000	0.17		28.0	OK
1.006	S4011	49	95.154	-0.435	0.000	0.07		30.4	OK
1.007	S4012	49	94.675	-0.410	0.000	0.11		34.3	OK
3.000	S8157	49	96.016	-0.364	0.000	0.01		1.6	OK
3.001	S8159	49	95.218	-0.402	0.000	0.03		6.7	OK
3.002	S8154	49	94.965	-0.375	0.000	0.07		10.2	OK
3.003	S8155	49	94.839	-0.466	0.000	0.03		15.4	OK
1.008	S5015	49	94.474	-0.371	0.000	0.19		53.6	OK
1.009	S5016	49	94.314	-0.391	0.000	0.15		55.0	OK
1.010	S5017 - PH4 Connection	48	94.184	-0.291	0.000	0.30		61.0	OK
4.000	S5018	49	95.121	-0.283	0.000	0.01		2.5	OK
1.011	S5019	49	94.140	-0.265	0.000	0.41		64.5	OK
1.012	S5020 PH5 Connection	49	94.102	-0.263	0.000	0.50		66.4	OK
1.013	S5021	26	94.036	-0.294	0.000	0.12		69.6	OK

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Summary Wizard of 1440 minute 100 year Summer I+40% for Surface Network 5

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)
5.000	S5023	50	94.121	-0.399	0.000	0.03		7.7
5.001	S5025	25	94.035	-0.125	0.000	0.05		11.9
6.000	S5026	49	94.324	-0.268	0.000	0.02		2.7
6.001	S5027	25	94.035	-0.100	0.000	0.06		8.0
5.002	S5028	25	94.035	0.019	0.000	0.13		21.4
1.014	S5029	24	94.034	0.064	0.000	0.35		93.4
1.015	S5030	24	94.033	0.106	0.000	0.52		93.6
1.016	S8121	24	94.032	0.131	0.000	0.52		96.7
1.017	S5036 - Headwall	24	94.031	-0.294	0.000	0.10		101.4
7.000	S8135	49	96.250	-0.369	0.000	0.06		8.5
7.001	S8136	49	96.189	-0.354	0.000	0.08		11.5
7.002	S8137	49	96.130	-0.343	0.000	0.11		14.4
7.003	S8161	49	96.078	-0.336	0.000	0.11		15.4
8.000	S8151	49	96.568	-0.259	0.000	0.05		6.9
7.004	S8162	49	96.026	-0.314	0.000	0.16		22.3
7.005	S8152	48	95.969	-0.301	0.000	0.24		27.6
9.000	S8144	49	96.282	-0.268	0.000	0.03		2.1
9.001	S8145	49	96.043	-0.332	0.000	0.03		4.6
7.006	S8146	48	95.875	-0.354	0.000	0.10		34.1
10.000	S8164	49	95.675	-0.350	0.000	0.01		2.1
7.007	S8147	48	95.526	-0.354	0.000	0.10		37.7
7.008	S8150	48	95.068	-0.397	0.000	0.14		38.7
7.009	S8149	48	94.872	-0.393	0.000	0.15		48.2
11.000	S5037	49	95.186	-0.194	0.000	0.05		1.7
11.001	S5038	49	94.978	-0.256	0.000	0.05		3.3
11.002	S5039	49	94.901	-0.254	0.000	0.06		3.5
12.000	S5040	49	95.210	-0.173	0.000	0.12		4.7
7.010	S5041	48	94.693	-0.385	0.000	0.16		57.9
7.011	S5042	48	94.442	-0.413	0.000	0.10		59.9
7.012	S5047	24	94.033	0.013	0.000	0.15		61.2
7.013	S5048 - Headwall	24	94.031	0.081	0.000	0.20		60.8
1.018	S5049 - Headwall	21	94.031	0.081	0.000	0.31		156.2
1.019	S5050 Control Chamber	7	94.030	0.130	0.000	0.02		12.3

PN	US/MH Name	Status
5.000	S5023	OK
5.001	S5025	OK
6.000	S5026	OK
6.001	S5027	OK
5.002	S5028	SURCHARGED
1.014	S5029	SURCHARGED
1.015	S5030	SURCHARGED
1.016	S8121	SURCHARGED
1.017	S5036 - Headwall	OK

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Summary Wizard of 1440 minute 100 year Summer I+40% for Surface Network 5

PN	US/MH Name	Status
7.000	S8135	OK
7.001	S8136	OK
7.002	S8137	OK
7.003	S8161	OK
8.000	S8151	OK
7.004	S8162	OK
7.005	S8152	OK
9.000	S8144	OK
9.001	S8145	OK
7.006	S8146	OK
10.000	S8164	OK
7.007	S8147	OK
7.008	S8150	OK
7.009	S8149	OK
11.000	S5037	OK
11.001	S5038	OK
11.002	S5039	OK
12.000	S5040	OK
7.010	S5041	OK
7.011	S5042	OK
7.012	S5047	SURCHARGED
7.013	S5048 - Headwall	SURCHARGED
1.018	S5049 - Headwall	SURCHARGED
1.019	S5050 Control Chamber	SURCHARGED

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Summary Wizard of 15 minute 1 year Winter I+0% for Surface Network 5

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.410
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.800	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 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)
1.000	S8142	18	96.812	-0.303	0.000	0.08		15.1
2.000	S8133	18	97.836	-0.224	0.000	0.14		25.4
1.001	S8134	18	96.261	-0.289	0.000	0.27		49.7
1.002	S8141	19	96.079	-0.366	0.000	0.20		60.4
1.003	S8139	19	95.873	-0.382	0.000	0.17		63.6
1.004	S8140	19	95.487	-0.358	0.000	0.22		79.0
1.005	S4008	19	95.382	-0.244	0.000	0.56		90.5
1.006	S4011	19	95.231	-0.358	0.000	0.22		96.0
1.007	S4012	19	94.771	-0.314	0.000	0.34		106.4
3.000	S8157	18	96.043	-0.337	0.000	0.02		5.9
3.001	S8159	19	95.260	-0.360	0.000	0.09		21.9
3.002	S8154	19	95.031	-0.309	0.000	0.21		32.5
3.003	S8155	19	94.888	-0.417	0.000	0.09		48.4
1.008	S5015	21	94.603	-0.242	0.000	0.57		160.2
1.009	S5016	22	94.509	-0.196	0.000	0.43		159.3
1.010	S5017 - PH4 Connection	22	94.468	-0.007	0.000	0.81		168.0
4.000	S5018	18	95.145	-0.259	0.000	0.05		9.3
1.011	S5019	23	94.410	0.005	0.000	1.10		174.2
1.012	S5020 PH5 Connection	26	94.365	0.000	0.000	1.33		176.6
1.013	S5021	35	93.970	-0.360	0.000	0.30		179.6

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Summary Wizard of 15 minute 1 year Winter I+0% for Surface Network 5

PN	US/MH Name	Status
1.000	S8142	OK
2.000	S8133	OK
1.001	S8134	OK
1.002	S8141	OK
1.003	S8139	OK
1.004	S8140	OK
1.005	S4008	OK
1.006	S4011	OK
1.007	S4012	OK
3.000	S8157	OK
3.001	S8159	OK
3.002	S8154	OK
3.003	S8155	OK
1.008	S5015	OK
1.009	S5016	OK
1.010	S5017 - PH4 Connection	OK
4.000	S5018	OK
1.011	S5019	SURCHARGED
1.012	S5020 PH5 Connection	OK
1.013	S5021	OK

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Summary Wizard of 15 minute 1 year Winter I+0% for Surface Network 5

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
5.000	S5023	18	94.170	-0.350	0.000	0.11		28.0	OK
5.001	S5025	36	93.936	-0.224	0.000	0.19		41.5	OK
6.000	S5026	18	94.353	-0.238	0.000	0.09		9.8	OK
6.001	S5027	36	93.937	-0.198	0.000	0.20		26.7	OK
5.002	S5028	35	93.933	-0.084	0.000	0.39		66.6	OK
1.014	S5029	35	93.928	-0.042	0.000	0.76		200.7	OK
1.015	S5030	35	93.878	-0.049	0.000	1.08		195.7	OK
1.016	S8121	35	93.824	-0.077	0.000	1.06		197.1	OK
1.017	S5036 - Headwall	39	93.684	-0.641	0.000	0.20		195.5	OK
7.000	S8135	19	96.333	-0.286	0.000	0.22		31.0	OK
7.001	S8136	20	96.280	-0.263	0.000	0.28		38.1	OK
7.002	S8137	21	96.231	-0.243	0.000	0.33		45.3	OK
7.003	S8161	21	96.186	-0.228	0.000	0.34		46.9	OK
8.000	S8151	18	96.611	-0.216	0.000	0.17		25.8	OK
7.004	S8162	22	96.142	-0.197	0.000	0.46		63.9	OK
7.005	S8152	22	96.089	-0.181	0.000	0.66		76.2	OK
9.000	S8144	18	96.313	-0.237	0.000	0.10		7.9	OK
9.001	S8145	19	96.082	-0.293	0.000	0.11		15.7	OK
7.006	S8146	22	95.941	-0.288	0.000	0.28		93.3	OK
10.000	S8164	18	95.705	-0.320	0.000	0.05		7.7	OK
7.007	S8147	22	95.593	-0.287	0.000	0.28		102.2	OK
7.008	S8150	23	95.159	-0.306	0.000	0.36		103.5	OK
7.009	S8149	23	94.965	-0.300	0.000	0.38		126.5	OK
11.000	S5037	18	95.218	-0.161	0.000	0.17		6.4	OK
11.001	S5038	19	95.020	-0.213	0.000	0.18		11.3	OK
11.002	S5039	19	94.944	-0.212	0.000	0.19		11.8	OK
12.000	S5040	18	95.265	-0.117	0.000	0.46		17.8	OK
7.010	S5041	23	94.793	-0.285	0.000	0.43		155.3	OK
7.011	S5042	22	94.517	-0.338	0.000	0.27		160.4	OK
7.012	S5047	36	93.723	-0.297	0.000	0.39		164.1	OK
7.013	S5048 - Headwall	40	93.680	-0.270	0.000	0.52		157.3	OK
1.018	S5049 - Headwall	45	93.627	-0.323	0.000	0.62		311.6	OK
1.019	S5050 Control Chamber	71	93.250	-0.650	0.000	0.01		5.3	OK

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Summary Wizard of 30 minute 1 year Winter I+0% for Surface Network 5

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.410
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.800	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 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	S8142	24	96.801	-0.314	0.000	0.06		11.9	OK
2.000	S8133	24	97.827	-0.233	0.000	0.11		19.9	OK
1.001	S8134	25	96.241	-0.309	0.000	0.22		39.4	OK
1.002	S8141	26	96.059	-0.386	0.000	0.16		48.4	OK
1.003	S8139	26	95.858	-0.397	0.000	0.13		51.8	OK
1.004	S8140	26	95.471	-0.374	0.000	0.18		65.2	OK
1.005	S4008	26	95.354	-0.272	0.000	0.47		75.9	OK
1.006	S4011	26	95.217	-0.372	0.000	0.19		81.6	OK
1.007	S4012	26	94.752	-0.333	0.000	0.29		90.9	OK
3.000	S8157	24	96.036	-0.344	0.000	0.02		4.6	OK
3.001	S8159	26	95.249	-0.371	0.000	0.07		18.2	OK
3.002	S8154	26	95.018	-0.322	0.000	0.18		27.5	OK
3.003	S8155	26	94.878	-0.427	0.000	0.08		41.1	OK
1.008	S5015	26	94.581	-0.264	0.000	0.49		139.9	OK
1.009	S5016	25	94.488	-0.217	0.000	0.38		138.7	OK
1.010	S5017 - PH4 Connection	25	94.450	-0.025	0.000	0.72		147.7	OK
4.000	S5018	24	95.140	-0.264	0.000	0.04		7.2	OK
1.011	S5019	27	94.405	0.000	0.000	0.97		154.0	OK
1.012	S5020 PH5 Connection	29	94.365	0.000	0.000	1.18		156.9	OK
1.013	S5021	37	93.949	-0.381	0.000	0.27		160.5	OK

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Summary Wizard of 30 minute 1 year Winter I+0% for Surface Network 5

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
5.000	S5023	24	94.159	-0.361	0.000	0.09		22.2	OK
5.001	S5025	37	93.915	-0.245	0.000	0.15		32.6	OK
6.000	S5026	24	94.345	-0.247	0.000	0.07		7.8	OK
6.001	S5027	37	93.916	-0.219	0.000	0.17		22.0	OK
5.002	S5028	37	93.909	-0.107	0.000	0.31		53.1	OK
1.014	S5029	37	93.902	-0.068	0.000	0.73		192.4	OK
1.015	S5030	37	93.855	-0.072	0.000	1.05		190.0	OK
1.016	S8121	37	93.802	-0.099	0.000	1.04		193.5	OK
1.017	S5036 - Headwall	38	93.686	-0.639	0.000	0.20		196.2	OK
7.000	S8135	26	96.314	-0.304	0.000	0.17		24.5	OK
7.001	S8136	26	96.261	-0.282	0.000	0.23		31.5	OK
7.002	S8137	26	96.211	-0.262	0.000	0.28		38.3	OK
7.003	S8161	26	96.167	-0.247	0.000	0.29		40.2	OK
8.000	S8151	24	96.599	-0.227	0.000	0.13		20.0	OK
7.004	S8162	26	96.123	-0.217	0.000	0.40		56.1	OK
7.005	S8152	26	96.071	-0.200	0.000	0.59		68.3	OK
9.000	S8144	24	96.305	-0.245	0.000	0.08		6.2	OK
9.001	S8145	26	96.075	-0.300	0.000	0.09		12.8	OK
7.006	S8146	25	95.932	-0.297	0.000	0.25		83.9	OK
10.000	S8164	24	95.698	-0.327	0.000	0.04		6.0	OK
7.007	S8147	25	95.584	-0.296	0.000	0.25		92.2	OK
7.008	S8150	25	95.148	-0.317	0.000	0.33		94.3	OK
7.009	S8149	24	94.955	-0.310	0.000	0.35		116.2	OK
11.000	S5037	24	95.210	-0.170	0.000	0.14		5.1	OK
11.001	S5038	26	95.010	-0.223	0.000	0.15		9.1	OK
11.002	S5039	26	94.934	-0.221	0.000	0.16		9.7	OK
12.000	S5040	24	95.250	-0.132	0.000	0.36		13.7	OK
7.010	S5041	25	94.780	-0.298	0.000	0.39		140.8	OK
7.011	S5042	25	94.507	-0.348	0.000	0.25		145.5	OK
7.012	S5047	37	93.722	-0.298	0.000	0.36		148.3	OK
7.013	S5048 - Headwall	39	93.682	-0.268	0.000	0.47		144.2	OK
1.018	S5049 - Headwall	43	93.631	-0.319	0.000	0.63		315.0	OK
1.019	S5050 Control Chamber	69	93.279	-0.621	0.000	0.01		7.4	OK

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Summary Wizard of 60 minute 1 year Winter I+0% for Surface Network 5

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.410
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.800	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 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	S8142	33	96.790	-0.325	0.000	0.04		7.9	OK
2.000	S8133	33	97.814	-0.246	0.000	0.07		13.2	OK
1.001	S8134	33	96.214	-0.336	0.000	0.14		26.5	OK
1.002	S8141	33	96.034	-0.411	0.000	0.11		32.9	OK
1.003	S8139	33	95.837	-0.418	0.000	0.09		35.5	OK
1.004	S8140	33	95.443	-0.402	0.000	0.13		45.3	OK
1.005	S4008	33	95.307	-0.319	0.000	0.32		52.7	OK
1.006	S4011	33	95.190	-0.399	0.000	0.13		57.0	OK
1.007	S4012	33	94.721	-0.364	0.000	0.20		64.5	OK
3.000	S8157	33	96.026	-0.354	0.000	0.01		3.0	OK
3.001	S8159	33	95.234	-0.386	0.000	0.05		12.7	OK
3.002	S8154	33	94.995	-0.345	0.000	0.12		19.3	OK
3.003	S8155	33	94.860	-0.445	0.000	0.06		29.1	OK
1.008	S5015	33	94.536	-0.309	0.000	0.35		100.3	OK
1.009	S5016	33	94.373	-0.332	0.000	0.28		102.4	OK
1.010	S5017 - PH4 Connection	33	94.308	-0.167	0.000	0.54		112.1	OK
4.000	S5018	33	95.135	-0.269	0.000	0.02		4.8	OK
1.011	S5019	33	94.269	-0.136	0.000	0.74		117.2	OK
1.012	S5020 PH5 Connection	33	94.230	-0.135	0.000	0.91		120.6	OK
1.013	S5021	41	93.915	-0.415	0.000	0.21		125.8	OK

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Summary Wizard of 60 minute 1 year Winter I+0% for Surface Network 5

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
5.000	S5023	34	94.139	-0.381	0.000	0.06		14.7	OK
5.001	S5025	41	93.837	-0.323	0.000	0.10		22.3	OK
6.000	S5026	33	94.334	-0.258	0.000	0.05		5.1	OK
6.001	S5027	41	93.854	-0.281	0.000	0.12		15.2	OK
5.002	S5028	41	93.825	-0.191	0.000	0.22		37.9	OK
1.014	S5029	41	93.816	-0.154	0.000	0.62		162.5	OK
1.015	S5030	41	93.776	-0.151	0.000	0.90		162.9	OK
1.016	S8121	41	93.728	-0.174	0.000	0.90		168.0	OK
1.017	S5036 - Headwall	48	93.649	-0.676	0.000	0.18		172.3	OK
7.000	S8135	33	96.285	-0.334	0.000	0.12		16.3	OK
7.001	S8136	33	96.230	-0.313	0.000	0.16		21.7	OK
7.002	S8137	33	96.176	-0.297	0.000	0.20		26.8	OK
7.003	S8161	33	96.128	-0.286	0.000	0.20		28.6	OK
8.000	S8151	33	96.587	-0.240	0.000	0.09		13.3	OK
7.004	S8162	33	96.081	-0.258	0.000	0.30		40.9	OK
7.005	S8152	33	96.028	-0.243	0.000	0.44		50.3	OK
9.000	S8144	33	96.293	-0.257	0.000	0.05		4.1	OK
9.001	S8145	33	96.059	-0.316	0.000	0.06		8.7	OK
7.006	S8146	33	95.910	-0.319	0.000	0.19		62.1	OK
10.000	S8164	33	95.691	-0.334	0.000	0.03		4.0	OK
7.007	S8147	33	95.562	-0.318	0.000	0.19		68.5	OK
7.008	S8150	33	95.115	-0.350	0.000	0.24		70.1	OK
7.009	S8149	33	94.922	-0.343	0.000	0.26		87.1	OK
11.000	S5037	33	95.200	-0.179	0.000	0.09		3.3	OK
11.001	S5038	33	94.997	-0.236	0.000	0.10		6.3	OK
11.002	S5039	33	94.921	-0.235	0.000	0.11		6.6	OK
12.000	S5040	33	95.232	-0.151	0.000	0.24		9.1	OK
7.010	S5041	33	94.745	-0.333	0.000	0.29		104.9	OK
7.011	S5042	33	94.482	-0.373	0.000	0.19		108.5	OK
7.012	S5047	44	93.685	-0.335	0.000	0.27		110.8	OK
7.013	S5048 - Headwall	48	93.640	-0.310	0.000	0.36		109.0	OK
1.018	S5049 - Headwall	54	93.592	-0.358	0.000	0.54		270.8	OK
1.019	S5050 Control Chamber	67	93.309	-0.591	0.000	0.02		9.3	OK

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Summary Wizard of 120 minute 1 year Winter I+0% for Surface Network 5

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.410
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.800	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 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	S8142	45	96.781	-0.334	0.000	0.03		5.0	OK
2.000	S8133	45	97.802	-0.258	0.000	0.05		8.3	OK
1.001	S8134	45	96.192	-0.358	0.000	0.09		16.8	OK
1.002	S8141	45	96.009	-0.436	0.000	0.07		20.9	OK
1.003	S8139	45	95.812	-0.443	0.000	0.06		22.5	OK
1.004	S8140	45	95.419	-0.426	0.000	0.08		28.8	OK
1.005	S4008	45	95.263	-0.363	0.000	0.21		33.6	OK
1.006	S4011	44	95.166	-0.423	0.000	0.08		36.4	OK
1.007	S4012	44	94.686	-0.399	0.000	0.13		41.0	OK
3.000	S8157	45	96.018	-0.362	0.000	0.01		1.9	OK
3.001	S8159	45	95.222	-0.398	0.000	0.03		8.1	OK
3.002	S8154	45	94.975	-0.365	0.000	0.08		12.3	OK
3.003	S8155	45	94.844	-0.461	0.000	0.04		18.7	OK
1.008	S5015	44	94.490	-0.355	0.000	0.23		64.0	OK
1.009	S5016	44	94.330	-0.375	0.000	0.18		65.4	OK
1.010	S5017 - PH4 Connection	44	94.213	-0.262	0.000	0.35		72.8	OK
4.000	S5018	45	95.125	-0.279	0.000	0.01		3.0	OK
1.011	S5019	44	94.170	-0.235	0.000	0.49		77.0	OK
1.012	S5020 PH5 Connection	46	94.132	-0.233	0.000	0.60		79.3	OK
1.013	S5021	47	93.877	-0.453	0.000	0.14		83.0	OK

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Summary Wizard of 120 minute 1 year Winter I+0% for Surface Network 5

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
5.000	S5023	47	94.125	-0.395	0.000	0.04		9.3	OK
5.001	S5025	48	93.784	-0.376	0.000	0.06		14.4	OK
6.000	S5026	45	94.326	-0.266	0.000	0.03		3.3	OK
6.001	S5027	48	93.827	-0.308	0.000	0.07		9.7	OK
5.002	S5028	47	93.716	-0.301	0.000	0.15		25.7	OK
1.014	S5029	47	93.706	-0.265	0.000	0.42		110.9	OK
1.015	S5030	52	93.669	-0.258	0.000	0.61		111.1	OK
1.016	S8121	55	93.625	-0.276	0.000	0.62		114.5	OK
1.017	S5036 - Headwall	56	93.572	-0.753	0.000	0.12		120.2	OK
7.000	S8135	45	96.260	-0.359	0.000	0.07		10.4	OK
7.001	S8136	45	96.199	-0.344	0.000	0.10		13.8	OK
7.002	S8137	44	96.142	-0.331	0.000	0.13		17.2	OK
7.003	S8161	44	96.091	-0.323	0.000	0.13		18.3	OK
8.000	S8151	45	96.572	-0.254	0.000	0.06		8.4	OK
7.004	S8162	44	96.040	-0.300	0.000	0.19		26.5	OK
7.005	S8152	44	95.984	-0.286	0.000	0.28		32.7	OK
9.000	S8144	45	96.285	-0.265	0.000	0.03		2.6	OK
9.001	S8145	45	96.047	-0.328	0.000	0.04		5.6	OK
7.006	S8146	44	95.883	-0.346	0.000	0.12		40.3	OK
10.000	S8164	45	95.680	-0.345	0.000	0.02		2.5	OK
7.007	S8147	44	95.535	-0.345	0.000	0.12		44.5	OK
7.008	S8150	44	95.081	-0.384	0.000	0.16		45.8	OK
7.009	S8149	44	94.886	-0.379	0.000	0.17		57.0	OK
11.000	S5037	45	95.189	-0.190	0.000	0.06		2.1	OK
11.001	S5038	45	94.983	-0.251	0.000	0.06		4.0	OK
11.002	S5039	45	94.907	-0.249	0.000	0.07		4.2	OK
12.000	S5040	45	95.215	-0.167	0.000	0.15		5.7	OK
7.010	S5041	44	94.708	-0.370	0.000	0.19		68.4	OK
7.011	S5042	44	94.451	-0.404	0.000	0.12		70.9	OK
7.012	S5047	52	93.643	-0.377	0.000	0.17		72.7	OK
7.013	S5048 - Headwall	56	93.570	-0.380	0.000	0.24		72.7	OK
1.018	S5049 - Headwall	56	93.518	-0.432	0.000	0.38		190.8	OK
1.019	S5050 Control Chamber	64	93.339	-0.561	0.000	0.02		10.1	OK

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Summary Wizard of 180 minute 1 year Winter I+0% for Surface Network 5

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.410
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.800	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 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	S8142	52	96.776	-0.339	0.000	0.02		3.8	OK
2.000	S8133	52	97.797	-0.263	0.000	0.04		6.3	OK
1.001	S8134	52	96.178	-0.372	0.000	0.07		12.8	OK
1.002	S8141	52	95.997	-0.448	0.000	0.05		15.9	OK
1.003	S8139	52	95.801	-0.454	0.000	0.04		17.1	OK
1.004	S8140	52	95.404	-0.441	0.000	0.06		21.9	OK
1.005	S4008	52	95.240	-0.386	0.000	0.16		25.7	OK
1.006	S4011	52	95.150	-0.439	0.000	0.06		27.9	OK
1.007	S4012	52	94.670	-0.415	0.000	0.10		31.5	OK
3.000	S8157	52	96.015	-0.365	0.000	0.01		1.4	OK
3.001	S8159	52	95.217	-0.403	0.000	0.02		6.1	OK
3.002	S8154	52	94.962	-0.378	0.000	0.06		9.4	OK
3.003	S8155	52	94.837	-0.468	0.000	0.03		14.1	OK
1.008	S5015	52	94.466	-0.379	0.000	0.17		49.2	OK
1.009	S5016	52	94.308	-0.397	0.000	0.14		50.3	OK
1.010	S5017 - PH4 Connection	52	94.171	-0.304	0.000	0.27		55.7	OK
4.000	S5018	52	95.120	-0.284	0.000	0.01		2.3	OK
1.011	S5019	53	94.126	-0.279	0.000	0.37		58.8	OK
1.012	S5020 PH5 Connection	53	94.088	-0.277	0.000	0.45		60.6	OK
1.013	S5021	53	93.859	-0.471	0.000	0.11		63.4	OK

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Summary Wizard of 180 minute 1 year Winter I+0% for Surface Network 5

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
5.000	S5023	53	94.119	-0.401	0.000	0.03		7.1	OK
5.001	S5025	53	93.774	-0.386	0.000	0.05		10.9	OK
6.000	S5026	52	94.323	-0.269	0.000	0.02		2.5	OK
6.001	S5027	53	93.817	-0.318	0.000	0.06		7.4	OK
5.002	S5028	57	93.665	-0.351	0.000	0.12		19.8	OK
1.014	S5029	57	93.650	-0.320	0.000	0.32		85.3	OK
1.015	S5030	59	93.616	-0.311	0.000	0.47		85.8	OK
1.016	S8121	59	93.576	-0.326	0.000	0.48		88.6	OK
1.017	S5036 - Headwall	59	93.528	-0.797	0.000	0.10		93.1	OK
7.000	S8135	52	96.246	-0.372	0.000	0.06		7.9	OK
7.001	S8136	52	96.185	-0.358	0.000	0.08		10.5	OK
7.002	S8137	52	96.126	-0.348	0.000	0.10		13.2	OK
7.003	S8161	52	96.073	-0.341	0.000	0.10		14.1	OK
8.000	S8151	52	96.566	-0.260	0.000	0.04		6.4	OK
7.004	S8162	52	96.019	-0.320	0.000	0.15		20.4	OK
7.005	S8152	52	95.962	-0.308	0.000	0.22		25.2	OK
9.000	S8144	52	96.281	-0.269	0.000	0.02		2.0	OK
9.001	S8145	52	96.042	-0.333	0.000	0.03		4.2	OK
7.006	S8146	52	95.871	-0.358	0.000	0.09		31.1	OK
10.000	S8164	52	95.673	-0.352	0.000	0.01		1.9	OK
7.007	S8147	52	95.523	-0.357	0.000	0.09		34.4	OK
7.008	S8150	52	95.062	-0.403	0.000	0.12		35.3	OK
7.009	S8149	52	94.866	-0.399	0.000	0.13		43.9	OK
11.000	S5037	52	95.185	-0.195	0.000	0.04		1.6	OK
11.001	S5038	52	94.976	-0.258	0.000	0.05		3.0	OK
11.002	S5039	52	94.899	-0.256	0.000	0.05		3.2	OK
12.000	S5040	52	95.208	-0.175	0.000	0.11		4.4	OK
7.010	S5041	52	94.686	-0.392	0.000	0.15		52.7	OK
7.011	S5042	52	94.437	-0.418	0.000	0.09		54.5	OK
7.012	S5047	58	93.622	-0.398	0.000	0.13		55.8	OK
7.013	S5048 - Headwall	59	93.529	-0.421	0.000	0.18		55.8	OK
1.018	S5049 - Headwall	59	93.477	-0.473	0.000	0.29		147.8	OK
1.019	S5050 Control Chamber	61	93.356	-0.544	0.000	0.02		10.4	OK

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Summary Wizard of 240 minute 1 year Winter I+0% for Surface Network 5

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.410
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.800	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 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	S8142	56	96.769	-0.346	0.000	0.02		3.1	OK
2.000	S8133	56	97.794	-0.266	0.000	0.03		5.2	OK
1.001	S8134	56	96.169	-0.381	0.000	0.06		10.4	OK
1.002	S8141	56	95.989	-0.456	0.000	0.04		13.0	OK
1.003	S8139	56	95.794	-0.461	0.000	0.04		14.0	OK
1.004	S8140	56	95.395	-0.450	0.000	0.05		17.9	OK
1.005	S4008	56	95.226	-0.400	0.000	0.13		21.0	OK
1.006	S4011	56	95.141	-0.448	0.000	0.05		22.7	OK
1.007	S4012	56	94.660	-0.425	0.000	0.08		25.7	OK
3.000	S8157	56	96.013	-0.367	0.000	0.00		1.2	OK
3.001	S8159	56	95.212	-0.408	0.000	0.02		5.0	OK
3.002	S8154	56	94.954	-0.386	0.000	0.05		7.7	OK
3.003	S8155	56	94.833	-0.472	0.000	0.02		11.6	OK
1.008	S5015	56	94.451	-0.394	0.000	0.14		40.1	OK
1.009	S5016	56	94.296	-0.409	0.000	0.11		41.1	OK
1.010	S5017 - PH4 Connection	57	94.146	-0.329	0.000	0.22		45.7	OK
4.000	S5018	56	95.117	-0.287	0.000	0.01		1.9	OK
1.011	S5019	57	94.099	-0.306	0.000	0.30		48.3	OK
1.012	S5020 PH5 Connection	57	94.061	-0.304	0.000	0.37		49.7	OK
1.013	S5021	57	93.848	-0.482	0.000	0.09		52.1	OK

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Summary Wizard of 240 minute 1 year Winter I+0% for Surface Network 5

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
5.000	S5023	57	94.116	-0.404	0.000	0.02		5.8	OK
5.001	S5025	57	93.768	-0.392	0.000	0.04		9.0	OK
6.000	S5026	56	94.319	-0.273	0.000	0.02		2.0	OK
6.001	S5027	57	93.811	-0.324	0.000	0.05		6.0	OK
5.002	S5028	59	93.636	-0.381	0.000	0.10		16.3	OK
1.014	S5029	60	93.614	-0.356	0.000	0.27		70.2	OK
1.015	S5030	60	93.581	-0.346	0.000	0.39		70.6	OK
1.016	S8121	60	93.543	-0.358	0.000	0.39		73.2	OK
1.017	S5036 - Headwall	60	93.498	-0.827	0.000	0.08		76.9	OK
7.000	S8135	56	96.237	-0.381	0.000	0.05		6.4	OK
7.001	S8136	56	96.175	-0.368	0.000	0.06		8.6	OK
7.002	S8137	56	96.116	-0.357	0.000	0.08		10.8	OK
7.003	S8161	56	96.061	-0.352	0.000	0.08		11.5	OK
8.000	S8151	56	96.563	-0.264	0.000	0.03		5.2	OK
7.004	S8162	56	96.005	-0.334	0.000	0.12		16.7	OK
7.005	S8152	56	95.948	-0.322	0.000	0.18		20.6	OK
9.000	S8144	56	96.278	-0.272	0.000	0.02		1.6	OK
9.001	S8145	56	96.039	-0.336	0.000	0.02		3.5	OK
7.006	S8146	56	95.861	-0.368	0.000	0.08		25.5	OK
10.000	S8164	56	95.669	-0.356	0.000	0.01		1.6	OK
7.007	S8147	56	95.513	-0.367	0.000	0.08		28.1	OK
7.008	S8150	56	95.051	-0.414	0.000	0.10		28.9	OK
7.009	S8149	56	94.855	-0.410	0.000	0.11		36.0	OK
11.000	S5037	56	95.182	-0.198	0.000	0.04		1.3	OK
11.001	S5038	56	94.972	-0.262	0.000	0.04		2.5	OK
11.002	S5039	56	94.895	-0.261	0.000	0.04		2.6	OK
12.000	S5040	56	95.204	-0.179	0.000	0.09		3.6	OK
7.010	S5041	56	94.673	-0.405	0.000	0.12		43.2	OK
7.011	S5042	56	94.426	-0.429	0.000	0.08		44.7	OK
7.012	S5047	61	93.610	-0.410	0.000	0.11		45.8	OK
7.013	S5048 - Headwall	60	93.503	-0.447	0.000	0.15		45.8	OK
1.018	S5049 - Headwall	60	93.449	-0.501	0.000	0.24		122.2	OK
1.019	S5050 Control Chamber	56	93.368	-0.532	0.000	0.02		10.5	OK

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Summary Wizard of 360 minute 1 year Winter I+0% for Surface Network 5

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.410
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.800	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 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	S8142	61	96.762	-0.353	0.000	0.01		2.3	OK
2.000	S8133	61	97.790	-0.270	0.000	0.02		3.9	OK
1.001	S8134	61	96.159	-0.391	0.000	0.04		7.8	OK
1.002	S8141	61	95.981	-0.464	0.000	0.03		9.7	OK
1.003	S8139	61	95.787	-0.468	0.000	0.03		10.5	OK
1.004	S8140	61	95.385	-0.460	0.000	0.04		13.4	OK
1.005	S4008	61	95.210	-0.416	0.000	0.10		15.7	OK
1.006	S4011	61	95.131	-0.458	0.000	0.04		17.0	OK
1.007	S4012	61	94.643	-0.442	0.000	0.06		19.3	OK
3.000	S8157	61	96.011	-0.369	0.000	0.00		0.9	OK
3.001	S8159	61	95.202	-0.418	0.000	0.01		3.8	OK
3.002	S8154	61	94.946	-0.394	0.000	0.04		5.7	OK
3.003	S8155	61	94.821	-0.484	0.000	0.02		8.7	OK
1.008	S5015	61	94.434	-0.411	0.000	0.11		30.1	OK
1.009	S5016	61	94.281	-0.424	0.000	0.08		30.8	OK
1.010	S5017 - PH4 Connection	62	94.116	-0.359	0.000	0.17		34.1	OK
4.000	S5018	61	95.114	-0.290	0.000	0.01		1.4	OK
1.011	S5019	62	94.067	-0.338	0.000	0.23		36.0	OK
1.012	S5020 PH5 Connection	62	94.028	-0.337	0.000	0.28		37.1	OK
1.013	S5021	62	93.829	-0.501	0.000	0.06		38.9	OK

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Summary Wizard of 360 minute 1 year Winter I+0% for Surface Network 5

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
5.000	S5023	61	94.106	-0.414	0.000	0.02		4.3	OK
5.001	S5025	61	93.761	-0.399	0.000	0.03		6.7	OK
6.000	S5026	61	94.312	-0.280	0.000	0.01		1.5	OK
6.001	S5027	61	93.805	-0.330	0.000	0.03		4.5	OK
5.002	S5028	63	93.603	-0.413	0.000	0.07		12.2	OK
1.014	S5029	63	93.569	-0.401	0.000	0.20		52.6	OK
1.015	S5030	63	93.537	-0.390	0.000	0.29		53.1	OK
1.016	S8121	63	93.503	-0.399	0.000	0.30		55.0	OK
1.017	S5036 - Headwall	63	93.461	-0.864	0.000	0.06		57.8	OK
7.000	S8135	61	96.227	-0.392	0.000	0.03		4.8	OK
7.001	S8136	61	96.162	-0.381	0.000	0.05		6.5	OK
7.002	S8137	61	96.102	-0.372	0.000	0.06		8.1	OK
7.003	S8161	61	96.047	-0.367	0.000	0.06		8.6	OK
8.000	S8151	61	96.559	-0.268	0.000	0.03		3.9	OK
7.004	S8162	61	95.988	-0.351	0.000	0.09		12.5	OK
7.005	S8152	61	95.929	-0.341	0.000	0.13		15.5	OK
9.000	S8144	61	96.271	-0.279	0.000	0.01		1.2	OK
9.001	S8145	61	96.031	-0.344	0.000	0.02		2.6	OK
7.006	S8146	61	95.848	-0.381	0.000	0.06		19.1	OK
10.000	S8164	61	95.664	-0.361	0.000	0.01		1.2	OK
7.007	S8147	61	95.500	-0.380	0.000	0.06		21.1	OK
7.008	S8150	61	95.035	-0.430	0.000	0.08		21.7	OK
7.009	S8149	62	94.840	-0.425	0.000	0.08		27.0	OK
11.000	S5037	61	95.179	-0.201	0.000	0.03		1.0	OK
11.001	S5038	61	94.967	-0.266	0.000	0.03		1.8	OK
11.002	S5039	61	94.890	-0.265	0.000	0.03		1.9	OK
12.000	S5040	61	95.196	-0.186	0.000	0.07		2.7	OK
7.010	S5041	62	94.659	-0.419	0.000	0.09		32.4	OK
7.011	S5042	62	94.411	-0.444	0.000	0.06		33.5	OK
7.012	S5047	63	93.595	-0.425	0.000	0.08		34.3	OK
7.013	S5048 - Headwall	63	93.470	-0.480	0.000	0.11		34.3	OK
1.018	S5049 - Headwall	63	93.415	-0.535	0.000	0.18		91.8	OK
1.019	S5050 Control Chamber	53	93.381	-0.519	0.000	0.02		10.7	OK

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Summary Wizard of 480 minute 1 year Winter I+0% for Surface Network 5

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.410
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.800	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 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	S8142	64	96.758	-0.357	0.000	0.01		1.9	OK
2.000	S8133	64	97.785	-0.275	0.000	0.02		3.1	OK
1.001	S8134	64	96.154	-0.396	0.000	0.03		6.3	OK
1.002	S8141	64	95.976	-0.469	0.000	0.03		7.8	OK
1.003	S8139	64	95.783	-0.472	0.000	0.02		8.5	OK
1.004	S8140	64	95.380	-0.465	0.000	0.03		10.8	OK
1.005	S4008	64	95.198	-0.428	0.000	0.08		12.7	OK
1.006	S4011	64	95.125	-0.464	0.000	0.03		13.8	OK
1.007	S4012	64	94.634	-0.451	0.000	0.05		15.6	OK
3.000	S8157	64	96.010	-0.370	0.000	0.00		0.7	OK
3.001	S8159	64	95.196	-0.424	0.000	0.01		3.0	OK
3.002	S8154	64	94.941	-0.399	0.000	0.03		4.7	OK
3.003	S8155	64	94.813	-0.492	0.000	0.01		7.0	OK
1.008	S5015	64	94.423	-0.422	0.000	0.09		24.4	OK
1.009	S5016	64	94.269	-0.436	0.000	0.07		25.0	OK
1.010	S5017 - PH4 Connection	64	94.097	-0.378	0.000	0.13		27.7	OK
4.000	S5018	64	95.112	-0.292	0.000	0.01		1.1	OK
1.011	S5019	64	94.047	-0.358	0.000	0.18		29.3	OK
1.012	S5020 PH5 Connection	64	94.008	-0.357	0.000	0.23		30.1	OK
1.013	S5021	64	93.818	-0.512	0.000	0.05		31.5	OK

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Summary Wizard of 480 minute 1 year Winter I+0% for Surface Network 5

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
5.000	S5023	64	94.099	-0.421	0.000	0.01		3.5	OK
5.001	S5025	64	93.757	-0.403	0.000	0.02		5.4	OK
6.000	S5026	64	94.308	-0.284	0.000	0.01		1.2	OK
6.001	S5027	64	93.801	-0.334	0.000	0.03		3.7	OK
5.002	S5028	65	93.584	-0.432	0.000	0.06		9.9	OK
1.014	S5029	65	93.540	-0.430	0.000	0.16		42.6	OK
1.015	S5030	65	93.510	-0.417	0.000	0.24		43.0	OK
1.016	S8121	65	93.476	-0.425	0.000	0.24		44.6	OK
1.017	S5036 - Headwall	65	93.437	-0.888	0.000	0.05		47.0	OK
7.000	S8135	64	96.221	-0.397	0.000	0.03		3.9	OK
7.001	S8136	64	96.154	-0.389	0.000	0.04		5.2	OK
7.002	S8137	64	96.093	-0.381	0.000	0.05		6.5	OK
7.003	S8161	64	96.037	-0.377	0.000	0.05		7.0	OK
8.000	S8151	64	96.557	-0.270	0.000	0.02		3.1	OK
7.004	S8162	64	95.979	-0.360	0.000	0.07		10.1	OK
7.005	S8152	64	95.919	-0.352	0.000	0.11		12.5	OK
9.000	S8144	64	96.267	-0.283	0.000	0.01		1.0	OK
9.001	S8145	64	96.025	-0.350	0.000	0.01		2.1	OK
7.006	S8146	64	95.841	-0.388	0.000	0.05		15.5	OK
10.000	S8164	64	95.661	-0.364	0.000	0.01		0.9	OK
7.007	S8147	64	95.492	-0.388	0.000	0.05		17.1	OK
7.008	S8150	64	95.024	-0.441	0.000	0.06		17.6	OK
7.009	S8149	64	94.827	-0.438	0.000	0.07		21.9	OK
11.000	S5037	64	95.177	-0.202	0.000	0.02		0.8	OK
11.001	S5038	64	94.965	-0.269	0.000	0.02		1.5	OK
11.002	S5039	64	94.888	-0.268	0.000	0.03		1.6	OK
12.000	S5040	64	95.192	-0.191	0.000	0.06		2.2	OK
7.010	S5041	64	94.646	-0.432	0.000	0.07		26.3	OK
7.011	S5042	64	94.402	-0.453	0.000	0.05		27.2	OK
7.012	S5047	65	93.583	-0.437	0.000	0.07		27.8	OK
7.013	S5048 - Headwall	65	93.448	-0.502	0.000	0.09		27.8	OK
1.018	S5049 - Headwall	68	93.391	-0.559	0.000	0.15		74.7	OK
1.019	S5050 Control Chamber	52	93.387	-0.513	0.000	0.02		10.8	OK

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Summary Wizard of 600 minute 1 year Winter I+0% for Surface Network 5

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.410
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.800	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 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	S8142	67	96.755	-0.360	0.000	0.01		1.6	OK
2.000	S8133	67	97.781	-0.279	0.000	0.02		2.6	OK
1.001	S8134	67	96.150	-0.400	0.000	0.03		5.3	OK
1.002	S8141	67	95.973	-0.472	0.000	0.02		6.7	OK
1.003	S8139	67	95.776	-0.479	0.000	0.02		7.2	OK
1.004	S8140	67	95.376	-0.469	0.000	0.03		9.2	OK
1.005	S4008	67	95.189	-0.437	0.000	0.07		10.8	OK
1.006	S4011	67	95.121	-0.468	0.000	0.03		11.7	OK
1.007	S4012	67	94.629	-0.456	0.000	0.04		13.2	OK
3.000	S8157	67	96.009	-0.371	0.000	0.00		0.6	OK
3.001	S8159	67	95.192	-0.428	0.000	0.01		2.6	OK
3.002	S8154	67	94.938	-0.402	0.000	0.03		3.9	OK
3.003	S8155	67	94.808	-0.497	0.000	0.01		6.0	OK
1.008	S5015	67	94.413	-0.432	0.000	0.07		20.7	OK
1.009	S5016	67	94.261	-0.444	0.000	0.06		21.2	OK
1.010	S5017 - PH4 Connection	67	94.084	-0.391	0.000	0.11		23.5	OK
4.000	S5018	67	95.111	-0.293	0.000	0.00		1.0	OK
1.011	S5019	67	94.034	-0.371	0.000	0.16		24.8	OK
1.012	S5020 PH5 Connection	67	93.995	-0.370	0.000	0.19		25.5	OK
1.013	S5021	67	93.811	-0.519	0.000	0.04		26.8	OK

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Summary Wizard of 600 minute 1 year Winter I+0% for Surface Network 5

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
5.000	S5023	67	94.094	-0.426	0.000	0.01		3.0	OK
5.001	S5025	67	93.754	-0.406	0.000	0.02		4.6	OK
6.000	S5026	67	94.306	-0.286	0.000	0.01		1.0	OK
6.001	S5027	67	93.799	-0.336	0.000	0.02		3.1	OK
5.002	S5028	67	93.572	-0.444	0.000	0.05		8.4	OK
1.014	S5029	67	93.520	-0.450	0.000	0.14		36.2	OK
1.015	S5030	67	93.490	-0.437	0.000	0.20		36.5	OK
1.016	S8121	67	93.458	-0.443	0.000	0.20		37.8	OK
1.017	S5036 - Headwall	67	93.421	-0.904	0.000	0.04		39.9	OK
7.000	S8135	67	96.218	-0.401	0.000	0.02		3.3	OK
7.001	S8136	67	96.149	-0.394	0.000	0.03		4.4	OK
7.002	S8137	67	96.087	-0.387	0.000	0.04		5.5	OK
7.003	S8161	67	96.030	-0.384	0.000	0.04		5.9	OK
8.000	S8151	67	96.552	-0.275	0.000	0.02		2.7	OK
7.004	S8162	67	95.971	-0.368	0.000	0.06		8.6	OK
7.005	S8152	67	95.912	-0.358	0.000	0.09		10.6	OK
9.000	S8144	67	96.264	-0.286	0.000	0.01		0.8	OK
9.001	S8145	67	96.021	-0.354	0.000	0.01		1.8	OK
7.006	S8146	67	95.836	-0.393	0.000	0.04		13.1	OK
10.000	S8164	67	95.660	-0.366	0.000	0.01		0.8	OK
7.007	S8147	67	95.488	-0.392	0.000	0.04		14.5	OK
7.008	S8150	67	95.017	-0.448	0.000	0.05		14.9	OK
7.009	S8149	67	94.820	-0.445	0.000	0.06		18.6	OK
11.000	S5037	67	95.174	-0.206	0.000	0.02		0.7	OK
11.001	S5038	67	94.962	-0.271	0.000	0.02		1.3	OK
11.002	S5039	67	94.886	-0.270	0.000	0.02		1.3	OK
12.000	S5040	67	95.189	-0.194	0.000	0.05		1.8	OK
7.010	S5041	67	94.637	-0.441	0.000	0.06		22.3	OK
7.011	S5042	67	94.397	-0.458	0.000	0.04		23.1	OK
7.012	S5047	67	93.575	-0.445	0.000	0.06		23.6	OK
7.013	S5048 - Headwall	67	93.433	-0.517	0.000	0.08		23.6	OK
1.018	S5049 - Headwall	70	93.390	-0.560	0.000	0.13		63.4	OK
1.019	S5050 Control Chamber	50	93.389	-0.511	0.000	0.02		10.8	OK

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Summary Wizard of 720 minute 1 year Winter I+0% for Surface Network 5

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.410
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.800	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 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	S8142	69	96.753	-0.362	0.000	0.01		1.4	OK
2.000	S8133	69	97.779	-0.281	0.000	0.01		2.3	OK
1.001	S8134	69	96.148	-0.402	0.000	0.03		4.7	OK
1.002	S8141	69	95.967	-0.478	0.000	0.02		5.8	OK
1.003	S8139	69	95.771	-0.484	0.000	0.02		6.3	OK
1.004	S8140	69	95.373	-0.472	0.000	0.02		8.0	OK
1.005	S4008	69	95.182	-0.444	0.000	0.06		9.4	OK
1.006	S4011	69	95.118	-0.471	0.000	0.02		10.2	OK
1.007	S4012	69	94.624	-0.461	0.000	0.04		11.6	OK
3.000	S8157	69	96.009	-0.371	0.000	0.00		0.5	OK
3.001	S8159	69	95.189	-0.431	0.000	0.01		2.3	OK
3.002	S8154	69	94.936	-0.404	0.000	0.02		3.4	OK
3.003	S8155	69	94.805	-0.500	0.000	0.01		5.2	OK
1.008	S5015	69	94.406	-0.439	0.000	0.06		18.1	OK
1.009	S5016	69	94.255	-0.450	0.000	0.05		18.5	OK
1.010	S5017 - PH4 Connection	69	94.074	-0.401	0.000	0.10		20.6	OK
4.000	S5018	69	95.110	-0.294	0.000	0.00		0.8	OK
1.011	S5019	69	94.022	-0.383	0.000	0.14		21.7	OK
1.012	S5020 PH5 Connection	69	93.983	-0.382	0.000	0.17		22.3	OK
1.013	S5021	69	93.806	-0.524	0.000	0.04		23.4	OK

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Summary Wizard of 720 minute 1 year Winter I+0% for Surface Network 5

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
5.000	S5023	69	94.091	-0.429	0.000	0.01		2.6	OK
5.001	S5025	69	93.748	-0.412	0.000	0.02		4.0	OK
6.000	S5026	69	94.304	-0.288	0.000	0.01		0.9	OK
6.001	S5027	69	93.797	-0.338	0.000	0.02		2.7	OK
5.002	S5028	69	93.564	-0.452	0.000	0.04		7.3	OK
1.014	S5029	69	93.505	-0.465	0.000	0.12		31.7	OK
1.015	S5030	69	93.475	-0.452	0.000	0.18		31.9	OK
1.016	S8121	69	93.444	-0.458	0.000	0.18		33.0	OK
1.017	S5036 - Headwall	69	93.407	-0.918	0.000	0.04		34.9	OK
7.000	S8135	69	96.215	-0.403	0.000	0.02		2.9	OK
7.001	S8136	69	96.146	-0.397	0.000	0.03		3.9	OK
7.002	S8137	69	96.082	-0.391	0.000	0.04		4.8	OK
7.003	S8161	69	96.025	-0.388	0.000	0.04		5.2	OK
8.000	S8151	69	96.549	-0.278	0.000	0.02		2.3	OK
7.004	S8162	69	95.964	-0.375	0.000	0.05		7.5	OK
7.005	S8152	69	95.905	-0.365	0.000	0.08		9.3	OK
9.000	S8144	69	96.263	-0.287	0.000	0.01		0.7	OK
9.001	S8145	69	96.019	-0.356	0.000	0.01		1.6	OK
7.006	S8146	69	95.833	-0.396	0.000	0.03		11.5	OK
10.000	S8164	69	95.659	-0.367	0.000	0.00		0.7	OK
7.007	S8147	69	95.484	-0.396	0.000	0.03		12.7	OK
7.008	S8150	69	95.012	-0.453	0.000	0.05		13.0	OK
7.009	S8149	69	94.814	-0.451	0.000	0.05		16.2	OK
11.000	S5037	69	95.172	-0.208	0.000	0.02		0.6	OK
11.001	S5038	69	94.959	-0.275	0.000	0.02		1.1	OK
11.002	S5039	69	94.883	-0.273	0.000	0.02		1.2	OK
12.000	S5040	69	95.187	-0.196	0.000	0.04		1.6	OK
7.010	S5041	69	94.631	-0.447	0.000	0.05		19.5	OK
7.011	S5042	69	94.393	-0.462	0.000	0.03		20.2	OK
7.012	S5047	69	93.570	-0.450	0.000	0.05		20.7	OK
7.013	S5048 - Headwall	69	93.423	-0.527	0.000	0.07		20.6	OK
1.018	S5049 - Headwall	67	93.392	-0.558	0.000	0.11		55.5	OK
1.019	S5050 Control Chamber	49	93.391	-0.509	0.000	0.02		10.8	OK

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Summary Wizard of 960 minute 1 year Winter I+0% for Surface Network 5

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.410
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.800	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 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	S8142	70		96.751	-0.364	0.000	0.01		1.1	OK
2.000	S8133	70		97.775	-0.285	0.000	0.01		1.9	OK
1.001	S8134	70		96.144	-0.406	0.000	0.02		3.8	OK
1.002	S8141	70		95.958	-0.487	0.000	0.02		4.7	OK
1.003	S8139	70		95.763	-0.492	0.000	0.01		5.1	OK
1.004	S8140	70		95.365	-0.480	0.000	0.02		6.5	OK
1.005	S4008	70		95.174	-0.452	0.000	0.05		7.6	OK
1.006	S4011	70		95.111	-0.478	0.000	0.02		8.3	OK
1.007	S4012	70		94.619	-0.466	0.000	0.03		9.3	OK
3.000	S8157	70		96.008	-0.372	0.000	0.00		0.4	OK
3.001	S8159	70		95.185	-0.435	0.000	0.01		1.8	OK
3.002	S8154	70		94.928	-0.412	0.000	0.02		2.8	OK
3.003	S8155	70		94.800	-0.505	0.000	0.01		4.2	OK
1.008	S5015	70		94.396	-0.449	0.000	0.05		14.6	OK
1.009	S5016	70		94.248	-0.457	0.000	0.04		14.9	OK
1.010	S5017 - PH4 Connection	70		94.061	-0.414	0.000	0.08		16.5	OK
4.000	S5018	70		95.109	-0.295	0.000	0.00		0.7	OK
1.011	S5019	71		94.006	-0.399	0.000	0.11		17.5	OK
1.012	S5020 PH5 Connection	71		93.967	-0.398	0.000	0.14		18.0	OK
1.013	S5021	71		93.799	-0.531	0.000	0.03		18.9	OK

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Summary Wizard of 960 minute 1 year Winter I+0% for Surface Network 5

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
5.000	S5023	70	94.087	-0.433	0.000	0.01		2.1	OK
5.001	S5025	70	93.741	-0.419	0.000	0.01		3.2	OK
6.000	S5026	70	94.302	-0.290	0.000	0.01		0.7	OK
6.001	S5027	70	93.790	-0.345	0.000	0.02		2.2	OK
5.002	S5028	70	93.554	-0.462	0.000	0.03		5.9	OK
1.014	S5029	71	93.483	-0.487	0.000	0.10		25.5	OK
1.015	S5030	71	93.453	-0.474	0.000	0.14		25.7	OK
1.016	S8121	71	93.423	-0.479	0.000	0.14		26.6	OK
1.017	S5036 - Headwall	70	93.398	-0.927	0.000	0.03		28.0	OK
7.000	S8135	70	96.210	-0.409	0.000	0.02		2.3	OK
7.001	S8136	70	96.141	-0.401	0.000	0.02		3.1	OK
7.002	S8137	70	96.077	-0.397	0.000	0.03		3.9	OK
7.003	S8161	70	96.019	-0.395	0.000	0.03		4.2	OK
8.000	S8151	70	96.545	-0.282	0.000	0.01		1.9	OK
7.004	S8162	70	95.956	-0.384	0.000	0.04		6.1	OK
7.005	S8152	70	95.895	-0.376	0.000	0.07		7.5	OK
9.000	S8144	70	96.260	-0.290	0.000	0.01		0.6	OK
9.001	S8145	70	96.015	-0.360	0.000	0.01		1.3	OK
7.006	S8146	70	95.829	-0.400	0.000	0.03		9.3	OK
10.000	S8164	70	95.657	-0.368	0.000	0.00		0.6	OK
7.007	S8147	70	95.480	-0.400	0.000	0.03		10.2	OK
7.008	S8150	70	95.005	-0.460	0.000	0.04		10.5	OK
7.009	S8149	70	94.807	-0.458	0.000	0.04		13.1	OK
11.000	S5037	70	95.168	-0.211	0.000	0.01		0.5	OK
11.001	S5038	70	94.954	-0.279	0.000	0.01		0.9	OK
11.002	S5039	70	94.877	-0.278	0.000	0.02		0.9	OK
12.000	S5040	70	95.184	-0.198	0.000	0.03		1.3	OK
7.010	S5041	70	94.623	-0.455	0.000	0.04		15.7	OK
7.011	S5042	71	94.388	-0.467	0.000	0.03		16.2	OK
7.012	S5047	71	93.562	-0.458	0.000	0.04		16.6	OK
7.013	S5048 - Headwall	71	93.409	-0.541	0.000	0.05		16.6	OK
1.018	S5049 - Headwall	65	93.396	-0.554	0.000	0.09		44.6	OK
1.019	S5050 Control Chamber	47	93.395	-0.505	0.000	0.02		10.9	OK

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Summary Wizard of 1440 minute 1 year Winter I+0% for Surface Network 5

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.410
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.800	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 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	S8142	72	96.748	-0.367	0.000	0.00		0.8	OK
2.000	S8133	72	97.771	-0.289	0.000	0.01		1.4	OK
1.001	S8134	72	96.133	-0.417	0.000	0.02		2.8	OK
1.002	S8141	72	95.948	-0.497	0.000	0.01		3.5	OK
1.003	S8139	72	95.754	-0.501	0.000	0.01		3.8	OK
1.004	S8140	72	95.353	-0.492	0.000	0.01		4.8	OK
1.005	S4008	72	95.164	-0.462	0.000	0.03		5.7	OK
1.006	S4011	72	95.099	-0.490	0.000	0.01		6.1	OK
1.007	S4012	72	94.613	-0.472	0.000	0.02		6.9	OK
3.000	S8157	72	96.007	-0.373	0.000	0.00		0.3	OK
3.001	S8159	72	95.181	-0.439	0.000	0.01		1.4	OK
3.002	S8154	72	94.919	-0.421	0.000	0.01		2.1	OK
3.003	S8155	72	94.795	-0.510	0.000	0.01		3.1	OK
1.008	S5015	72	94.386	-0.459	0.000	0.04		10.8	OK
1.009	S5016	72	94.240	-0.465	0.000	0.03		11.1	OK
1.010	S5017 - PH4 Connection	72	94.044	-0.431	0.000	0.06		12.3	OK
4.000	S5018	72	95.108	-0.296	0.000	0.00		0.5	OK
1.011	S5019	72	93.990	-0.415	0.000	0.08		13.0	OK
1.012	S5020 PH5 Connection	72	93.951	-0.414	0.000	0.10		13.4	OK
1.013	S5021	72	93.792	-0.538	0.000	0.02		14.0	OK

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Summary Wizard of 1440 minute 1 year Winter I+0% for Surface Network 5

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
5.000	S5023	72	94.083	-0.437	0.000	0.01		1.6	OK
5.001	S5025	72	93.733	-0.427	0.000	0.01		2.4	OK
6.000	S5026	72	94.299	-0.293	0.000	0.01		0.5	OK
6.001	S5027	72	93.782	-0.353	0.000	0.01		1.6	OK
5.002	S5028	72	93.547	-0.469	0.000	0.03		4.4	OK
1.014	S5029	72	93.456	-0.515	0.000	0.07		18.9	OK
1.015	S5030	72	93.426	-0.501	0.000	0.11		19.1	OK
1.016	S8121	72	93.401	-0.500	0.000	0.11		19.8	OK
1.017	S5036 - Headwall	71	93.395	-0.930	0.000	0.02		20.8	OK
7.000	S8135	72	96.200	-0.418	0.000	0.01		1.7	OK
7.001	S8136	72	96.135	-0.408	0.000	0.02		2.3	OK
7.002	S8137	72	96.071	-0.403	0.000	0.02		2.9	OK
7.003	S8161	72	96.012	-0.401	0.000	0.02		3.1	OK
8.000	S8151	72	96.540	-0.287	0.000	0.01		1.4	OK
7.004	S8162	72	95.946	-0.393	0.000	0.03		4.5	OK
7.005	S8152	72	95.883	-0.387	0.000	0.05		5.6	OK
9.000	S8144	72	96.258	-0.292	0.000	0.01		0.4	OK
9.001	S8145	72	96.011	-0.364	0.000	0.01		0.9	OK
7.006	S8146	72	95.823	-0.406	0.000	0.02		6.9	OK
10.000	S8164	72	95.655	-0.370	0.000	0.00		0.4	OK
7.007	S8147	72	95.475	-0.405	0.000	0.02		7.6	OK
7.008	S8150	72	94.997	-0.468	0.000	0.03		7.8	OK
7.009	S8149	72	94.799	-0.466	0.000	0.03		9.7	OK
11.000	S5037	72	95.165	-0.215	0.000	0.01		0.4	OK
11.001	S5038	72	94.949	-0.285	0.000	0.01		0.7	OK
11.002	S5039	72	94.872	-0.284	0.000	0.01		0.7	OK
12.000	S5040	72	95.181	-0.201	0.000	0.02		1.0	OK
7.010	S5041	72	94.614	-0.464	0.000	0.03		11.6	OK
7.011	S5042	72	94.381	-0.474	0.000	0.02		12.0	OK
7.012	S5047	72	93.554	-0.466	0.000	0.03		12.3	OK
7.013	S5048 - Headwall	72	93.398	-0.552	0.000	0.04		12.3	OK
1.018	S5049 - Headwall	66	93.393	-0.557	0.000	0.07		32.8	OK
1.019	S5050 Control Chamber	48	93.392	-0.508	0.000	0.02		10.8	OK

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Summary Wizard of 15 minute 30 year Winter I+0% for Surface Network 5

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.410
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.800	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 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)
1.000	S8142	7	96.855	-0.260	0.000	0.20		37.1
2.000	S8133	6	97.884	-0.176	0.000	0.35		62.2
1.001	S8134	7	96.380	-0.170	0.000	0.68		125.1
1.002	S8141	7	96.191	-0.254	0.000	0.51		156.7
1.003	S8139	7	95.973	-0.282	0.000	0.43		165.9
1.004	S8140	8	95.763	-0.082	0.000	0.58		208.2
1.005	S4008	8	95.725	0.099	0.000	1.48		241.2
1.006	S4011	8	95.685	0.096	0.000	0.54		235.0
1.007	S4012	8	95.597	0.512	0.000	0.71		224.7
3.000	S8157	7	96.062	-0.318	0.000	0.06		14.4
3.001	S8159	8	95.528	-0.092	0.000	0.25		64.1
3.002	S8154	8	95.516	0.176	0.000	0.59		91.6
3.003	S8155	8	95.496	0.191	0.000	0.23		120.7
1.008	S5015	8	95.482	0.637	0.000	1.08		307.2
1.009	S5016	8	95.335	0.630	0.000	0.84		307.8
1.010	S5017 - PH4 Connection	8	95.187	0.712	0.000	1.63		335.8
4.000	S5018	8	95.171	-0.233	0.000	0.11		22.9
1.011	S5019	8	95.011	0.606	0.000	2.22		352.5
1.012	S5020 PH5 Connection	8	94.811	0.446	0.000	2.68		357.4
1.013	S5021	8	94.599	0.269	0.000	0.61		368.2

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Summary Wizard of 15 minute 30 year Winter I+0% for Surface Network 5

PN	US/MH Name	Status
1.000	S8142	OK
2.000	S8133	OK
1.001	S8134	OK
1.002	S8141	OK
1.003	S8139	OK
1.004	S8140	OK
1.005	S4008	SURCHARGED
1.006	S4011	SURCHARGED
1.007	S4012	SURCHARGED
3.000	S8157	OK
3.001	S8159	OK
3.002	S8154	SURCHARGED
3.003	S8155	SURCHARGED
1.008	S5015	SURCHARGED
1.009	S5016	SURCHARGED
1.010	S5017 - PH4 Connection	SURCHARGED
4.000	S5018	OK
1.011	S5019	SURCHARGED
1.012	S5020 PH5 Connection	SURCHARGED
1.013	S5021	SURCHARGED

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Summary Wizard of 15 minute 30 year Winter I+0% for Surface Network 5

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)
5.000	S5023	9	94.527	0.007	0.000	0.27		68.7
5.001	S5025	9	94.509	0.349	0.000	0.36		79.8
6.000	S5026	9	94.526	-0.066	0.000	0.22		24.1
6.001	S5027	9	94.509	0.374	0.000	0.48		63.4
5.002	S5028	9	94.491	0.475	0.000	0.87		149.4
1.014	S5029	9	94.471	0.500	0.000	1.84		486.1
1.015	S5030	9	94.364	0.437	0.000	2.68		485.1
1.016	S8121	9	94.260	0.359	0.000	2.66		494.2
1.017	S5036 - Headwall	9	94.170	-0.155	0.000	0.49		474.3
7.000	S8135	7	96.586	-0.032	0.000	0.52		73.4
7.001	S8136	7	96.555	0.012	0.000	0.64		89.3
7.002	S8137	7	96.516	0.043	0.000	0.80		108.0
7.003	S8161	7	96.472	0.059	0.000	0.80		112.6
8.000	S8151	7	96.663	-0.163	0.000	0.42		63.4
7.004	S8162	7	96.423	0.084	0.000	1.15		160.0
7.005	S8152	7	96.328	0.057	0.000	1.66		191.1
9.000	S8144	7	96.350	-0.200	0.000	0.24		19.4
9.001	S8145	7	96.140	-0.235	0.000	0.29		43.1
7.006	S8146	7	96.063	-0.166	0.000	0.72		238.4
10.000	S8164	7	95.746	-0.279	0.000	0.13		18.9
7.007	S8147	7	95.717	-0.163	0.000	0.73		264.3
7.008	S8150	7	95.401	-0.064	0.000	0.92		262.4
7.009	S8149	7	95.232	-0.033	0.000	0.91		302.9
11.000	S5037	7	95.259	-0.121	0.000	0.42		15.7
11.001	S5038	7	95.114	-0.120	0.000	0.48		29.9
11.002	S5039	7	95.093	-0.062	0.000	0.47		28.9
12.000	S5040	7	95.454	0.071	0.000	1.08		41.7
7.010	S5041	7	95.074	-0.004	0.000	1.00		363.3
7.011	S5042	8	94.734	-0.121	0.000	0.64		377.0
7.012	S5047	8	94.429	0.409	0.000	0.93		386.6
7.013	S5048 - Headwall	8	94.215	0.265	0.000	1.21		369.4
1.018	S5049 - Headwall	9	94.129	0.179	0.000	1.60		805.6
1.019	S5050 Control Chamber	51	93.387	-0.513	0.000	0.02		10.8

PN	US/MH Name	Status
5.000	S5023	SURCHARGED
5.001	S5025	SURCHARGED
6.000	S5026	OK
6.001	S5027	SURCHARGED
5.002	S5028	SURCHARGED
1.014	S5029	SURCHARGED
1.015	S5030	SURCHARGED
1.016	S8121	SURCHARGED
1.017	S5036 - Headwall	OK

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Summary Wizard of 15 minute 30 year Winter I+0% for Surface Network 5

PN	US/MH Name	Status
7.000	S8135	OK
7.001	S8136	SURCHARGED
7.002	S8137	SURCHARGED
7.003	S8161	SURCHARGED
8.000	S8151	OK
7.004	S8162	SURCHARGED
7.005	S8152	SURCHARGED
9.000	S8144	OK
9.001	S8145	OK
7.006	S8146	OK
10.000	S8164	OK
7.007	S8147	OK
7.008	S8150	OK
7.009	S8149	OK
11.000	S5037	OK
11.001	S5038	OK
11.002	S5039	OK
12.000	S5040	SURCHARGED
7.010	S5041	OK
7.011	S5042	OK
7.012	S5047	SURCHARGED
7.013	S5048 - Headwall	SURCHARGED
1.018	S5049 - Headwall	SURCHARGED
1.019	S5050 Control Chamber	OK

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Summary Wizard of 30 minute 30 year Winter I+0% for Surface Network 5

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.410
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.800	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 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)
1.000	S8142	10	96.839	-0.276	0.000	0.16		29.2
2.000	S8133	10	97.867	-0.193	0.000	0.28		48.8
1.001	S8134	10	96.336	-0.214	0.000	0.54		98.3
1.002	S8141	10	96.150	-0.295	0.000	0.40		121.8
1.003	S8139	11	95.942	-0.313	0.000	0.34		130.9
1.004	S8140	11	95.667	-0.178	0.000	0.46		165.9
1.005	S4008	11	95.626	0.000	0.000	1.17		190.7
1.006	S4011	10	95.442	-0.147	0.000	0.45		195.4
1.007	S4012	10	95.364	0.279	0.000	0.61		193.3
3.000	S8157	10	96.055	-0.325	0.000	0.04		11.1
3.001	S8159	9	95.333	-0.287	0.000	0.19		48.0
3.002	S8154	9	95.317	-0.023	0.000	0.46		70.7
3.003	S8155	9	95.304	-0.001	0.000	0.19		96.5
1.008	S5015	9	95.279	0.434	0.000	0.97		273.7
1.009	S5016	9	95.154	0.449	0.000	0.76		278.9
1.010	S5017 - PH4 Connection	10	95.026	0.551	0.000	1.51		311.2
4.000	S5018	11	95.163	-0.241	0.000	0.09		17.7
1.011	S5019	10	94.871	0.466	0.000	2.06		326.6
1.012	S5020 PH5 Connection	10	94.702	0.337	0.000	2.50		333.8
1.013	S5021	10	94.522	0.192	0.000	0.58		345.6

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Summary Wizard of 30 minute 30 year Winter I+0% for Surface Network 5

PN	US/MH Name	Status
1.000	S8142	OK
2.000	S8133	OK
1.001	S8134	OK
1.002	S8141	OK
1.003	S8139	OK
1.004	S8140	OK
1.005	S4008	OK
1.006	S4011	OK
1.007	S4012	SURCHARGED
3.000	S8157	OK
3.001	S8159	OK
3.002	S8154	OK
3.003	S8155	OK
1.008	S5015	SURCHARGED
1.009	S5016	SURCHARGED
1.010	S5017 - PH4 Connection	SURCHARGED
4.000	S5018	OK
1.011	S5019	SURCHARGED
1.012	S5020 PH5 Connection	SURCHARGED
1.013	S5021	SURCHARGED

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Summary Wizard of 30 minute 30 year Winter I+0% for Surface Network 5

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)
5.000	S5023	10	94.504	-0.016	0.000	0.21		53.6
5.001	S5025	10	94.484	0.324	0.000	0.31		69.0
6.000	S5026	10	94.501	-0.091	0.000	0.18		19.0
6.001	S5027	10	94.484	0.349	0.000	0.39		50.9
5.002	S5028	10	94.465	0.448	0.000	0.74		125.6
1.014	S5029	10	94.440	0.469	0.000	1.72		452.7
1.015	S5030	10	94.332	0.405	0.000	2.50		452.9
1.016	S8121	10	94.251	0.350	0.000	2.51		466.7
1.017	S5036 - Headwall	10	94.170	-0.155	0.000	0.49		474.8
7.000	S8135	11	96.491	-0.127	0.000	0.42		59.1
7.001	S8136	11	96.466	-0.077	0.000	0.55		75.5
7.002	S8137	11	96.435	-0.039	0.000	0.67		91.5
7.003	S8161	11	96.398	-0.016	0.000	0.69		96.6
8.000	S8151	10	96.645	-0.182	0.000	0.33		49.1
7.004	S8162	11	96.353	0.014	0.000	1.00		139.1
7.005	S8152	11	96.283	0.013	0.000	1.47		168.7
9.000	S8144	10	96.337	-0.213	0.000	0.19		15.2
9.001	S8145	10	96.120	-0.255	0.000	0.22		32.8
7.006	S8146	11	96.039	-0.190	0.000	0.63		208.9
10.000	S8164	11	95.730	-0.295	0.000	0.10		14.7
7.007	S8147	11	95.692	-0.188	0.000	0.64		231.1
7.008	S8150	11	95.305	-0.160	0.000	0.82		234.2
7.009	S8149	11	95.119	-0.146	0.000	0.86		286.5
11.000	S5037	10	95.244	-0.135	0.000	0.33		12.4
11.001	S5038	11	95.061	-0.172	0.000	0.38		23.4
11.002	S5039	11	94.998	-0.157	0.000	0.38		23.8
12.000	S5040	10	95.321	-0.062	0.000	0.86		33.0
7.010	S5041	11	94.961	-0.117	0.000	0.96		347.3
7.011	S5042	9	94.651	-0.204	0.000	0.61		357.4
7.012	S5047	9	94.391	0.371	0.000	0.83		344.5
7.013	S5048 - Headwall	9	94.206	0.256	0.000	1.12		340.3
1.018	S5049 - Headwall	12	94.124	0.174	0.000	1.59		799.4
1.019	S5050 Control Chamber	45	93.452	-0.448	0.000	0.02		11.4

PN	US/MH Name	Status
5.000	S5023	OK
5.001	S5025	SURCHARGED
6.000	S5026	OK
6.001	S5027	SURCHARGED
5.002	S5028	SURCHARGED
1.014	S5029	SURCHARGED
1.015	S5030	SURCHARGED
1.016	S8121	SURCHARGED
1.017	S5036 - Headwall	OK

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Summary Wizard of 30 minute 30 year Winter I+0% for Surface Network 5

PN	US/MH Name	Status
7.000	S8135	OK
7.001	S8136	OK
7.002	S8137	OK
7.003	S8161	OK
8.000	S8151	OK
7.004	S8162	SURCHARGED
7.005	S8152	SURCHARGED
9.000	S8144	OK
9.001	S8145	OK
7.006	S8146	OK
10.000	S8164	OK
7.007	S8147	OK
7.008	S8150	OK
7.009	S8149	OK
11.000	S5037	OK
11.001	S5038	OK
11.002	S5039	OK
12.000	S5040	OK
7.010	S5041	OK
7.011	S5042	OK
7.012	S5047	SURCHARGED
7.013	S5048 - Headwall	SURCHARGED
1.018	S5049 - Headwall	SURCHARGED
1.019	S5050 Control Chamber	OK

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Summary Wizard of 60 minute 30 year Winter I+0% for Surface Network 5

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.410
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.800	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 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)
1.000	S8142	15	96.820	-0.295	0.000	0.10		19.1
2.000	S8133	15	97.846	-0.214	0.000	0.18		31.7
1.001	S8134	15	96.285	-0.265	0.000	0.35		63.8
1.002	S8141	15	96.103	-0.342	0.000	0.26		79.7
1.003	S8139	15	95.899	-0.356	0.000	0.22		86.5
1.004	S8140	15	95.519	-0.326	0.000	0.31		110.5
1.005	S4008	15	95.456	-0.170	0.000	0.80		129.3
1.006	S4011	15	95.268	-0.321	0.000	0.32		140.0
1.007	S4012	15	94.913	-0.172	0.000	0.48		151.4
3.000	S8157	15	96.046	-0.334	0.000	0.03		7.3
3.001	S8159	15	95.275	-0.345	0.000	0.12		31.3
3.002	S8154	15	95.062	-0.278	0.000	0.31		47.5
3.003	S8155	15	94.910	-0.395	0.000	0.14		71.6
1.008	S5015	15	94.860	0.015	0.000	0.82		231.8
1.009	S5016	15	94.767	0.062	0.000	0.64		236.0
1.010	S5017 - PH4 Connection	15	94.685	0.210	0.000	1.26		259.8
4.000	S5018	15	95.150	-0.254	0.000	0.06		11.6
1.011	S5019	15	94.569	0.164	0.000	1.72		273.1
1.012	S5020 PH5 Connection	15	94.442	0.077	0.000	2.10		280.2
1.013	S5021	15	94.299	-0.031	0.000	0.48		289.2

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Summary Wizard of 60 minute 30 year Winter I+0% for Surface Network 5

PN	US/MH Name	Status
1.000	S8142	OK
2.000	S8133	OK
1.001	S8134	OK
1.002	S8141	OK
1.003	S8139	OK
1.004	S8140	OK
1.005	S4008	OK
1.006	S4011	OK
1.007	S4012	OK
3.000	S8157	OK
3.001	S8159	OK
3.002	S8154	OK
3.003	S8155	OK
1.008	S5015	SURCHARGED
1.009	S5016	SURCHARGED
1.010	S5017 - PH4 Connection	SURCHARGED
4.000	S5018	OK
1.011	S5019	SURCHARGED
1.012	S5020 PH5 Connection	SURCHARGED
1.013	S5021	OK

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Summary Wizard of 60 minute 30 year Winter I+0% for Surface Network 5

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)
5.000	S5023	15	94.289	-0.231	0.000	0.14		35.3
5.001	S5025	15	94.275	0.115	0.000	0.22		49.9
6.000	S5026	15	94.360	-0.232	0.000	0.12		12.4
6.001	S5027	15	94.276	0.141	0.000	0.27		35.4
5.002	S5028	15	94.260	0.244	0.000	0.54		91.4
1.014	S5029	15	94.241	0.271	0.000	1.41		371.0
1.015	S5030	15	94.169	0.242	0.000	2.06		372.1
1.016	S8121	17	94.117	0.215	0.000	2.06		382.5
1.017	S5036 - Headwall	20	94.061	-0.264	0.000	0.41		397.0
7.000	S8135	15	96.381	-0.237	0.000	0.28		39.2
7.001	S8136	15	96.346	-0.197	0.000	0.37		51.8
7.002	S8137	15	96.317	-0.157	0.000	0.47		63.6
7.003	S8161	15	96.291	-0.123	0.000	0.47		66.0
8.000	S8151	15	96.621	-0.206	0.000	0.21		32.1
7.004	S8162	15	96.263	-0.076	0.000	0.68		94.4
7.005	S8152	15	96.222	-0.048	0.000	1.00		115.1
9.000	S8144	15	96.319	-0.231	0.000	0.12		9.9
9.001	S8145	15	96.095	-0.280	0.000	0.15		21.4
7.006	S8146	15	95.986	-0.243	0.000	0.43		144.8
10.000	S8164	15	95.712	-0.313	0.000	0.06		9.6
7.007	S8147	15	95.639	-0.241	0.000	0.44		161.1
7.008	S8150	15	95.227	-0.238	0.000	0.57		164.5
7.009	S8149	15	95.043	-0.222	0.000	0.62		206.5
11.000	S5037	15	95.226	-0.154	0.000	0.22		8.0
11.001	S5038	15	95.035	-0.199	0.000	0.25		15.2
11.002	S5039	15	94.960	-0.196	0.000	0.26		16.1
12.000	S5040	15	95.280	-0.103	0.000	0.57		21.9
7.010	S5041	15	94.877	-0.201	0.000	0.69		249.9
7.011	S5042	15	94.575	-0.280	0.000	0.44		258.5
7.012	S5047	16	94.138	0.118	0.000	0.62		258.5
7.013	S5048 - Headwall	20	94.070	0.120	0.000	0.84		255.4
1.018	S5049 - Headwall	23	94.026	0.076	0.000	1.25		627.3
1.019	S5050 Control Chamber	43	93.516	-0.384	0.000	0.02		11.9

PN	US/MH Name	Status
5.000	S5023	OK
5.001	S5025	SURCHARGED
6.000	S5026	OK
6.001	S5027	SURCHARGED
5.002	S5028	SURCHARGED
1.014	S5029	SURCHARGED
1.015	S5030	SURCHARGED
1.016	S8121	SURCHARGED
1.017	S5036 - Headwall	OK

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Summary Wizard of 60 minute 30 year Winter I+0% for Surface Network 5

PN	US/MH Name	Status
7.000	S8135	OK
7.001	S8136	OK
7.002	S8137	OK
7.003	S8161	OK
8.000	S8151	OK
7.004	S8162	OK
7.005	S8152	OK
9.000	S8144	OK
9.001	S8145	OK
7.006	S8146	OK
10.000	S8164	OK
7.007	S8147	OK
7.008	S8150	OK
7.009	S8149	OK
11.000	S5037	OK
11.001	S5038	OK
11.002	S5039	OK
12.000	S5040	OK
7.010	S5041	OK
7.011	S5042	OK
7.012	S5047	SURCHARGED
7.013	S5048 - Headwall	SURCHARGED
1.018	S5049 - Headwall	SURCHARGED
1.019	S5050 Control Chamber	OK

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Summary Wizard of 120 minute 30 year Winter I+0% for Surface Network 5

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.410
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.800	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 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)
1.000	S8142	26	96.801	-0.314	0.000	0.06		11.8
2.000	S8133	26	97.826	-0.234	0.000	0.11		19.6
1.001	S8134	26	96.241	-0.309	0.000	0.22		39.5
1.002	S8141	25	96.060	-0.385	0.000	0.16		49.1
1.003	S8139	25	95.859	-0.396	0.000	0.14		53.0
1.004	S8140	25	95.474	-0.371	0.000	0.19		67.8
1.005	S4008	24	95.361	-0.265	0.000	0.49		79.4
1.006	S4011	23	95.222	-0.367	0.000	0.20		86.2
1.007	S4012	23	94.759	-0.326	0.000	0.31		97.2
3.000	S8157	26	96.036	-0.344	0.000	0.02		4.5
3.001	S8159	25	95.251	-0.369	0.000	0.08		19.1
3.002	S8154	25	95.022	-0.318	0.000	0.19		29.2
3.003	S8155	24	94.882	-0.423	0.000	0.08		44.0
1.008	S5015	22	94.600	-0.245	0.000	0.54		151.7
1.009	S5016	21	94.514	-0.191	0.000	0.42		155.0
1.010	S5017 - PH4 Connection	21	94.471	-0.004	0.000	0.83		171.4
4.000	S5018	26	95.140	-0.264	0.000	0.03		7.1
1.011	S5019	21	94.411	0.006	0.000	1.14		180.8
1.012	S5020 PH5 Connection	19	94.365	0.000	0.000	1.40		185.9
1.013	S5021	29	94.021	-0.309	0.000	0.32		194.7

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Summary Wizard of 120 minute 30 year Winter I+0% for Surface Network 5

PN	US/MH Name	Status
1.000	S8142	OK
2.000	S8133	OK
1.001	S8134	OK
1.002	S8141	OK
1.003	S8139	OK
1.004	S8140	OK
1.005	S4008	OK
1.006	S4011	OK
1.007	S4012	OK
3.000	S8157	OK
3.001	S8159	OK
3.002	S8154	OK
3.003	S8155	OK
1.008	S5015	OK
1.009	S5016	OK
1.010	S5017 - PH4 Connection	OK
4.000	S5018	OK
1.011	S5019	SURCHARGED
1.012	S5020 PH5 Connection	OK
1.013	S5021	OK

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Summary Wizard of 120 minute 30 year Winter I+0% for Surface Network 5

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)
5.000	S5023	26	94.158	-0.362	0.000	0.08		21.9
5.001	S5025	30	94.012	-0.148	0.000	0.15		33.6
6.000	S5026	26	94.344	-0.248	0.000	0.07		7.7
6.001	S5027	30	94.013	-0.122	0.000	0.17		22.8
5.002	S5028	31	94.000	-0.016	0.000	0.36		61.3
1.014	S5029	32	93.983	0.013	0.000	1.00		262.9
1.015	S5030	32	93.940	0.013	0.000	1.47		266.2
1.016	S8121	33	93.902	0.000	0.000	1.48		275.8
1.017	S5036 - Headwall	32	93.808	-0.517	0.000	0.30		287.9
7.000	S8135	24	96.318	-0.300	0.000	0.17		24.3
7.001	S8136	23	96.270	-0.273	0.000	0.23		32.5
7.002	S8137	22	96.224	-0.250	0.000	0.30		40.6
7.003	S8161	22	96.182	-0.231	0.000	0.31		43.1
8.000	S8151	26	96.599	-0.228	0.000	0.13		19.7
7.004	S8162	21	96.142	-0.197	0.000	0.45		62.2
7.005	S8152	21	96.092	-0.178	0.000	0.67		76.8
9.000	S8144	26	96.304	-0.246	0.000	0.07		6.1
9.001	S8145	25	96.075	-0.300	0.000	0.09		13.1
7.006	S8146	21	95.944	-0.285	0.000	0.29		95.2
10.000	S8164	26	95.698	-0.327	0.000	0.04		5.9
7.007	S8147	21	95.596	-0.284	0.000	0.29		105.2
7.008	S8150	21	95.164	-0.301	0.000	0.38		107.4
7.009	S8149	21	94.973	-0.292	0.000	0.40		133.8
11.000	S5037	26	95.209	-0.170	0.000	0.13		5.0
11.001	S5038	25	95.011	-0.223	0.000	0.15		9.4
11.002	S5039	25	94.935	-0.220	0.000	0.16		9.9
12.000	S5040	26	95.250	-0.133	0.000	0.35		13.5
7.010	S5041	21	94.800	-0.278	0.000	0.44		161.1
7.011	S5042	21	94.522	-0.333	0.000	0.28		166.4
7.012	S5047	32	93.845	-0.175	0.000	0.41		169.2
7.013	S5048 - Headwall	32	93.802	-0.148	0.000	0.56		169.4
1.018	S5049 - Headwall	32	93.755	-0.195	0.000	0.89		450.0
1.019	S5050 Control Chamber	38	93.578	-0.322	0.000	0.02		12.1

PN	US/MH Name	Status
5.000	S5023	OK
5.001	S5025	OK
6.000	S5026	OK
6.001	S5027	OK
5.002	S5028	OK
1.014	S5029	SURCHARGED
1.015	S5030	SURCHARGED
1.016	S8121	OK
1.017	S5036 - Headwall	OK

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Summary Wizard of 120 minute 30 year Winter I+0% for Surface Network 5

PN	US/MH Name	Status
7.000	S8135	OK
7.001	S8136	OK
7.002	S8137	OK
7.003	S8161	OK
8.000	S8151	OK
7.004	S8162	OK
7.005	S8152	OK
9.000	S8144	OK
9.001	S8145	OK
7.006	S8146	OK
10.000	S8164	OK
7.007	S8147	OK
7.008	S8150	OK
7.009	S8149	OK
11.000	S5037	OK
11.001	S5038	OK
11.002	S5039	OK
12.000	S5040	OK
7.010	S5041	OK
7.011	S5042	OK
7.012	S5047	OK
7.013	S5048 - Headwall	OK
1.018	S5049 - Headwall	OK
1.019	S5050 Control Chamber	OK

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Summary Wizard of 180 minute 30 year Winter I+0% for Surface Network 5

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.410
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.800	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 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	S8142	31	96.792	-0.323	0.000	0.05		8.8	OK
2.000	S8133	31	97.818	-0.242	0.000	0.08		14.6	OK
1.001	S8134	31	96.220	-0.330	0.000	0.16		29.4	OK
1.002	S8141	31	96.040	-0.405	0.000	0.12		36.6	OK
1.003	S8139	31	95.842	-0.413	0.000	0.10		39.5	OK
1.004	S8140	31	95.451	-0.394	0.000	0.14		50.5	OK
1.005	S4008	31	95.320	-0.306	0.000	0.36		59.1	OK
1.006	S4011	31	95.198	-0.391	0.000	0.15		64.2	OK
1.007	S4012	31	94.730	-0.355	0.000	0.23		72.6	OK
3.000	S8157	31	96.028	-0.352	0.000	0.01		3.3	OK
3.001	S8159	31	95.238	-0.382	0.000	0.06		14.2	OK
3.002	S8154	31	95.002	-0.338	0.000	0.14		21.7	OK
3.003	S8155	31	94.865	-0.440	0.000	0.06		32.8	OK
1.008	S5015	31	94.551	-0.294	0.000	0.40		113.4	OK
1.009	S5016	30	94.442	-0.263	0.000	0.31		114.7	OK
1.010	S5017 - PH4 Connection	30	94.412	-0.063	0.000	0.61		125.6	OK
4.000	S5018	31	95.136	-0.268	0.000	0.03		5.3	OK
1.011	S5019	30	94.377	-0.028	0.000	0.82		130.7	OK
1.012	S5020 PH5 Connection	30	94.339	-0.026	0.000	1.00		133.3	OK
1.013	S5021	36	93.954	-0.376	0.000	0.23		139.6	OK

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Summary Wizard of 180 minute 30 year Winter I+0% for Surface Network 5

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
5.000	S5023	32	94.143	-0.377	0.000	0.06		16.3	OK
5.001	S5025	35	93.937	-0.223	0.000	0.11		24.2	OK
6.000	S5026	31	94.336	-0.256	0.000	0.05		5.7	OK
6.001	S5027	35	93.938	-0.197	0.000	0.13		16.7	OK
5.002	S5028	36	93.928	-0.088	0.000	0.25		43.2	OK
1.014	S5029	36	93.916	-0.054	0.000	0.71		187.7	OK
1.015	S5030	36	93.868	-0.059	0.000	1.05		189.3	OK
1.016	S8121	36	93.816	-0.085	0.000	1.05		196.0	OK
1.017	S5036 - Headwall	35	93.699	-0.626	0.000	0.21		205.9	OK
7.000	S8135	31	96.293	-0.325	0.000	0.13		18.1	OK
7.001	S8136	31	96.239	-0.303	0.000	0.18		24.3	OK
7.002	S8137	31	96.189	-0.285	0.000	0.22		30.4	OK
7.003	S8161	31	96.143	-0.271	0.000	0.23		32.5	OK
8.000	S8151	31	96.589	-0.237	0.000	0.10		14.7	OK
7.004	S8162	30	96.098	-0.241	0.000	0.34		47.0	OK
7.005	S8152	30	96.046	-0.224	0.000	0.50		58.0	OK
9.000	S8144	31	96.296	-0.254	0.000	0.06		4.6	OK
9.001	S8145	31	96.063	-0.312	0.000	0.07		9.8	OK
7.006	S8146	30	95.920	-0.309	0.000	0.22		71.7	OK
10.000	S8164	31	95.692	-0.333	0.000	0.03		4.4	OK
7.007	S8147	30	95.572	-0.308	0.000	0.22		79.2	OK
7.008	S8150	30	95.130	-0.335	0.000	0.28		81.3	OK
7.009	S8149	30	94.938	-0.327	0.000	0.30		101.2	OK
11.000	S5037	31	95.202	-0.177	0.000	0.10		3.7	OK
11.001	S5038	31	95.000	-0.233	0.000	0.11		7.0	OK
11.002	S5039	31	94.924	-0.231	0.000	0.12		7.4	OK
12.000	S5040	31	95.236	-0.147	0.000	0.26		10.0	OK
7.010	S5041	30	94.762	-0.316	0.000	0.34		121.6	OK
7.011	S5042	30	94.494	-0.361	0.000	0.21		125.8	OK
7.012	S5047	35	93.728	-0.292	0.000	0.31		128.7	OK
7.013	S5048 - Headwall	35	93.696	-0.254	0.000	0.42		128.2	OK
1.018	S5049 - Headwall	41	93.645	-0.305	0.000	0.66		332.2	OK
1.019	S5050 Control Chamber	35	93.610	-0.290	0.000	0.02		12.2	OK

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Summary Wizard of 240 minute 30 year Winter I+0% for Surface Network 5

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.410
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.800	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 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	S8142	36	96.787	-0.328	0.000	0.04		7.0	OK
2.000	S8133	36	97.810	-0.250	0.000	0.07		11.7	OK
1.001	S8134	36	96.207	-0.343	0.000	0.13		23.6	OK
1.002	S8141	36	96.029	-0.416	0.000	0.10		29.4	OK
1.003	S8139	36	95.830	-0.425	0.000	0.08		31.7	OK
1.004	S8140	36	95.437	-0.408	0.000	0.11		40.6	OK
1.005	S4008	36	95.294	-0.332	0.000	0.29		47.6	OK
1.006	S4011	36	95.184	-0.405	0.000	0.12		51.7	OK
1.007	S4012	36	94.711	-0.374	0.000	0.18		58.4	OK
3.000	S8157	36	96.023	-0.357	0.000	0.01		2.7	OK
3.001	S8159	36	95.231	-0.389	0.000	0.04		11.4	OK
3.002	S8154	36	94.990	-0.350	0.000	0.11		17.4	OK
3.003	S8155	36	94.855	-0.450	0.000	0.05		26.3	OK
1.008	S5015	36	94.524	-0.321	0.000	0.32		91.2	OK
1.009	S5016	36	94.359	-0.346	0.000	0.25		93.4	OK
1.010	S5017 - PH4 Connection	36	94.288	-0.187	0.000	0.50		103.4	OK
4.000	S5018	36	95.134	-0.270	0.000	0.02		4.3	OK
1.011	S5019	36	94.249	-0.156	0.000	0.69		109.3	OK
1.012	S5020 PH5 Connection	36	94.211	-0.154	0.000	0.84		112.6	OK
1.013	S5021	42	93.910	-0.420	0.000	0.20		118.0	OK

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Summary Wizard of 240 minute 30 year Winter I+0% for Surface Network 5

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
5.000	S5023	38	94.135	-0.385	0.000	0.05		13.1	OK
5.001	S5025	42	93.836	-0.324	0.000	0.09		20.1	OK
6.000	S5026	36	94.331	-0.260	0.000	0.04		4.6	OK
6.001	S5027	42	93.854	-0.281	0.000	0.10		13.7	OK
5.002	S5028	42	93.821	-0.196	0.000	0.21		36.2	OK
1.014	S5029	42	93.811	-0.159	0.000	0.60		158.9	OK
1.015	S5030	42	93.772	-0.155	0.000	0.88		160.1	OK
1.016	S8121	42	93.723	-0.178	0.000	0.89		165.7	OK
1.017	S5036 - Headwall	47	93.652	-0.673	0.000	0.18		174.1	OK
7.000	S8135	36	96.278	-0.341	0.000	0.10		14.6	OK
7.001	S8136	36	96.222	-0.321	0.000	0.14		19.5	OK
7.002	S8137	36	96.169	-0.305	0.000	0.18		24.4	OK
7.003	S8161	36	96.120	-0.294	0.000	0.19		26.1	OK
8.000	S8151	36	96.582	-0.244	0.000	0.08		11.8	OK
7.004	S8162	36	96.073	-0.266	0.000	0.27		37.7	OK
7.005	S8152	36	96.019	-0.251	0.000	0.41		46.6	OK
9.000	S8144	36	96.291	-0.259	0.000	0.04		3.7	OK
9.001	S8145	36	96.056	-0.319	0.000	0.05		7.8	OK
7.006	S8146	36	95.905	-0.324	0.000	0.17		57.7	OK
10.000	S8164	36	95.689	-0.336	0.000	0.02		3.5	OK
7.007	S8147	36	95.556	-0.324	0.000	0.18		63.8	OK
7.008	S8150	36	95.110	-0.355	0.000	0.23		65.3	OK
7.009	S8149	36	94.916	-0.349	0.000	0.25		81.5	OK
11.000	S5037	36	95.197	-0.183	0.000	0.08		3.0	OK
11.001	S5038	36	94.994	-0.239	0.000	0.09		5.6	OK
11.002	S5039	36	94.918	-0.238	0.000	0.10		5.9	OK
12.000	S5040	36	95.227	-0.155	0.000	0.21		8.1	OK
7.010	S5041	36	94.738	-0.340	0.000	0.27		98.0	OK
7.011	S5042	36	94.476	-0.379	0.000	0.17		101.3	OK
7.012	S5047	43	93.688	-0.332	0.000	0.25		103.6	OK
7.013	S5048 - Headwall	47	93.646	-0.304	0.000	0.34		103.7	OK
1.018	S5049 - Headwall	42	93.633	-0.317	0.000	0.55		276.6	OK
1.019	S5050 Control Chamber	28	93.632	-0.268	0.000	0.02		12.2	OK

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Summary Wizard of 360 minute 30 year Winter I+0% for Surface Network 5

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.410
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.800	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 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	S8142	43	96.781	-0.334	0.000	0.03		5.1	OK
2.000	S8133	43	97.802	-0.258	0.000	0.05		8.5	OK
1.001	S8134	43	96.192	-0.358	0.000	0.09		17.2	OK
1.002	S8141	43	96.011	-0.434	0.000	0.07		21.4	OK
1.003	S8139	43	95.813	-0.442	0.000	0.06		23.2	OK
1.004	S8140	43	95.420	-0.425	0.000	0.08		29.7	OK
1.005	S4008	43	95.265	-0.361	0.000	0.21		34.7	OK
1.006	S4011	43	95.168	-0.421	0.000	0.09		37.7	OK
1.007	S4012	43	94.687	-0.398	0.000	0.13		42.6	OK
3.000	S8157	43	96.018	-0.362	0.000	0.01		2.0	OK
3.001	S8159	43	95.223	-0.397	0.000	0.03		8.3	OK
3.002	S8154	43	94.976	-0.364	0.000	0.08		12.7	OK
3.003	S8155	43	94.845	-0.460	0.000	0.04		19.2	OK
1.008	S5015	43	94.492	-0.353	0.000	0.24		66.7	OK
1.009	S5016	43	94.332	-0.373	0.000	0.19		68.3	OK
1.010	S5017 - PH4 Connection	43	94.219	-0.256	0.000	0.37		75.7	OK
4.000	S5018	43	95.126	-0.278	0.000	0.02		3.1	OK
1.011	S5019	43	94.177	-0.228	0.000	0.50		79.9	OK
1.012	S5020 PH5 Connection	45	94.139	-0.226	0.000	0.62		82.1	OK
1.013	S5021	46	93.881	-0.449	0.000	0.14		86.0	OK

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Summary Wizard of 360 minute 30 year Winter I+0% for Surface Network 5

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
5.000	S5023	45	94.126	-0.394	0.000	0.04		9.5	OK
5.001	S5025	46	93.786	-0.374	0.000	0.07		14.8	OK
6.000	S5026	43	94.326	-0.266	0.000	0.03		3.3	OK
6.001	S5027	46	93.828	-0.307	0.000	0.08		10.0	OK
5.002	S5028	46	93.729	-0.288	0.000	0.16		26.9	OK
1.014	S5029	46	93.719	-0.251	0.000	0.44		116.3	OK
1.015	S5030	49	93.682	-0.245	0.000	0.65		117.4	OK
1.016	S8121	49	93.662	-0.240	0.000	0.65		121.7	OK
1.017	S5036 - Headwall	45	93.660	-0.665	0.000	0.13		128.0	OK
7.000	S8135	43	96.261	-0.358	0.000	0.08		10.6	OK
7.001	S8136	43	96.200	-0.343	0.000	0.10		14.3	OK
7.002	S8137	43	96.144	-0.329	0.000	0.13		17.9	OK
7.003	S8161	43	96.094	-0.320	0.000	0.14		19.1	OK
8.000	S8151	43	96.573	-0.254	0.000	0.06		8.6	OK
7.004	S8162	43	96.042	-0.297	0.000	0.20		27.7	OK
7.005	S8152	43	95.987	-0.283	0.000	0.30		34.2	OK
9.000	S8144	43	96.285	-0.265	0.000	0.03		2.7	OK
9.001	S8145	43	96.047	-0.328	0.000	0.04		5.7	OK
7.006	S8146	43	95.885	-0.344	0.000	0.13		42.3	OK
10.000	S8164	43	95.681	-0.344	0.000	0.02		2.6	OK
7.007	S8147	43	95.537	-0.343	0.000	0.13		46.7	OK
7.008	S8150	43	95.083	-0.382	0.000	0.17		47.9	OK
7.009	S8149	43	94.889	-0.376	0.000	0.18		59.7	OK
11.000	S5037	43	95.190	-0.190	0.000	0.06		2.2	OK
11.001	S5038	43	94.983	-0.250	0.000	0.07		4.1	OK
11.002	S5039	43	94.907	-0.248	0.000	0.07		4.3	OK
12.000	S5040	43	95.216	-0.167	0.000	0.15		5.9	OK
7.010	S5041	43	94.711	-0.367	0.000	0.20		71.7	OK
7.011	S5042	43	94.454	-0.401	0.000	0.13		74.2	OK
7.012	S5047	49	93.663	-0.357	0.000	0.18		75.9	OK
7.013	S5048 - Headwall	44	93.661	-0.289	0.000	0.25		75.9	OK
1.018	S5049 - Headwall	39	93.660	-0.290	0.000	0.40		203.4	OK
1.019	S5050 Control Chamber	27	93.658	-0.242	0.000	0.02		12.3	OK

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Summary Wizard of 480 minute 30 year Winter I+0% for Surface Network 5

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.410
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.800	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 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	S8142	50	96.778	-0.337	0.000	0.02		4.1	OK
2.000	S8133	50	97.798	-0.262	0.000	0.04		6.8	OK
1.001	S8134	50	96.181	-0.369	0.000	0.08		13.8	OK
1.002	S8141	50	96.000	-0.445	0.000	0.06		17.1	OK
1.003	S8139	50	95.803	-0.452	0.000	0.05		18.5	OK
1.004	S8140	50	95.407	-0.438	0.000	0.07		23.7	OK
1.005	S4008	50	95.246	-0.380	0.000	0.17		27.7	OK
1.006	S4011	50	95.154	-0.435	0.000	0.07		30.1	OK
1.007	S4012	50	94.674	-0.411	0.000	0.11		34.1	OK
3.000	S8157	50	96.016	-0.364	0.000	0.01		1.6	OK
3.001	S8159	50	95.218	-0.402	0.000	0.03		6.6	OK
3.002	S8154	50	94.965	-0.375	0.000	0.07		10.2	OK
3.003	S8155	50	94.839	-0.466	0.000	0.03		15.3	OK
1.008	S5015	50	94.473	-0.372	0.000	0.19		53.2	OK
1.009	S5016	50	94.314	-0.391	0.000	0.15		54.6	OK
1.010	S5017 - PH4 Connection	49	94.183	-0.292	0.000	0.29		60.5	OK
4.000	S5018	50	95.121	-0.283	0.000	0.01		2.5	OK
1.011	S5019	50	94.139	-0.266	0.000	0.40		63.9	OK
1.012	S5020 PH5 Connection	50	94.101	-0.264	0.000	0.49		65.7	OK
1.013	S5021	50	93.865	-0.465	0.000	0.11		68.8	OK

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Summary Wizard of 480 minute 30 year Winter I+0% for Surface Network 5

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
5.000	S5023	51	94.121	-0.399	0.000	0.03		7.6	OK
5.001	S5025	51	93.776	-0.384	0.000	0.05		11.8	OK
6.000	S5026	50	94.323	-0.268	0.000	0.02		2.7	OK
6.001	S5027	51	93.820	-0.315	0.000	0.06		8.0	OK
5.002	S5028	53	93.683	-0.334	0.000	0.13		21.6	OK
1.014	S5029	53	93.681	-0.289	0.000	0.35		93.0	OK
1.015	S5030	51	93.680	-0.247	0.000	0.52		93.8	OK
1.016	S8121	48	93.678	-0.224	0.000	0.52		97.3	OK
1.017	S5036 - Headwall	42	93.676	-0.649	0.000	0.11		102.6	OK
7.000	S8135	50	96.249	-0.369	0.000	0.06		8.5	OK
7.001	S8136	50	96.188	-0.355	0.000	0.08		11.4	OK
7.002	S8137	50	96.130	-0.344	0.000	0.11		14.3	OK
7.003	S8161	50	96.078	-0.336	0.000	0.11		15.3	OK
8.000	S8151	50	96.568	-0.259	0.000	0.05		6.9	OK
7.004	S8162	50	96.025	-0.314	0.000	0.16		22.1	OK
7.005	S8152	50	95.968	-0.302	0.000	0.24		27.3	OK
9.000	S8144	50	96.282	-0.268	0.000	0.03		2.1	OK
9.001	S8145	50	96.043	-0.332	0.000	0.03		4.6	OK
7.006	S8146	50	95.874	-0.355	0.000	0.10		33.8	OK
10.000	S8164	50	95.675	-0.351	0.000	0.01		2.1	OK
7.007	S8147	50	95.526	-0.354	0.000	0.10		37.4	OK
7.008	S8150	50	95.067	-0.398	0.000	0.13		38.4	OK
7.009	S8149	50	94.872	-0.393	0.000	0.14		47.8	OK
11.000	S5037	50	95.186	-0.194	0.000	0.05		1.7	OK
11.001	S5038	50	94.977	-0.256	0.000	0.05		3.3	OK
11.002	S5039	50	94.901	-0.255	0.000	0.06		3.4	OK
12.000	S5040	50	95.210	-0.173	0.000	0.12		4.7	OK
7.010	S5041	50	94.692	-0.386	0.000	0.16		57.4	OK
7.011	S5042	50	94.441	-0.414	0.000	0.10		59.3	OK
7.012	S5047	47	93.679	-0.341	0.000	0.15		60.8	OK
7.013	S5048 - Headwall	42	93.677	-0.273	0.000	0.20		60.6	OK
1.018	S5049 - Headwall	38	93.676	-0.274	0.000	0.32		163.2	OK
1.019	S5050 Control Chamber	26	93.675	-0.225	0.000	0.02		12.3	OK

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Summary Wizard of 600 minute 30 year Winter I+0% for Surface Network 5

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.410
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.800	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 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	S8142	53	96.773	-0.342	0.000	0.02		3.4	OK
2.000	S8133	53	97.795	-0.265	0.000	0.03		5.7	OK
1.001	S8134	53	96.173	-0.377	0.000	0.06		11.5	OK
1.002	S8141	53	95.993	-0.452	0.000	0.05		14.4	OK
1.003	S8139	53	95.797	-0.458	0.000	0.04		15.5	OK
1.004	S8140	53	95.399	-0.446	0.000	0.06		19.9	OK
1.005	S4008	53	95.233	-0.393	0.000	0.14		23.3	OK
1.006	S4011	53	95.145	-0.444	0.000	0.06		25.3	OK
1.007	S4012	53	94.666	-0.419	0.000	0.09		28.6	OK
3.000	S8157	53	96.014	-0.366	0.000	0.01		1.3	OK
3.001	S8159	53	95.216	-0.404	0.000	0.02		5.6	OK
3.002	S8154	53	94.958	-0.382	0.000	0.06		8.5	OK
3.003	S8155	53	94.835	-0.470	0.000	0.02		12.9	OK
1.008	S5015	53	94.459	-0.386	0.000	0.16		44.7	OK
1.009	S5016	53	94.302	-0.403	0.000	0.12		45.8	OK
1.010	S5017 - PH4 Connection	53	94.159	-0.316	0.000	0.25		50.8	OK
4.000	S5018	53	95.118	-0.286	0.000	0.01		2.1	OK
1.011	S5019	54	94.113	-0.292	0.000	0.34		53.7	OK
1.012	S5020 PH5 Connection	54	94.075	-0.290	0.000	0.41		55.2	OK
1.013	S5021	54	93.854	-0.476	0.000	0.10		57.9	OK

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Summary Wizard of 600 minute 30 year Winter I+0% for Surface Network 5

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
5.000	S5023	54	94.117	-0.403	0.000	0.02		6.4	OK
5.001	S5025	54	93.771	-0.389	0.000	0.04		9.9	OK
6.000	S5026	53	94.321	-0.270	0.000	0.02		2.2	OK
6.001	S5027	54	93.814	-0.321	0.000	0.05		6.7	OK
5.002	S5028	52	93.686	-0.330	0.000	0.11		18.1	OK
1.014	S5029	52	93.686	-0.284	0.000	0.30		78.2	OK
1.015	S5030	48	93.684	-0.243	0.000	0.44		78.7	OK
1.016	S8121	46	93.683	-0.219	0.000	0.44		81.5	OK
1.017	S5036 - Headwall	40	93.681	-0.644	0.000	0.09		85.4	OK
7.000	S8135	53	96.241	-0.377	0.000	0.05		7.1	OK
7.001	S8136	53	96.180	-0.363	0.000	0.07		9.6	OK
7.002	S8137	53	96.121	-0.353	0.000	0.09		12.0	OK
7.003	S8161	53	96.067	-0.347	0.000	0.09		12.8	OK
8.000	S8151	53	96.564	-0.262	0.000	0.04		5.8	OK
7.004	S8162	53	96.012	-0.327	0.000	0.13		18.6	OK
7.005	S8152	53	95.956	-0.314	0.000	0.20		23.0	OK
9.000	S8144	53	96.280	-0.270	0.000	0.02		1.8	OK
9.001	S8145	53	96.040	-0.335	0.000	0.03		3.8	OK
7.006	S8146	53	95.867	-0.362	0.000	0.09		28.4	OK
10.000	S8164	53	95.671	-0.355	0.000	0.01		1.7	OK
7.007	S8147	53	95.519	-0.361	0.000	0.09		31.4	OK
7.008	S8150	53	95.057	-0.408	0.000	0.11		32.2	OK
7.009	S8149	53	94.861	-0.404	0.000	0.12		40.2	OK
11.000	S5037	53	95.183	-0.196	0.000	0.04		1.5	OK
11.001	S5038	53	94.974	-0.260	0.000	0.04		2.7	OK
11.002	S5039	53	94.897	-0.259	0.000	0.05		2.9	OK
12.000	S5040	53	95.206	-0.177	0.000	0.10		3.9	OK
7.010	S5041	53	94.680	-0.398	0.000	0.13		48.2	OK
7.011	S5042	53	94.432	-0.423	0.000	0.09		49.9	OK
7.012	S5047	45	93.684	-0.336	0.000	0.12		51.1	OK
7.013	S5048 - Headwall	38	93.683	-0.267	0.000	0.17		50.9	OK
1.018	S5049 - Headwall	36	93.681	-0.269	0.000	0.27		133.8	OK
1.019	S5050 Control Chamber	23	93.680	-0.220	0.000	0.02		12.3	OK

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Summary Wizard of 720 minute 30 year Winter I+0% for Surface Network 5

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.410
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.800	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 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	S8142	58	96.768	-0.347	0.000	0.02		3.0	OK
2.000	S8133	58	97.793	-0.267	0.000	0.03		5.0	OK
1.001	S8134	58	96.167	-0.383	0.000	0.05		10.0	OK
1.002	S8141	58	95.988	-0.457	0.000	0.04		12.5	OK
1.003	S8139	58	95.793	-0.462	0.000	0.03		13.5	OK
1.004	S8140	58	95.393	-0.452	0.000	0.05		17.2	OK
1.005	S4008	58	95.223	-0.403	0.000	0.12		20.2	OK
1.006	S4011	58	95.139	-0.450	0.000	0.05		21.9	OK
1.007	S4012	58	94.657	-0.428	0.000	0.08		24.8	OK
3.000	S8157	58	96.013	-0.367	0.000	0.00		1.1	OK
3.001	S8159	58	95.211	-0.409	0.000	0.02		4.8	OK
3.002	S8154	58	94.953	-0.387	0.000	0.05		7.4	OK
3.003	S8155	58	94.833	-0.472	0.000	0.02		11.2	OK
1.008	S5015	58	94.448	-0.397	0.000	0.14		38.7	OK
1.009	S5016	58	94.294	-0.411	0.000	0.11		39.7	OK
1.010	S5017 - PH4 Connection	58	94.142	-0.333	0.000	0.21		44.1	OK
4.000	S5018	58	95.117	-0.287	0.000	0.01		1.8	OK
1.011	S5019	58	94.095	-0.310	0.000	0.29		46.6	OK
1.012	S5020 PH5 Connection	58	94.057	-0.308	0.000	0.36		47.9	OK
1.013	S5021	58	93.846	-0.484	0.000	0.08		50.2	OK

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Summary Wizard of 720 minute 30 year Winter I+0% for Surface Network 5

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
5.000	S5023	58	94.115	-0.405	0.000	0.02		5.5	OK
5.001	S5025	58	93.767	-0.393	0.000	0.04		8.6	OK
6.000	S5026	58	94.317	-0.274	0.000	0.02		1.9	OK
6.001	S5027	58	93.810	-0.325	0.000	0.04		5.8	OK
5.002	S5028	51	93.691	-0.326	0.000	0.09		15.7	OK
1.014	S5029	51	93.690	-0.280	0.000	0.26		67.8	OK
1.015	S5030	47	93.689	-0.238	0.000	0.38		68.2	OK
1.016	S8121	45	93.688	-0.214	0.000	0.38		70.5	OK
1.017	S5036 - Headwall	37	93.687	-0.638	0.000	0.08		73.9	OK
7.000	S8135	58	96.235	-0.383	0.000	0.04		6.2	OK
7.001	S8136	58	96.173	-0.370	0.000	0.06		8.3	OK
7.002	S8137	58	96.115	-0.359	0.000	0.08		10.4	OK
7.003	S8161	58	96.059	-0.354	0.000	0.08		11.1	OK
8.000	S8151	58	96.562	-0.265	0.000	0.03		5.0	OK
7.004	S8162	58	96.003	-0.337	0.000	0.12		16.1	OK
7.005	S8152	58	95.945	-0.325	0.000	0.17		19.9	OK
9.000	S8144	58	96.277	-0.273	0.000	0.02		1.6	OK
9.001	S8145	58	96.038	-0.337	0.000	0.02		3.3	OK
7.006	S8146	58	95.859	-0.370	0.000	0.07		24.6	OK
10.000	S8164	58	95.668	-0.357	0.000	0.01		1.5	OK
7.007	S8147	58	95.511	-0.369	0.000	0.07		27.2	OK
7.008	S8150	58	95.049	-0.416	0.000	0.10		27.9	OK
7.009	S8149	58	94.853	-0.412	0.000	0.10		34.8	OK
11.000	S5037	58	95.181	-0.198	0.000	0.03		1.3	OK
11.001	S5038	58	94.971	-0.262	0.000	0.04		2.4	OK
11.002	S5039	58	94.894	-0.261	0.000	0.04		2.5	OK
12.000	S5040	58	95.203	-0.180	0.000	0.09		3.4	OK
7.010	S5041	58	94.671	-0.407	0.000	0.12		41.8	OK
7.011	S5042	58	94.424	-0.431	0.000	0.07		43.2	OK
7.012	S5047	42	93.689	-0.331	0.000	0.11		44.3	OK
7.013	S5048 - Headwall	37	93.687	-0.263	0.000	0.14		44.1	OK
1.018	S5049 - Headwall	35	93.686	-0.264	0.000	0.23		115.3	OK
1.019	S5050 Control Chamber	22	93.685	-0.215	0.000	0.02		12.3	OK

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Summary Wizard of 960 minute 30 year Winter I+0% for Surface Network 5

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.410
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.800	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 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	S8142	60	96.763	-0.352	0.000	0.01		2.4	OK
2.000	S8133	60	97.791	-0.269	0.000	0.02		4.0	OK
1.001	S8134	60	96.160	-0.390	0.000	0.04		8.0	OK
1.002	S8141	60	95.981	-0.464	0.000	0.03		9.9	OK
1.003	S8139	60	95.788	-0.467	0.000	0.03		10.7	OK
1.004	S8140	60	95.386	-0.459	0.000	0.04		13.7	OK
1.005	S4008	60	95.211	-0.415	0.000	0.10		16.1	OK
1.006	S4011	60	95.131	-0.458	0.000	0.04		17.5	OK
1.007	S4012	60	94.645	-0.440	0.000	0.06		19.8	OK
3.000	S8157	60	96.011	-0.369	0.000	0.00		0.9	OK
3.001	S8159	60	95.202	-0.418	0.000	0.02		3.9	OK
3.002	S8154	60	94.946	-0.394	0.000	0.04		5.9	OK
3.003	S8155	60	94.822	-0.483	0.000	0.02		8.9	OK
1.008	S5015	60	94.435	-0.410	0.000	0.11		30.9	OK
1.009	S5016	60	94.283	-0.422	0.000	0.09		31.7	OK
1.010	S5017 - PH4 Connection	60	94.118	-0.357	0.000	0.17		35.1	OK
4.000	S5018	60	95.114	-0.290	0.000	0.01		1.4	OK
1.011	S5019	60	94.069	-0.336	0.000	0.23		37.2	OK
1.012	S5020 PH5 Connection	60	94.031	-0.334	0.000	0.29		38.2	OK
1.013	S5021	60	93.831	-0.499	0.000	0.07		40.1	OK

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Summary Wizard of 960 minute 30 year Winter I+0% for Surface Network 5

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
5.000	S5023	60	94.106	-0.414	0.000	0.02		4.4	OK
5.001	S5025	60	93.762	-0.398	0.000	0.03		6.9	OK
6.000	S5026	60	94.312	-0.280	0.000	0.01		1.5	OK
6.001	S5027	60	93.805	-0.330	0.000	0.04		4.6	OK
5.002	S5028	50	93.692	-0.324	0.000	0.07		12.5	OK
1.014	S5029	50	93.691	-0.279	0.000	0.21		54.2	OK
1.015	S5030	46	93.690	-0.237	0.000	0.30		54.5	OK
1.016	S8121	44	93.689	-0.213	0.000	0.30		56.4	OK
1.017	S5036 - Headwall	36	93.688	-0.637	0.000	0.06		59.2	OK
7.000	S8135	60	96.227	-0.391	0.000	0.04		4.9	OK
7.001	S8136	60	96.163	-0.380	0.000	0.05		6.6	OK
7.002	S8137	60	96.103	-0.371	0.000	0.06		8.3	OK
7.003	S8161	60	96.048	-0.366	0.000	0.06		8.9	OK
8.000	S8151	60	96.559	-0.268	0.000	0.03		4.0	OK
7.004	S8162	60	95.990	-0.350	0.000	0.09		12.8	OK
7.005	S8152	60	95.931	-0.339	0.000	0.14		15.9	OK
9.000	S8144	60	96.272	-0.278	0.000	0.02		1.2	OK
9.001	S8145	60	96.032	-0.343	0.000	0.02		2.7	OK
7.006	S8146	60	95.849	-0.380	0.000	0.06		19.6	OK
10.000	S8164	60	95.664	-0.361	0.000	0.01		1.2	OK
7.007	S8147	60	95.501	-0.379	0.000	0.06		21.7	OK
7.008	S8150	60	95.037	-0.428	0.000	0.08		22.3	OK
7.009	S8149	60	94.841	-0.424	0.000	0.08		27.8	OK
11.000	S5037	60	95.179	-0.200	0.000	0.03		1.0	OK
11.001	S5038	60	94.968	-0.266	0.000	0.03		1.9	OK
11.002	S5039	60	94.891	-0.265	0.000	0.03		2.0	OK
12.000	S5040	60	95.197	-0.186	0.000	0.07		2.7	OK
7.010	S5041	60	94.660	-0.418	0.000	0.09		33.4	OK
7.011	S5042	60	94.412	-0.443	0.000	0.06		34.5	OK
7.012	S5047	41	93.690	-0.330	0.000	0.08		35.4	OK
7.013	S5048 - Headwall	36	93.688	-0.262	0.000	0.12		35.3	OK
1.018	S5049 - Headwall	34	93.688	-0.262	0.000	0.18		92.2	OK
1.019	S5050 Control Chamber	21	93.687	-0.213	0.000	0.02		12.3	OK

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Summary Wizard of 1440 minute 30 year Winter I+0% for Surface Network 5

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.410
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.800	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 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	S8142	66	96.756	-0.359	0.000	0.01		1.7	OK
2.000	S8133	66	97.783	-0.277	0.000	0.02		2.9	OK
1.001	S8134	66	96.152	-0.398	0.000	0.03		5.8	OK
1.002	S8141	66	95.974	-0.471	0.000	0.02		7.2	OK
1.003	S8139	66	95.780	-0.475	0.000	0.02		7.8	OK
1.004	S8140	66	95.378	-0.467	0.000	0.03		10.0	OK
1.005	S4008	66	95.193	-0.433	0.000	0.07		11.7	OK
1.006	S4011	66	95.123	-0.466	0.000	0.03		12.7	OK
1.007	S4012	66	94.631	-0.454	0.000	0.05		14.3	OK
3.000	S8157	66	96.009	-0.371	0.000	0.00		0.7	OK
3.001	S8159	66	95.193	-0.427	0.000	0.01		2.8	OK
3.002	S8154	66	94.939	-0.401	0.000	0.03		4.3	OK
3.003	S8155	66	94.811	-0.494	0.000	0.01		6.5	OK
1.008	S5015	66	94.418	-0.427	0.000	0.08		22.4	OK
1.009	S5016	66	94.265	-0.440	0.000	0.06		23.0	OK
1.010	S5017 - PH4 Connection	66	94.090	-0.385	0.000	0.12		25.5	OK
4.000	S5018	66	95.111	-0.293	0.000	0.01		1.0	OK
1.011	S5019	66	94.040	-0.365	0.000	0.17		27.0	OK
1.012	S5020 PH5 Connection	66	94.002	-0.363	0.000	0.21		27.8	OK
1.013	S5021	66	93.814	-0.516	0.000	0.05		29.1	OK

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Summary Wizard of 1440 minute 30 year Winter I+0% for Surface Network 5

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
5.000	S5023	66	94.096	-0.424	0.000	0.01		3.2	OK
5.001	S5025	66	93.756	-0.404	0.000	0.02		5.0	OK
6.000	S5026	66	94.307	-0.285	0.000	0.01		1.1	OK
6.001	S5027	66	93.800	-0.335	0.000	0.03		3.4	OK
5.002	S5028	54	93.681	-0.335	0.000	0.05		9.1	OK
1.014	S5029	54	93.681	-0.289	0.000	0.15		39.3	OK
1.015	S5030	50	93.680	-0.247	0.000	0.22		39.6	OK
1.016	S8121	47	93.679	-0.223	0.000	0.22		40.9	OK
1.017	S5036 - Headwall	41	93.678	-0.647	0.000	0.04		42.9	OK
7.000	S8135	66	96.219	-0.399	0.000	0.03		3.6	OK
7.001	S8136	66	96.151	-0.391	0.000	0.03		4.8	OK
7.002	S8137	66	96.089	-0.384	0.000	0.04		6.0	OK
7.003	S8161	66	96.034	-0.380	0.000	0.05		6.4	OK
8.000	S8151	66	96.554	-0.273	0.000	0.02		2.9	OK
7.004	S8162	66	95.975	-0.364	0.000	0.07		9.3	OK
7.005	S8152	66	95.915	-0.355	0.000	0.10		11.5	OK
9.000	S8144	66	96.266	-0.284	0.000	0.01		0.9	OK
9.001	S8145	66	96.023	-0.352	0.000	0.01		1.9	OK
7.006	S8146	66	95.838	-0.391	0.000	0.04		14.3	OK
10.000	S8164	66	95.661	-0.365	0.000	0.01		0.9	OK
7.007	S8147	66	95.490	-0.390	0.000	0.04		15.8	OK
7.008	S8150	66	95.020	-0.445	0.000	0.06		16.2	OK
7.009	S8149	66	94.823	-0.442	0.000	0.06		20.2	OK
11.000	S5037	66	95.176	-0.204	0.000	0.02		0.7	OK
11.001	S5038	66	94.964	-0.270	0.000	0.02		1.4	OK
11.002	S5039	66	94.887	-0.269	0.000	0.02		1.5	OK
12.000	S5040	66	95.190	-0.192	0.000	0.05		2.0	OK
7.010	S5041	66	94.641	-0.437	0.000	0.07		24.2	OK
7.011	S5042	66	94.399	-0.456	0.000	0.04		25.1	OK
7.012	S5047	48	93.679	-0.341	0.000	0.06		25.7	OK
7.013	S5048 - Headwall	41	93.678	-0.272	0.000	0.08		25.6	OK
1.018	S5049 - Headwall	37	93.678	-0.272	0.000	0.13		66.9	OK
1.019	S5050 Control Chamber	24	93.677	-0.223	0.000	0.02		12.3	OK

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Summary Wizard of 15 minute 100 year Winter I+40% for Surface Network 5

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.410
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.800	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 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)
1.000	S8142	1	98.065	0.950	0.000	0.31		58.8
2.000	S8133	1	98.452	0.392	0.000	0.64		112.8
1.001	S8134	1	98.017	1.467	0.000	1.00		182.8
1.002	S8141	1	97.922	1.477	0.000	0.73		224.2
1.003	S8139	1	97.831	1.576	0.000	0.56		215.0
1.004	S8140	1	97.693	1.848	5.270	0.66		238.7
1.005	S4008	1	97.635	2.009	0.808	1.58		256.3
1.006	S4011	1	97.536	1.947	0.000	0.63		275.4
1.007	S4012	1	97.329	2.244	16.365	0.92		290.0
3.000	S8157	1	97.299	0.919	0.000	0.09		23.7
3.001	S8159	1	97.280	1.660	0.000	0.34		86.6
3.002	S8154	1	97.239	1.899	10.474	0.67		103.4
3.003	S8155	1	97.211	1.906	7.244	0.26		136.6
1.008	S5015	2	97.199	2.354	0.000	1.45		410.6
1.009	S5016	1	97.056	2.351	0.000	1.12		412.3
1.010	S5017 - PH4 Connection	1	96.866	2.391	0.000	2.27		468.7
4.000	S5018	1	96.512	1.108	0.440	0.18		36.8
1.011	S5019	1	96.504	2.099	0.000	3.11		492.9
1.012	S5020 PH5 Connection	1	96.068	1.703	0.000	3.84		511.9
1.013	S5021	2	95.608	1.278	7.867	0.84		507.2

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Summary Wizard of 15 minute 100 year Winter I+40% for Surface Network 5

PN	US/MH Name	Status
1.000	S8142	SURCHARGED
2.000	S8133	SURCHARGED
1.001	S8134	FLOOD RISK
1.002	S8141	FLOOD RISK
1.003	S8139	SURCHARGED
1.004	S8140	FLOOD
1.005	S4008	FLOOD
1.006	S4011	FLOOD RISK
1.007	S4012	FLOOD
3.000	S8157	SURCHARGED
3.001	S8159	FLOOD RISK
3.002	S8154	FLOOD
3.003	S8155	FLOOD
1.008	S5015	SURCHARGED
1.009	S5016	FLOOD RISK
1.010	S5017 - PH4 Connection	SURCHARGED
4.000	S5018	FLOOD
1.011	S5019	SURCHARGED
1.012	S5020 PH5 Connection	FLOOD RISK
1.013	S5021	FLOOD

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Summary Wizard of 15 minute 100 year Winter I+40% for Surface Network 5

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)
5.000	S5023	1	95.518	0.998	0.000	0.44		113.3
5.001	S5025	2	95.446	1.286	9.901	0.75		165.7
6.000	S5026	1	95.577	0.985	0.000	0.35		37.4
6.001	S5027	1	95.507	1.372	0.000	0.81		106.6
5.002	S5028	1	95.417	1.401	7.047	1.65		282.0
1.014	S5029	1	95.394	1.424	0.000	2.91		766.6
1.015	S5030	1	95.190	1.263	0.000	4.25		768.1
1.016	S8121	1	94.916	1.014	0.000	4.29		797.6
1.017	S5036 - Headwall	1	94.605	0.280	0.000	0.77		746.5
7.000	S8135	1	98.238	1.620	2.344	0.84		117.2
7.001	S8136	1	98.205	1.662	0.000	1.03		142.8
7.002	S8137	1	98.155	1.681	0.000	1.28		173.0
7.003	S8161	1	98.056	1.642	0.000	1.27		177.7
8.000	S8151	1	98.014	1.187	3.195	0.67		100.2
7.004	S8162	1	97.923	1.584	0.007	1.74		240.8
7.005	S8152	1	97.718	1.448	6.465	2.55		293.7
9.000	S8144	1	97.593	1.043	0.000	0.39		31.6
9.001	S8145	1	97.554	1.179	0.000	0.44		65.0
7.006	S8146	1	97.515	1.286	2.330	1.00		332.9
10.000	S8164	1	97.226	1.201	0.514	0.19		28.8
7.007	S8147	1	97.213	1.333	0.000	0.97		351.4
7.008	S8150	1	96.848	1.383	0.000	1.26		359.5
7.009	S8149	1	96.509	1.244	3.477	1.36		451.8
11.000	S5037	1	96.343	0.963	0.000	0.67		24.7
11.001	S5038	2	96.293	1.060	0.000	0.62		38.3
11.002	S5039	2	96.258	1.102	0.000	0.58		35.8
12.000	S5040	1	96.514	1.132	3.737	1.59		61.1
7.010	S5041	2	96.226	1.148	0.000	1.50		542.9
7.011	S5042	2	95.814	0.959	0.000	0.95		559.2
7.012	S5047	2	95.173	1.153	0.000	1.37		569.2
7.013	S5048 - Headwall	2	94.703	0.753	3.334	1.78		541.6
1.018	S5049 - Headwall	1	94.544	0.594	0.000	2.51		1262.8
1.019	S5050 Control Chamber	40	93.563	-0.337	0.000	0.02		12.1

PN	US/MH Name	Status
5.000	S5023	SURCHARGED
5.001	S5025	FLOOD
6.000	S5026	FLOOD RISK
6.001	S5027	FLOOD RISK
5.002	S5028	FLOOD
1.014	S5029	FLOOD RISK
1.015	S5030	FLOOD RISK
1.016	S8121	FLOOD RISK
1.017	S5036 - Headwall	FLOOD RISK

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Summary Wizard of 15 minute 100 year Winter I+40% for Surface Network 5

PN	US/MH Name	Status
7.000	S8135	FLOOD
7.001	S8136	SURCHARGED
7.002	S8137	SURCHARGED
7.003	S8161	FLOOD RISK
8.000	S8151	FLOOD
7.004	S8162	FLOOD
7.005	S8152	FLOOD
9.000	S8144	FLOOD RISK
9.001	S8145	FLOOD RISK
7.006	S8146	FLOOD
10.000	S8164	FLOOD
7.007	S8147	FLOOD RISK
7.008	S8150	FLOOD RISK
7.009	S8149	FLOOD
11.000	S5037	FLOOD RISK
11.001	S5038	FLOOD RISK
11.002	S5039	FLOOD RISK
12.000	S5040	FLOOD
7.010	S5041	FLOOD RISK
7.011	S5042	FLOOD RISK
7.012	S5047	FLOOD RISK
7.013	S5048 - Headwall	FLOOD
1.018	S5049 - Headwall	FLOOD RISK
1.019	S5050 Control Chamber	OK

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Summary Wizard of 30 minute 100 year Winter I+40% for Surface Network 5

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.410
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.800	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 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)
1.000	S8142	2	97.931	0.816	0.000	0.28		51.7
2.000	S8133	3	98.159	0.099	0.000	0.51		89.3
1.001	S8134	2	97.891	1.341	0.000	0.87		158.2
1.002	S8141	2	97.846	1.401	0.000	0.62		190.5
1.003	S8139	2	97.783	1.528	0.000	0.47		181.3
1.004	S8140	2	97.689	1.844	0.697	0.62		224.1
1.005	S4008	2	97.635	2.009	0.057	1.57		254.6
1.006	S4011	2	97.526	1.937	0.000	0.63		274.5
1.007	S4012	2	97.327	2.242	14.375	0.86		272.7
3.000	S8157	4	97.283	0.903	0.000	0.07		18.7
3.001	S8159	3	97.269	1.649	0.000	0.29		73.0
3.002	S8154	2	97.238	1.898	9.149	0.67		103.6
3.003	S8155	2	97.208	1.903	3.863	0.25		129.1
1.008	S5015	3	97.188	2.343	0.000	1.42		402.1
1.009	S5016	3	96.982	2.277	0.000	1.11		407.0
1.010	S5017 - PH4 Connection	3	96.759	2.284	0.000	2.13		440.2
4.000	S5018	2	96.458	1.054	0.000	0.14		28.4
1.011	S5019	2	96.426	2.021	0.000	3.02		479.0
1.012	S5020 PH5 Connection	3	96.022	1.657	0.000	3.70		493.1
1.013	S5021	1	95.608	1.278	7.737	0.85		509.0

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Summary Wizard of 30 minute 100 year Winter I+40% for Surface Network 5

PN	US/MH Name	Status
1.000	S8142	SURCHARGED
2.000	S8133	SURCHARGED
1.001	S8134	FLOOD RISK
1.002	S8141	FLOOD RISK
1.003	S8139	SURCHARGED
1.004	S8140	FLOOD
1.005	S4008	FLOOD
1.006	S4011	FLOOD RISK
1.007	S4012	FLOOD
3.000	S8157	SURCHARGED
3.001	S8159	FLOOD RISK
3.002	S8154	FLOOD
3.003	S8155	FLOOD
1.008	S5015	SURCHARGED
1.009	S5016	FLOOD RISK
1.010	S5017 - PH4 Connection	SURCHARGED
4.000	S5018	FLOOD RISK
1.011	S5019	SURCHARGED
1.012	S5020 PH5 Connection	FLOOD RISK
1.013	S5021	FLOOD

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Summary Wizard of 30 minute 100 year Winter I+40% for Surface Network 5

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)
5.000	S5023	3	95.491	0.971	0.000	0.36		93.5
5.001	S5025	1	95.446	1.286	10.536	0.61		135.7
6.000	S5026	3	95.522	0.930	0.000	0.29		31.1
6.001	S5027	3	95.476	1.341	0.000	0.70		91.6
5.002	S5028	2	95.417	1.401	6.383	1.38		235.7
1.014	S5029	2	95.392	1.422	0.000	2.72		715.6
1.015	S5030	2	95.168	1.241	0.000	3.94		712.9
1.016	S8121	2	94.893	0.991	0.000	4.00		743.7
1.017	S5036 - Headwall	2	94.576	0.251	0.000	0.77		749.3
7.000	S8135	3	98.140	1.521	0.000	0.68		95.2
7.001	S8136	3	98.099	1.556	0.000	0.91		125.6
7.002	S8137	3	98.048	1.574	0.000	1.13		152.7
7.003	S8161	3	97.979	1.565	0.000	1.08		150.7
8.000	S8151	3	98.011	1.184	0.027	0.55		82.3
7.004	S8162	3	97.891	1.551	0.000	1.58		218.8
7.005	S8152	2	97.713	1.443	1.247	2.29		263.9
9.000	S8144	2	97.568	1.018	0.000	0.31		25.3
9.001	S8145	2	97.541	1.166	0.000	0.37		54.2
7.006	S8146	2	97.513	1.284	0.203	0.94		314.6
10.000	S8164	2	97.221	1.195	0.000	0.15		21.7
7.007	S8147	2	97.209	1.329	0.000	0.96		348.3
7.008	S8150	2	96.823	1.358	0.000	1.24		354.9
7.009	S8149	2	96.509	1.244	3.136	1.28		423.4
11.000	S5037	2	96.343	0.963	0.000	0.55		20.2
11.001	S5038	1	96.301	1.068	0.000	0.53		32.9
11.002	S5039	1	96.268	1.112	0.000	0.52		32.5
12.000	S5040	2	96.513	1.130	1.846	1.34		51.4
7.010	S5041	1	96.234	1.156	0.000	1.39		503.9
7.011	S5042	1	95.825	0.970	0.000	0.89		522.5
7.012	S5047	1	95.181	1.161	0.000	1.28		533.9
7.013	S5048 - Headwall	1	94.704	0.754	3.601	1.71		520.1
1.018	S5049 - Headwall	2	94.513	0.563	0.000	2.49		1252.0
1.019	S5050 Control Chamber	25	93.677	-0.223	0.000	0.02		12.3

PN	US/MH Name	Status
5.000	S5023	SURCHARGED
5.001	S5025	FLOOD
6.000	S5026	SURCHARGED
6.001	S5027	FLOOD RISK
5.002	S5028	FLOOD
1.014	S5029	FLOOD RISK
1.015	S5030	SURCHARGED
1.016	S8121	FLOOD RISK
1.017	S5036 - Headwall	FLOOD RISK

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Summary Wizard of 30 minute 100 year Winter I+40% for Surface Network 5

PN	US/MH Name	Status
7.000	S8135	FLOOD RISK
7.001	S8136	SURCHARGED
7.002	S8137	SURCHARGED
7.003	S8161	FLOOD RISK
8.000	S8151	FLOOD
7.004	S8162	FLOOD RISK
7.005	S8152	FLOOD
9.000	S8144	SURCHARGED
9.001	S8145	FLOOD RISK
7.006	S8146	FLOOD
10.000	S8164	FLOOD RISK
7.007	S8147	FLOOD RISK
7.008	S8150	FLOOD RISK
7.009	S8149	FLOOD
11.000	S5037	FLOOD RISK
11.001	S5038	FLOOD RISK
11.002	S5039	FLOOD RISK
12.000	S5040	FLOOD
7.010	S5041	FLOOD RISK
7.011	S5042	FLOOD RISK
7.012	S5047	FLOOD RISK
7.013	S5048 - Headwall	FLOOD
1.018	S5049 - Headwall	FLOOD RISK
1.019	S5050 Control Chamber	OK

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Summary Wizard of 60 minute 100 year Winter I+40% for Surface Network 5

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.410
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.800	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 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)
1.000	S8142	6	96.999	-0.116	0.000	0.19		35.1
2.000	S8133	8	97.879	-0.181	0.000	0.33		58.4
1.001	S8134	6	96.974	0.424	0.000	0.64		117.0
1.002	S8141	6	96.947	0.502	0.000	0.46		139.5
1.003	S8139	6	96.911	0.656	0.000	0.36		139.5
1.004	S8140	6	96.867	1.022	0.000	0.46		163.9
1.005	S4008	6	96.830	1.204	0.000	1.13		183.9
1.006	S4011	6	96.789	1.200	0.000	0.45		194.8
1.007	S4012	6	96.688	1.603	0.000	0.69		218.9
3.000	S8157	6	96.656	0.276	0.000	0.05		12.8
3.001	S8159	6	96.648	1.028	0.000	0.19		48.2
3.002	S8154	6	96.628	1.288	0.000	0.45		69.7
3.003	S8155	6	96.597	1.292	0.000	0.20		105.7
1.008	S5015	6	96.573	1.728	0.000	1.20		340.1
1.009	S5016	6	96.369	1.664	0.000	0.95		348.2
1.010	S5017 - PH4 Connection	6	96.161	1.686	0.000	1.88		387.0
4.000	S5018	6	95.924	0.520	0.000	0.10		19.9
1.011	S5019	6	95.906	1.501	0.000	2.58		409.6
1.012	S5020 PH5 Connection	6	95.619	1.254	0.000	3.16		421.0
1.013	S5021	6	95.315	0.985	0.000	0.73		441.4

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Summary Wizard of 60 minute 100 year Winter I+40% for Surface Network 5

PN	US/MH Name	Status
1.000	S8142	OK
2.000	S8133	OK
1.001	S8134	SURCHARGED
1.002	S8141	SURCHARGED
1.003	S8139	SURCHARGED
1.004	S8140	SURCHARGED
1.005	S4008	SURCHARGED
1.006	S4011	SURCHARGED
1.007	S4012	SURCHARGED
3.000	S8157	SURCHARGED
3.001	S8159	SURCHARGED
3.002	S8154	SURCHARGED
3.003	S8155	SURCHARGED
1.008	S5015	SURCHARGED
1.009	S5016	SURCHARGED
1.010	S5017 - PH4 Connection	SURCHARGED
4.000	S5018	SURCHARGED
1.011	S5019	SURCHARGED
1.012	S5020 PH5 Connection	SURCHARGED
1.013	S5021	FLOOD RISK

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Summary Wizard of 60 minute 100 year Winter I+40% for Surface Network 5

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)
5.000	S5023	6	95.225	0.705	0.000	0.24		62.2
5.001	S5025	6	95.195	1.035	0.000	0.43		95.2
6.000	S5026	6	95.225	0.633	0.000	0.19		20.3
6.001	S5027	6	95.197	1.062	0.000	0.48		62.7
5.002	S5028	6	95.162	1.146	0.000	1.00		170.6
1.014	S5029	6	95.120	1.150	0.000	2.33		613.7
1.015	S5030	6	94.892	0.965	0.000	3.43		620.4
1.016	S8121	6	94.658	0.756	0.000	3.46		643.3
1.017	S5036 - Headwall	6	94.405	0.080	0.000	0.69		667.7
7.000	S8135	6	96.780	0.161	0.000	0.51		71.4
7.001	S8136	6	96.751	0.208	0.000	0.69		95.6
7.002	S8137	6	96.715	0.241	0.000	0.88		119.1
7.003	S8161	6	96.672	0.258	0.000	0.90		125.6
8.000	S8151	6	96.682	-0.145	0.000	0.39		59.0
7.004	S8162	6	96.622	0.283	0.000	1.31		181.0
7.005	S8152	6	96.523	0.253	0.000	1.94		223.6
9.000	S8144	6	96.423	-0.127	0.000	0.22		18.3
9.001	S8145	6	96.405	0.030	0.000	0.27		39.1
7.006	S8146	6	96.389	0.160	0.000	0.78		258.6
10.000	S8164	6	96.202	0.176	0.000	0.11		16.6
7.007	S8147	6	96.194	0.314	0.000	0.76		276.8
7.008	S8150	6	95.959	0.494	0.000	0.98		280.8
7.009	S8149	6	95.768	0.503	0.000	1.04		345.5
11.000	S5037	6	95.634	0.255	0.000	0.40		14.7
11.001	S5038	6	95.606	0.373	0.000	0.41		25.4
11.002	S5039	6	95.584	0.428	0.000	0.43		26.7
12.000	S5040	6	95.815	0.432	0.000	0.99		37.9
7.010	S5041	6	95.561	0.483	0.000	1.14		413.1
7.011	S5042	6	95.265	0.410	0.000	0.73		426.1
7.012	S5047	6	94.824	0.804	0.000	1.05		435.7
7.013	S5048 - Headwall	6	94.508	0.558	0.000	1.43		435.2
1.018	S5049 - Headwall	6	94.356	0.406	0.000	2.19		1100.3
1.019	S5050 Control Chamber	19	93.788	-0.112	0.000	0.02		12.3

PN	US/MH Name	Status
5.000	S5023	SURCHARGED
5.001	S5025	FLOOD RISK
6.000	S5026	SURCHARGED
6.001	S5027	SURCHARGED
5.002	S5028	FLOOD RISK
1.014	S5029	SURCHARGED
1.015	S5030	SURCHARGED
1.016	S8121	SURCHARGED
1.017	S5036 - Headwall	FLOOD RISK

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Summary Wizard of 60 minute 100 year Winter I+40% for Surface Network 5

PN	US/MH Name	Status
7.000	S8135	SURCHARGED
7.001	S8136	SURCHARGED
7.002	S8137	SURCHARGED
7.003	S8161	SURCHARGED
8.000	S8151	OK
7.004	S8162	SURCHARGED
7.005	S8152	SURCHARGED
9.000	S8144	OK
9.001	S8145	SURCHARGED
7.006	S8146	SURCHARGED
10.000	S8164	SURCHARGED
7.007	S8147	SURCHARGED
7.008	S8150	SURCHARGED
7.009	S8149	SURCHARGED
11.000	S5037	SURCHARGED
11.001	S5038	SURCHARGED
11.002	S5039	SURCHARGED
12.000	S5040	SURCHARGED
7.010	S5041	SURCHARGED
7.011	S5042	SURCHARGED
7.012	S5047	SURCHARGED
7.013	S5048 - Headwall	FLOOD RISK
1.018	S5049 - Headwall	SURCHARGED
1.019	S5050 Control Chamber	OK

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Summary Wizard of 120 minute 100 year Winter I+40% for Surface Network 5

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.410
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.800	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 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)
1.000	S8142	13	96.824	-0.291	0.000	0.12		21.7
2.000	S8133	13	97.852	-0.208	0.000	0.20		36.1
1.001	S8134	13	96.297	-0.253	0.000	0.40		72.7
1.002	S8141	13	96.114	-0.331	0.000	0.30		90.4
1.003	S8139	13	95.909	-0.346	0.000	0.25		97.5
1.004	S8140	13	95.537	-0.308	0.000	0.35		124.8
1.005	S4008	13	95.490	-0.136	0.000	0.90		146.1
1.006	S4011	12	95.374	-0.215	0.000	0.36		157.3
1.007	S4012	12	95.317	0.232	0.000	0.53		167.9
3.000	S8157	13	96.048	-0.332	0.000	0.03		8.2
3.001	S8159	11	95.319	-0.301	0.000	0.14		35.0
3.002	S8154	10	95.292	-0.048	0.000	0.34		51.9
3.003	S8155	11	95.269	-0.036	0.000	0.14		75.4
1.008	S5015	11	95.253	0.408	0.000	0.90		255.8
1.009	S5016	10	95.142	0.437	0.000	0.71		261.9
1.010	S5017 - PH4 Connection	9	95.030	0.555	0.000	1.40		288.4
4.000	S5018	13	95.153	-0.251	0.000	0.06		13.1
1.011	S5019	9	94.890	0.485	0.000	1.92		304.7
1.012	S5020 PH5 Connection	9	94.732	0.367	0.000	2.35		313.6
1.013	S5021	9	94.563	0.233	0.000	0.55		327.8

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Summary Wizard of 120 minute 100 year Winter I+40% for Surface Network 5

PN	US/MH Name	Status
1.000	S8142	OK
2.000	S8133	OK
1.001	S8134	OK
1.002	S8141	OK
1.003	S8139	OK
1.004	S8140	OK
1.005	S4008	OK
1.006	S4011	OK
1.007	S4012	SURCHARGED
3.000	S8157	OK
3.001	S8159	OK
3.002	S8154	OK
3.003	S8155	OK
1.008	S5015	SURCHARGED
1.009	S5016	SURCHARGED
1.010	S5017 - PH4 Connection	SURCHARGED
4.000	S5018	OK
1.011	S5019	SURCHARGED
1.012	S5020 PH5 Connection	SURCHARGED
1.013	S5021	SURCHARGED

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Summary Wizard of 120 minute 100 year Winter I+40% for Surface Network 5

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)
5.000	S5023	8	94.554	0.034	0.000	0.15		39.5
5.001	S5025	8	94.535	0.375	0.000	0.27		60.2
6.000	S5026	8	94.555	-0.037	0.000	0.13		13.5
6.001	S5027	8	94.536	0.401	0.000	0.30		39.7
5.002	S5028	8	94.514	0.497	0.000	0.63		108.2
1.014	S5029	8	94.486	0.515	0.000	1.69		445.5
1.015	S5030	8	94.380	0.453	0.000	2.48		449.5
1.016	S8121	8	94.299	0.398	0.000	2.51		466.0
1.017	S5036 - Headwall	8	94.176	-0.149	0.000	0.50		488.5
7.000	S8135	12	96.444	-0.175	0.000	0.32		44.7
7.001	S8136	12	96.423	-0.119	0.000	0.43		59.4
7.002	S8137	12	96.398	-0.076	0.000	0.54		73.9
7.003	S8161	12	96.368	-0.046	0.000	0.56		78.3
8.000	S8151	13	96.626	-0.200	0.000	0.24		36.3
7.004	S8162	12	96.333	-0.007	0.000	0.82		113.6
7.005	S8152	13	96.270	0.000	0.000	1.22		140.8
9.000	S8144	13	96.324	-0.226	0.000	0.14		11.3
9.001	S8145	13	96.101	-0.274	0.000	0.16		24.1
7.006	S8146	12	96.013	-0.216	0.000	0.52		174.4
10.000	S8164	13	95.717	-0.309	0.000	0.07		10.8
7.007	S8147	12	95.666	-0.214	0.000	0.53		192.4
7.008	S8150	12	95.265	-0.200	0.000	0.69		196.8
7.009	S8149	12	95.082	-0.183	0.000	0.74		244.6
11.000	S5037	13	95.230	-0.149	0.000	0.25		9.1
11.001	S5038	13	95.041	-0.193	0.000	0.28		17.2
11.002	S5039	13	94.971	-0.184	0.000	0.29		18.1
12.000	S5040	13	95.289	-0.093	0.000	0.64		24.8
7.010	S5041	12	94.919	-0.159	0.000	0.81		294.1
7.011	S5042	12	94.601	-0.254	0.000	0.52		304.7
7.012	S5047	10	94.360	0.340	0.000	0.75		312.2
7.013	S5048 - Headwall	10	94.201	0.251	0.000	1.03		312.3
1.018	S5049 - Headwall	11	94.125	0.175	0.000	1.58		794.5
1.019	S5050 Control Chamber	16	93.894	-0.006	0.000	0.02		12.3

PN	US/MH Name	Status
5.000	S5023	SURCHARGED
5.001	S5025	SURCHARGED
6.000	S5026	OK
6.001	S5027	SURCHARGED
5.002	S5028	SURCHARGED
1.014	S5029	SURCHARGED
1.015	S5030	SURCHARGED
1.016	S8121	SURCHARGED
1.017	S5036 - Headwall	OK

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Summary Wizard of 120 minute 100 year Winter I+40% for Surface Network 5

PN	US/MH Name	Status
7.000	S8135	OK
7.001	S8136	OK
7.002	S8137	OK
7.003	S8161	OK
8.000	S8151	OK
7.004	S8162	OK
7.005	S8152	OK
9.000	S8144	OK
9.001	S8145	OK
7.006	S8146	OK
10.000	S8164	OK
7.007	S8147	OK
7.008	S8150	OK
7.009	S8149	OK
11.000	S5037	OK
11.001	S5038	OK
11.002	S5039	OK
12.000	S5040	OK
7.010	S5041	OK
7.011	S5042	OK
7.012	S5047	SURCHARGED
7.013	S5048 - Headwall	SURCHARGED
1.018	S5049 - Headwall	SURCHARGED
1.019	S5050 Control Chamber	OK

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Summary Wizard of 180 minute 100 year Winter I+40% for Surface Network 5

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.410
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.800	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 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)
1.000	S8142	17	96.814	-0.301	0.000	0.09		16.1
2.000	S8133	17	97.838	-0.222	0.000	0.15		26.8
1.001	S8134	17	96.267	-0.283	0.000	0.30		54.0
1.002	S8141	17	96.086	-0.359	0.000	0.22		67.2
1.003	S8139	17	95.884	-0.371	0.000	0.19		72.4
1.004	S8140	17	95.501	-0.344	0.000	0.26		92.7
1.005	S4008	17	95.416	-0.210	0.000	0.67		108.4
1.006	S4011	17	95.249	-0.340	0.000	0.27		117.8
1.007	S4012	17	94.811	-0.274	0.000	0.42		132.7
3.000	S8157	17	96.044	-0.336	0.000	0.02		6.1
3.001	S8159	17	95.266	-0.354	0.000	0.10		26.1
3.002	S8154	17	95.045	-0.295	0.000	0.26		39.9
3.003	S8155	17	94.898	-0.407	0.000	0.12		60.1
1.008	S5015	17	94.719	-0.126	0.000	0.72		205.4
1.009	S5016	17	94.645	-0.060	0.000	0.57		210.1
1.010	S5017 - PH4 Connection	17	94.580	0.105	0.000	1.13		232.8
4.000	S5018	17	95.146	-0.258	0.000	0.05		9.7
1.011	S5019	17	94.490	0.085	0.000	1.55		246.0
1.012	S5020 PH5 Connection	17	94.413	0.048	0.000	1.90		253.1
1.013	S5021	17	94.254	-0.076	0.000	0.44		264.1

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Summary Wizard of 180 minute 100 year Winter I+40% for Surface Network 5

PN	US/MH Name	Status
1.000	S8142	OK
2.000	S8133	OK
1.001	S8134	OK
1.002	S8141	OK
1.003	S8139	OK
1.004	S8140	OK
1.005	S4008	OK
1.006	S4011	OK
1.007	S4012	OK
3.000	S8157	OK
3.001	S8159	OK
3.002	S8154	OK
3.003	S8155	OK
1.008	S5015	OK
1.009	S5016	OK
1.010	S5017 - PH4 Connection	SURCHARGED
4.000	S5018	OK
1.011	S5019	SURCHARGED
1.012	S5020 PH5 Connection	SURCHARGED
1.013	S5021	OK

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Summary Wizard of 180 minute 100 year Winter I+40% for Surface Network 5

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)
5.000	S5023	17	94.254	-0.266	0.000	0.12		29.6
5.001	S5025	17	94.240	0.080	0.000	0.20		44.3
6.000	S5026	17	94.354	-0.237	0.000	0.10		10.5
6.001	S5027	17	94.242	0.107	0.000	0.23		30.2
5.002	S5028	17	94.225	0.209	0.000	0.48		81.5
1.014	S5029	17	94.205	0.235	0.000	1.34		353.6
1.015	S5030	18	94.141	0.214	0.000	1.97		356.8
1.016	S8121	21	94.092	0.190	0.000	1.99		369.7
1.017	S5036 - Headwall	23	94.039	-0.286	0.000	0.40		388.2
7.000	S8135	17	96.356	-0.263	0.000	0.24		33.3
7.001	S8136	17	96.315	-0.227	0.000	0.32		44.5
7.002	S8137	17	96.277	-0.197	0.000	0.41		55.6
7.003	S8161	17	96.242	-0.172	0.000	0.42		59.4
8.000	S8151	17	96.612	-0.215	0.000	0.18		27.0
7.004	S8162	17	96.207	-0.132	0.000	0.62		86.0
7.005	S8152	17	96.159	-0.111	0.000	0.92		106.2
9.000	S8144	17	96.314	-0.236	0.000	0.10		8.4
9.001	S8145	17	96.087	-0.288	0.000	0.12		17.9
7.006	S8146	17	95.975	-0.254	0.000	0.39		131.3
10.000	S8164	17	95.706	-0.319	0.000	0.05		8.1
7.007	S8147	17	95.627	-0.253	0.000	0.40		145.1
7.008	S8150	17	95.209	-0.256	0.000	0.52		148.9
7.009	S8149	17	95.021	-0.244	0.000	0.56		185.3
11.000	S5037	17	95.220	-0.160	0.000	0.18		6.8
11.001	S5038	17	95.026	-0.208	0.000	0.21		12.8
11.002	S5039	17	94.950	-0.205	0.000	0.22		13.5
12.000	S5040	17	95.268	-0.115	0.000	0.48		18.4
7.010	S5041	17	94.851	-0.227	0.000	0.62		222.8
7.011	S5042	17	94.558	-0.297	0.000	0.39		230.4
7.012	S5047	19	94.111	0.091	0.000	0.56		235.1
7.013	S5048 - Headwall	22	94.047	0.097	0.000	0.77		234.4
1.018	S5049 - Headwall	26	94.002	0.052	0.000	1.20		606.4
1.019	S5050 Control Chamber	13	93.953	0.053	0.000	0.02		12.3

PN	US/MH Name	Status
5.000	S5023	OK
5.001	S5025	SURCHARGED
6.000	S5026	OK
6.001	S5027	SURCHARGED
5.002	S5028	SURCHARGED
1.014	S5029	SURCHARGED
1.015	S5030	SURCHARGED
1.016	S8121	SURCHARGED
1.017	S5036 - Headwall	OK

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Summary Wizard of 180 minute 100 year Winter I+40% for Surface Network 5

PN	US/MH Name	Status
7.000	S8135	OK
7.001	S8136	OK
7.002	S8137	OK
7.003	S8161	OK
8.000	S8151	OK
7.004	S8162	OK
7.005	S8152	OK
9.000	S8144	OK
9.001	S8145	OK
7.006	S8146	OK
10.000	S8164	OK
7.007	S8147	OK
7.008	S8150	OK
7.009	S8149	OK
11.000	S5037	OK
11.001	S5038	OK
11.002	S5039	OK
12.000	S5040	OK
7.010	S5041	OK
7.011	S5042	OK
7.012	S5047	SURCHARGED
7.013	S5048 - Headwall	SURCHARGED
1.018	S5049 - Headwall	SURCHARGED
1.019	S5050 Control Chamber	SURCHARGED

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Summary Wizard of 240 minute 100 year Winter I+40% for Surface Network 5

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.410
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.800	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 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)
1.000	S8142	22	96.804	-0.311	0.000	0.07		12.9
2.000	S8133	22	97.829	-0.231	0.000	0.12		21.4
1.001	S8134	22	96.248	-0.302	0.000	0.24		43.2
1.002	S8141	21	96.067	-0.378	0.000	0.18		53.7
1.003	S8139	21	95.865	-0.390	0.000	0.15		58.0
1.004	S8140	21	95.481	-0.364	0.000	0.21		74.3
1.005	S4008	20	95.375	-0.251	0.000	0.54		87.0
1.006	S4011	20	95.229	-0.360	0.000	0.22		94.4
1.007	S4012	20	94.770	-0.315	0.000	0.34		106.7
3.000	S8157	22	96.038	-0.342	0.000	0.02		4.9
3.001	S8159	21	95.256	-0.364	0.000	0.08		20.8
3.002	S8154	20	95.028	-0.312	0.000	0.21		31.9
3.003	S8155	20	94.887	-0.418	0.000	0.09		48.1
1.008	S5015	19	94.613	-0.232	0.000	0.59		166.8
1.009	S5016	19	94.522	-0.183	0.000	0.46		170.8
1.010	S5017 - PH4 Connection	19	94.476	0.001	0.000	0.92		189.5
4.000	S5018	22	95.142	-0.262	0.000	0.04		7.8
1.011	S5019	19	94.416	0.011	0.000	1.26		200.2
1.012	S5020 PH5 Connection	20	94.365	0.000	0.000	1.54		205.9
1.013	S5021	25	94.039	-0.291	0.000	0.36		215.5

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Summary Wizard of 240 minute 100 year Winter I+40% for Surface Network 5

PN	US/MH Name	Status
1.000	S8142	OK
2.000	S8133	OK
1.001	S8134	OK
1.002	S8141	OK
1.003	S8139	OK
1.004	S8140	OK
1.005	S4008	OK
1.006	S4011	OK
1.007	S4012	OK
3.000	S8157	OK
3.001	S8159	OK
3.002	S8154	OK
3.003	S8155	OK
1.008	S5015	OK
1.009	S5016	OK
1.010	S5017 - PH4 Connection	SURCHARGED
4.000	S5018	OK
1.011	S5019	SURCHARGED
1.012	S5020 PH5 Connection	OK
1.013	S5021	OK

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Summary Wizard of 240 minute 100 year Winter I+40% for Surface Network 5

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)
5.000	S5023	22	94.162	-0.358	0.000	0.09		23.9
5.001	S5025	27	94.030	-0.130	0.000	0.16		36.6
6.000	S5026	22	94.347	-0.245	0.000	0.08		8.4
6.001	S5027	27	94.031	-0.104	0.000	0.19		24.9
5.002	S5028	28	94.017	0.001	0.000	0.39		67.0
1.014	S5029	28	94.010	0.040	0.000	1.10		290.8
1.015	S5030	27	94.004	0.077	0.000	1.62		293.5
1.016	S8121	28	93.999	0.098	0.000	1.64		304.1
1.017	S5036 - Headwall	28	93.995	-0.330	0.000	0.33		319.9
7.000	S8135	21	96.327	-0.291	0.000	0.19		26.6
7.001	S8136	19	96.281	-0.262	0.000	0.26		35.7
7.002	S8137	19	96.238	-0.236	0.000	0.33		44.6
7.003	S8161	19	96.198	-0.216	0.000	0.34		47.6
8.000	S8151	22	96.602	-0.225	0.000	0.14		21.6
7.004	S8162	19	96.160	-0.180	0.000	0.50		68.9
7.005	S8152	19	96.110	-0.160	0.000	0.74		85.1
9.000	S8144	22	96.307	-0.243	0.000	0.08		6.7
9.001	S8145	21	96.078	-0.297	0.000	0.10		14.3
7.006	S8146	19	95.953	-0.276	0.000	0.32		105.4
10.000	S8164	22	95.700	-0.325	0.000	0.04		6.4
7.007	S8147	19	95.605	-0.275	0.000	0.32		116.5
7.008	S8150	19	95.176	-0.289	0.000	0.42		119.3
7.009	S8149	19	94.987	-0.278	0.000	0.45		148.7
11.000	S5037	22	95.212	-0.168	0.000	0.15		5.4
11.001	S5038	21	95.015	-0.219	0.000	0.17		10.2
11.002	S5039	21	94.940	-0.216	0.000	0.17		10.8
12.000	S5040	22	95.254	-0.129	0.000	0.38		14.7
7.010	S5041	19	94.814	-0.264	0.000	0.49		178.9
7.011	S5042	19	94.532	-0.323	0.000	0.32		184.9
7.012	S5047	28	94.000	-0.020	0.000	0.45		188.9
7.013	S5048 - Headwall	28	93.995	0.045	0.000	0.62		189.1
1.018	S5049 - Headwall	28	93.992	0.042	0.000	1.00		503.3
1.019	S5050 Control Chamber	11	93.991	0.091	0.000	0.02		12.3

PN	US/MH Name	Status
5.000	S5023	OK
5.001	S5025	OK
6.000	S5026	OK
6.001	S5027	OK
5.002	S5028	SURCHARGED
1.014	S5029	SURCHARGED
1.015	S5030	SURCHARGED
1.016	S8121	SURCHARGED
1.017	S5036 - Headwall	OK

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Summary Wizard of 240 minute 100 year Winter I+40% for Surface Network 5

PN	US/MH Name	Status
7.000	S8135	OK
7.001	S8136	OK
7.002	S8137	OK
7.003	S8161	OK
8.000	S8151	OK
7.004	S8162	OK
7.005	S8152	OK
9.000	S8144	OK
9.001	S8145	OK
7.006	S8146	OK
10.000	S8164	OK
7.007	S8147	OK
7.008	S8150	OK
7.009	S8149	OK
11.000	S5037	OK
11.001	S5038	OK
11.002	S5039	OK
12.000	S5040	OK
7.010	S5041	OK
7.011	S5042	OK
7.012	S5047	OK
7.013	S5048 - Headwall	SURCHARGED
1.018	S5049 - Headwall	SURCHARGED
1.019	S5050 Control Chamber	SURCHARGED

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Summary Wizard of 360 minute 100 year Winter I+40% for Surface Network 5

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.410
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.800	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 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	S8142	30		96.793	-0.322	0.000	0.05		9.3	OK
2.000	S8133	30		97.820	-0.240	0.000	0.09		15.5	OK
1.001	S8134	30		96.224	-0.326	0.000	0.17		31.3	OK
1.002	S8141	30		96.044	-0.401	0.000	0.13		39.0	OK
1.003	S8139	30		95.845	-0.410	0.000	0.11		42.1	OK
1.004	S8140	29		95.455	-0.390	0.000	0.15		53.9	OK
1.005	S4008	29		95.327	-0.299	0.000	0.39		63.1	OK
1.006	S4011	29		95.202	-0.387	0.000	0.16		68.5	OK
1.007	S4012	29		94.735	-0.350	0.000	0.24		77.5	OK
3.000	S8157	30		96.029	-0.351	0.000	0.01		3.5	OK
3.001	S8159	29		95.241	-0.379	0.000	0.06		15.1	OK
3.002	S8154	29		95.005	-0.335	0.000	0.15		23.1	OK
3.003	S8155	29		94.868	-0.437	0.000	0.07		34.9	OK
1.008	S5015	28		94.564	-0.281	0.000	0.43		121.2	OK
1.009	S5016	28		94.478	-0.227	0.000	0.34		124.1	OK
1.010	S5017 - PH4 Connection	28		94.444	-0.031	0.000	0.67		137.8	OK
4.000	S5018	30		95.137	-0.267	0.000	0.03		5.6	OK
1.011	S5019	25		94.405	0.000	0.000	0.92		145.6	OK
1.012	S5020 PH5 Connection	22		94.365	0.000	0.000	1.12		149.9	OK
1.013	S5021	24		94.058	-0.272	0.000	0.26		157.1	OK

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Summary Wizard of 360 minute 100 year Winter I+40% for Surface Network 5

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)
5.000	S5023	31	94.146	-0.374	0.000	0.07		17.3
5.001	S5025	23	94.057	-0.103	0.000	0.12		26.9
6.000	S5026	30	94.338	-0.254	0.000	0.06		6.1
6.001	S5027	23	94.057	-0.078	0.000	0.14		18.1
5.002	S5028	23	94.055	0.039	0.000	0.29		49.2
1.014	S5029	23	94.054	0.084	0.000	0.81		212.7
1.015	S5030	23	94.050	0.123	0.000	1.19		214.4
1.016	S8121	23	94.046	0.145	0.000	1.19		222.1
1.017	S5036 - Headwall	22	94.043	-0.282	0.000	0.24		232.9
7.000	S8135	29	96.298	-0.320	0.000	0.14		19.3
7.001	S8136	29	96.245	-0.298	0.000	0.19		25.9
7.002	S8137	29	96.196	-0.278	0.000	0.24		32.5
7.003	S8161	29	96.151	-0.263	0.000	0.25		34.7
8.000	S8151	30	96.591	-0.236	0.000	0.10		15.6
7.004	S8162	29	96.108	-0.232	0.000	0.36		50.3
7.005	S8152	29	96.056	-0.214	0.000	0.54		62.2
9.000	S8144	30	96.297	-0.253	0.000	0.06		4.9
9.001	S8145	30	96.065	-0.310	0.000	0.07		10.4
7.006	S8146	29	95.925	-0.304	0.000	0.23		76.9
10.000	S8164	30	95.693	-0.332	0.000	0.03		4.7
7.007	S8147	29	95.577	-0.303	0.000	0.23		85.0
7.008	S8150	29	95.138	-0.327	0.000	0.30		87.2
7.009	S8149	28	94.946	-0.319	0.000	0.33		108.7
11.000	S5037	30	95.203	-0.176	0.000	0.11		3.9
11.001	S5038	30	95.002	-0.231	0.000	0.12		7.4
11.002	S5039	30	94.926	-0.229	0.000	0.13		7.8
12.000	S5040	30	95.238	-0.145	0.000	0.28		10.7
7.010	S5041	28	94.770	-0.308	0.000	0.36		130.6
7.011	S5042	28	94.500	-0.355	0.000	0.23		135.0
7.012	S5047	23	94.046	0.026	0.000	0.33		138.0
7.013	S5048 - Headwall	23	94.042	0.092	0.000	0.45		137.5
1.018	S5049 - Headwall	19	94.041	0.091	0.000	0.72		364.1
1.019	S5050 Control Chamber	6	94.039	0.139	0.000	0.02		12.3

PN	US/MH Name	Status
5.000	S5023	OK
5.001	S5025	OK
6.000	S5026	OK
6.001	S5027	OK
5.002	S5028	SURCHARGED
1.014	S5029	SURCHARGED
1.015	S5030	SURCHARGED
1.016	S8121	SURCHARGED
1.017	S5036 - Headwall	OK

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Summary Wizard of 360 minute 100 year Winter I+40% for Surface Network 5

PN	US/MH Name	Status
7.000	S8135	OK
7.001	S8136	OK
7.002	S8137	OK
7.003	S8161	OK
8.000	S8151	OK
7.004	S8162	OK
7.005	S8152	OK
9.000	S8144	OK
9.001	S8145	OK
7.006	S8146	OK
10.000	S8164	OK
7.007	S8147	OK
7.008	S8150	OK
7.009	S8149	OK
11.000	S5037	OK
11.001	S5038	OK
11.002	S5039	OK
12.000	S5040	OK
7.010	S5041	OK
7.011	S5042	OK
7.012	S5047	SURCHARGED
7.013	S5048 - Headwall	SURCHARGED
1.018	S5049 - Headwall	SURCHARGED
1.019	S5050 Control Chamber	SURCHARGED

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Summary Wizard of 480 minute 100 year Winter I+40% for Surface Network 5

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.410
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.800	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 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	S8142	34	96.788	-0.327	0.000	0.04		7.4	OK
2.000	S8133	34	97.812	-0.248	0.000	0.07		12.4	OK
1.001	S8134	34	96.210	-0.340	0.000	0.14		24.9	OK
1.002	S8141	34	96.031	-0.414	0.000	0.10		31.0	OK
1.003	S8139	34	95.834	-0.421	0.000	0.09		33.5	OK
1.004	S8140	34	95.440	-0.405	0.000	0.12		42.9	OK
1.005	S4008	34	95.300	-0.326	0.000	0.31		50.2	OK
1.006	S4011	34	95.187	-0.402	0.000	0.13		54.5	OK
1.007	S4012	34	94.716	-0.369	0.000	0.19		61.7	OK
3.000	S8157	34	96.024	-0.356	0.000	0.01		2.8	OK
3.001	S8159	34	95.233	-0.387	0.000	0.05		12.0	OK
3.002	S8154	34	94.993	-0.347	0.000	0.12		18.4	OK
3.003	S8155	34	94.858	-0.447	0.000	0.05		27.7	OK
1.008	S5015	34	94.531	-0.314	0.000	0.34		96.4	OK
1.009	S5016	34	94.369	-0.336	0.000	0.27		98.8	OK
1.010	S5017 - PH4 Connection	34	94.303	-0.172	0.000	0.53		109.6	OK
4.000	S5018	34	95.134	-0.270	0.000	0.02		4.5	OK
1.011	S5019	34	94.265	-0.140	0.000	0.73		115.8	OK
1.012	S5020 PH5 Connection	34	94.227	-0.138	0.000	0.89		119.1	OK
1.013	S5021	22	94.087	-0.243	0.000	0.21		124.9	OK

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Summary Wizard of 480 minute 100 year Winter I+40% for Surface Network 5

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)
5.000	S5023	35	94.137	-0.383	0.000	0.05		13.8
5.001	S5025	22	94.086	-0.074	0.000	0.10		21.2
6.000	S5026	34	94.332	-0.259	0.000	0.04		4.8
6.001	S5027	22	94.086	-0.049	0.000	0.11		14.4
5.002	S5028	22	94.085	0.069	0.000	0.22		38.3
1.014	S5029	22	94.084	0.114	0.000	0.63		167.2
1.015	S5030	22	94.080	0.153	0.000	0.93		167.9
1.016	S8121	22	94.078	0.176	0.000	0.93		173.6
1.017	S5036 - Headwall	19	94.075	-0.250	0.000	0.19		181.9
7.000	S8135	34	96.281	-0.337	0.000	0.11		15.4
7.001	S8136	34	96.226	-0.317	0.000	0.15		20.7
7.002	S8137	34	96.173	-0.301	0.000	0.19		25.9
7.003	S8161	34	96.126	-0.288	0.000	0.20		27.6
8.000	S8151	34	96.584	-0.242	0.000	0.08		12.4
7.004	S8162	34	96.079	-0.260	0.000	0.29		40.0
7.005	S8152	34	96.026	-0.244	0.000	0.43		49.5
9.000	S8144	34	96.292	-0.258	0.000	0.05		3.9
9.001	S8145	34	96.057	-0.318	0.000	0.06		8.3
7.006	S8146	34	95.909	-0.320	0.000	0.18		61.2
10.000	S8164	34	95.690	-0.335	0.000	0.02		3.7
7.007	S8147	34	95.561	-0.319	0.000	0.19		67.7
7.008	S8150	34	95.115	-0.350	0.000	0.24		69.5
7.009	S8149	34	94.921	-0.344	0.000	0.26		86.6
11.000	S5037	34	95.198	-0.181	0.000	0.08		3.1
11.001	S5038	34	94.995	-0.238	0.000	0.10		5.9
11.002	S5039	34	94.919	-0.237	0.000	0.10		6.2
12.000	S5040	34	95.229	-0.154	0.000	0.22		8.5
7.010	S5041	34	94.744	-0.334	0.000	0.29		104.0
7.011	S5042	34	94.481	-0.374	0.000	0.18		107.6
7.012	S5047	22	94.077	0.057	0.000	0.26		109.8
7.013	S5048 - Headwall	19	94.075	0.125	0.000	0.36		109.2
1.018	S5049 - Headwall	18	94.073	0.123	0.000	0.56		280.1
1.019	S5050 Control Chamber	5	94.072	0.172	0.000	0.02		12.3

PN	US/MH Name	Status
5.000	S5023	OK
5.001	S5025	OK
6.000	S5026	OK
6.001	S5027	OK
5.002	S5028	SURCHARGED
1.014	S5029	SURCHARGED
1.015	S5030	SURCHARGED
1.016	S8121	SURCHARGED
1.017	S5036 - Headwall	OK

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Summary Wizard of 480 minute 100 year Winter I+40% for Surface Network 5

PN	US/MH Name	Status
7.000	S8135	OK
7.001	S8136	OK
7.002	S8137	OK
7.003	S8161	OK
8.000	S8151	OK
7.004	S8162	OK
7.005	S8152	OK
9.000	S8144	OK
9.001	S8145	OK
7.006	S8146	OK
10.000	S8164	OK
7.007	S8147	OK
7.008	S8150	OK
7.009	S8149	OK
11.000	S5037	OK
11.001	S5038	OK
11.002	S5039	OK
12.000	S5040	OK
7.010	S5041	OK
7.011	S5042	OK
7.012	S5047	SURCHARGED
7.013	S5048 - Headwall	SURCHARGED
1.018	S5049 - Headwall	SURCHARGED
1.019	S5050 Control Chamber	SURCHARGED

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Summary Wizard of 600 minute 100 year Winter I+40% for Surface Network 5

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.410
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.800	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 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	S8142	39	96.784	-0.331	0.000	0.03		6.2	OK
2.000	S8133	39	97.807	-0.253	0.000	0.06		10.3	OK
1.001	S8134	39	96.201	-0.349	0.000	0.11		20.8	OK
1.002	S8141	39	96.022	-0.423	0.000	0.08		26.0	OK
1.003	S8139	39	95.823	-0.432	0.000	0.07		28.0	OK
1.004	S8140	39	95.431	-0.414	0.000	0.10		35.9	OK
1.005	S4008	39	95.281	-0.345	0.000	0.26		42.0	OK
1.006	S4011	39	95.177	-0.412	0.000	0.10		45.7	OK
1.007	S4012	39	94.701	-0.384	0.000	0.16		51.6	OK
3.000	S8157	39	96.021	-0.359	0.000	0.01		2.4	OK
3.001	S8159	39	95.227	-0.393	0.000	0.04		10.1	OK
3.002	S8154	39	94.985	-0.355	0.000	0.10		15.4	OK
3.003	S8155	39	94.851	-0.454	0.000	0.04		23.2	OK
1.008	S5015	39	94.510	-0.335	0.000	0.28		80.7	OK
1.009	S5016	39	94.348	-0.357	0.000	0.22		82.7	OK
1.010	S5017 - PH4 Connection	38	94.258	-0.217	0.000	0.45		91.8	OK
4.000	S5018	39	95.130	-0.274	0.000	0.02		3.8	OK
1.011	S5019	38	94.218	-0.187	0.000	0.61		97.0	OK
1.012	S5020 PH5 Connection	38	94.180	-0.185	0.000	0.75		99.9	OK
1.013	S5021	21	94.104	-0.226	0.000	0.17		104.7	OK

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Summary Wizard of 600 minute 100 year Winter I+40% for Surface Network 5

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)
5.000	S5023	41	94.131	-0.389	0.000	0.04		11.5
5.001	S5025	21	94.104	-0.056	0.000	0.08		17.7
6.000	S5026	39	94.329	-0.263	0.000	0.04		4.0
6.001	S5027	21	94.104	-0.031	0.000	0.09		12.1
5.002	S5028	21	94.103	0.087	0.000	0.19		32.0
1.014	S5029	21	94.102	0.132	0.000	0.53		140.4
1.015	S5030	21	94.099	0.172	0.000	0.78		140.9
1.016	S8121	20	94.096	0.195	0.000	0.78		145.7
1.017	S5036 - Headwall	17	94.095	-0.230	0.000	0.16		152.5
7.000	S8135	39	96.270	-0.348	0.000	0.09		12.9
7.001	S8136	39	96.213	-0.330	0.000	0.12		17.3
7.002	S8137	39	96.159	-0.315	0.000	0.16		21.6
7.003	S8161	39	96.109	-0.305	0.000	0.17		23.1
8.000	S8151	39	96.578	-0.248	0.000	0.07		10.4
7.004	S8162	39	96.060	-0.279	0.000	0.24		33.5
7.005	S8152	38	96.006	-0.264	0.000	0.36		41.5
9.000	S8144	39	96.288	-0.262	0.000	0.04		3.2
9.001	S8145	39	96.052	-0.323	0.000	0.05		6.9
7.006	S8146	38	95.896	-0.333	0.000	0.15		51.3
10.000	S8164	39	95.687	-0.338	0.000	0.02		3.1
7.007	S8147	38	95.548	-0.332	0.000	0.16		56.7
7.008	S8150	38	95.100	-0.365	0.000	0.20		58.2
7.009	S8149	38	94.906	-0.359	0.000	0.22		72.5
11.000	S5037	39	95.194	-0.186	0.000	0.07		2.6
11.001	S5038	39	94.990	-0.244	0.000	0.08		4.9
11.002	S5039	39	94.914	-0.242	0.000	0.08		5.2
12.000	S5040	39	95.223	-0.160	0.000	0.19		7.1
7.010	S5041	38	94.727	-0.351	0.000	0.24		87.1
7.011	S5042	38	94.467	-0.388	0.000	0.15		90.1
7.012	S5047	21	94.096	0.076	0.000	0.22		91.9
7.013	S5048 - Headwall	17	94.094	0.144	0.000	0.30		91.4
1.018	S5049 - Headwall	15	94.093	0.143	0.000	0.47		234.6
1.019	S5050 Control Chamber	4	94.092	0.192	0.000	0.02		12.3

PN	US/MH Name	Status
5.000	S5023	OK
5.001	S5025	OK
6.000	S5026	OK
6.001	S5027	OK
5.002	S5028	SURCHARGED
1.014	S5029	SURCHARGED
1.015	S5030	SURCHARGED
1.016	S8121	SURCHARGED
1.017	S5036 - Headwall	OK

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Summary Wizard of 600 minute 100 year Winter I+40% for Surface Network 5

PN	US/MH Name	Status
7.000	S8135	OK
7.001	S8136	OK
7.002	S8137	OK
7.003	S8161	OK
8.000	S8151	OK
7.004	S8162	OK
7.005	S8152	OK
9.000	S8144	OK
9.001	S8145	OK
7.006	S8146	OK
10.000	S8164	OK
7.007	S8147	OK
7.008	S8150	OK
7.009	S8149	OK
11.000	S5037	OK
11.001	S5038	OK
11.002	S5039	OK
12.000	S5040	OK
7.010	S5041	OK
7.011	S5042	OK
7.012	S5047	SURCHARGED
7.013	S5048 - Headwall	SURCHARGED
1.018	S5049 - Headwall	SURCHARGED
1.019	S5050 Control Chamber	SURCHARGED

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Summary Wizard of 720 minute 100 year Winter I+40% for Surface Network 5

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.410
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.800	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 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	S8142	42	96.782	-0.333	0.000	0.03		5.4	OK
2.000	S8133	42	97.803	-0.257	0.000	0.05		8.9	OK
1.001	S8134	42	96.194	-0.356	0.000	0.10		18.0	OK
1.002	S8141	42	96.013	-0.432	0.000	0.07		22.4	OK
1.003	S8139	42	95.815	-0.440	0.000	0.06		24.2	OK
1.004	S8140	42	95.423	-0.422	0.000	0.09		31.0	OK
1.005	S4008	42	95.268	-0.358	0.000	0.22		36.3	OK
1.006	S4011	42	95.170	-0.419	0.000	0.09		39.5	OK
1.007	S4012	42	94.690	-0.395	0.000	0.14		44.6	OK
3.000	S8157	42	96.019	-0.361	0.000	0.01		2.0	OK
3.001	S8159	42	95.224	-0.396	0.000	0.03		8.7	OK
3.002	S8154	42	94.978	-0.362	0.000	0.09		13.3	OK
3.003	S8155	42	94.846	-0.459	0.000	0.04		20.1	OK
1.008	S5015	42	94.496	-0.349	0.000	0.25		69.7	OK
1.009	S5016	42	94.336	-0.369	0.000	0.19		71.5	OK
1.010	S5017 - PH4 Connection	42	94.228	-0.247	0.000	0.38		79.4	OK
4.000	S5018	42	95.127	-0.277	0.000	0.02		3.2	OK
1.011	S5019	42	94.186	-0.219	0.000	0.53		83.9	OK
1.012	S5020 PH5 Connection	43	94.148	-0.217	0.000	0.65		86.3	OK
1.013	S5021	20	94.118	-0.212	0.000	0.15		90.5	OK

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Summary Wizard of 720 minute 100 year Winter I+40% for Surface Network 5

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m^3)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)
5.000	S5023	44	94.127	-0.393	0.000	0.04		10.0
5.001	S5025	20	94.117	-0.043	0.000	0.07		15.4
6.000	S5026	42	94.327	-0.265	0.000	0.03		3.5
6.001	S5027	20	94.117	-0.018	0.000	0.08		10.4
5.002	S5028	20	94.116	0.100	0.000	0.16		27.8
1.014	S5029	20	94.115	0.145	0.000	0.46		121.3
1.015	S5030	20	94.113	0.186	0.000	0.67		121.8
1.016	S8121	18	94.111	0.210	0.000	0.68		125.8
1.017	S5036 - Headwall	16	94.109	-0.216	0.000	0.14		131.8
7.000	S8135	42	96.263	-0.356	0.000	0.08		11.1
7.001	S8136	42	96.203	-0.340	0.000	0.11		14.9
7.002	S8137	42	96.148	-0.326	0.000	0.14		18.7
7.003	S8161	42	96.097	-0.316	0.000	0.14		20.0
8.000	S8151	42	96.574	-0.253	0.000	0.06		9.0
7.004	S8162	42	96.046	-0.293	0.000	0.21		29.0
7.005	S8152	42	95.992	-0.278	0.000	0.31		35.8
9.000	S8144	42	96.286	-0.264	0.000	0.03		2.8
9.001	S8145	42	96.048	-0.327	0.000	0.04		6.0
7.006	S8146	42	95.887	-0.342	0.000	0.13		44.3
10.000	S8164	42	95.682	-0.343	0.000	0.02		2.7
7.007	S8147	42	95.539	-0.341	0.000	0.13		49.0
7.008	S8150	42	95.087	-0.378	0.000	0.18		50.3
7.009	S8149	42	94.894	-0.371	0.000	0.19		62.7
11.000	S5037	42	95.191	-0.189	0.000	0.06		2.3
11.001	S5038	42	94.985	-0.249	0.000	0.07		4.3
11.002	S5039	42	94.909	-0.247	0.000	0.07		4.5
12.000	S5040	42	95.218	-0.165	0.000	0.16		6.2
7.010	S5041	42	94.715	-0.363	0.000	0.21		75.3
7.011	S5042	42	94.456	-0.399	0.000	0.13		77.9
7.012	S5047	20	94.111	0.091	0.000	0.19		79.4
7.013	S5048 - Headwall	16	94.109	0.159	0.000	0.26		79.0
1.018	S5049 - Headwall	13	94.108	0.158	0.000	0.40		202.9
1.019	S5050 Control Chamber	3	94.107	0.207	0.000	0.02		12.3

PN	US/MH Name	Status
5.000	S5023	OK
5.001	S5025	OK
6.000	S5026	OK
6.001	S5027	OK
5.002	S5028	SURCHARGED
1.014	S5029	SURCHARGED
1.015	S5030	SURCHARGED
1.016	S8121	SURCHARGED
1.017	S5036 - Headwall	OK

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Summary Wizard of 720 minute 100 year Winter I+40% for Surface Network 5

PN	US/MH Name	Status
7.000	S8135	OK
7.001	S8136	OK
7.002	S8137	OK
7.003	S8161	OK
8.000	S8151	OK
7.004	S8162	OK
7.005	S8152	OK
9.000	S8144	OK
9.001	S8145	OK
7.006	S8146	OK
10.000	S8164	OK
7.007	S8147	OK
7.008	S8150	OK
7.009	S8149	OK
11.000	S5037	OK
11.001	S5038	OK
11.002	S5039	OK
12.000	S5040	OK
7.010	S5041	OK
7.011	S5042	OK
7.012	S5047	SURCHARGED
7.013	S5048 - Headwall	SURCHARGED
1.018	S5049 - Headwall	SURCHARGED
1.019	S5050 Control Chamber	SURCHARGED

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Summary Wizard of 960 minute 100 year Winter I+40% for Surface Network 5

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.410
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.800	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 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	S8142	47	96.778	-0.337	0.000	0.02		4.3	OK
2.000	S8133	47	97.799	-0.261	0.000	0.04		7.1	OK
1.001	S8134	47	96.183	-0.367	0.000	0.08		14.3	OK
1.002	S8141	47	96.001	-0.444	0.000	0.06		17.8	OK
1.003	S8139	47	95.805	-0.450	0.000	0.05		19.2	OK
1.004	S8140	47	95.410	-0.435	0.000	0.07		24.6	OK
1.005	S4008	47	95.249	-0.377	0.000	0.18		28.9	OK
1.006	S4011	47	95.156	-0.433	0.000	0.07		31.3	OK
1.007	S4012	47	94.676	-0.409	0.000	0.11		35.4	OK
3.000	S8157	47	96.016	-0.364	0.000	0.01		1.6	OK
3.001	S8159	47	95.219	-0.401	0.000	0.03		6.9	OK
3.002	S8154	47	94.967	-0.373	0.000	0.07		10.6	OK
3.003	S8155	47	94.840	-0.465	0.000	0.03		15.9	OK
1.008	S5015	47	94.477	-0.368	0.000	0.20		55.4	OK
1.009	S5016	47	94.317	-0.388	0.000	0.15		56.7	OK
1.010	S5017 - PH4 Connection	47	94.189	-0.286	0.000	0.31		63.0	OK
4.000	S5018	47	95.122	-0.282	0.000	0.01		2.6	OK
1.011	S5019	48	94.145	-0.260	0.000	0.42		66.6	OK
1.012	S5020 PH5 Connection	44	94.140	-0.225	0.000	0.51		68.5	OK
1.013	S5021	19	94.138	-0.192	0.000	0.12		71.9	OK

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Summary Wizard of 960 minute 100 year Winter I+40% for Surface Network 5

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)
5.000	S5023	37	94.135	-0.385	0.000	0.03		7.9
5.001	S5025	19	94.135	-0.025	0.000	0.06		12.2
6.000	S5026	47	94.324	-0.268	0.000	0.03		2.8
6.001	S5027	19	94.135	0.000	0.000	0.06		8.3
5.002	S5028	19	94.141	0.125	0.000	0.13		22.1
1.014	S5029	19	94.136	0.166	0.000	0.37		96.3
1.015	S5030	19	94.140	0.213	0.000	0.53		96.5
1.016	S8121	16	94.136	0.234	0.000	0.54		99.7
1.017	S5036 - Headwall	12	94.139	-0.186	0.000	0.11		104.5
7.000	S8135	47	96.251	-0.367	0.000	0.06		8.8
7.001	S8136	47	96.190	-0.353	0.000	0.09		11.9
7.002	S8137	47	96.132	-0.342	0.000	0.11		14.8
7.003	S8161	47	96.080	-0.334	0.000	0.11		15.9
8.000	S8151	47	96.569	-0.258	0.000	0.05		7.1
7.004	S8162	47	96.028	-0.312	0.000	0.17		23.0
7.005	S8152	47	95.971	-0.299	0.000	0.25		28.4
9.000	S8144	47	96.283	-0.267	0.000	0.03		2.2
9.001	S8145	47	96.044	-0.331	0.000	0.03		4.8
7.006	S8146	47	95.876	-0.353	0.000	0.11		35.2
10.000	S8164	47	95.676	-0.350	0.000	0.01		2.1
7.007	S8147	47	95.528	-0.352	0.000	0.11		38.9
7.008	S8150	47	95.070	-0.395	0.000	0.14		39.9
7.009	S8149	47	94.875	-0.390	0.000	0.15		49.7
11.000	S5037	47	95.186	-0.193	0.000	0.05		1.8
11.001	S5038	47	94.978	-0.255	0.000	0.05		3.4
11.002	S5039	47	94.902	-0.254	0.000	0.06		3.6
12.000	S5040	47	95.211	-0.172	0.000	0.13		4.9
7.010	S5041	47	94.695	-0.383	0.000	0.17		59.8
7.011	S5042	47	94.443	-0.412	0.000	0.11		61.8
7.012	S5047	18	94.132	0.112	0.000	0.15		63.1
7.013	S5048 - Headwall	15	94.130	0.180	0.000	0.21		62.7
1.018	S5049 - Headwall	10	94.129	0.179	0.000	0.32		161.0
1.019	S5050 Control Chamber	2	94.128	0.228	0.000	0.02		12.3

PN	US/MH Name	Status
5.000	S5023	OK
5.001	S5025	OK
6.000	S5026	OK
6.001	S5027	OK
5.002	S5028	SURCHARGED
1.014	S5029	SURCHARGED
1.015	S5030	SURCHARGED
1.016	S8121	SURCHARGED
1.017	S5036 - Headwall	OK

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Summary Wizard of 960 minute 100 year Winter I+40% for Surface Network 5

PN	US/MH Name	Status
7.000	S8135	OK
7.001	S8136	OK
7.002	S8137	OK
7.003	S8161	OK
8.000	S8151	OK
7.004	S8162	OK
7.005	S8152	OK
9.000	S8144	OK
9.001	S8145	OK
7.006	S8146	OK
10.000	S8164	OK
7.007	S8147	OK
7.008	S8150	OK
7.009	S8149	OK
11.000	S5037	OK
11.001	S5038	OK
11.002	S5039	OK
12.000	S5040	OK
7.010	S5041	OK
7.011	S5042	OK
7.012	S5047	SURCHARGED
7.013	S5048 - Headwall	SURCHARGED
1.018	S5049 - Headwall	SURCHARGED
1.019	S5050 Control Chamber	SURCHARGED

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Summary Wizard of 1440 minute 100 year Winter I+40% for Surface Network 5

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.410
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.800	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 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	S8142	57		96.769	-0.346	0.000	0.02		3.1	OK
2.000	S8133	57		97.794	-0.266	0.000	0.03		5.1	OK
1.001	S8134	57		96.169	-0.381	0.000	0.06		10.3	OK
1.002	S8141	57		95.989	-0.456	0.000	0.04		12.9	OK
1.003	S8139	57		95.794	-0.461	0.000	0.04		13.9	OK
1.004	S8140	57		95.395	-0.450	0.000	0.05		17.8	OK
1.005	S4008	57		95.225	-0.401	0.000	0.13		20.8	OK
1.006	S4011	57		95.140	-0.449	0.000	0.05		22.6	OK
1.007	S4012	57		94.659	-0.426	0.000	0.08		25.6	OK
3.000	S8157	57		96.013	-0.367	0.000	0.00		1.2	OK
3.001	S8159	57		95.212	-0.408	0.000	0.02		5.0	OK
3.002	S8154	57		94.954	-0.386	0.000	0.05		7.6	OK
3.003	S8155	57		94.833	-0.472	0.000	0.02		11.5	OK
1.008	S5015	57		94.450	-0.395	0.000	0.14		39.9	OK
1.009	S5016	57		94.296	-0.409	0.000	0.11		40.9	OK
1.010	S5017 - PH4 Connection	54		94.153	-0.322	0.000	0.22		45.4	OK
4.000	S5018	57		95.117	-0.287	0.000	0.01		1.9	OK
1.011	S5019	47		94.152	-0.253	0.000	0.30		48.0	OK
1.012	S5020 PH5 Connection	42		94.151	-0.214	0.000	0.37		49.4	OK
1.013	S5021	18		94.149	-0.181	0.000	0.09		51.8	OK

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Summary Wizard of 1440 minute 100 year Winter I+40% for Surface Network 5

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)
5.000	S5023	29	94.148	-0.372	0.000	0.02		5.7
5.001	S5025	18	94.148	-0.012	0.000	0.04		8.8
6.000	S5026	57	94.318	-0.274	0.000	0.02		2.0
6.001	S5027	18	94.148	0.013	0.000	0.05		6.0
5.002	S5028	18	94.148	0.131	0.000	0.09		15.9
1.014	S5029	18	94.148	0.178	0.000	0.26		69.2
1.015	S5030	17	94.147	0.220	0.000	0.38		69.3
1.016	S8121	14	94.146	0.244	0.000	0.39		71.6
1.017	S5036 - Headwall	11	94.145	-0.180	0.000	0.08		75.1
7.000	S8135	57	96.237	-0.382	0.000	0.05		6.4
7.001	S8136	57	96.174	-0.368	0.000	0.06		8.6
7.002	S8137	57	96.116	-0.358	0.000	0.08		10.7
7.003	S8161	57	96.061	-0.353	0.000	0.08		11.4
8.000	S8151	57	96.563	-0.264	0.000	0.03		5.2
7.004	S8162	57	96.004	-0.335	0.000	0.12		16.6
7.005	S8152	57	95.947	-0.323	0.000	0.18		20.5
9.000	S8144	57	96.278	-0.272	0.000	0.02		1.6
9.001	S8145	57	96.039	-0.336	0.000	0.02		3.4
7.006	S8146	57	95.861	-0.368	0.000	0.08		25.4
10.000	S8164	57	95.669	-0.357	0.000	0.01		1.5
7.007	S8147	57	95.512	-0.368	0.000	0.08		28.1
7.008	S8150	57	95.051	-0.414	0.000	0.10		28.8
7.009	S8149	57	94.855	-0.410	0.000	0.11		35.9
11.000	S5037	57	95.182	-0.198	0.000	0.04		1.3
11.001	S5038	57	94.972	-0.262	0.000	0.04		2.4
11.002	S5039	57	94.895	-0.261	0.000	0.04		2.6
12.000	S5040	57	95.203	-0.179	0.000	0.09		3.5
7.010	S5041	57	94.673	-0.405	0.000	0.12		43.1
7.011	S5042	57	94.425	-0.430	0.000	0.08		44.6
7.012	S5047	15	94.145	0.125	0.000	0.11		45.5
7.013	S5048 - Headwall	13	94.144	0.194	0.000	0.15		45.3
1.018	S5049 - Headwall	8	94.144	0.194	0.000	0.23		116.1
1.019	S5050 Control Chamber	1	94.143	0.243	0.000	0.02		12.3

PN	US/MH Name	Status
5.000	S5023	OK
5.001	S5025	OK
6.000	S5026	OK
6.001	S5027	SURCHARGED
5.002	S5028	SURCHARGED
1.014	S5029	SURCHARGED
1.015	S5030	SURCHARGED
1.016	S8121	SURCHARGED
1.017	S5036 - Headwall	OK

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Summary Wizard of 1440 minute 100 year Winter I+40% for Surface Network 5

PN	US/MH Name	Status
7.000	S8135	OK
7.001	S8136	OK
7.002	S8137	OK
7.003	S8161	OK
8.000	S8151	OK
7.004	S8162	OK
7.005	S8152	OK
9.000	S8144	OK
9.001	S8145	OK
7.006	S8146	OK
10.000	S8164	OK
7.007	S8147	OK
7.008	S8150	OK
7.009	S8149	OK
11.000	S5037	OK
11.001	S5038	OK
11.002	S5039	OK
12.000	S5040	OK
7.010	S5041	OK
7.011	S5042	OK
7.012	S5047	SURCHARGED
7.013	S5048 - Headwall	SURCHARGED
1.018	S5049 - Headwall	SURCHARGED
1.019	S5050 Control Chamber	SURCHARGED

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STORM SEWER DESIGN by the Modified Rational Method

Design Criteria for Surface Network 5

Pipe Sizes STANDARD Manhole Sizes STANDARD

FSR Rainfall Model - England and Wales

Return Period (years)	2	PIMP (%)	100
M5-60 (mm)	19.800	Add Flow / Climate Change (%)	0
Ratio R	0.410	Minimum Backdrop Height (m)	0.200
Maximum Rainfall (mm/hr)	50	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 Network 5

« - Indicates pipe capacity < flow

PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)	Section Type	Auto Design
1.000	55.915	0.565	99.0	0.111	5.00	0.0	0.600	o	375	Pipe/Conduit	
2.000	54.117	1.510	35.8	0.185	5.00	0.0	0.600	o	300	Pipe/Conduit	
1.001	12.257	0.105	116.7	0.076	0.00	0.0	0.600	o	450	Pipe/Conduit	
1.002	34.666	0.190	182.5	0.091	0.00	0.0	0.600	o	525	Pipe/Conduit	
1.003	52.051	0.410	127.0	0.037	0.00	0.0	0.600	o	525	Pipe/Conduit	
1.004	14.699	0.219	67.1	0.140	0.00	0.0	0.600	o	525	Pipe/Conduit	
1.005	13.648	0.037	368.9	0.110	0.00	0.0	0.600	o	525	Pipe/Conduit	
1.006	49.722	0.504	98.7	0.064	0.00	0.0	0.600	o	525	Pipe/Conduit	
1.007	43.120	0.240	179.7	0.107	0.00	0.0	0.600	o	525	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	50.00	5.51	96.740	0.111	0.0	0.0	0.0	1.82	201.2	15.1
2.000	50.00	5.34	97.760	0.185	0.0	0.0	0.0	2.63	186.3	25.0
1.001	50.00	5.62	96.100	0.372	0.0	0.0	0.0	1.88	299.1	50.4
1.002	50.00	5.97	95.920	0.464	0.0	0.0	0.0	1.66	358.3	62.8
1.003	50.00	6.41	95.730	0.501	0.0	0.0	0.0	1.99	430.1	67.8
1.004	50.00	6.50	95.320	0.641	0.0	0.0	0.0	2.74	592.5	86.8
1.005	50.00	6.69	95.101	0.751	0.0	0.0	0.0	1.16	251.2	101.7
1.006	50.00	7.06	95.064	0.816	0.0	0.0	0.0	2.26	488.2	110.4
1.007	50.00	7.49	94.560	0.922	0.0	0.0	0.0	1.67	361.1	124.9

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Network Design Table for Surface Network 5

PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)	Section Type	Auto Design
3.000	36.698	0.760	48.3	0.042	5.00	0.0	0.600	o	375	Pipe/Conduit	
3.001	34.870	0.280	124.5	0.138	0.00	0.0	0.600	o	450	Pipe/Conduit	
3.002	37.104	0.110	337.3	0.095	0.00	0.0	0.600	o	450	Pipe/Conduit	
3.003	14.380	0.460	31.3	0.140	0.00	0.0	0.600	o	525	Pipe/Conduit	
1.008	27.959	0.140	199.7	0.104	0.00	0.0	0.600	o	525	Pipe/Conduit	
1.009	21.589	0.230	93.9	0.036	0.00	0.0	0.600	o	525	Pipe/Conduit	
1.010	25.448	0.070	363.5	0.163	0.00	0.0	0.600	o	525	Pipe/Conduit	
4.000	23.367	0.999	23.4	0.067	5.00	0.0	0.600	o	300	Pipe/Conduit	
1.011	16.716	0.040	417.9	0.026	0.00	0.0	0.600	o	525	Pipe/Conduit	
1.012	19.123	0.035	546.4	0.051	0.00	0.0	0.600	o	525	Pipe/Conduit	
1.013	18.537	0.360	51.5	0.086	0.00	0.0	0.600	o	600	Pipe/Conduit	
5.000	45.943	0.360	127.6	0.206	5.00	0.0	0.600	o	450	Pipe/Conduit	
5.001	17.179	0.155	110.8	0.113	0.00	0.0	0.600	o	450	Pipe/Conduit	
6.000	42.376	0.457	92.8	0.072	5.00	0.0	0.600	o	300	Pipe/Conduit	
6.001	19.218	0.119	161.9	0.144	0.00	0.0	0.600	o	375	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)
3.000	50.00	5.23	96.005	0.042	0.0	0.0	0.0	2.61	288.6	5.7
3.001	50.00	5.55	95.170	0.180	0.0	0.0	0.0	1.82	289.5	24.3
3.002	50.00	6.11	94.890	0.275	0.0	0.0	0.0	1.10	175.2	37.3
3.003	50.00	6.17	94.780	0.415	0.0	0.0	0.0	4.02	869.5	56.2
1.008	50.00	7.78	94.320	1.441	0.0	0.0	0.0	1.58	342.3	195.2
1.009	50.00	7.94	94.180	1.477	0.0	0.0	0.0	2.31	500.6	200.0
1.010	50.00	8.30	93.950	1.640	0.0	0.0	0.0	1.17	253.0	222.1
4.000	50.00	5.12	95.104	0.067	0.0	0.0	0.0	3.26	230.8	9.1
1.011	50.00	8.56	93.880	1.733	0.0	0.0	0.0	1.09	235.8	234.7
1.012	50.00	8.89	93.840	1.784	0.0	0.0	0.0	0.95	205.9«	241.6
1.013	50.00	8.98	93.730	1.871	0.0	0.0	0.0	3.40	960.8	253.3
5.000	50.00	5.43	94.070	0.206	0.0	0.0	0.0	1.80	286.0	27.9
5.001	50.00	5.57	93.710	0.320	0.0	0.0	0.0	1.93	307.0	43.3
6.000	50.00	5.43	94.292	0.072	0.0	0.0	0.0	1.63	115.4	9.8
6.001	50.00	5.66	93.760	0.216	0.0	0.0	0.0	1.42	157.0	29.2

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Network Design Table for Surface Network 5

PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)	Section Type	Auto Design
5.002	20.959	0.046	455.0	0.050	0.00	0.0	0.600	o	525	Pipe/Conduit	
1.014	28.717	0.043	667.0	0.078	0.00	0.0	0.600	o	675	Pipe/Conduit	
1.015	17.061	0.026	667.0	0.024	0.00	0.0	0.600	o	675	Pipe/Conduit	
1.016	17.691	0.027	667.0	0.094	0.00	0.0	0.600	o	675	Pipe/Conduit	
1.017	100.192	0.000	10019229173944400.0	0.141	0.00	0.0	0.600	o	1125	Pipe/Conduit	
7.000	29.105	0.076	385.0	0.230	5.00	0.0	0.600	o	450	Pipe/Conduit	
7.001	26.555	0.069	385.0	0.079	0.00	0.0	0.600	o	450	Pipe/Conduit	
7.002	23.062	0.060	385.0	0.078	0.00	0.0	0.600	o	450	Pipe/Conduit	
7.003	28.734	0.075	385.0	0.026	0.00	0.0	0.600	o	450	Pipe/Conduit	
8.000	20.598	0.487	42.3	0.186	5.00	0.0	0.600	o	300	Pipe/Conduit	
7.004	26.598	0.069	385.0	0.000	0.00	0.0	0.600	o	450	Pipe/Conduit	
7.005	15.843	0.041	385.0	0.142	0.00	0.0	0.600	o	450	Pipe/Conduit	
9.000	25.933	0.175	148.2	0.058	5.00	0.0	0.600	o	300	Pipe/Conduit	
9.001	18.737	0.146	128.3	0.066	0.00	0.0	0.600	o	375	Pipe/Conduit	
7.006	16.607	0.349	47.6	0.052	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)
5.002	50.00	5.99	93.491	0.585	0.0	0.0	0.0	1.04	225.9	79.2
1.014	50.00	9.46	93.295	2.534	0.0	0.0	0.0	1.01	360.4	343.1
1.015	50.00	9.74	93.252	2.558	0.0	0.0	0.0	1.01	360.4	346.4
1.016	50.00	10.03	93.227	2.652	0.0	0.0	0.0	1.01	360.4	359.1
1.017	0.00	10.03	93.200	2.793	0.0	0.0	0.0	0.00	0.0«	0.0
7.000	50.00	5.47	96.168	0.230	0.0	0.0	0.0	1.03	163.8	31.1
7.001	50.00	5.90	96.093	0.309	0.0	0.0	0.0	1.03	163.8	41.8
7.002	50.00	6.27	96.024	0.387	0.0	0.0	0.0	1.03	163.8	52.3
7.003	50.00	6.74	95.964	0.413	0.0	0.0	0.0	1.03	163.8	55.9
8.000	50.00	5.14	96.527	0.186	0.0	0.0	0.0	2.43	171.5	25.2
7.004	50.00	7.17	95.889	0.599	0.0	0.0	0.0	1.03	163.8	81.1
7.005	50.00	7.43	95.820	0.741	0.0	0.0	0.0	1.03	163.8	100.3
9.000	50.00	5.34	96.250	0.058	0.0	0.0	0.0	1.29	91.1	7.8
9.001	50.00	5.53	96.000	0.124	0.0	0.0	0.0	1.60	176.5	16.7
7.006	50.00	7.52	95.779	0.916	0.0	0.0	0.0	2.95	469.7	124.0

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Network Design Table for Surface Network 5

PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)	Section Type	Auto Design
10.000	13.663	0.145	94.0	0.056	5.00	0.0	0.600	o	375	Pipe/Conduit	
7.007	20.097	0.415	48.4	0.041	0.00	0.0	0.600	o	450	Pipe/Conduit	
7.008	44.236	0.200	221.2	0.027	0.00	0.0	0.600	o	525	Pipe/Conduit	
7.009	21.562	0.187	115.3	0.256	0.00	0.0	0.600	o	525	Pipe/Conduit	
11.000	24.409	0.146	167.0	0.047	5.00	0.0	0.600	o	225	Pipe/Conduit	
11.001	18.487	0.078	237.9	0.041	0.00	0.0	0.600	o	300	Pipe/Conduit	
11.002	18.482	0.078	237.9	0.005	0.00	0.0	0.600	o	300	Pipe/Conduit	
12.000	50.891	0.305	167.0	0.127	5.00	0.0	0.600	o	225	Pipe/Conduit	
7.010	11.324	0.223	50.8	0.041	0.00	0.0	0.600	o	525	Pipe/Conduit	
7.011	44.443	0.835	53.2	0.054	0.00	0.0	0.600	o	525	Pipe/Conduit	
7.012	17.516	0.295	59.4	0.040	0.00	0.0	0.600	o	525	Pipe/Conduit	
7.013	52.662	0.075	702.2	0.000	0.00	0.0	0.600	o	675	Pipe/Conduit	
1.018	9.903	0.050	198.1	0.000	0.00	0.0	0.600	o	750	Pipe/Conduit	
1.019	14.831	0.150	98.9	0.000	0.00	0.0	0.600	o	750	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)
10.000	50.00	5.12	95.650	0.056	0.0	0.0	0.0	1.87	206.4	7.5
7.007	50.00	7.63	95.430	1.012	0.0	0.0	0.0	2.93	465.6	137.1
7.008	50.00	8.12	94.940	1.039	0.0	0.0	0.0	1.50	325.2	140.7
7.009	50.00	8.30	94.740	1.295	0.0	0.0	0.0	2.09	451.4	175.4
11.000	50.00	5.40	95.155	0.047	0.0	0.0	0.0	1.01	40.1	6.3
11.001	50.00	5.71	94.933	0.088	0.0	0.0	0.0	1.01	71.7	12.0
11.002	50.00	6.01	94.856	0.093	0.0	0.0	0.0	1.02	71.8	12.6
12.000	50.00	5.84	95.158	0.127	0.0	0.0	0.0	1.01	40.1	17.2
7.010	50.00	8.36	94.553	1.557	0.0	0.0	0.0	3.15	681.6	210.8
7.011	50.00	8.60	94.330	1.610	0.0	0.0	0.0	3.08	665.7	218.0
7.012	50.00	8.70	93.495	1.650	0.0	0.0	0.0	2.91	630.1	223.4
7.013	50.00	9.59	93.275	1.650	0.0	0.0	0.0	0.98	351.2	223.4
1.018	49.95	10.12	93.200	4.443	0.0	0.0	0.0	1.98	876.9	601.0
1.019	49.72	10.21	93.150	4.443	0.0	0.0	0.0	2.81	1243.5	601.0

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Manhole Schedules for Surface Network 5

MH Name	MH CL (m)	MH Depth (m)	MH Connection	MH Diam.,L*W (mm)	Pipe Out PN	Pipe Out Invert Level (m)	Pipe Out Diameter (mm)	Pipes In PN	Pipes In Invert Level (m)	Pipes In Diamet (mm)
S8142	98.815	2.075	Open Manhole	1800	1.000	96.740	375			
S8133	99.311	1.551	Open Manhole	1350	2.000	97.760	300			
S8134	98.119	2.019	Open Manhole	1350	1.001	96.100	450	1.000	96.175	3
								2.000	96.250	3
S8141	98.046	2.126	Open Manhole	1500	1.002	95.920	525	1.001	95.995	4
S8139	98.374	2.644	Open Manhole	1500	1.003	95.730	525	1.002	95.730	5
S8140	97.688	2.368	Open Manhole	1800	1.004	95.320	525	1.003	95.320	5
S4008	97.634	2.533	Open Manhole	1800	1.005	95.101	525	1.004	95.101	5
S4011	97.754	2.690	Open Manhole	1800	1.006	95.064	525	1.005	95.064	5
S4012	97.313	2.753	Open Manhole	1800	1.007	94.560	525	1.006	94.560	5
S8157	97.886	1.881	Open Manhole	1350	3.000	96.005	375			
S8159	97.487	2.317	Open Manhole	1350	3.001	95.170	450	3.000	95.245	3
S8154	97.228	2.338	Open Manhole	1350	3.002	94.890	450	3.001	94.890	4
S8155	97.204	2.424	Open Manhole	1500	3.003	94.780	525	3.002	94.780	4
S5015	97.521	3.201	Open Manhole	1500	1.008	94.320	525	1.007	94.320	5
								3.003	94.320	5
S5016	97.189	3.009	Open Manhole	1500	1.009	94.180	525	1.008	94.180	5
S5017 - PH4 Connection	97.280	3.330	Open Manhole	1500	1.010	93.950	525	1.009	93.950	5
S5018	96.512	1.408	Open Manhole	1350	4.000	95.104	300			
S5019	96.955	3.075	Open Manhole	1500	1.011	93.880	525	1.010	93.880	5
								4.000	94.105	3
S5020 PH5 Connection	96.136	2.296	Open Manhole	1500	1.012	93.840	525	1.011	93.840	5
S5021	95.600	1.870	Open Manhole	1500	1.013	93.730	600	1.012	93.805	5
S5023	95.946	1.876	Open Manhole	1350	5.000	94.070	450			
S5025	95.436	1.726	Open Manhole	1350	5.001	93.710	450	5.000	93.710	4
S5026	95.874	1.582	Open Manhole	1350	6.000	94.292	300			
S5027	95.528	1.768	Open Manhole	1350	6.001	93.760	375	6.000	93.835	3
S5028	95.410	1.919	Open Manhole	1500	5.002	93.491	525	5.001	93.555	4
								6.001	93.641	3
S5029	95.519	2.224	Open Manhole	1800	1.014	93.295	675	1.013	93.370	6
								5.002	93.445	5
S5030	95.485	2.233	Open Manhole	1800	1.015	93.252	675	1.014	93.252	6
S8121	95.115	1.888	Open Manhole	1800	1.016	93.227	675	1.015	93.227	6
S5036 - Headwall	94.650	1.450	Open Manhole	2025	1.017	93.200	1125	1.016	93.200	6
S8135	98.236	2.068	Open Manhole	1800	7.000	96.168	450			
S8136	98.654	2.561	Open Manhole	1350	7.001	96.093	450	7.000	96.093	4
S8137	98.548	2.524	Open Manhole	1350	7.002	96.024	450	7.001	96.024	4

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Manhole Schedules for Surface Network 5

MH Name	MH CL (m)	MH Depth (m)	MH Connection	MH Diam.,L*W (mm)	Pipe Out PN	Pipe Out Invert Level (m)	Pipe Out Diameter (mm)	Pipes In PN	Pipes In Invert Level (m)	Pipes In Diam (m
S8161	98.234	2.270	Open Manhole	1350	7.003	95.964	450	7.002	95.964	
S8151	98.010	1.484	Open Manhole	1350	8.000	96.527	300			
S8162	97.928	2.039	Open Manhole	1500	7.004	95.889	450	7.003	95.889	
								8.000	96.039	
S8152	97.712	1.892	Open Manhole	1350	7.005	95.820	450	7.004	95.820	
S8144	97.890	1.640	Open Manhole	1350	9.000	96.250	300			
S8145	97.579	1.579	Open Manhole	1800	9.001	96.000	375	9.000	96.075	
S8146	97.513	1.734	Open Manhole	1350	7.006	95.779	450	7.005	95.779	
								9.001	95.854	
S8164	97.225	1.575	Open Manhole	1350	10.000	95.650	375			
S8147	97.322	1.892	Open Manhole	1350	7.007	95.430	450	7.006	95.430	
								10.000	95.505	
S8150	97.042	2.102	Open Manhole	1500	7.008	94.940	525	7.007	95.015	
S8149	96.506	1.766	Open Manhole	1500	7.009	94.740	525	7.008	94.740	
S5037	96.395	1.240	Open Manhole	1350	11.000	95.155	225			
S5038	96.592	1.659	Open Manhole	1350	11.001	94.933	300	11.000	95.008	
S5039	96.418	1.562	Open Manhole	1350	11.002	94.856	300	11.001	94.856	
S5040	96.511	1.353	Open Manhole	1350	12.000	95.158	225			
S5041	96.315	1.762	Open Manhole	1500	7.010	94.553	525	7.009	94.553	
								11.002	94.778	
								12.000	94.853	
S5042	96.064	1.734	Open Manhole	1500	7.011	94.330	525	7.010	94.330	
S5047	95.436	1.941	Open Manhole	1500	7.012	93.495	525	7.011	93.495	
S5048 - Headwall	94.700	1.500	Open Manhole	900 x 1125	7.013	93.275	675	7.012	93.200	
S5049 - Headwall	94.700	1.500	Open Manhole	2025	1.018	93.200	750	1.017	93.200	
								7.013	93.200	
S5050 Control Chamber	94.700	1.550	Open Manhole	3000	1.019	93.150	750	1.018	93.150	
S5051 Outfall	93.800	0.800	Open Manhole	1800		OUTFALL		1.019	93.000	

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PIPELINE SCHEDULES for Surface Network 5

Upstream Manhole

PN	Hyd Sect	Diam (mm)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
1.000	o	375	S8142	98.815	96.740	1.700	Open Manhole	1800
2.000	o	300	S8133	99.311	97.760	1.251	Open Manhole	1350
1.001	o	450	S8134	98.119	96.100	1.569	Open Manhole	1350
1.002	o	525	S8141	98.046	95.920	1.601	Open Manhole	1500
1.003	o	525	S8139	98.374	95.730	2.119	Open Manhole	1500
1.004	o	525	S8140	97.688	95.320	1.843	Open Manhole	1800
1.005	o	525	S4008	97.634	95.101	2.008	Open Manhole	1800
1.006	o	525	S4011	97.754	95.064	2.165	Open Manhole	1800
1.007	o	525	S4012	97.313	94.560	2.228	Open Manhole	1800
3.000	o	375	S8157	97.886	96.005	1.506	Open Manhole	1350
3.001	o	450	S8159	97.487	95.170	1.867	Open Manhole	1350
3.002	o	450	S8154	97.228	94.890	1.888	Open Manhole	1350
3.003	o	525	S8155	97.204	94.780	1.899	Open Manhole	1500
1.008	o	525	S5015	97.521	94.320	2.676	Open Manhole	1500
1.009	o	525	S5016	97.189	94.180	2.484	Open Manhole	1500
1.010	o	525	S5017 - PH4 Connection	97.280	93.950	2.805	Open Manhole	1500

Downstream Manhole

PN	Length (m)	Slope (1:X)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
1.000	55.915	99.0	S8134	98.119	96.175	1.569	Open Manhole	1350
2.000	54.117	35.8	S8134	98.119	96.250	1.569	Open Manhole	1350
1.001	12.257	116.7	S8141	98.046	95.995	1.601	Open Manhole	1500
1.002	34.666	182.5	S8139	98.374	95.730	2.119	Open Manhole	1500
1.003	52.051	127.0	S8140	97.688	95.320	1.843	Open Manhole	1800
1.004	14.699	67.1	S4008	97.634	95.101	2.008	Open Manhole	1800
1.005	13.648	368.9	S4011	97.754	95.064	2.165	Open Manhole	1800
1.006	49.722	98.7	S4012	97.313	94.560	2.228	Open Manhole	1800
1.007	43.120	179.7	S5015	97.521	94.320	2.676	Open Manhole	1500
3.000	36.698	48.3	S8159	97.487	95.245	1.867	Open Manhole	1350
3.001	34.870	124.5	S8154	97.228	94.890	1.888	Open Manhole	1350
3.002	37.104	337.3	S8155	97.204	94.780	1.974	Open Manhole	1500
3.003	14.380	31.3	S5015	97.521	94.320	2.676	Open Manhole	1500
1.008	27.959	199.7	S5016	97.189	94.180	2.484	Open Manhole	1500
1.009	21.589	93.9	S5017 - PH4 Connection	97.280	93.950	2.805	Open Manhole	1500
1.010	25.448	363.5	S5019	96.955	93.880	2.550	Open Manhole	1500

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PIPELINE SCHEDULES for Surface Network 5

Upstream Manhole

PN	Hyd Sect	Diam (mm)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
4.000	o	300	S5018	96.512	95.104	1.108	Open Manhole	1350
1.011	o	525	S5019	96.955	93.880	2.550	Open Manhole	1500
1.012	o	525	S5020 PH5 Connection	96.136	93.840	1.771	Open Manhole	1500
1.013	o	600	S5021	95.600	93.730	1.270	Open Manhole	1500
5.000	o	450	S5023	95.946	94.070	1.426	Open Manhole	1350
5.001	o	450	S5025	95.436	93.710	1.276	Open Manhole	1350
6.000	o	300	S5026	95.874	94.292	1.282	Open Manhole	1350
6.001	o	375	S5027	95.528	93.760	1.393	Open Manhole	1350
5.002	o	525	S5028	95.410	93.491	1.394	Open Manhole	1500
1.014	o	675	S5029	95.519	93.295	1.549	Open Manhole	1800
1.015	o	675	S5030	95.485	93.252	1.558	Open Manhole	1800
1.016	o	675	S8121	95.115	93.227	1.213	Open Manhole	1800
1.017	o	1125	S5036 - Headwall	94.650	93.200	0.325	Open Manhole	2025

Downstream Manhole

PN	Length (m)	Slope (1:X)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
4.000	23.367	23.4	S5019	96.955	94.105	2.550	Open Manhole	1500
1.011	16.716	417.9	S5020 PH5 Connection	96.136	93.840	1.771	Open Manhole	1500
1.012	19.123	546.4	S5021	95.600	93.805	1.270	Open Manhole	1500
1.013	18.537	51.5	S5029	95.519	93.370	1.549	Open Manhole	1800
5.000	45.943	127.6	S5025	95.436	93.710	1.276	Open Manhole	1350
5.001	17.179	110.8	S5028	95.410	93.555	1.405	Open Manhole	1500
6.000	42.376	92.8	S5027	95.528	93.835	1.393	Open Manhole	1350
6.001	19.218	161.9	S5028	95.410	93.641	1.394	Open Manhole	1500
5.002	20.959	455.0	S5029	95.519	93.445	1.549	Open Manhole	1800
1.014	28.717	667.0	S5030	95.485	93.252	1.558	Open Manhole	1800
1.015	17.061	667.0	S8121	95.115	93.227	1.213	Open Manhole	1800
1.016	17.691	667.0	S5036 - Headwall	94.650	93.200	0.775	Open Manhole	2025
1.017	100.192	10019229173944400.0	S5049 - Headwall	94.700	93.200	0.375	Open Manhole	2025

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PIPELINE SCHEDULES for Surface Network 5

Upstream Manhole

PN	Hyd Sect	Diam (mm)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
7.000	o	450	S8135	98.236	96.168	1.618	Open Manhole	1800
7.001	o	450	S8136	98.654	96.093	2.111	Open Manhole	1350
7.002	o	450	S8137	98.548	96.024	2.074	Open Manhole	1350
7.003	o	450	S8161	98.234	95.964	1.820	Open Manhole	1350
8.000	o	300	S8151	98.010	96.527	1.184	Open Manhole	1350
7.004	o	450	S8162	97.928	95.889	1.589	Open Manhole	1500
7.005	o	450	S8152	97.712	95.820	1.442	Open Manhole	1350
9.000	o	300	S8144	97.890	96.250	1.340	Open Manhole	1350
9.001	o	375	S8145	97.579	96.000	1.204	Open Manhole	1800
7.006	o	450	S8146	97.513	95.779	1.284	Open Manhole	1350
10.000	o	375	S8164	97.225	95.650	1.200	Open Manhole	1350
7.007	o	450	S8147	97.322	95.430	1.442	Open Manhole	1350
7.008	o	525	S8150	97.042	94.940	1.577	Open Manhole	1500
7.009	o	525	S8149	96.506	94.740	1.241	Open Manhole	1500

Downstream Manhole

PN	Length (m)	Slope (1:X)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
7.000	29.105	385.0	S8136	98.654	96.093	2.111	Open Manhole	1350
7.001	26.555	385.0	S8137	98.548	96.024	2.074	Open Manhole	1350
7.002	23.062	385.0	S8161	98.234	95.964	1.820	Open Manhole	1350
7.003	28.734	385.0	S8162	97.928	95.889	1.589	Open Manhole	1500
8.000	20.598	42.3	S8162	97.928	96.039	1.589	Open Manhole	1500
7.004	26.598	385.0	S8152	97.712	95.820	1.441	Open Manhole	1350
7.005	15.843	385.0	S8146	97.513	95.779	1.284	Open Manhole	1350
9.000	25.933	148.2	S8145	97.579	96.075	1.204	Open Manhole	1800
9.001	18.737	128.3	S8146	97.513	95.854	1.284	Open Manhole	1350
7.006	16.607	47.6	S8147	97.322	95.430	1.442	Open Manhole	1350
10.000	13.663	94.0	S8147	97.322	95.505	1.442	Open Manhole	1350
7.007	20.097	48.4	S8150	97.042	95.015	1.577	Open Manhole	1500
7.008	44.236	221.2	S8149	96.506	94.740	1.241	Open Manhole	1500
7.009	21.562	115.3	S5041	96.315	94.553	1.237	Open Manhole	1500

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PIPELINE SCHEDULES for Surface Network 5

Upstream Manhole

PN	Hyd Sect	Diam (mm)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
11.000	o	225	S5037	96.395	95.155	1.015	Open Manhole	1350
11.001	o	300	S5038	96.592	94.933	1.359	Open Manhole	1350
11.002	o	300	S5039	96.418	94.856	1.262	Open Manhole	1350
12.000	o	225	S5040	96.511	95.158	1.128	Open Manhole	1350
7.010	o	525	S5041	96.315	94.553	1.237	Open Manhole	1500
7.011	o	525	S5042	96.064	94.330	1.209	Open Manhole	1500
7.012	o	525	S5047	95.436	93.495	1.416	Open Manhole	1500
7.013	o	675	S5048 - Headwall	94.700	93.275	0.750	Open Manhole	900 x 1125
1.018	o	750	S5049 - Headwall	94.700	93.200	0.750	Open Manhole	2025
1.019	o	750	S5050 Control Chamber	94.700	93.150	0.800	Open Manhole	3000

Downstream Manhole

PN	Length (m)	Slope (1:X)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
11.000	24.409	167.0	S5038	96.592	95.008	1.359	Open Manhole	1350
11.001	18.487	237.9	S5039	96.418	94.856	1.262	Open Manhole	1350
11.002	18.482	237.9	S5041	96.315	94.778	1.237	Open Manhole	1500
12.000	50.891	167.0	S5041	96.315	94.853	1.237	Open Manhole	1500
7.010	11.324	50.8	S5042	96.064	94.330	1.209	Open Manhole	1500
7.011	44.443	53.2	S5047	95.436	93.495	1.416	Open Manhole	1500
7.012	17.516	59.4	S5048 - Headwall	94.700	93.200	0.975	Open Manhole	900 x 1125
7.013	52.662	702.2	S5049 - Headwall	94.700	93.200	0.825	Open Manhole	2025
1.018	9.903	198.1	S5050 Control Chamber	94.700	93.150	0.800	Open Manhole	3000
1.019	14.831	98.9	S5051 Outfall	93.800	93.000	0.050	Open Manhole	1800

Free Flowing Outfall Details for Surface Network 5

Outfall Pipe Number	Outfall Name	C. Level (m)	I. Level (m)	Min I. Level (m)	D,L (mm)	W (mm)
1.019	S5051 Outfall	93.800	93.000	0.000	1800	0

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Simulation Criteria for Surface Network 5

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

Synthetic Rainfall Details

Rainfall Model	FSR	Profile Type	Summer
Return Period (years)	2	Cv (Summer)	0.750
Region	England and Wales	Cv (Winter)	0.840
M5-60 (mm)	19.800	Storm Duration (mins)	30
Ratio R	0.410		

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Online Controls for Surface Network 5

Hydro-Brake® Optimum Manhole: S5050 Control Chamber, DS/PN: 1.019, Volume (m³): 14.2

Unit Reference	MD-SHE-0146-1240-2000-1240
Design Head (m)	2.000
Design Flow (l/s)	12.4
Flush-Flo™	Calculated
Objective	Minimise upstream storage
Application	Surface
Sump Available	Yes
Diameter (mm)	146
Invert Level (m)	93.150
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)	2.000	12.4	Kick-Flo®	1.209	9.8
Flush-Flo™	0.587	12.3	Mean Flow over Head Range	-	10.8

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	5.3	1.200	9.9	3.000	15.0	7.000	22.5
0.200	10.3	1.400	10.5	3.500	16.2	7.500	23.3
0.300	11.4	1.600	11.1	4.000	17.2	8.000	24.0
0.400	12.0	1.800	11.8	4.500	18.2	8.500	24.7
0.500	12.3	2.000	12.4	5.000	19.2	9.000	25.4
0.600	12.3	2.200	13.0	5.500	20.1	9.500	26.1
0.800	12.1	2.400	13.5	6.000	20.9		
1.000	11.4	2.600	14.0	6.500	21.7		

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Storage Structures for Surface Network 5

Tank or Pond Manhole: S5050 Control Chamber, DS/PN: 1.019

Invert Level (m) 93.150

Depth (m)	Area (m²)	Depth (m)	Area (m²)	Depth (m)	Area (m²)	Depth (m)	Area (m²)
0.000	2747.5	0.600	3369.3	1.200	4019.3	1.800	4697.5
0.100	2849.2	0.700	3475.7	1.300	4130.4	1.900	4813.3
0.200	2951.6	0.800	3582.8	1.400	4242.3	2.000	4929.9
0.300	3054.9	0.900	3690.8	1.500	4354.9	2.100	5047.2
0.400	3158.9	1.000	3799.5	1.600	4468.3	2.200	5165.4
0.500	3263.7	1.100	3909.0	1.700	4582.5	2.300	5284.2

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Summary of Critical Results by Maximum Level (Rank 1) for Surface Network 5

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.410
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.800	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 40

PN	US/MH Name	Storm	Return Period	Climate Change	First (X) Surcharge	First (Y) Flood	First (Z) Overflow
1.000		S8142 15 Winter	100	+40%	100/15 Summer		
2.000		S8133 15 Winter	100	+40%	100/15 Summer		
1.001		S8134 15 Winter	100	+40%	100/15 Summer		
1.002		S8141 15 Winter	100	+40%	100/15 Summer		
1.003		S8139 15 Winter	100	+40%	100/15 Summer		
1.004		S8140 15 Winter	100	+40%	100/15 Summer	100/15 Winter	
1.005		S4008 15 Winter	100	+40%	30/15 Summer	100/15 Winter	
1.006		S4011 15 Winter	100	+40%	30/15 Winter		
1.007		S4012 15 Winter	100	+40%	30/15 Summer	100/15 Summer	
3.000		S8157 15 Winter	100	+40%	100/15 Summer		
3.001		S8159 15 Winter	100	+40%	100/15 Summer		
3.002		S8154 15 Winter	100	+40%	30/15 Winter	100/15 Summer	
3.003		S8155 15 Winter	100	+40%	30/15 Winter	100/15 Summer	
1.008		S5015 15 Summer	100	+40%	30/15 Summer		
1.009		S5016 15 Winter	100	+40%	30/15 Summer		
1.010	S5017 - PH4 Connection	15 Winter	100	+40%	30/15 Summer		
4.000		S5018 15 Winter	100	+40%	100/15 Summer	100/15 Winter	
1.011		S5019 15 Winter	100	+40%	1/15 Winter		
1.012	S5020 PH5 Connection	15 Winter	100	+40%	30/15 Summer		

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Summary of Critical Results by Maximum Level (Rank 1) for Surface Network 5

PN	US/MH Name	Overflow Act.	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)
1.000	S8142		98.065	0.950	0.000	0.31		58.8
2.000	S8133		98.452	0.392	0.000	0.64		112.8
1.001	S8134		98.017	1.467	0.000	1.00		182.8
1.002	S8141		97.922	1.477	0.000	0.73		224.2
1.003	S8139		97.831	1.576	0.000	0.56		215.0
1.004	S8140		97.693	1.848	5.270	0.66		238.7
1.005	S4008		97.635	2.009	0.808	1.58		256.3
1.006	S4011		97.536	1.947	0.000	0.63		275.4
1.007	S4012		97.329	2.244	16.365	0.92		290.0
3.000	S8157		97.299	0.919	0.000	0.09		23.7
3.001	S8159		97.280	1.660	0.000	0.34		86.6
3.002	S8154		97.239	1.899	10.474	0.67		103.4
3.003	S8155		97.211	1.906	7.244	0.26		136.6
1.008	S5015		97.211	2.366	0.000	1.40		396.8
1.009	S5016		97.056	2.351	0.000	1.12		412.3
1.010	S5017 - PH4 Connection		96.866	2.391	0.000	2.27		468.7
4.000	S5018		96.512	1.108	0.440	0.18		36.8
1.011	S5019		96.504	2.099	0.000	3.11		492.9
1.012	S5020 PH5 Connection		96.068	1.703	0.000	3.84		511.9

PN	US/MH Name	Status	Level Exceeded
1.000	S8142	SURCHARGED	
2.000	S8133	SURCHARGED	
1.001	S8134	FLOOD RISK	
1.002	S8141	FLOOD RISK	
1.003	S8139	SURCHARGED	
1.004	S8140	FLOOD	2
1.005	S4008	FLOOD	2
1.006	S4011	FLOOD RISK	
1.007	S4012	FLOOD	4
3.000	S8157	SURCHARGED	
3.001	S8159	FLOOD RISK	
3.002	S8154	FLOOD	4
3.003	S8155	FLOOD	4
1.008	S5015	SURCHARGED	
1.009	S5016	FLOOD RISK	
1.010	S5017 - PH4 Connection	SURCHARGED	
4.000	S5018	FLOOD	1
1.011	S5019	SURCHARGED	
1.012	S5020 PH5 Connection	FLOOD RISK	

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Summary of Critical Results by Maximum Level (Rank 1) for Surface Network 5

PN	US/MH Name	Storm	Return Period	Climate Change	First (X) Surcharge	First (Y) Flood
1.013	S5021	30 Winter	100	+40%	30/15 Summer	100/15 Summer
5.000	S5023	15 Winter	100	+40%	30/15 Winter	
5.001	S5025	30 Winter	100	+40%	30/15 Summer	100/15 Summer
6.000	S5026	15 Winter	100	+40%	100/15 Summer	
6.001	S5027	15 Winter	100	+40%	30/15 Summer	
5.002	S5028	15 Winter	100	+40%	30/15 Summer	100/15 Summer
1.014	S5029	15 Winter	100	+40%	30/15 Summer	
1.015	S5030	15 Winter	100	+40%	30/15 Summer	
1.016	S8121	15 Winter	100	+40%	30/15 Summer	
1.017	S5036 - Headwall	15 Winter	100	+40%	100/15 Summer	
7.000	S8135	15 Winter	100	+40%	100/15 Summer	100/15 Winter
7.001	S8136	15 Winter	100	+40%	30/15 Winter	
7.002	S8137	15 Winter	100	+40%	30/15 Summer	
7.003	S8161	15 Winter	100	+40%	30/15 Summer	
8.000	S8151	15 Winter	100	+40%	100/15 Summer	100/15 Summer
7.004	S8162	15 Winter	100	+40%	30/15 Summer	100/15 Winter
7.005	S8152	15 Winter	100	+40%	30/15 Summer	100/15 Summer
9.000	S8144	15 Winter	100	+40%	100/15 Summer	
9.001	S8145	15 Winter	100	+40%	100/15 Summer	
7.006	S8146	15 Winter	100	+40%	100/15 Summer	100/15 Winter
10.000	S8164	15 Winter	100	+40%	100/15 Summer	100/15 Winter
7.007	S8147	15 Winter	100	+40%	100/15 Summer	
7.008	S8150	15 Winter	100	+40%	100/15 Summer	
7.009	S8149	15 Winter	100	+40%	100/15 Summer	100/15 Winter
11.000	S5037	15 Winter	100	+40%	100/15 Summer	
11.001	S5038	30 Winter	100	+40%	100/15 Summer	
11.002	S5039	30 Winter	100	+40%	100/15 Summer	
12.000	S5040	15 Winter	100	+40%	30/15 Summer	100/15 Summer
7.010	S5041	30 Winter	100	+40%	100/15 Summer	
7.011	S5042	30 Winter	100	+40%	100/15 Summer	
7.012	S5047	30 Winter	100	+40%	30/15 Summer	
7.013	S5048 - Headwall	30 Winter	100	+40%	30/15 Summer	100/15 Summer
1.018	S5049 - Headwall	15 Winter	100	+40%	30/15 Summer	
1.019	S5050 Control Chamber	1440 Winter	100	+40%	100/180 Winter	

PN	US/MH Name	First (Z) Overflow	Overflow Act.	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m^3)	Flow / Cap.	Overflow (l/s)
1.013	S5021			95.608	1.278	7.737	0.85	
5.000	S5023			95.518	0.998	0.000	0.44	
5.001	S5025			95.446	1.286	10.536	0.61	
6.000	S5026			95.577	0.985	0.000	0.35	
6.001	S5027			95.507	1.372	0.000	0.81	
5.002	S5028			95.417	1.401	7.047	1.65	
1.014	S5029			95.394	1.424	0.000	2.91	

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Summary of Critical Results by Maximum Level (Rank 1) for Surface Network 5

PN	US/MH Name	First (Z) Overflow	Overflow Act.	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)
1.015	S5030			95.190	1.263	0.000	4.25	
1.016	S8121			94.916	1.014	0.000	4.29	
1.017	S5036 - Headwall			94.605	0.280	0.000	0.77	
7.000	S8135			98.238	1.620	2.344	0.84	
7.001	S8136			98.205	1.662	0.000	1.03	
7.002	S8137			98.155	1.681	0.000	1.28	
7.003	S8161			98.056	1.642	0.000	1.27	
8.000	S8151			98.014	1.187	3.195	0.67	
7.004	S8162			97.923	1.584	0.007	1.74	
7.005	S8152			97.718	1.448	6.465	2.55	
9.000	S8144			97.593	1.043	0.000	0.39	
9.001	S8145			97.554	1.179	0.000	0.44	
7.006	S8146			97.515	1.286	2.330	1.00	
10.000	S8164			97.226	1.201	0.514	0.19	
7.007	S8147			97.213	1.333	0.000	0.97	
7.008	S8150			96.848	1.383	0.000	1.26	
7.009	S8149			96.509	1.244	3.477	1.36	
11.000	S5037			96.343	0.963	0.000	0.67	
11.001	S5038			96.301	1.068	0.000	0.53	
11.002	S5039			96.268	1.112	0.000	0.52	
12.000	S5040			96.514	1.132	3.737	1.59	
7.010	S5041			96.234	1.156	0.000	1.39	
7.011	S5042			95.825	0.970	0.000	0.89	
7.012	S5047			95.181	1.161	0.000	1.28	
7.013	S5048 - Headwall			94.704	0.754	3.601	1.71	
1.018	S5049 - Headwall			94.544	0.594	0.000	2.51	
1.019	S5050 Control Chamber			94.143	0.243	0.000	0.02	

PN	US/MH Name	Pipe Flow (l/s)	Status	Level Exceeded
1.013	S5021	509.0	FLOOD	4
5.000	S5023	113.3	SURCHARGED	
5.001	S5025	135.7	FLOOD	4
6.000	S5026	37.4	FLOOD RISK	
6.001	S5027	106.6	FLOOD RISK	
5.002	S5028	282.0	FLOOD	4
1.014	S5029	766.6	FLOOD RISK	
1.015	S5030	768.1	FLOOD RISK	
1.016	S8121	797.6	FLOOD RISK	
1.017	S5036 - Headwall	746.5	FLOOD RISK	
7.000	S8135	117.2	FLOOD	1
7.001	S8136	142.8	SURCHARGED	
7.002	S8137	173.0	SURCHARGED	
7.003	S8161	177.7	FLOOD RISK	

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Summary of Critical Results by Maximum Level (Rank 1) for Surface Network 5

PN	US/MH Name	Pipe Flow (l/s)	Status	Level Exceeded
8.000	S8151	100.2	FLOOD	3
7.004	S8162	240.8	FLOOD	
7.005	S8152	293.7	FLOOD	4
9.000	S8144	31.6	FLOOD RISK	
9.001	S8145	65.0	FLOOD RISK	
7.006	S8146	332.9	FLOOD	2
10.000	S8164	28.8	FLOOD	1
7.007	S8147	351.4	FLOOD RISK	
7.008	S8150	359.5	FLOOD RISK	
7.009	S8149	451.8	FLOOD	3
11.000	S5037	24.7	FLOOD RISK	
11.001	S5038	32.9	FLOOD RISK	
11.002	S5039	32.5	FLOOD RISK	
12.000	S5040	61.1	FLOOD	4
7.010	S5041	503.9	FLOOD RISK	
7.011	S5042	522.5	FLOOD RISK	
7.012	S5047	533.9	FLOOD RISK	
7.013	S5048 - Headwall	520.1	FLOOD	4
1.018	S5049 - Headwall	1262.8	FLOOD RISK	
1.019	S5050 Control Chamber	12.3	SURCHARGED	

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