

Bloor Homes		Page 2																				
Ashby Road Measham Swadlincote DE12 7JP																						
Date 13/11/2025 10:57	Designed by d_southa																					
File PH7B - FITCHETT STORM. ...	Checked by																					
Innovyze	Network 2020.1.3																					
Synthetic Rainfall Details <table><tr><td>Rainfall Model</td><td>FSR</td><td>Profile Type</td><td>Summer</td></tr><tr><td>Return Period (years)</td><td>2</td><td>Cv (Summer)</td><td>0.750</td></tr><tr><td>Region</td><td>England and Wales</td><td>Cv (Winter)</td><td>0.840</td></tr><tr><td>M5-60 (mm)</td><td>20.000</td><td>Storm Duration (mins)</td><td>30</td></tr><tr><td>Ratio R</td><td>0.400</td><td></td><td></td></tr></table>			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)	20.000	Storm Duration (mins)	30	Ratio R	0.400		
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)	20.000	Storm Duration (mins)	30																			
Ratio R	0.400																					
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Online Controls for Surface Network 6

Hydro-Brake® Optimum Manhole: S7024 Control Chamber, DS/PN: 1.009, Volume (m³): 15.7

Unit Reference	MD-SHE-0132-8000-1000-8000
Design Head (m)	1.000
Design Flow (l/s)	8.0
Flush-Flo™	Calculated
Objective	Minimise upstream storage
Application	Surface
Sump Available	Yes
Diameter (mm)	132
Invert Level (m)	93.600
Minimum Outlet Pipe Diameter (mm)	150
Suggested Manhole Diameter (mm)	1200

Control Points	Head (m)	Flow (l/s)
Design Point (Calculated)	1.000	8.0
Flush-Flo™	0.302	8.0
Kick-Flo®	0.664	6.6
Mean Flow over Head Range	-	6.9

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	4.7	1.200	8.7	3.000	13.4	7.000	20.1
0.200	7.8	1.400	9.4	3.500	14.5	7.500	20.8
0.300	8.0	1.600	10.0	4.000	15.4	8.000	21.5
0.400	7.9	1.800	10.5	4.500	16.3	8.500	22.1
0.500	7.7	2.000	11.1	5.000	17.1	9.000	22.7
0.600	7.2	2.200	11.6	5.500	17.9	9.500	23.3
0.800	7.2	2.400	12.1	6.000	18.7		
1.000	8.0	2.600	12.6	6.500	19.4		

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Storage Structures for Surface Network 6

Tank or Pond Manhole: S7024 Control Chamber, DS/PN: 1.009

Invert Level (m) 93.600

Depth (m)	Area (m ²)	Depth (m)	Area (m ²)	Depth (m)	Area (m ²)	Depth (m)	Area (m ²)
0.000	1144.8	0.500	1463.7	1.000	1818.9	1.500	2209.1
0.100	1204.8	0.600	1531.9	1.100	1894.1	1.600	2291.4
0.200	1267.4	0.700	1601.5	1.200	1970.8	1.700	2375.1
0.300	1331.4	0.800	1672.6	1.300	2048.8		
0.400	1396.8	0.900	1745.0	1.400	2128.3		

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Summary Wizard of 15 minute 1 year Summer I+0% for Surface Network 6

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 Coefficient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

Number of Input Hydrographs	0	Number of Storage Structures	1
Number of Online Controls	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	0.400
Region England and Wales	Cv (Summer)		0.750
M5-60 (mm)	20.000	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 Surcharged Flooded			Half Drain	
			Level (m)	Depth (m)	Volume (m³)	Flow / Overflow Cap. (l/s)	Time (mins)
1.000		S8045	20	99.086	-0.254	0.000	0.06
1.001		S8046	20	97.755	-0.365	0.000	0.08
2.000		S8042	20	98.267	-0.223	0.000	0.15
2.001		S8043	20	97.726	-0.194	0.000	0.27
1.002		S8170	20	97.249	-0.330	0.000	0.16
1.003		S7016	20	96.330	-0.325	0.000	0.17
1.004		S7019	21	95.122	-0.373	0.000	0.18
3.000		S8070	20	95.548	-0.185	0.000	0.31
4.000		S8072	20	96.855	-0.245	0.000	0.08
3.001		S8071	20	95.134	-0.426	0.000	0.08
3.002		S8062	22	94.443	-0.212	0.000	0.16
1.005		S8063	22	94.428	-0.129	0.000	0.96
1.006		S8073	35	94.205	-0.310	0.000	0.48
1.007	S7022	Headwall	35	94.108	-0.317	0.000	0.51
1.008	S7023	Headwall	43	93.988	-0.312	0.000	0.47
1.009	S7024	Control Chamber	72	93.680	-0.370	0.000	0.01

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<u>Summary Wizard of 15 minute 1 year Summer I+0% for Surface Network 6</u>		
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Summary Wizard of 30 minute 1 year Summer I+0% for Surface Network 6

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 Coefficient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

Number of Input Hydrographs	0	Number of Storage Structures	1
Number of Online Controls	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	0.400
Region England and Wales	Cv (Summer)		0.750
M5-60 (mm)	20.000	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 / Overflow Cap. (l/s)	Half Drain Time (mins)
1.000		S8045	21 99.083	-0.257	0.000	0.05	
1.001		S8046	23 97.750	-0.370	0.000	0.07	
2.000		S8042	21 98.262	-0.228	0.000	0.13	
2.001		S8043	23 97.721	-0.199	0.000	0.25	
1.002		S8170	23 97.243	-0.336	0.000	0.15	
1.003		S7016	23 96.324	-0.331	0.000	0.16	
1.004		S7019	23 95.116	-0.379	0.000	0.17	
3.000		S8070	21 95.541	-0.192	0.000	0.28	
4.000		S8072	21 96.851	-0.249	0.000	0.07	
3.001		S8071	21 95.128	-0.432	0.000	0.07	
3.002		S8062	25 94.426	-0.229	0.000	0.15	
1.005		S8063	25 94.412	-0.144	0.000	0.92	
1.006		S8073	36 94.197	-0.318	0.000	0.46	
1.007	S7022	Headwall	36 94.101	-0.324	0.000	0.49	
1.008	S7023	Headwall	44 93.984	-0.316	0.000	0.45	
1.009	S7024	Control Chamber	70 93.702	-0.348	0.000	0.02	

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Summary Wizard of 60 minute 1 year Summer I+0% for Surface Network 6

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 Coefficient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

Number of Input Hydrographs	0	Number of Storage Structures	1
Number of Online Controls	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	0.400
Region England and Wales	Cv (Summer)		0.750
M5-60 (mm)	20.000	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 / Overflow Cap. (l/s)	Half Drain Time (mins)
1.000		S8045	28 99.078	-0.262	0.000	0.04	
1.001		S8046	30 97.739	-0.381	0.000	0.06	
2.000		S8042	28 98.253	-0.237	0.000	0.10	
2.001		S8043	29 97.708	-0.212	0.000	0.19	
1.002		S8170	30 97.229	-0.350	0.000	0.11	
1.003		S7016	30 96.309	-0.346	0.000	0.12	
1.004		S7019	30 95.097	-0.398	0.000	0.13	
3.000		S8070	28 95.525	-0.207	0.000	0.20	
4.000		S8072	28 96.843	-0.257	0.000	0.05	
3.001		S8071	28 95.113	-0.447	0.000	0.05	
3.002		S8062	35 94.356	-0.299	0.000	0.12	
1.005		S8063	35 94.345	-0.212	0.000	0.73	
1.006		S8073	40 94.160	-0.355	0.000	0.38	
1.007	S7022 Headwall	40 94.069	-0.356	0.000	0.41		
1.008	S7023 Headwall	52 93.955	-0.345	0.000	0.38		
1.009	S7024 Control Chamber	68 93.724	-0.326	0.000	0.02		

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Summary Wizard of 120 minute 1 year Summer I+0% for Surface Network 6

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 Coefficient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

Number of Input Hydrographs	0	Number of Storage Structures	1
Number of Online Controls	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	0.400
Region England and Wales	Cv (Summer)		0.750
M5-60 (mm)	20.000	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 / Overflow Cap. (l/s)	Half Drain Time (mins)
1.000		S8045	38 99.072	-0.268	0.000	0.02	
1.001		S8046	38 97.727	-0.393	0.000	0.04	
2.000		S8042	38 98.239	-0.251	0.000	0.06	
2.001		S8043	38 97.691	-0.229	0.000	0.13	
1.002		S8170	38 97.212	-0.367	0.000	0.08	
1.003		S7016	38 96.293	-0.362	0.000	0.08	
1.004		S7019	38 95.077	-0.418	0.000	0.09	
3.000		S8070	38 95.506	-0.226	0.000	0.14	
4.000		S8072	38 96.835	-0.265	0.000	0.03	
3.001		S8071	38 95.099	-0.461	0.000	0.04	
3.002		S8062	44 94.283	-0.372	0.000	0.08	
1.005		S8063	44 94.266	-0.291	0.000	0.51	
1.006		S8073	44 94.110	-0.405	0.000	0.26	
1.007	S7022 Headwall	49 94.018	-0.407	0.000	0.29		
1.008	S7023 Headwall	55 93.908	-0.392	0.000	0.27		
1.009	S7024 Control Chamber	66 93.744	-0.306	0.000	0.03		

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Summary Wizard of 180 minute 1 year Summer I+0% for Surface Network 6

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 Coefficient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

Number of Input Hydrographs	0	Number of Storage Structures	1
Number of Online Controls	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	0.400
Region England and Wales	Cv (Summer)		0.750
M5-60 (mm)	20.000	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 / Overflow Cap. (l/s)	Half Drain Time (mins)
1.000		S8045	44 99.068	-0.272	0.000	0.02	
1.001		S8046	44 97.722	-0.398	0.000	0.03	
2.000		S8042	44 98.234	-0.256	0.000	0.05	
2.001		S8043	44 97.684	-0.236	0.000	0.10	
1.002		S8170	44 97.201	-0.378	0.000	0.06	
1.003		S7016	44 96.281	-0.374	0.000	0.07	
1.004		S7019	44 95.064	-0.431	0.000	0.07	
3.000		S8070	44 95.499	-0.234	0.000	0.11	
4.000		S8072	44 96.833	-0.267	0.000	0.03	
3.001		S8071	44 95.093	-0.467	0.000	0.03	
3.002		S8062	47 94.252	-0.403	0.000	0.07	
1.005		S8063	47 94.225	-0.331	0.000	0.41	
1.006		S8073	48 94.077	-0.438	0.000	0.21	
1.007	S7022 Headwall	53 93.990	-0.435	0.000	0.23		
1.008	S7023 Headwall	56 93.888	-0.412	0.000	0.22		
1.009	S7024 Control Chamber	65 93.752	-0.298	0.000	0.03		

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Summary Wizard of 240 minute 1 year Summer I+0% for Surface Network 6

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 Coefficient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

Number of Input Hydrographs	0	Number of Storage Structures	1
Number of Online Controls	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	0.400
Region England and Wales	Cv (Summer)		0.750
M5-60 (mm)	20.000	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 / Overflow Cap. (l/s)	Half Drain Time (mins)
1.000		S8045	48 99.063	-0.277	0.000	0.02	
1.001		S8046	48 97.718	-0.402	0.000	0.03	
2.000		S8042	48 98.230	-0.260	0.000	0.04	
2.001		S8043	48 97.678	-0.242	0.000	0.08	
1.002		S8170	48 97.194	-0.385	0.000	0.05	
1.003		S7016	48 96.273	-0.382	0.000	0.06	
1.004		S7019	48 95.054	-0.441	0.000	0.06	
3.000		S8070	48 95.493	-0.239	0.000	0.09	
4.000		S8072	48 96.830	-0.270	0.000	0.02	
3.001		S8071	48 95.089	-0.471	0.000	0.02	
3.002		S8062	50 94.235	-0.420	0.000	0.06	
1.005		S8063	50 94.199	-0.357	0.000	0.34	
1.006		S8073	51 94.057	-0.458	0.000	0.17	
1.007	S7022 Headwall	57	93.969	-0.456	0.000	0.20	
1.008	S7023 Headwall	58	93.870	-0.430	0.000	0.18	
1.009	S7024 Control Chamber	64	93.757	-0.293	0.000	0.03	

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Summary Wizard of 360 minute 1 year Summer I+0% for Surface Network 6

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 Coefficient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

Number of Input Hydrographs	0	Number of Storage Structures	1
Number of Online Controls	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	0.400
Region England and Wales	Cv (Summer)		0.750
M5-60 (mm)	20.000	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 / Overflow Cap. (l/s)	Half Drain Time (mins)
1.000		S8045	55 99.057	-0.283	0.000	0.01	
1.001		S8046	55 97.712	-0.408	0.000	0.02	
2.000		S8042	55 98.225	-0.265	0.000	0.03	
2.001		S8043	55 97.669	-0.251	0.000	0.06	
1.002		S8170	55 97.185	-0.394	0.000	0.04	
1.003		S7016	55 96.264	-0.391	0.000	0.04	
1.004		S7019	55 95.042	-0.453	0.000	0.05	
3.000		S8070	55 95.483	-0.249	0.000	0.07	
4.000		S8072	55 96.823	-0.277	0.000	0.02	
3.001		S8071	55 95.078	-0.482	0.000	0.02	
3.002		S8062	56 94.210	-0.445	0.000	0.04	
1.005		S8063	56 94.163	-0.394	0.000	0.26	
1.006		S8073	57 94.028	-0.487	0.000	0.13	
1.007	S7022 Headwall	60 93.942	-0.483	0.000	0.15		
1.008	S7023 Headwall	60 93.847	-0.453	0.000	0.13		
1.009	S7024 Control Chamber	60 93.762	-0.288	0.000	0.03		

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Summary Wizard of 480 minute 1 year Summer I+0% for Surface Network 6

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 Coefficient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

Number of Input Hydrographs	0	Number of Storage Structures	1
Number of Online Controls	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	0.400
Region England and Wales	Cv (Summer)		0.750
M5-60 (mm)	20.000	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 / Overflow Cap. (l/s)	Half Drain Time (mins)
1.000		S8045	59 99.054	-0.286	0.000	0.01	
1.001		S8046	59 97.704	-0.416	0.000	0.02	
2.000		S8042	59 98.222	-0.268	0.000	0.03	
2.001		S8043	59 97.663	-0.257	0.000	0.05	
1.002		S8170	59 97.180	-0.399	0.000	0.03	
1.003		S7016	59 96.258	-0.397	0.000	0.03	
1.004		S7019	59 95.035	-0.460	0.000	0.04	
3.000		S8070	59 95.477	-0.255	0.000	0.05	
4.000		S8072	59 96.819	-0.281	0.000	0.01	
3.001		S8071	59 95.070	-0.490	0.000	0.01	
3.002		S8062	59 94.199	-0.456	0.000	0.03	
1.005		S8063	59 94.142	-0.414	0.000	0.21	
1.006		S8073	60 94.008	-0.507	0.000	0.11	
1.007	S7022 Headwall	62 93.923	-0.502	0.000	0.12		
1.008	S7023 Headwall	62 93.833	-0.467	0.000	0.11		
1.009	S7024 Control Chamber	59 93.765	-0.285	0.000	0.03		

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Summary Wizard of 600 minute 1 year Summer I+0% for Surface Network 6

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 Coefficient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

Number of Input Hydrographs	0	Number of Storage Structures	1
Number of Online Controls	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	0.400
Region England and Wales	Cv (Summer)		0.750
M5-60 (mm)	20.000	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)

Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440	Summer and Winter
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 / Overflow Cap. (l/s)	Half Drain Time (mins)
1.000		S8045	63 99.052	-0.288	0.000	0.01	
1.001		S8046	63 97.699	-0.421	0.000	0.01	
2.000		S8042	63 98.220	-0.270	0.000	0.02	
2.001		S8043	63 97.660	-0.260	0.000	0.04	
1.002		S8170	63 97.177	-0.402	0.000	0.03	
1.003		S7016	63 96.255	-0.400	0.000	0.03	
1.004		S7019	63 95.031	-0.464	0.000	0.03	
3.000		S8070	63 95.474	-0.259	0.000	0.05	
4.000		S8072	63 96.816	-0.284	0.000	0.01	
3.001		S8071	63 95.065	-0.495	0.000	0.01	
3.002		S8062	63 94.192	-0.463	0.000	0.03	
1.005		S8063	63 94.126	-0.430	0.000	0.18	
1.006		S8073	64 93.995	-0.520	0.000	0.09	
1.007	S7022 Headwall	64	93.911	-0.514	0.000	0.10	
1.008	S7023 Headwall	64	93.823	-0.477	0.000	0.09	
1.009	S7024 Control Chamber	57	93.767	-0.283	0.000	0.03	

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Summary Wizard of 720 minute 1 year Summer I+0% for Surface Network 6

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 Coefficient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

Number of Input Hydrographs	0	Number of Storage Structures	1
Number of Online Controls	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	0.400
Region England and Wales	Cv (Summer)		0.750
M5-60 (mm)	20.000	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 / Overflow Cap. (l/s)	Half Drain Time (mins)
1.000		S8045	65 99.050	-0.290	0.000	0.01	
1.001		S8046	65 97.695	-0.425	0.000	0.01	
2.000		S8042	65 98.217	-0.273	0.000	0.02	
2.001		S8043	65 97.658	-0.262	0.000	0.04	
1.002		S8170	65 97.175	-0.404	0.000	0.02	
1.003		S7016	65 96.253	-0.402	0.000	0.03	
1.004		S7019	64 95.028	-0.467	0.000	0.03	
3.000		S8070	65 95.471	-0.261	0.000	0.04	
4.000		S8072	65 96.814	-0.286	0.000	0.01	
3.001		S8071	65 95.061	-0.499	0.000	0.01	
3.002		S8062	65 94.188	-0.467	0.000	0.03	
1.005		S8063	65 94.114	-0.443	0.000	0.16	
1.006		S8073	66 93.986	-0.529	0.000	0.08	
1.007	S7022 Headwall	66 93.901	-0.524	0.000	0.09		
1.008	S7023 Headwall	66 93.815	-0.485	0.000	0.08		
1.009	S7024 Control Chamber	56 93.768	-0.282	0.000	0.03		

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Summary Wizard of 960 minute 1 year Summer I+0% for Surface Network 6

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 Coefficient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

Number of Input Hydrographs	0	Number of Storage Structures	1
Number of Online Controls	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	0.400
Region England and Wales	Cv (Summer)		0.750
M5-60 (mm)	20.000	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 / Overflow Cap. (l/s)	Half Drain Time (mins)
1.000		S8045	68 99.048	-0.292	0.000	0.01	
1.001		S8046	68 97.690	-0.430	0.000	0.01	
2.000		S8042	68 98.212	-0.278	0.000	0.02	
2.001		S8043	68 97.654	-0.266	0.000	0.03	
1.002		S8170	68 97.169	-0.410	0.000	0.02	
1.003		S7016	68 96.248	-0.407	0.000	0.02	
1.004		S7019	68 95.024	-0.471	0.000	0.02	
3.000		S8070	68 95.468	-0.265	0.000	0.03	
4.000		S8072	68 96.811	-0.289	0.000	0.01	
3.001		S8071	68 95.056	-0.504	0.000	0.01	
3.002		S8062	68 94.182	-0.473	0.000	0.02	
1.005		S8063	68 94.097	-0.459	0.000	0.13	
1.006		S8073	68 93.972	-0.543	0.000	0.07	
1.007	S7022 Headwall	68	93.888	-0.537	0.000	0.07	
1.008	S7023 Headwall	68	93.801	-0.499	0.000	0.07	
1.009	S7024 Control Chamber	58	93.766	-0.284	0.000	0.03	

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Summary Wizard of 1440 minute 1 year Summer I+0% for Surface Network 6

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 Coefficient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

Number of Input Hydrographs	0	Number of Storage Structures	1
Number of Online Controls	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	0.400
Region England and Wales	Cv (Summer)		0.750
M5-60 (mm)	20.000	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 / Overflow Cap. (l/s)	Half Drain Time (mins)
1.000		S8045	71 99.046	-0.294	0.000	0.00	
1.001		S8046	71 97.685	-0.435	0.000	0.01	
2.000		S8042	71 98.206	-0.284	0.000	0.01	
2.001		S8043	71 97.651	-0.269	0.000	0.02	
1.002		S8170	70 97.158	-0.421	0.000	0.01	
1.003		S7016	71 96.237	-0.418	0.000	0.02	
1.004		S7019	71 95.011	-0.484	0.000	0.02	
3.000		S8070	71 95.464	-0.268	0.000	0.02	
4.000		S8072	71 96.808	-0.292	0.000	0.01	
3.001		S8071	70 95.051	-0.509	0.000	0.01	
3.002		S8062	71 94.168	-0.487	0.000	0.02	
1.005		S8063	71 94.080	-0.477	0.000	0.09	
1.006		S8073	71 93.951	-0.564	0.000	0.05	
1.007	S7022 Headwall	71	93.867	-0.558	0.000	0.05	
1.008	S7023 Headwall	71	93.786	-0.514	0.000	0.05	
1.009	S7024 Control Chamber	63	93.759	-0.291	0.000	0.03	

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Summary Wizard of 15 minute 30 year Summer I+0% for Surface Network 6

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 Coefficient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

Number of Input Hydrographs	0	Number of Storage Structures	1
Number of Online Controls	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	0.400
Region England and Wales	Cv (Summer)		0.750
M5-60 (mm)	20.000	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)

Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440	Summer and Winter
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 / Overflow Cap. (l/s)	Half Drain Time (mins)
1.000		S8045	7 99.114	-0.226	0.000	0.14	
1.001		S8046	7 97.819	-0.301	0.000	0.24	
2.000		S8042	7 98.315	-0.175	0.000	0.36	
2.001		S8043	7 97.816	-0.104	0.000	0.75	
1.002		S8170	7 97.344	-0.235	0.000	0.46	
1.003		S7016	7 96.433	-0.222	0.000	0.50	
1.004		S7019	7 95.253	-0.242	0.000	0.55	
3.000		S8070	7 95.632	-0.101	0.000	0.77	
4.000		S8072	7 96.887	-0.213	0.000	0.19	
3.001		S8071	7 95.194	-0.366	0.000	0.20	
3.002		S8062	8 94.875	0.220	0.000	0.44	
1.005		S8063	8 94.837	0.280	0.000	2.72	
1.006		S8073	8 94.636	0.121	0.000	1.34	
1.007	S7022 Headwall	6	94.425	0.000	0.000	1.42	
1.008	S7023 Headwall	4	94.375	0.075	0.000	1.29	
1.009	S7024 Control Chamber	48	93.790	-0.260	0.000	0.03	

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<u>Summary Wizard of 15 minute 30 year Summer I+0% for Surface Network 6</u>				
PN	US/MH Name	Pipe Flow (l/s)	Status	
1.000		S8045 21.3	OK	
1.001		S8046 92.8	OK	
2.000		S8042 44.5	OK	
2.001		S8043 86.8	OK	
1.002		S8170 186.1	OK	
1.003		S7016 237.0	OK	
1.004		S7019 312.2	OK	
3.000		S8070 51.3	OK	
4.000		S8072 44.0	OK	
3.001		S8071 96.6	OK	
3.002		S8062 136.1	SURCHARGED	
1.005		S8063 451.2	SURCHARGED	
1.006		S8073 478.8	SURCHARGED	
1.007	S7022 Headwall	456.6	SURCHARGED*	
1.008	S7023 Headwall	446.2	SURCHARGED*	
1.009	S7024 Control Chamber	7.7	OK	
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Summary Wizard of 30 minute 30 year Summer I+0% for Surface Network 6

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 Coefficient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

Number of Input Hydrographs	0	Number of Storage Structures	1
Number of Online Controls	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	0.400
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	20.000	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 / Overflow Cap. (l/s)	Half Drain Time (mins)
1.000		S8045	9 99.110	-0.230	0.000	0.12	
1.001		S8046	9 97.810	-0.310	0.000	0.21	
2.000		S8042	9 98.307	-0.183	0.000	0.32	
2.001		S8043	9 97.800	-0.120	0.000	0.65	
1.002		S8170	9 97.328	-0.251	0.000	0.40	
1.003		S7016	9 96.415	-0.240	0.000	0.44	
1.004		S7019	9 95.229	-0.266	0.000	0.48	
3.000		S8070	9 95.617	-0.116	0.000	0.69	
4.000		S8072	9 96.882	-0.218	0.000	0.17	
3.001		S8071	9 95.184	-0.376	0.000	0.18	
3.002		S8062	9 94.779	0.124	0.000	0.40	
1.005		S8063	9 94.747	0.191	0.000	2.47	
1.006		S8073	9 94.580	0.065	0.000	1.23	
1.007	S7022 Headwall	1 94.425	0.000	0.000	1.32		
1.008	S7023 Headwall	15 94.355	0.055	0.000	1.23		
1.009	S7024 Control Chamber	46 93.842	-0.208	0.000	0.03		

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<u>Summary Wizard of 30 minute 30 year Summer I+0% for Surface Network 6</u>			
PN	US/MH Name	Pipe Flow (l/s)	Status
1.000		S8045 19.4	OK
1.001		S8046 80.0	OK
2.000		S8042 40.5	OK
2.001		S8043 76.1	OK
1.002		S8170 163.3	OK
1.003		S7016 207.5	OK
1.004		S7019 276.1	OK
3.000		S8070 46.3	OK
4.000		S8072 39.6	OK
3.001		S8071 86.4	OK
3.002		S8062 126.2	SURCHARGED
1.005		S8063 410.8	SURCHARGED
1.006		S8073 439.5	SURCHARGED
1.007	S7022 Headwall	424.2	SURCHARGED*
1.008	S7023 Headwall	425.3	SURCHARGED*
1.009	S7024 Control Chamber	7.9	OK
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Innovyze Network 2020.1.3		

Summary Wizard of 60 minute 30 year Summer I+0% for Surface Network 6

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 Coefficient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

Number of Input Hydrographs	0	Number of Storage Structures	1
Number of Online Controls	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	0.400
Region England and Wales	Cv (Summer)		0.750
M5-60 (mm)	20.000	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 / Overflow Cap. (l/s)	Half Drain Time (mins)
1.000		S8045	12 99.101	-0.239	0.000	0.09	
1.001		S8046	12 97.786	-0.334	0.000	0.15	
2.000		S8042	12 98.289	-0.201	0.000	0.23	
2.001		S8043	12 97.767	-0.153	0.000	0.47	
1.002		S8170	12 97.295	-0.284	0.000	0.28	
1.003		S7016	12 96.381	-0.274	0.000	0.31	
1.004		S7019	12 95.186	-0.309	0.000	0.34	
3.000		S8070	12 95.584	-0.149	0.000	0.49	
4.000		S8072	12 96.870	-0.230	0.000	0.12	
3.001		S8071	12 95.161	-0.399	0.000	0.13	
3.002		S8062	12 94.608	-0.047	0.000	0.31	
1.005		S8063	12 94.580	0.023	0.000	1.91	
1.006		S8073	12 94.490	-0.025	0.000	0.95	
1.007	S7022	Headwall	17 94.369	-0.056	0.000	1.00	
1.008	S7023	Headwall	29 94.152	-0.148	0.000	0.92	
1.009	S7024	Control Chamber	44 93.891	-0.159	0.000	0.03	

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Innovyze		Network 2020.1.3		
<u>Summary Wizard of 60 minute 30 year Summer I+0% for Surface Network 6</u>				
PN	US/MH Name	Pipe Flow (l/s)	Status	
1.000		S8045 13.7	OK	
1.001		S8046 57.4	OK	
2.000		S8042 28.9	OK	
2.001		S8043 54.4	OK	
1.002		S8170 115.4	OK	
1.003		S7016 146.0	OK	
1.004		S7019 192.9	OK	
3.000		S8070 32.8	OK	
4.000		S8072 28.6	OK	
3.001		S8071 62.8	OK	
3.002		S8062 95.3	OK	
1.005		S8063 317.2	SURCHARGED	
1.006		S8073 339.7	OK	
1.007	S7022 Headwall	320.1	OK*	
1.008	S7023 Headwall	318.4	OK*	
1.009	S7024 Control Chamber	8.0	OK	
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Summary Wizard of 120 minute 30 year Summer I+0% for Surface Network 6

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 Coefficient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

Number of Input Hydrographs	0	Number of Storage Structures	1
Number of Online Controls	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	0.400
Region England and Wales	Cv (Summer)	0.750	
M5-60 (mm)	20.000 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 / Overflow Cap. (l/s)	Half Drain Time (mins)
1.000		S8045	19 99.087	-0.253	0.000	0.06	
1.001		S8046	18 97.762	-0.358	0.000	0.09	
2.000		S8042	19 98.267	-0.223	0.000	0.15	
2.001		S8043	18 97.732	-0.188	0.000	0.30	
1.002		S8170	18 97.258	-0.321	0.000	0.18	
1.003		S7016	18 96.341	-0.314	0.000	0.20	
1.004		S7019	18 95.136	-0.359	0.000	0.22	
3.000		S8070	19 95.549	-0.183	0.000	0.32	
4.000		S8072	19 96.855	-0.245	0.000	0.08	
3.001		S8071	19 95.136	-0.424	0.000	0.08	
3.002		S8062	18 94.575	-0.080	0.000	0.20	
1.005		S8063	19 94.556	0.000	0.000	1.22	
1.006		S8073	31 94.280	-0.235	0.000	0.61	
1.007	S7022 Headwall	31 94.177	-0.248	0.000	0.66		
1.008	S7023 Headwall	31 94.046	-0.254	0.000	0.62		
1.009	S7024 Control Chamber	41 93.935	-0.115	0.000	0.03		

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Summary Wizard of 180 minute 30 year Summer I+0% for Surface Network 6

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 Coefficient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

Number of Input Hydrographs	0	Number of Storage Structures	1
Number of Online Controls	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	0.400
Region England and Wales	Cv (Summer)		0.750
M5-60 (mm)	20.000	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 / Overflow Cap. (l/s)	Half Drain Time (mins)
1.000		S8045	25 99.081	-0.259	0.000	0.05	
1.001		S8046	24 97.750	-0.370	0.000	0.07	
2.000		S8042	25 98.259	-0.231	0.000	0.12	
2.001		S8043	24 97.719	-0.201	0.000	0.23	
1.002		S8170	24 97.242	-0.337	0.000	0.14	
1.003		S7016	24 96.323	-0.332	0.000	0.15	
1.004		S7019	24 95.116	-0.379	0.000	0.17	
3.000		S8070	25 95.535	-0.198	0.000	0.25	
4.000		S8072	25 96.848	-0.252	0.000	0.06	
3.001		S8071	25 95.122	-0.438	0.000	0.06	
3.002		S8062	24 94.436	-0.219	0.000	0.15	
1.005		S8063	24 94.422	-0.134	0.000	0.94	
1.006		S8073	34 94.215	-0.300	0.000	0.49	
1.007	S7022	Headwall	34 94.119	-0.306	0.000	0.54	
1.008	S7023	Headwall	40 94.000	-0.300	0.000	0.49	
1.009	S7024	Control Chamber	39 93.957	-0.093	0.000	0.03	

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Innovyze	Network 2020.1.3	
<u>Summary Wizard of 180 minute 30 year Summer I+0% for Surface Network 6</u>		
PN	US/MH Name	Pipe Flow (l/s) Status
1.000		S8045 7.1 OK
1.001		S8046 28.1 OK
2.000		S8042 14.8 OK
2.001		S8043 27.3 OK
1.002		S8170 57.7 OK
1.003		S7016 73.0 OK
1.004		S7019 97.1 OK
3.000		S8070 16.8 OK
4.000		S8072 14.5 OK
3.001		S8071 31.9 OK
3.002		S8062 47.3 OK
1.005		S8063 156.6 OK
1.006		S8073 173.8 OK
1.007	S7022 Headwall	171.8 OK*
1.008	S7023 Headwall	170.6 OK*
1.009	S7024 Control Chamber	8.0 OK
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Summary Wizard of 240 minute 30 year Summer I+0% for Surface Network 6

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 Coefficient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

Number of Input Hydrographs	0	Number of Storage Structures	1
Number of Online Controls	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	0.400
Region England and Wales	Cv (Summer)		0.750
M5-60 (mm)	20.000	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 Surcharged Flooded			Half Drain	
			Level (m)	Depth (m)	Volume (m³)	Flow / Overflow Cap. (l/s)	Time (mins)
1.000		S8045	29	99.077	-0.263	0.000	0.04
1.001		S8046	28	97.740	-0.380	0.000	0.06
2.000		S8042	29	98.252	-0.238	0.000	0.10
2.001		S8043	28	97.708	-0.212	0.000	0.19
1.002		S8170	28	97.230	-0.349	0.000	0.11
1.003		S7016	28	96.311	-0.344	0.000	0.13
1.004		S7019	28	95.099	-0.396	0.000	0.14
3.000		S8070	29	95.524	-0.208	0.000	0.20
4.000		S8072	29	96.843	-0.257	0.000	0.05
3.001		S8071	29	95.112	-0.448	0.000	0.05
3.002		S8062	34	94.368	-0.287	0.000	0.12
1.005		S8063	34	94.357	-0.200	0.000	0.77
1.006		S8073	38	94.177	-0.338	0.000	0.40
1.007	S7022	Headwall	38	94.082	-0.343	0.000	0.44
1.008	S7023	Headwall	51	93.970	-0.330	0.000	0.41
1.009	S7024	Control Chamber	37	93.969	-0.081	0.000	0.03

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<u>Summary Wizard of 240 minute 30 year Summer I+0% for Surface Network 6</u>		
PN	US/MH Name	Pipe Flow (l/s) Status
1.000		S8045 5.7 OK
1.001		S8046 22.7 OK
2.000		S8042 11.9 OK
2.001		S8043 22.1 OK
1.002		S8170 46.8 OK
1.003		S7016 59.3 OK
1.004		S7019 78.9 OK
3.000		S8070 13.6 OK
4.000		S8072 11.7 OK
3.001		S8071 25.8 OK
3.002		S8062 38.9 OK
1.005		S8063 128.4 OK
1.006		S8073 141.5 OK
1.007	S7022 Headwall	140.8 OK*
1.008	S7023 Headwall	141.4 OK*
1.009	S7024 Control Chamber	8.0 OK
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Summary Wizard of 360 minute 30 year Summer I+0% for Surface Network 6

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 Coefficient 0.800
Manhole Headloss Coeff (Global) 0.500	Flow per Person per Day (l/per/day) 0.000
Foul Sewage per hectare (l/s) 0.000	

Number of Input Hydrographs 0	Number of Storage Structures 1
Number of Online Controls 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 0.400
Region England and Wales Cv (Summer) 0.750	
M5-60 (mm) 20.000	Cv (Winter) 0.840

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

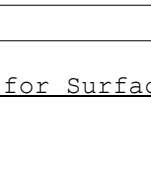
Profile(s)

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 / Overflow Cap. (l/s)	Half Drain Time (mins)
1.000		S8045	37 99.073	-0.267	0.000	0.03	
1.001		S8046	37 97.730	-0.390	0.000	0.04	
2.000		S8042	37 98.242	-0.248	0.000	0.07	
2.001		S8043	37 97.694	-0.226	0.000	0.14	
1.002		S8170	37 97.216	-0.363	0.000	0.08	
1.003		S7016	37 96.296	-0.359	0.000	0.09	
1.004		S7019	37 95.081	-0.414	0.000	0.10	
3.000		S8070	37 95.509	-0.223	0.000	0.15	
4.000		S8072	37 96.837	-0.263	0.000	0.04	
3.001		S8071	37 95.101	-0.459	0.000	0.04	
3.002		S8062	42 94.297	-0.358	0.000	0.09	
1.005		S8063	43 94.281	-0.275	0.000	0.57	
1.006		S8073	43 94.125	-0.390	0.000	0.30	
1.007	S7022 Headwall	44 94.034	-0.391	0.000	0.33		
1.008	S7023 Headwall	47 93.981	-0.319	0.000	0.30		
1.009	S7024 Control Chamber	32 93.980	-0.070	0.000	0.03		

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<u>Summary Wizard of 360 minute 30 year Summer I+0% for Surface Network 6</u>		
PN	US/MH Name	Pipe Flow (l/s) Status
1.000	S8045	4.2 OK
1.001	S8046	16.6 OK
2.000	S8042	8.7 OK
2.001	S8043	16.2 OK
1.002	S8170	34.3 OK
1.003	S7016	43.4 OK
1.004	S7019	57.8 OK
3.000	S8070	10.0 OK
4.000	S8072	8.5 OK
3.001	S8071	19.0 OK
3.002	S8062	28.7 OK
1.005	S8063	94.8 OK
1.006	S8073	105.1 OK
1.007	S7022 Headwall	104.8 OK*
1.008	S7023 Headwall	104.5 OK*
1.009	S7024 Control Chamber	8.0 OK
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Summary Wizard of 480 minute 30 year Summer I+0% for Surface Network 6

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 Coefficient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

Number of Input Hydrographs	0	Number of Storage Structures	1
Number of Online Controls	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	0.400
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	20.000	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	Surcharged	Flooded	Half Drain	
			Level (m)	Depth (m)	Volume (m³)	Flow / Overflow (l/s)	Time (mins)
1.000		S8045	41 99.070	-0.270	0.000	0.02	
1.001		S8046	41 97.724	-0.396	0.000	0.03	
2.000		S8042	41 98.236	-0.254	0.000	0.06	
2.001		S8043	41 97.686	-0.234	0.000	0.11	
1.002		S8170	41 97.205	-0.374	0.000	0.07	
1.003		S7016	41 96.285	-0.370	0.000	0.07	
1.004		S7019	41 95.069	-0.426	0.000	0.08	
3.000		S8070	41 95.501	-0.231	0.000	0.12	
4.000		S8072	41 96.833	-0.267	0.000	0.03	
3.001		S8071	41 95.095	-0.465	0.000	0.03	
3.002		S8062	45 94.263	-0.392	0.000	0.07	
1.005		S8063	45 94.240	-0.316	0.000	0.46	
1.006		S8073	45 94.093	-0.422	0.000	0.24	
1.007	S7022 Headwall	50 94.004	-0.421	0.000	0.26		
1.008	S7023 Headwall	45 93.982	-0.318	0.000	0.24		
1.009	S7024 Control Chamber	31 93.982	-0.068	0.000	0.03		

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Innovyze	Network 2020.1.3	
<u>Summary Wizard of 480 minute 30 year Summer I+0% for Surface Network 6</u>		
PN	US/MH Name	Pipe Flow (l/s) Status
1.000		S8045 3.4 OK
1.001		S8046 13.3 OK
2.000		S8042 7.0 OK
2.001		S8043 12.9 OK
1.002		S8170 27.4 OK
1.003		S7016 34.7 OK
1.004		S7019 46.2 OK
3.000		S8070 8.0 OK
4.000		S8072 6.8 OK
3.001		S8071 15.2 OK
3.002		S8062 23.0 OK
1.005		S8063 75.8 OK
1.006		S8073 84.2 OK
1.007	S7022 Headwall	84.1 OK*
1.008	S7023 Headwall	84.1 OK*
1.009	S7024 Control Chamber	8.0 OK
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Innovyze Network 2020.1.3		

Summary Wizard of 600 minute 30 year Summer I+0% for Surface Network 6

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 Coefficient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

Number of Input Hydrographs	0	Number of Storage Structures	1
Number of Online Controls	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	0.400
Region England and Wales	Cv (Summer)		0.750
M5-60 (mm)	20.000	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 / Overflow Cap. (l/s)	Half Drain Time (mins)
1.000		S8045	46 99.066	-0.274	0.000	0.02	
1.001		S8046	46 97.720	-0.400	0.000	0.03	
2.000		S8042	46 98.232	-0.258	0.000	0.05	
2.001		S8043	46 97.681	-0.239	0.000	0.09	
1.002		S8170	46 97.198	-0.381	0.000	0.06	
1.003		S7016	46 96.277	-0.378	0.000	0.06	
1.004		S7019	46 95.059	-0.436	0.000	0.07	
3.000		S8070	46 95.496	-0.237	0.000	0.10	
4.000		S8072	46 96.831	-0.269	0.000	0.02	
3.001		S8071	46 95.091	-0.469	0.000	0.03	
3.002		S8062	49 94.243	-0.412	0.000	0.06	
1.005		S8063	49 94.213	-0.343	0.000	0.38	
1.006		S8073	49 94.071	-0.444	0.000	0.20	
1.007	S7022 Headwall	54	93.983	-0.442	0.000	0.22	
1.008	S7023 Headwall	48	93.980	-0.320	0.000	0.20	
1.009	S7024 Control Chamber	33	93.979	-0.071	0.000	0.03	

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Innovyze	Network 2020.1.3		
<u>Summary Wizard of 600 minute 30 year Summer I+0% for Surface Network 6</u>			
PN	US/MH Name	Pipe Flow (l/s)	Status
1.000		S8045 2.8	OK
1.001		S8046 11.2	OK
2.000		S8042 5.9	OK
2.001		S8043 10.9	OK
1.002		S8170 23.0	OK
1.003		S7016 29.2	OK
1.004		S7019 38.9	OK
3.000		S8070 6.7	OK
4.000		S8072 5.7	OK
3.001		S8071 12.8	OK
3.002		S8062 19.3	OK
1.005		S8063 63.8	OK
1.006		S8073 70.8	OK
1.007	S7022 Headwall	70.8	OK*
1.008	S7023 Headwall	70.7	OK*
1.009	S7024 Control Chamber	8.0	OK
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Summary Wizard of 720 minute 30 year Summer I+0% for Surface Network 6

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 Coefficient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

Number of Input Hydrographs	0	Number of Storage Structures	1
Number of Online Controls	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	0.400
Region England and Wales	Cv (Summer)	0.750	
M5-60 (mm)	20.000 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 / Overflow Cap. (l/s)	Half Drain Time (mins)
1.000		S8045	51 99.062	-0.278	0.000	0.02	
1.001		S8046	51 97.718	-0.402	0.000	0.03	
2.000		S8042	51 98.229	-0.261	0.000	0.04	
2.001		S8043	51 97.677	-0.243	0.000	0.08	
1.002		S8170	51 97.193	-0.386	0.000	0.05	
1.003		S7016	51 96.272	-0.383	0.000	0.05	
1.004		S7019	51 95.052	-0.443	0.000	0.06	
3.000		S8070	51 95.492	-0.241	0.000	0.09	
4.000		S8072	51 96.830	-0.270	0.000	0.02	
3.001		S8071	51 95.089	-0.471	0.000	0.02	
3.002		S8062	52 94.231	-0.424	0.000	0.05	
1.005		S8063	52 94.194	-0.362	0.000	0.33	
1.006		S8073	52 94.056	-0.459	0.000	0.17	
1.007	S7022 Headwall	55 93.979	-0.446	0.000	0.19		
1.008	S7023 Headwall	49 93.977	-0.323	0.000	0.18		
1.009	S7024 Control Chamber	34 93.977	-0.073	0.000	0.03		

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<u>Summary Wizard of 720 minute 30 year Summer I+0% for Surface Network 6</u>		

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Summary Wizard of 960 minute 30 year Summer I+0% for Surface Network 6

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 Coefficient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

Number of Input Hydrographs	0	Number of Storage Structures	1
Number of Online Controls	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	0.400
Region England and Wales	Cv (Summer)		0.750
M5-60 (mm)	20.000	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 / Overflow Cap. (l/s)	Half Drain Time (mins)
1.000		S8045	54 99.058	-0.282	0.000	0.01	
1.001		S8046	54 97.713	-0.407	0.000	0.02	
2.000		S8042	54 98.225	-0.265	0.000	0.03	
2.001		S8043	54 97.669	-0.251	0.000	0.06	
1.002		S8170	54 97.186	-0.393	0.000	0.04	
1.003		S7016	54 96.265	-0.390	0.000	0.04	
1.004		S7019	54 95.043	-0.452	0.000	0.05	
3.000		S8070	54 95.484	-0.248	0.000	0.07	
4.000		S8072	54 96.824	-0.276	0.000	0.02	
3.001		S8071	54 95.080	-0.480	0.000	0.02	
3.002		S8062	55 94.212	-0.443	0.000	0.04	
1.005		S8063	55 94.166	-0.391	0.000	0.27	
1.006		S8073	55 94.035	-0.480	0.000	0.14	
1.007	S7022 Headwall	56 93.973	-0.452	0.000	0.15		
1.008	S7023 Headwall	50 93.972	-0.328	0.000	0.14		
1.009	S7024 Control Chamber	36 93.971	-0.079	0.000	0.03		

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Summary Wizard of 1440 minute 30 year Summer I+0% for Surface Network 6

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	0.400
Region England and Wales	Cv (Summer)	0.750	
M5-60 (mm)	20.000	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 / Overflow Cap. (l/s)	Half Drain Time (mins)
1.000		S8045	61 99.053	-0.287	0.000	0.01	
1.001		S8046	61 97.701	-0.419	0.000	0.01	
2.000		S8042	61 98.221	-0.269	0.000	0.02	
2.001		S8043	61 97.662	-0.258	0.000	0.05	
1.002		S8170	61 97.179	-0.400	0.000	0.03	
1.003		S7016	61 96.257	-0.398	0.000	0.03	
1.004		S7019	61 95.033	-0.462	0.000	0.03	
3.000		S8070	61 95.475	-0.257	0.000	0.05	
4.000		S8072	61 96.817	-0.283	0.000	0.01	
3.001		S8071	61 95.067	-0.493	0.000	0.01	
3.002		S8062	61 94.195	-0.460	0.000	0.03	
1.005		S8063	61 94.134	-0.422	0.000	0.19	
1.006		S8073	61 94.006	-0.509	0.000	0.10	
1.007	S7022 Headwall	59	93.956	-0.469	0.000	0.11	
1.008	S7023 Headwall	53	93.954	-0.346	0.000	0.10	
1.009	S7024 Control Chamber	40	93.953	-0.097	0.000	0.03	

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Innovyze		Network 2020.1.3	
<u>Summary Wizard of 30 minute 100 year Summer I+40% for Surface Network 6</u>			
PN	US/MH Name	Pipe Flow (l/s)	Status
1.000		S8045 35.5	OK
1.001		S8046 146.4	OK
2.000		S8042 74.3	OK
2.001		S8043 138.6	SURCHARGED
1.002		S8170 295.9	OK
1.003		S7016 354.8	SURCHARGED
1.004		S7019 429.8	SURCHARGED
3.000		S8070 80.9	SURCHARGED
4.000		S8072 72.6	OK
3.001		S8071 136.7	SURCHARGED
3.002		S8062 194.4	FLOOD RISK
1.005		S8063 663.6	FLOOD RISK
1.006		S8073 723.2	SURCHARGED
1.007	S7022 Headwall	711.4	SURCHARGED*
1.008	S7023 Headwall	713.0	SURCHARGED*
1.009	S7024 Control Chamber	8.0	OK
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Summary Wizard of 60 minute 100 year Summer I+40% for Surface Network 6

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 Coefficient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

Number of Input Hydrographs	0	Number of Storage Structures	1
Number of Online Controls	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	0.400
Region England and Wales	Cv (Summer)		0.750
M5-60 (mm)	20.000	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)

Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440	Summer and Winter
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 / Overflow Cap. (l/s)	Half Drain Time (mins)
1.000		S8045	5 99.122	-0.218	0.000	0.16	
1.001		S8046	5 97.832	-0.288	0.000	0.27	
2.000		S8042	5 98.329	-0.161	0.000	0.43	
2.001		S8043	5 97.840	-0.080	0.000	0.86	
1.002		S8170	5 97.365	-0.214	0.000	0.52	
1.003		S7016	5 96.456	-0.199	0.000	0.57	
1.004		S7019	5 95.564	0.069	0.000	0.60	
3.000		S8070	5 95.661	-0.072	0.000	0.90	
4.000		S8072	5 96.896	-0.204	0.000	0.22	
3.001		S8071	5 95.344	-0.216	0.000	0.23	
3.002		S8062	5 95.297	0.642	0.000	0.51	
1.005		S8063	5 95.251	0.694	0.000	3.18	
1.006		S8073	5 94.967	0.452	0.000	1.62	
1.007	S7022 Headwall	10	94.425	0.000	0.000	1.81	
1.008	S7023 Headwall	2	94.375	0.075	0.000	1.67	
1.009	S7024 Control Chamber	20	94.109	0.059	0.000	0.03	

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Summary Wizard of 120 minute 100 year Summer I+40% for Surface Network 6

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 Coefficient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

Number of Input Hydrographs	0	Number of Storage Structures	1
Number of Online Controls	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	0.400
Region England and Wales Cv (Summer)	0.750		
M5-60 (mm)	20.000	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)

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

PN	US/MH Name	Storm Rank	Water Surcharged Flooded				Half Drain
			Level (m)	Depth (m)	Volume (m³)	Flow / Overflow Cap. (l/s)	Time (mins)
1.000		S8045	11	99.105	-0.235	0.000	0.11
1.001		S8046	11	97.794	-0.326	0.000	0.17
2.000		S8042	11	98.297	-0.193	0.000	0.28
2.001		S8043	11	97.779	-0.141	0.000	0.55
1.002		S8170	11	97.308	-0.271	0.000	0.33
1.003		S7016	11	96.393	-0.262	0.000	0.36
1.004		S7019	11	95.201	-0.294	0.000	0.40
3.000		S8070	11	95.599	-0.133	0.000	0.59
4.000		S8072	11	96.875	-0.225	0.000	0.14
3.001		S8071	11	95.171	-0.389	0.000	0.15
3.002		S8062	10	94.734	0.079	0.000	0.35
1.005		S8063	10	94.701	0.145	0.000	2.22
1.006		S8073	10	94.561	0.046	0.000	1.14
1.007	S7022 Headwall	3	94.425	0.000	0.000	1.24	
1.008	S7023 Headwall	16	94.337	0.037	0.000	1.14	
1.009	S7024 Control Chamber	18	94.189	0.139	0.000	0.03	

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<u>Summary Wizard of 120 minute 100 year Summer I+40% for Surface Network 6</u>			
PN	US/MH Name	Pipe Flow (l/s)	Status
1.000		S8045 16.6	OK
1.001		S8046 65.9	OK
2.000		S8042 34.7	OK
2.001		S8043 64.2	OK
1.002		S8170 135.7	OK
1.003		S7016 172.1	OK
1.004		S7019 229.0	OK
3.000		S8070 39.4	OK
4.000		S8072 33.9	OK
3.001		S8071 74.7	OK
3.002		S8062 110.4	SURCHARGED
1.005		S8063 368.3	SURCHARGED
1.006		S8073 405.7	SURCHARGED
1.007	S7022 Headwall	396.9	SURCHARGED*
1.008	S7023 Headwall	397.2	SURCHARGED*
1.009	S7024 Control Chamber	8.0	SURCHARGED
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Summary Wizard of 180 minute 100 year Summer I+40% for Surface Network 6

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 Coefficient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

Number of Input Hydrographs	0	Number of Storage Structures	1
Number of Online Controls	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	0.400
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	20.000	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)

Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440	Summer and Winter
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 / Overflow Cap. (l/s)	Half Drain Time (mins)
1.000		S8045	13 99.098	-0.242	0.000	0.08	
1.001		S8046	13 97.779	-0.341	0.000	0.13	
2.000		S8042	13 98.285	-0.205	0.000	0.22	
2.001		S8043	13 97.758	-0.162	0.000	0.43	
1.002		S8170	13 97.285	-0.294	0.000	0.26	
1.003		S7016	13 96.369	-0.286	0.000	0.28	
1.004		S7019	13 95.172	-0.323	0.000	0.31	
3.000		S8070	13 95.576	-0.156	0.000	0.46	
4.000		S8072	13 96.867	-0.233	0.000	0.11	
3.001		S8071	13 95.156	-0.404	0.000	0.12	
3.002		S8062	14 94.589	-0.066	0.000	0.28	
1.005		S8063	14 94.563	0.007	0.000	1.75	
1.006		S8073	14 94.412	-0.103	0.000	0.89	
1.007	S7022	Headwall	26 94.290	-0.135	0.000	1.00	
1.008	S7023	Headwall	28 94.230	-0.070	0.000	0.91	
1.009	S7024	Control Chamber	17 94.230	0.180	0.000	0.03	

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<u>Summary Wizard of 180 minute 100 year Summer I+40% for Surface Network 6</u>				
PN	US/MH Name	Pipe Flow (l/s)	Status	
1.000		S8045 13.0	OK	
1.001		S8046 51.6	OK	
2.000		S8042 27.2	OK	
2.001		S8043 50.1	OK	
1.002		S8170 105.9	OK	
1.003		S7016 133.9	OK	
1.004		S7019 178.0	OK	
3.000		S8070 30.8	OK	
4.000		S8072 26.6	OK	
3.001		S8071 58.4	OK	
3.002		S8062 87.8	OK	
1.005		S8063 289.8	SURCHARGED	
1.006		S8073 318.4	OK	
1.007	S7022 Headwall	319.4	OK*	
1.008	S7023 Headwall	317.4	OK*	
1.009	S7024 Control Chamber	8.0	SURCHARGED	
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Summary Wizard of 240 minute 100 year Summer I+40% for Surface Network 6

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 Coefficient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

Number of Input Hydrographs	0	Number of Storage Structures	1
Number of Online Controls	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	0.400
Region England and Wales	Cv (Summer)		0.750
M5-60 (mm)	20.000	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	Surcharged	Flooded	Flow / Overflow Cap.	Half Drain Time (mins)
			Level (m)	Depth (m)	Volume (m³)		
1.000		S8045	16 99.091	-0.249	0.000	0.07	
1.001		S8046	16 97.768	-0.352	0.000	0.11	
2.000		S8042	16 98.274	-0.216	0.000	0.17	
2.001		S8043	16 97.742	-0.178	0.000	0.35	
1.002		S8170	16 97.268	-0.311	0.000	0.21	
1.003		S7016	16 96.351	-0.304	0.000	0.23	
1.004		S7019	16 95.148	-0.347	0.000	0.25	
3.000		S8070	16 95.559	-0.173	0.000	0.37	
4.000		S8072	16 96.861	-0.239	0.000	0.09	
3.001		S8071	16 95.144	-0.416	0.000	0.10	
3.002		S8062	16 94.577	-0.078	0.000	0.23	
1.005		S8063	15 94.556	0.000	0.000	1.42	
1.006		S8073	23 94.327	-0.188	0.000	0.73	
1.007	S7022 Headwall	29	94.258	-0.167	0.000	0.80	
1.008	S7023 Headwall	26	94.255	-0.045	0.000	0.74	
1.009	S7024 Control Chamber	15	94.254	0.204	0.000	0.03	

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<u>Summary Wizard of 240 minute 100 year Summer I+40% for Surface Network 6</u>			
PN	US/MH Name	Pipe Flow (l/s)	Status
1.000		S8045 10.4	OK
1.001		S8046 41.4	OK
2.000		S8042 21.8	OK
2.001		S8043 40.3	OK
1.002		S8170 85.4	OK
1.003		S7016 108.3	OK
1.004		S7019 144.1	OK
3.000		S8070 24.8	OK
4.000		S8072 21.3	OK
3.001		S8071 47.2	OK
3.002		S8062 71.4	OK
1.005		S8063 235.9	OK
1.006		S8073 260.9	OK
1.007	S7022 Headwall	257.3	OK*
1.008	S7023 Headwall	256.7	OK*
1.009	S7024 Control Chamber	8.0	SURCHARGED
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Summary Wizard of 360 minute 100 year Summer I+40% for Surface Network 6

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 Coefficient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

Number of Input Hydrographs	0	Number of Storage Structures	1
Number of Online Controls	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	0.400
Region England and Wales Cv (Summer)	0.750		
M5-60 (mm)	20.000	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 / Overflow Cap. (l/s)	Half Drain Time (mins)
1.000		S8045	23 99.082	-0.258	0.000	0.05	
1.001		S8046	22 97.753	-0.367	0.000	0.08	
2.000		S8042	23 98.261	-0.229	0.000	0.13	
2.001		S8043	22 97.722	-0.198	0.000	0.25	
1.002		S8170	22 97.245	-0.334	0.000	0.15	
1.003		S7016	22 96.328	-0.327	0.000	0.17	
1.004		S7019	22 95.121	-0.374	0.000	0.18	
3.000		S8070	23 95.538	-0.194	0.000	0.27	
4.000		S8072	23 96.850	-0.250	0.000	0.07	
3.001		S8071	23 95.126	-0.434	0.000	0.07	
3.002		S8062	20 94.542	-0.113	0.000	0.16	
1.005		S8063	20 94.527	-0.029	0.000	1.00	
1.006		S8073	29 94.291	-0.224	0.000	0.52	
1.007	S7022 Headwall	27 94.288	-0.137	0.000	0.57		
1.008	S7023 Headwall	25 94.285	-0.015	0.000	0.53		
1.009	S7024 Control Chamber	14 94.283	0.233	0.000	0.03		

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Summary Wizard of 480 minute 100 year Summer I+40% for Surface Network 6

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	0.400
Region England and Wales	Cv (Summer)	0.750	
M5-60 (mm)	20.000 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 / Overflow Cap. (l/s)	Half Drain Time (mins)
1.000		S8045	27 99.078	-0.262	0.000	0.04	
1.001		S8046	27 97.742	-0.378	0.000	0.06	
2.000		S8042	27 98.254	-0.236	0.000	0.10	
2.001		S8043	27 97.711	-0.209	0.000	0.20	
1.002		S8170	27 97.233	-0.346	0.000	0.12	
1.003		S7016	27 96.314	-0.341	0.000	0.13	
1.004		S7019	27 95.103	-0.392	0.000	0.15	
3.000		S8070	27 95.526	-0.206	0.000	0.22	
4.000		S8072	27 96.844	-0.256	0.000	0.05	
3.001		S8071	27 95.114	-0.446	0.000	0.06	
3.002		S8062	31 94.385	-0.270	0.000	0.13	
1.005		S8063	32 94.373	-0.183	0.000	0.83	
1.006		S8073	28 94.304	-0.211	0.000	0.43	
1.007	S7022 Headwall	25 94.302	-0.123	0.000	0.47		
1.008	S7023 Headwall	22 94.300	0.000	0.000	0.43		
1.009	S7024 Control Chamber	11 94.300	0.250	0.000	0.03		

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Summary Wizard of 600 minute 100 year Summer I+40% for Surface Network 6

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	0.400
Region England and Wales	Cv (Summer)		0.750
M5-60 (mm)	20.000	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 / Overflow Cap. (l/s)	Half Drain Time (mins)
1.000		S8045	32 99.075	-0.265	0.000	0.03	
1.001		S8046	32 97.736	-0.384	0.000	0.05	
2.000		S8042	32 98.248	-0.242	0.000	0.09	
2.001		S8043	32 97.702	-0.218	0.000	0.17	
1.002		S8170	32 97.224	-0.355	0.000	0.10	
1.003		S7016	32 96.305	-0.350	0.000	0.11	
1.004		S7019	32 95.091	-0.404	0.000	0.12	
3.000		S8070	32 95.518	-0.214	0.000	0.18	
4.000		S8072	32 96.840	-0.260	0.000	0.04	
3.001		S8071	32 95.107	-0.453	0.000	0.05	
3.002		S8062	37 94.335	-0.320	0.000	0.11	
1.005		S8063	37 94.324	-0.232	0.000	0.69	
1.006		S8073	27 94.310	-0.205	0.000	0.36	
1.007	S7022 Headwall	23 94.308	-0.117	0.000	0.39		
1.008	S7023 Headwall	21 94.307	0.007	0.000	0.36		
1.009	S7024 Control Chamber	10 94.307	0.257	0.000	0.03		

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<u>Summary Wizard of 600 minute 100 year Summer I+40% for Surface Network 6</u>			
PN	US/MH Name	Pipe Flow (l/s)	Status
1.000		S8045 5.1	OK
1.001		S8046 20.1	OK
2.000		S8042 10.6	OK
2.001		S8043 19.6	OK
1.002		S8170 41.5	OK
1.003		S7016 52.6	OK
1.004		S7019 70.0	OK
3.000		S8070 12.1	OK
4.000		S8072 10.4	OK
3.001		S8071 23.1	OK
3.002		S8062 34.8	OK
1.005		S8063 114.9	OK
1.006		S8073 127.2	OK
1.007	S7022 Headwall	126.1	OK*
1.008	S7023 Headwall	124.1	SURCHARGED*
1.009	S7024 Control Chamber	8.0	SURCHARGED
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Summary Wizard of 720 minute 100 year Summer I+40% for Surface Network 6

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 Coefficient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

Number of Input Hydrographs	0	Number of Storage Structures	1
Number of Online Controls	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	0.400
Region England and Wales Cv (Summer)	0.750		
M5-60 (mm)	20.000	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 / Overflow Cap. (l/s)	Half Drain Time (mins)
1.000		S8045	35 99.073	-0.267	0.000	0.03	
1.001		S8046	35 97.731	-0.389	0.000	0.05	
2.000		S8042	35 98.243	-0.247	0.000	0.07	
2.001		S8043	35 97.696	-0.224	0.000	0.15	
1.002		S8170	35 97.219	-0.360	0.000	0.09	
1.003		S7016	35 96.298	-0.357	0.000	0.10	
1.004		S7019	35 95.083	-0.412	0.000	0.11	
3.000		S8070	35 95.511	-0.221	0.000	0.16	
4.000		S8072	35 96.837	-0.263	0.000	0.04	
3.001		S8071	35 95.103	-0.457	0.000	0.04	
3.002		S8062	39 94.316	-0.339	0.000	0.10	
1.005		S8063	38 94.315	-0.241	0.000	0.60	
1.006		S8073	25 94.313	-0.202	0.000	0.31	
1.007	S7022 Headwall	21 94.312	-0.113	0.000	0.34		
1.008	S7023 Headwall	19 94.311	0.011	0.000	0.31		
1.009	S7024 Control Chamber	8 94.310	0.260	0.000	0.03		

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Summary Wizard of 960 minute 100 year Summer I+40% for Surface Network 6

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 Coefficient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

Number of Input Hydrographs	0	Number of Storage Structures	1
Number of Online Controls	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	0.400
Region England and Wales Cv (Summer)	0.750		
M5-60 (mm)	20.000	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 Surcharged Flooded				Half Drain
			Level (m)	Depth (m)	Volume (m³)	Flow / Overflow Cap. (l/s)	Time (mins)
1.000		S8045	40	99.071	-0.269	0.000	0.02
1.001		S8046	40	97.725	-0.395	0.000	0.04
2.000		S8042	40	98.237	-0.253	0.000	0.06
2.001		S8043	40	97.688	-0.232	0.000	0.12
1.002		S8170	40	97.207	-0.372	0.000	0.07
1.003		S7016	40	96.287	-0.368	0.000	0.08
1.004		S7019	40	95.072	-0.423	0.000	0.08
3.000		S8070	40	95.502	-0.230	0.000	0.12
4.000		S8072	40	96.834	-0.266	0.000	0.03
3.001		S8071	40	95.096	-0.464	0.000	0.03
3.002		S8062	40	94.313	-0.342	0.000	0.08
1.005		S8063	39	94.312	-0.244	0.000	0.48
1.006		S8073	26	94.311	-0.204	0.000	0.25
1.007	S7022	Headwall	22	94.309	-0.116	0.000	0.27
1.008	S7023	Headwall	20	94.308	0.008	0.000	0.24
1.009	S7024	Control Chamber	9	94.307	0.257	0.000	0.03

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Summary Wizard of 1440 minute 100 year Summer I+40% for Surface Network 6

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 Coefficient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

Number of Input Hydrographs	0	Number of Storage Structures	1
Number of Online Controls	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	0.400
Region England and Wales	Cv (Summer)		0.750
M5-60 (mm)	20.000	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 / Overflow Cap. (l/s)	Half Drain Time (mins)
1.000		S8045	49 99.063	-0.277	0.000	0.02	
1.001		S8046	49 97.718	-0.402	0.000	0.03	
2.000		S8042	49 98.229	-0.261	0.000	0.04	
2.001		S8043	49 97.678	-0.242	0.000	0.08	
1.002		S8170	49 97.194	-0.385	0.000	0.05	
1.003		S7016	49 96.273	-0.382	0.000	0.06	
1.004		S7019	49 95.053	-0.442	0.000	0.06	
3.000		S8070	49 95.493	-0.240	0.000	0.09	
4.000		S8072	49 96.830	-0.270	0.000	0.02	
3.001		S8071	49 95.089	-0.471	0.000	0.02	
3.002		S8062	43 94.290	-0.365	0.000	0.06	
1.005		S8063	41 94.289	-0.267	0.000	0.34	
1.006		S8073	30 94.288	-0.227	0.000	0.18	
1.007	S7022	Headwall	28 94.287	-0.138	0.000	0.19	
1.008	S7023	Headwall	24 94.286	-0.014	0.000	0.18	
1.009	S7024	Control Chamber	13 94.285	0.235	0.000	0.03	

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Innovyze		Network 2020.1.3	
<u>Summary Wizard of 1440 minute 100 year Summer I+40% for Surface Network 6</u>			
PN	US/MH Name	Pipe Flow (l/s)	Status
1.000		S8045 2.5	OK
1.001		S8046 10.0	OK
2.000		S8042 5.3	OK
2.001		S8043 9.7	OK
1.002		S8170 20.6	OK
1.003		S7016 26.2	OK
1.004		S7019 34.8	OK
3.000		S8070 6.0	OK
4.000		S8072 5.1	OK
3.001		S8071 11.5	OK
3.002		S8062 17.3	OK
1.005		S8063 57.1	OK
1.006		S8073 63.2	OK
1.007	S7022 Headwall	62.4	OK*
1.008	S7023 Headwall	61.3	OK*
1.009	S7024 Control Chamber	8.0	SURCHARGED
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Summary Wizard of 15 minute 1 year Winter I+0% for Surface Network 6

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 Coefficient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

Number of Input Hydrographs	0	Number of Storage Structures	1
Number of Online Controls	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	0.400
Region England and Wales	Cv (Summer)		0.750
M5-60 (mm)	20.000	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 Surcharged Flooded			Half Drain	
			Level (m)	Depth (m)	Volume (m³)	Flow / Overflow Cap. (l/s)	Time (mins)
1.000		S8045	18 99.087	-0.253	0.000	0.06	
1.001		S8046	19 97.758	-0.362	0.000	0.08	
2.000		S8042	18 98.269	-0.221	0.000	0.15	
2.001		S8043	19 97.729	-0.191	0.000	0.28	
1.002		S8170	19 97.252	-0.327	0.000	0.17	
1.003		S7016	19 96.334	-0.321	0.000	0.18	
1.004		S7019	19 95.127	-0.368	0.000	0.19	
3.000		S8070	18 95.551	-0.181	0.000	0.33	
4.000		S8072	18 96.856	-0.244	0.000	0.08	
3.001		S8071	18 95.138	-0.422	0.000	0.08	
3.002		S8062	21 94.481	-0.174	0.000	0.16	
1.005		S8063	21 94.467	-0.090	0.000	1.00	
1.006		S8073	33 94.217	-0.298	0.000	0.50	
1.007	S7022	Headwall	33 94.121	-0.304	0.000	0.54	
1.008	S7023	Headwall	39 94.000	-0.300	0.000	0.50	
1.009	S7024	Control Chamber	71 93.689	-0.361	0.000	0.01	

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Summary Wizard of 30 minute 1 year Winter I+0% for Surface Network 6

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 Coefficient 0.800
Manhole Headloss Coeff (Global) 0.500	Flow per Person per Day (l/per/day) 0.000
Foul Sewage per hectare (l/s) 0.000	

Number of Input Hydrographs 0	Number of Storage Structures 1
Number of Online Controls 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 0.400
Region England and Wales Cv (Summer) 0.750	
M5-60 (mm) 20.000	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)

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 / Overflow Cap. (l/s)	Half Drain Time (mins)
1.000		S8045	24 99.081	-0.259	0.000	0.05	
1.001		S8046	26 97.748	-0.372	0.000	0.07	
2.000		S8042	24 98.259	-0.231	0.000	0.12	
2.001		S8043	26 97.717	-0.203	0.000	0.23	
1.002		S8170	26 97.239	-0.340	0.000	0.14	
1.003		S7016	26 96.321	-0.334	0.000	0.15	
1.004		S7019	26 95.111	-0.384	0.000	0.16	
3.000		S8070	24 95.535	-0.197	0.000	0.26	
4.000		S8072	24 96.848	-0.252	0.000	0.06	
3.001		S8071	24 95.122	-0.438	0.000	0.07	
3.002		S8062	26 94.412	-0.243	0.000	0.15	
1.005		S8063	28 94.399	-0.158	0.000	0.89	
1.006		S8073	37 94.196	-0.319	0.000	0.45	
1.007	S7022 Headwall	37 94.100	-0.325	0.000	0.49		
1.008	S7023 Headwall	46 93.982	-0.318	0.000	0.45		
1.009	S7024 Control Chamber	69 93.714	-0.336	0.000	0.02		

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<u>Summary Wizard of 30 minute 1 year Winter I+0% for Surface Network 6</u>				
PN	US/MH Name	Pipe Flow (l/s)	Status	
1.000		S8045 7.2	OK	
1.001		S8046 26.9	OK	
2.000		S8042 15.0	OK	
2.001		S8043 26.7	OK	
1.002		S8170 55.7	OK	
1.003		S7016 70.3	OK	
1.004		S7019 93.0	OK	
3.000		S8070 17.1	OK	
4.000		S8072 14.6	OK	
3.001		S8071 32.2	OK	
3.002		S8062 45.5	OK	
1.005		S8063 147.8	OK	
1.006		S8073 160.4	OK	
1.007	S7022 Headwall	156.4	OK*	
1.008	S7023 Headwall	156.5	OK*	
1.009	S7024 Control Chamber	5.6	OK	
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Summary Wizard of 60 minute 1 year Winter I+0% for Surface Network 6

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 Coefficient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

Number of Input Hydrographs	0	Number of Storage Structures	1
Number of Online Controls	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	0.400
Region England and Wales	Cv (Summer)		0.750
M5-60 (mm)	20.000	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 Surcharged Flooded			Half Drain	
			Level (m)	Depth (m)	Volume (m³)	Flow / Overflow Cap. (l/s)	Time (mins)
1.000		S8045	33	99.074	-0.266	0.000	0.03
1.001		S8046	33	97.733	-0.387	0.000	0.05
2.000		S8042	33	98.247	-0.243	0.000	0.08
2.001		S8043	33	97.699	-0.221	0.000	0.16
1.002		S8170	33	97.222	-0.357	0.000	0.09
1.003		S7016	33	96.301	-0.354	0.000	0.10
1.004		S7019	33	95.087	-0.408	0.000	0.11
3.000		S8070	33	95.515	-0.217	0.000	0.17
4.000		S8072	33	96.839	-0.261	0.000	0.04
3.001		S8071	33	95.106	-0.454	0.000	0.04
3.002		S8062	38	94.318	-0.337	0.000	0.10
1.005		S8063	40	94.306	-0.250	0.000	0.64
1.006		S8073	41	94.139	-0.376	0.000	0.33
1.007	S7022	Headwall	41	94.049	-0.376	0.000	0.36
1.008	S7023	Headwall	54	93.937	-0.363	0.000	0.33
1.009	S7024	Control Chamber	67	93.739	-0.311	0.000	0.02

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Summary Wizard of 60 minute 1 year Winter I+0% for Surface Network 6

PN	US/MH Name	Pipe Flow (l/s)	Status
1.000		S8045 4.8	OK
1.001		S8046 18.7	OK
2.000		S8042 9.9	OK
2.001		S8043 18.3	OK
1.002		S8170 38.6	OK
1.003		S7016 48.9	OK
1.004		S7019 65.0	OK
3.000		S8070 11.4	OK
4.000		S8072 9.8	OK
3.001		S8071 21.7	OK
3.002		S8062 32.3	OK
1.005		S8063 105.5	OK
1.006		S8073 116.7	OK
1.007	S7022 Headwall	115.2	OK*
1.008	S7023 Headwall	115.4	OK*
1.009	S7024 Control Chamber	6.9	OK

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Summary Wizard of 120 minute 1 year Winter I+0% for Surface Network 6

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 Coefficient 0.800
Manhole Headloss Coeff (Global) 0.500	Flow per Person per Day (l/per/day) 0.000
Foul Sewage per hectare (l/s) 0.000	

Number of Input Hydrographs 0	Number of Storage Structures 1
Number of Online Controls 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 0.400
Region England and Wales Cv (Summer) 0.750	
M5-60 (mm) 20.000	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 / Overflow Cap. (l/s)	Half Drain Time (mins)
1.000		S8045	45 99.068	-0.272	0.000	0.02	
1.001		S8046	45 97.722	-0.398	0.000	0.03	
2.000		S8042	45 98.233	-0.257	0.000	0.05	
2.001		S8043	45 97.683	-0.237	0.000	0.10	
1.002		S8170	45 97.201	-0.378	0.000	0.06	
1.003		S7016	45 96.280	-0.375	0.000	0.07	
1.004		S7019	45 95.063	-0.432	0.000	0.07	
3.000		S8070	45 95.498	-0.234	0.000	0.11	
4.000		S8072	45 96.832	-0.268	0.000	0.03	
3.001		S8071	45 95.093	-0.467	0.000	0.03	
3.002		S8062	48 94.251	-0.404	0.000	0.07	
1.005		S8063	48 94.225	-0.332	0.000	0.41	
1.006		S8073	47 94.079	-0.436	0.000	0.21	
1.007	S7022 Headwall	52 93.990	-0.435	0.000	0.24		
1.008	S7023 Headwall	57 93.888	-0.412	0.000	0.22		
1.009	S7024 Control Chamber	61 93.761	-0.289	0.000	0.03		

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<u>Summary Wizard of 120 minute 1 year Winter I+0% for Surface Network 6</u>				
PN	US/MH Name	Pipe Flow (l/s)	Status	
1.000		S8045 3.0	OK	
1.001		S8046 12.0	OK	
2.000		S8042 6.3	OK	
2.001		S8043 11.7	OK	
1.002		S8170 24.8	OK	
1.003		S7016 31.4	OK	
1.004		S7019 41.7	OK	
3.000		S8070 7.2	OK	
4.000		S8072 6.2	OK	
3.001		S8071 13.7	OK	
3.002		S8062 20.7	OK	
1.005		S8063 67.9	OK	
1.006		S8073 74.9	OK	
1.007	S7022 Headwall	75.4	OK*	
1.008	S7023 Headwall	75.4	OK*	
1.009	S7024 Control Chamber	7.5	OK	
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Summary Wizard of 240 minute 1 year Winter I+0% for Surface Network 6

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 Coefficient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

Number of Input Hydrographs	0	Number of Storage Structures	1
Number of Online Controls	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	0.400
Region England and Wales	Cv (Summer)		0.750
M5-60 (mm)	20.000	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 / Overflow Cap. (l/s)	Half Drain Time (mins)
1.000		S8045	56 99.057	-0.283	0.000	0.01	
1.001		S8046	56 97.711	-0.409	0.000	0.02	
2.000		S8042	56 98.225	-0.265	0.000	0.03	
2.001		S8043	56 97.669	-0.251	0.000	0.06	
1.002		S8170	56 97.185	-0.394	0.000	0.04	
1.003		S7016	56 96.264	-0.391	0.000	0.04	
1.004		S7019	56 95.042	-0.453	0.000	0.05	
3.000		S8070	56 95.483	-0.249	0.000	0.07	
4.000		S8072	56 96.823	-0.277	0.000	0.02	
3.001		S8071	56 95.078	-0.482	0.000	0.02	
3.002		S8062	57 94.210	-0.445	0.000	0.04	
1.005		S8063	57 94.162	-0.394	0.000	0.26	
1.006		S8073	58 94.028	-0.487	0.000	0.13	
1.007	S7022 Headwall	61 93.942	-0.483	0.000	0.15		
1.008	S7023 Headwall	61 93.846	-0.454	0.000	0.14		
1.009	S7024 Control Chamber	53 93.777	-0.273	0.000	0.03		

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Summary Wizard of 360 minute 1 year Winter I+0% for Surface Network 6

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	0.400
Region England and Wales	Cv (Summer)		0.750
M5-60 (mm)	20.000	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 / Overflow Cap. (l/s)	Half Drain Time (mins)
1.000		S8045	62 99.053	-0.287	0.000	0.01	
1.001		S8046	62 97.701	-0.419	0.000	0.01	
2.000		S8042	62 98.221	-0.269	0.000	0.02	
2.001		S8043	62 97.662	-0.258	0.000	0.05	
1.002		S8170	62 97.179	-0.400	0.000	0.03	
1.003		S7016	62 96.257	-0.398	0.000	0.03	
1.004		S7019	62 95.033	-0.462	0.000	0.03	
3.000		S8070	62 95.475	-0.257	0.000	0.05	
4.000		S8072	62 96.817	-0.283	0.000	0.01	
3.001		S8071	62 95.067	-0.493	0.000	0.01	
3.002		S8062	62 94.195	-0.460	0.000	0.03	
1.005		S8063	62 94.134	-0.422	0.000	0.19	
1.006		S8073	62 94.001	-0.514	0.000	0.10	
1.007	S7022 Headwall	63 93.917	-0.508	0.000	0.11		
1.008	S7023 Headwall	63 93.828	-0.472	0.000	0.10		
1.009	S7024 Control Chamber	52 93.782	-0.268	0.000	0.03		

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Summary Wizard of 480 minute 1 year Winter I+0% for Surface Network 6

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

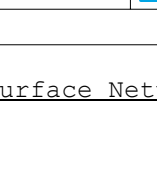
Rainfall Model	FSR	Ratio R	0.400
Region England and Wales	Cv (Summer)	0.750	
M5-60 (mm)	20.000 Cv (Winter)	0.840	

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 / Overflow Cap. (l/s)	Half Drain Time (mins)
1.000		S8045	64 99.050	-0.290	0.000	0.01	
1.001		S8046	64 97.695	-0.425	0.000	0.01	
2.000		S8042	64 98.217	-0.273	0.000	0.02	
2.001		S8043	64 97.658	-0.262	0.000	0.04	
1.002		S8170	64 97.175	-0.404	0.000	0.02	
1.003		S7016	64 96.253	-0.402	0.000	0.03	
1.004		S7019	65 95.028	-0.467	0.000	0.03	
3.000		S8070	64 95.471	-0.261	0.000	0.04	
4.000		S8072	64 96.814	-0.286	0.000	0.01	
3.001		S8071	64 95.061	-0.499	0.000	0.01	
3.002		S8062	64 94.188	-0.467	0.000	0.03	
1.005		S8063	64 94.114	-0.442	0.000	0.16	
1.006		S8073	65 93.986	-0.529	0.000	0.08	
1.007	S7022 Headwall	65	93.901	-0.524	0.000	0.09	
1.008	S7023 Headwall	65	93.815	-0.485	0.000	0.08	
1.009	S7024 Control Chamber	49	93.784	-0.266	0.000	0.03	

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Summary Wizard of 600 minute 1 year Winter I+0% for Surface Network 6

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 Coefficient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

Number of Input Hydrographs	0	Number of Storage Structures	1
Number of Online Controls	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	0.400
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	20.000	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	Surcharged	Flooded	Flow / Cap.	Overflow (l/s)	Half Drain
			Level (m)	Depth (m)	Volume (m³)			Time (mins)
1.000		S8045	67 99.049	-0.291	0.000	0.01		
1.001		S8046	67 97.691	-0.429	0.000	0.01		
2.000		S8042	67 98.213	-0.277	0.000	0.02		
2.001		S8043	67 97.655	-0.265	0.000	0.03		
1.002		S8170	67 97.171	-0.408	0.000	0.02		
1.003		S7016	67 96.250	-0.405	0.000	0.02		
1.004		S7019	67 95.024	-0.471	0.000	0.02		
3.000		S8070	67 95.468	-0.264	0.000	0.03		
4.000		S8072	67 96.812	-0.288	0.000	0.01		
3.001		S8071	67 95.057	-0.503	0.000	0.01		
3.002		S8062	67 94.183	-0.472	0.000	0.02		
1.005		S8063	67 94.101	-0.455	0.000	0.13		
1.006		S8073	67 93.976	-0.539	0.000	0.07		
1.007	S7022	Headwall	67 93.890	-0.535	0.000	0.08		
1.008	S7023	Headwall	67 93.804	-0.496	0.000	0.07		
1.009	S7024	Control Chamber	50 93.784	-0.266	0.000	0.03		

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<u>Summary Wizard of 600 minute 1 year Winter I+0% for Surface Network 6</u>			
PN	US/MH Name	Pipe Flow (l/s)	Status
1.000		S8045 1.0	OK
1.001		S8046 3.9	OK
2.000		S8042 2.0	OK
2.001		S8043 3.8	OK
1.002		S8170 8.0	OK
1.003		S7016 10.1	OK
1.004		S7019 13.4	OK
3.000		S8070 2.3	OK
4.000		S8072 2.0	OK
3.001		S8071 4.4	OK
3.002		S8062 6.7	OK
1.005		S8063 22.1	OK
1.006		S8073 24.5	OK
1.007	S7022 Headwall	24.4	OK*
1.008	S7023 Headwall	24.4	OK*
1.009	S7024 Control Chamber	7.7	OK
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Summary Wizard of 720 minute 1 year Winter I+0% for Surface Network 6

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 Coefficient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

Number of Input Hydrographs	0	Number of Storage Structures	1
Number of Online Controls	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	0.400
Region England and Wales	Cv (Summer)	0.750	
M5-60 (mm)	20.000 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 / Overflow Cap. (l/s)	Half Drain Time (mins)
1.000		S8045	69 99.048	-0.292	0.000	0.01	
1.001		S8046	69 97.689	-0.431	0.000	0.01	
2.000		S8042	69 98.210	-0.280	0.000	0.01	
2.001		S8043	69 97.653	-0.267	0.000	0.03	
1.002		S8170	69 97.165	-0.414	0.000	0.02	
1.003		S7016	69 96.245	-0.410	0.000	0.02	
1.004		S7019	69 95.021	-0.474	0.000	0.02	
3.000		S8070	69 95.466	-0.266	0.000	0.03	
4.000		S8072	69 96.810	-0.290	0.000	0.01	
3.001		S8071	69 95.055	-0.505	0.000	0.01	
3.002		S8062	69 94.177	-0.478	0.000	0.02	
1.005		S8063	69 94.092	-0.465	0.000	0.12	
1.006		S8073	69 93.966	-0.549	0.000	0.06	
1.007	S7022 Headwall	69	93.882	-0.543	0.000	0.07	
1.008	S7023 Headwall	69	93.796	-0.504	0.000	0.06	
1.009	S7024 Control Chamber	51	93.782	-0.268	0.000	0.03	

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Summary Wizard of 960 minute 1 year Winter I+0% for Surface Network 6

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 Coefficient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

Number of Input Hydrographs	0	Number of Storage Structures	1
Number of Online Controls	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	0.400
Region England and Wales	Cv (Summer)		0.750
M5-60 (mm)	20.000	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)

Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440	Summer and Winter
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 / Overflow Cap. (l/s)	Half Drain Time (mins)
1.000		S8045	70 99.046	-0.294	0.000	0.00	
1.001		S8046	70 97.685	-0.435	0.000	0.01	
2.000		S8042	70 98.206	-0.284	0.000	0.01	
2.001		S8043	70 97.651	-0.269	0.000	0.02	
1.002		S8170	71 97.158	-0.421	0.000	0.01	
1.003		S7016	70 96.237	-0.418	0.000	0.02	
1.004		S7019	70 95.011	-0.484	0.000	0.02	
3.000		S8070	70 95.464	-0.268	0.000	0.02	
4.000		S8072	70 96.808	-0.292	0.000	0.01	
3.001		S8071	71 95.051	-0.509	0.000	0.01	
3.002		S8062	70 94.168	-0.487	0.000	0.02	
1.005		S8063	70 94.080	-0.477	0.000	0.09	
1.006		S8073	70 93.951	-0.564	0.000	0.05	
1.007	S7022 Headwall	70	93.867	-0.558	0.000	0.05	
1.008	S7023 Headwall	70	93.787	-0.513	0.000	0.05	
1.009	S7024 Control Chamber	54	93.776	-0.274	0.000	0.03	

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Summary Wizard of 1440 minute 1 year Winter I+0% for Surface Network 6

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 Coefficient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

Number of Input Hydrographs	0	Number of Storage Structures	1
Number of Online Controls	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	0.400
Region England and Wales	Cv (Summer)		0.750
M5-60 (mm)	20.000	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 / Overflow Cap. (l/s)	Half Drain Time (mins)
1.000		S8045	72 99.045	-0.295	0.000	0.00	
1.001		S8046	72 97.681	-0.439	0.000	0.01	
2.000		S8042	72 98.202	-0.288	0.000	0.01	
2.001		S8043	72 97.644	-0.276	0.000	0.02	
1.002		S8170	72 97.151	-0.428	0.000	0.01	
1.003		S7016	72 96.229	-0.426	0.000	0.01	
1.004		S7019	72 95.001	-0.494	0.000	0.01	
3.000		S8070	72 95.458	-0.274	0.000	0.02	
4.000		S8072	72 96.806	-0.294	0.000	0.00	
3.001		S8071	72 95.047	-0.513	0.000	0.00	
3.002		S8062	72 94.158	-0.497	0.000	0.01	
1.005		S8063	72 94.060	-0.496	0.000	0.07	
1.006		S8073	72 93.934	-0.581	0.000	0.04	
1.007	S7022 Headwall	72	93.851	-0.574	0.000	0.04	
1.008	S7023 Headwall	72	93.777	-0.523	0.000	0.04	
1.009	S7024 Control Chamber	62	93.760	-0.290	0.000	0.03	

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Summary Wizard of 15 minute 30 year Winter I+0% for Surface Network 6

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 Coefficient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

Number of Input Hydrographs	0	Number of Storage Structures	1
Number of Online Controls	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	0.400
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	20.000	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 / Overflow Cap. (l/s)	Half Drain Time (mins)
1.000		S8045	6 99.116	-0.224	0.000	0.14	
1.001		S8046	6 97.820	-0.300	0.000	0.24	
2.000		S8042	6 98.318	-0.172	0.000	0.37	
2.001		S8043	6 97.820	-0.100	0.000	0.76	
1.002		S8170	6 97.347	-0.232	0.000	0.46	
1.003		S7016	6 96.435	-0.220	0.000	0.51	
1.004		S7019	6 95.254	-0.241	0.000	0.55	
3.000		S8070	6 95.639	-0.093	0.000	0.81	
4.000		S8072	6 96.890	-0.210	0.000	0.20	
3.001		S8071	6 95.198	-0.362	0.000	0.20	
3.002		S8062	7 94.921	0.266	0.000	0.43	
1.005		S8063	7 94.885	0.329	0.000	2.76	
1.006		S8073	7 94.698	0.183	0.000	1.39	
1.007	S7022 Headwall	4 94.425	0.000	0.000	1.48		
1.008	S7023 Headwall	8 94.375	0.075	0.000	1.36		
1.009	S7024 Control Chamber	47 93.812	-0.238	0.000	0.03		

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<u>Summary Wizard of 15 minute 30 year Winter I+0% for Surface Network 6</u>				
PN	US/MH Name	Pipe Flow (l/s)	Status	
1.000		S8045 22.3	OK	
1.001		S8046 93.7	OK	
2.000		S8042 46.6	OK	
2.001		S8043 88.7	OK	
1.002		S8170 188.7	OK	
1.003		S7016 239.6	OK	
1.004		S7019 315.6	OK	
3.000		S8070 53.8	OK	
4.000		S8072 46.2	OK	
3.001		S8071 101.0	OK	
3.002		S8062 134.9	SURCHARGED	
1.005		S8063 457.7	SURCHARGED	
1.006		S8073 494.3	SURCHARGED	
1.007	S7022 Headwall	476.1	SURCHARGED*	
1.008	S7023 Headwall	472.3	SURCHARGED*	
1.009	S7024 Control Chamber	7.8	OK	
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Summary Wizard of 30 minute 30 year Winter I+0% for Surface Network 6

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 Coefficient 0.800
Manhole Headloss Coeff (Global) 0.500	Flow per Person per Day (l/per/day) 0.000
Foul Sewage per hectare (l/s) 0.000	

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

Synthetic Rainfall Details

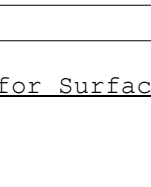
Rainfall Model	FSR	Ratio R 0.400
Region England and Wales	Cv (Summer)	0.750
M5-60 (mm)	20.000 Cv (Winter)	0.840

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 / Overflow Cap.	Half Drain Time (mins)
1.000	S8045	10	99.107	-0.233	0.000	0.11	
1.001	S8046	10	97.800	-0.320	0.000	0.18	
2.000	S8042	10	98.301	-0.189	0.000	0.29	
2.001	S8043	10	97.786	-0.134	0.000	0.59	
1.002	S8170	10	97.315	-0.264	0.000	0.35	
1.003	S7016	10	96.400	-0.255	0.000	0.39	
1.004	S7019	10	95.210	-0.285	0.000	0.43	
3.000	S8070	10	95.605	-0.128	0.000	0.63	
4.000	S8072	10	96.877	-0.223	0.000	0.15	
3.001	S8071	10	95.176	-0.384	0.000	0.16	
3.002	S8062	11	94.728	0.073	0.000	0.37	
1.005	S8063	11	94.694	0.138	0.000	2.28	
1.006	S8073	11	94.551	0.036	0.000	1.16	
1.007	S7022 Headwall	7	94.425	0.000	0.000	1.26	
1.008	S7023 Headwall	17	94.335	0.035	0.000	1.16	
1.009	S7024 Control Chamber	45	93.869	-0.181	0.000	0.03	

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Summary Wizard of 60 minute 30 year Winter I+0% for Surface Network 6

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 Coefficient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

Number of Input Hydrographs	0	Number of Storage Structures	1
Number of Online Controls	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	0.400
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	20.000	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	Surcharged	Flooded	Flow / Cap.	Overflow (l/s)	Half Drain
			Level (m)	Depth (m)	Volume (m³)			Time (mins)
1.000	S8045	15	99.094	-0.246	0.000	0.07		
1.001	S8046	15	97.773	-0.347	0.000	0.12		
2.000	S8042	15	98.279	-0.211	0.000	0.19		
2.001	S8043	15	97.749	-0.171	0.000	0.38		
1.002	S8170	15	97.276	-0.303	0.000	0.23		
1.003	S7016	15	96.359	-0.296	0.000	0.25		
1.004	S7019	15	95.160	-0.335	0.000	0.28		
3.000	S8070	15	95.566	-0.166	0.000	0.41		
4.000	S8072	15	96.863	-0.237	0.000	0.10		
3.001	S8071	15	95.149	-0.411	0.000	0.11		
3.002	S8062	15	94.579	-0.076	0.000	0.25		
1.005	S8063	16	94.556	0.000	0.000	1.57		
1.006	S8073	21	94.355	-0.160	0.000	0.81		
1.007	S7022 Headwall	30	94.250	-0.175	0.000	0.89		
1.008	S7023 Headwall	30	94.113	-0.187	0.000	0.82		
1.009	S7024 Control Chamber	43	93.924	-0.126	0.000	0.03		

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Summary Wizard of 180 minute 30 year Winter I+0% for Surface Network 6

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 Coefficient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

Number of Input Hydrographs	0	Number of Storage Structures	1
Number of Online Controls	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	0.400
Region England and Wales	Cv (Summer)		0.750
M5-60 (mm)	20.000	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 / Overflow Cap. (l/s)	Half Drain Time (mins)
1.000		S8045	31 99.076	-0.264	0.000	0.03	
1.001		S8046	31 97.737	-0.383	0.000	0.05	
2.000		S8042	31 98.250	-0.240	0.000	0.09	
2.001		S8043	31 97.704	-0.216	0.000	0.18	
1.002		S8170	31 97.226	-0.353	0.000	0.11	
1.003		S7016	31 96.307	-0.348	0.000	0.12	
1.004		S7019	31 95.094	-0.401	0.000	0.13	
3.000		S8070	31 95.520	-0.212	0.000	0.19	
4.000		S8072	31 96.841	-0.259	0.000	0.05	
3.001		S8071	31 95.109	-0.451	0.000	0.05	
3.002		S8062	36 94.346	-0.309	0.000	0.12	
1.005		S8063	36 94.336	-0.220	0.000	0.72	
1.006		S8073	39 94.163	-0.352	0.000	0.37	
1.007	S7022 Headwall	39 94.070	-0.355	0.000	0.41		
1.008	S7023 Headwall	41 94.000	-0.300	0.000	0.38		
1.009	S7024 Control Chamber	29 93.999	-0.051	0.000	0.03		

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Areal Reduction Factor 1.000		Additional Flow - % of Total Flow 0.000																																																																																																																																																																																																			
Hot Start (mins) 0		MADD Factor * 10m³/ha Storage 0.000																																																																																																																																																																																																			
Hot Start Level (mm) 0		Inlet Coefficient 0.800																																																																																																																																																																																																			
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Climate Change (%)		0, 0, 40																																																																																																																																																																																																			
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PN	US/MH Name	Storm Rank	Water Level				Surcharged Depth		Flooded Volume		Half Drain Flow / Overflow		Time (mins)																																																																																																																																																																																								
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1.006		S8073	42	94.127	-0.388	0.000	0.30																																																																																																																																																																																														
1.007	S7022	Headwall	42	94.036	-0.389	0.000	0.33																																																																																																																																																																																														
1.008	S7023	Headwall	37	94.014	-0.286	0.000	0.31																																																																																																																																																																																														
1.009	S7024	Control Chamber	28	94.014	-0.036	0.000	0.03																																																																																																																																																																																														
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Summary Wizard of 360 minute 30 year Winter I+0% for Surface Network 6

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 Coefficient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

Number of Input Hydrographs	0	Number of Storage Structures	1
Number of Online Controls	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	0.400
Region England and Wales	Cv (Summer)		0.750
M5-60 (mm)	20.000	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 Surcharged Flooded			Half Drain	
			Level (m)	Depth (m)	Volume (m³)	Flow / Overflow Cap. (l/s)	Time (mins)
1.000		S8045	43	99.068	-0.272	0.000	0.02
1.001		S8046	43	97.722	-0.398	0.000	0.03
2.000		S8042	43	98.234	-0.256	0.000	0.05
2.001		S8043	43	97.684	-0.236	0.000	0.10
1.002		S8170	43	97.202	-0.377	0.000	0.06
1.003		S7016	43	96.282	-0.373	0.000	0.07
1.004		S7019	43	95.065	-0.430	0.000	0.08
3.000		S8070	43	95.499	-0.234	0.000	0.11
4.000		S8072	43	96.833	-0.267	0.000	0.03
3.001		S8071	43	95.093	-0.467	0.000	0.03
3.002		S8062	46	94.254	-0.401	0.000	0.07
1.005		S8063	46	94.229	-0.328	0.000	0.43
1.006		S8073	46	94.083	-0.432	0.000	0.22
1.007	S7022	Headwall	46	94.031	-0.394	0.000	0.24
1.008	S7023	Headwall	34	94.029	-0.271	0.000	0.23
1.009	S7024	Control Chamber	24	94.029	-0.021	0.000	0.03

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<u>Summary Wizard of 480 minute 30 year Winter I+0% for Surface Network 6</u>																		
<u>Simulation Criteria</u>																		
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																
<u>Synthetic Rainfall Details</u>																		
Rainfall Model		FSR Ratio R 0.400																
Region England and Wales		Cv (Summer) 0.750																
M5-60 (mm)		20.000 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																
<table><tr><th rowspan="2">PN</th><th rowspan="2">US/MH Name</th><th rowspan="2">Storm Rank</th><th colspan="2">Water</th><th colspan="2">Surcharged</th><th colspan="2">Flooded</th><th rowspan="2">Half Drain Time (mins)</th></tr><tr><th>Level (m)</th><th>Depth (m)</th><th>Volume (m³)</th><th>Flow / Cap.</th><th>Overflow (l/s)</th></tr></table>				PN	US/MH Name	Storm Rank	Water		Surcharged		Flooded		Half Drain Time (mins)	Level (m)	Depth (m)	Volume (m³)	Flow / Cap.	Overflow (l/s)
PN	US/MH Name	Storm Rank	Water				Surcharged		Flooded		Half Drain Time (mins)							
			Level (m)	Depth (m)	Volume (m³)	Flow / Cap.	Overflow (l/s)											
1.000		S8045	50	99.063	-0.277	0.000	0.02											
1.001		S8046	50	97.718	-0.402	0.000	0.03											
2.000		S8042	50	98.229	-0.261	0.000	0.04											
2.001		S8043	50	97.677	-0.243	0.000	0.08											
1.002		S8170	50	97.193	-0.386	0.000	0.05											
1.003		S7016	50	96.272	-0.383	0.000	0.05											
1.004		S7019	50	95.053	-0.442	0.000	0.06											
3.000		S8070	50	95.492	-0.240	0.000	0.09											
4.000		S8072	50	96.830	-0.270	0.000	0.02											
3.001		S8071	50	95.089	-0.471	0.000	0.02											
3.002		S8062	51	94.233	-0.422	0.000	0.05											
1.005		S8063	51	94.197	-0.359	0.000	0.34											
1.006		S8073	50	94.059	-0.456	0.000	0.18											
1.007	S7022	Headwall	43	94.035	-0.390	0.000	0.19											
1.008	S7023	Headwall	32	94.034	-0.266	0.000	0.18											
1.009	S7024	Control Chamber	22	94.033	-0.017	0.000	0.03											
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Summary Wizard of 600 minute 30 year Winter I+0% for Surface Network 6

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 Coefficient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

Number of Input Hydrographs	0	Number of Storage Structures	1
Number of Online Controls	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	0.400
Region England and Wales	Cv (Summer)	0.750	
M5-60 (mm)	20.000 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 / Overflow Cap. (l/s)	Half Drain Time (mins)
1.000		S8045	53 99.059	-0.281	0.000	0.01	
1.001		S8046	53 97.715	-0.405	0.000	0.02	
2.000		S8042	53 98.226	-0.264	0.000	0.04	
2.001		S8043	53 97.672	-0.248	0.000	0.07	
1.002		S8170	53 97.188	-0.391	0.000	0.04	
1.003		S7016	53 96.267	-0.388	0.000	0.05	
1.004		S7019	53 95.045	-0.450	0.000	0.05	
3.000		S8070	53 95.486	-0.246	0.000	0.07	
4.000		S8072	53 96.826	-0.274	0.000	0.02	
3.001		S8071	53 95.083	-0.477	0.000	0.02	
3.002		S8062	54 94.217	-0.438	0.000	0.05	
1.005		S8063	54 94.174	-0.382	0.000	0.29	
1.006		S8073	54 94.043	-0.472	0.000	0.15	
1.007	S7022 Headwall	45 94.034	-0.391	0.000	0.16		
1.008	S7023 Headwall	33 94.033	-0.267	0.000	0.15		
1.009	S7024 Control Chamber	23 94.032	-0.018	0.000	0.03		

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Innovyze	Network 2020.1.3		
<u>Summary Wizard of 600 minute 30 year Winter I+0% for Surface Network 6</u>			
PN	US/MH Name	Pipe Flow (l/s)	Status
1.000	S8045	2.1	OK
1.001	S8046	8.3	OK
2.000	S8042	4.4	OK
2.001	S8043	8.1	OK
1.002	S8170	17.2	OK
1.003	S7016	21.7	OK
1.004	S7019	28.9	OK
3.000	S8070	5.0	OK
4.000	S8072	4.3	OK
3.001	S8071	9.5	OK
3.002	S8062	14.4	OK
1.005	S8063	47.5	OK
1.006	S8073	52.7	OK
1.007	S7022 Headwall	52.4	OK*
1.008	S7023 Headwall	52.0	OK*
1.009	S7024 Control Chamber	8.0	OK
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Summary Wizard of 720 minute 30 year Winter I+0% for Surface Network 6

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 Coefficient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

Number of Input Hydrographs	0	Number of Storage Structures	1
Number of Online Controls	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	0.400
Region England and Wales	Cv (Summer)		0.750
M5-60 (mm)	20.000	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 / Overflow Cap. (l/s)	Half Drain Time (mins)
1.000		S8045	58 99.057	-0.283	0.000	0.01	
1.001		S8046	58 97.710	-0.410	0.000	0.02	
2.000		S8042	58 98.224	-0.266	0.000	0.03	
2.001		S8043	58 97.667	-0.253	0.000	0.06	
1.002		S8170	58 97.184	-0.395	0.000	0.04	
1.003		S7016	58 96.263	-0.392	0.000	0.04	
1.004		S7019	58 95.040	-0.455	0.000	0.04	
3.000		S8070	58 95.482	-0.251	0.000	0.06	
4.000		S8072	58 96.822	-0.278	0.000	0.02	
3.001		S8071	58 95.077	-0.483	0.000	0.02	
3.002		S8062	58 94.208	-0.447	0.000	0.04	
1.005		S8063	58 94.158	-0.398	0.000	0.25	
1.006		S8073	56 94.032	-0.483	0.000	0.13	
1.007	S7022 Headwall	47	94.030	-0.395	0.000	0.14	
1.008	S7023 Headwall	35	94.028	-0.272	0.000	0.13	
1.009	S7024 Control Chamber	25	94.028	-0.022	0.000	0.03	

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Summary Wizard of 960 minute 30 year Winter I+0% for Surface Network 6

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 Coefficient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

Number of Input Hydrographs	0	Number of Storage Structures	1
Number of Online Controls	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	0.400
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	20.000	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	Surcharged	Flooded	Flow / Overflow Cap.	Half Drain Time (mins)
			Level (m)	Depth (m)	Volume (m³)		
1.000		S8045	60 99.053	-0.287	0.000	0.01	
1.001		S8046	60 97.702	-0.418	0.000	0.01	
2.000		S8042	60 98.221	-0.269	0.000	0.02	
2.001		S8043	60 97.662	-0.258	0.000	0.05	
1.002		S8170	60 97.179	-0.400	0.000	0.03	
1.003		S7016	60 96.257	-0.398	0.000	0.03	
1.004		S7019	60 95.033	-0.462	0.000	0.04	
3.000		S8070	60 95.476	-0.256	0.000	0.05	
4.000		S8072	60 96.818	-0.282	0.000	0.01	
3.001		S8071	60 95.068	-0.492	0.000	0.01	
3.002		S8062	60 94.196	-0.459	0.000	0.03	
1.005		S8063	60 94.137	-0.420	0.000	0.20	
1.006		S8073	59 94.022	-0.493	0.000	0.10	
1.007	S7022 Headwall	48 94.020	-0.405	0.000	0.11		
1.008	S7023 Headwall	36 94.018	-0.282	0.000	0.10		
1.009	S7024 Control Chamber	27 94.018	-0.032	0.000	0.03		

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Summary Wizard of 1440 minute 30 year Winter I+0% for Surface Network 6

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 Coefficient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

Number of Input Hydrographs	0	Number of Storage Structures	1
Number of Online Controls	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	0.400
Region England and Wales	Cv (Summer)		0.750
M5-60 (mm)	20.000	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 / Overflow Cap. (l/s)	Half Drain Time (mins)
1.000		S8045	66 99.050	-0.290	0.000	0.01	
1.001		S8046	66 97.693	-0.427	0.000	0.01	
2.000		S8042	66 98.215	-0.275	0.000	0.02	
2.001		S8043	66 97.656	-0.264	0.000	0.04	
1.002		S8170	66 97.174	-0.405	0.000	0.02	
1.003		S7016	66 96.251	-0.404	0.000	0.02	
1.004		S7019	66 95.026	-0.469	0.000	0.03	
3.000		S8070	66 95.470	-0.263	0.000	0.04	
4.000		S8072	66 96.813	-0.287	0.000	0.01	
3.001		S8071	66 95.059	-0.501	0.000	0.01	
3.002		S8062	66 94.185	-0.470	0.000	0.02	
1.005		S8063	66 94.107	-0.449	0.000	0.14	
1.006		S8073	63 93.999	-0.516	0.000	0.07	
1.007	S7022 Headwall	51 93.994	-0.431	0.000	0.08		
1.008	S7023 Headwall	42 93.993	-0.307	0.000	0.08		
1.009	S7024 Control Chamber	30 93.992	-0.058	0.000	0.03		

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<u>Summary Wizard of 1440 minute 30 year Winter I+0% for Surface Network 6</u>				
PN	US/MH Name	Pipe Flow (l/s)	Status	
1.000		S8045 1.1	OK	
1.001		S8046 4.2	OK	
2.000		S8042 2.2	OK	
2.001		S8043 4.1	OK	
1.002		S8170 8.6	OK	
1.003		S7016 11.0	OK	
1.004		S7019 14.6	OK	
3.000		S8070 2.5	OK	
4.000		S8072 2.2	OK	
3.001		S8071 4.8	OK	
3.002		S8062 7.3	OK	
1.005		S8063 23.9	OK	
1.006		S8073 26.5	OK	
1.007	S7022 Headwall	26.5	OK*	
1.008	S7023 Headwall	26.2	OK*	
1.009	S7024 Control Chamber	8.0	OK	
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Climate Change (%)		0, 0, 40																																																																																																																																																																																																			
<table><tr><th rowspan="2">PN</th><th rowspan="2">US/MH Name</th><th rowspan="2">Storm Rank</th><th colspan="2">Water Level</th><th colspan="2">Surcharged Depth</th><th colspan="2">Flooded Volume</th><th colspan="2">Half Drain Flow / Overflow</th><th rowspan="2">Time (mins)</th></tr><tr><th>Rank</th><th>(m)</th><th>Depth (m)</th><th>Volume (m³)</th><th>Cap.</th><th>(l/s)</th></tr><tr><td>1.000</td><td></td><td>S8045</td><td>14</td><td>99.098</td><td>-0.242</td><td>0.000</td><td>0.08</td><td></td><td></td><td></td></tr><tr><td>1.001</td><td></td><td>S8046</td><td>14</td><td>97.779</td><td>-0.341</td><td>0.000</td><td>0.13</td><td></td><td></td><td></td></tr><tr><td>2.000</td><td></td><td>S8042</td><td>14</td><td>98.285</td><td>-0.205</td><td>0.000</td><td>0.22</td><td></td><td></td><td></td></tr><tr><td>2.001</td><td></td><td>S8043</td><td>14</td><td>97.758</td><td>-0.162</td><td>0.000</td><td>0.43</td><td></td><td></td><td></td></tr><tr><td>1.002</td><td></td><td>S8170</td><td>14</td><td>97.285</td><td>-0.294</td><td>0.000</td><td>0.26</td><td></td><td></td><td></td></tr><tr><td>1.003</td><td></td><td>S7016</td><td>14</td><td>96.369</td><td>-0.286</td><td>0.000</td><td>0.29</td><td></td><td></td><td></td></tr><tr><td>1.004</td><td></td><td>S7019</td><td>14</td><td>95.172</td><td>-0.323</td><td>0.000</td><td>0.32</td><td></td><td></td><td></td></tr><tr><td>3.000</td><td></td><td>S8070</td><td>14</td><td>95.576</td><td>-0.156</td><td>0.000</td><td>0.47</td><td></td><td></td><td></td></tr><tr><td>4.000</td><td></td><td>S8072</td><td>14</td><td>96.867</td><td>-0.233</td><td>0.000</td><td>0.11</td><td></td><td></td><td></td></tr><tr><td>3.001</td><td></td><td>S8071</td><td>14</td><td>95.156</td><td>-0.404</td><td>0.000</td><td>0.12</td><td></td><td></td><td></td></tr><tr><td>3.002</td><td></td><td>S8062</td><td>13</td><td>94.589</td><td>-0.066</td><td>0.000</td><td>0.29</td><td></td><td></td><td></td></tr><tr><td>1.005</td><td></td><td>S8063</td><td>13</td><td>94.563</td><td>0.007</td><td>0.000</td><td>1.78</td><td></td><td></td><td></td></tr><tr><td>1.006</td><td></td><td>S8073</td><td>13</td><td>94.459</td><td>-0.056</td><td>0.000</td><td>0.91</td><td></td><td></td><td></td></tr><tr><td>1.007</td><td>S7022</td><td>Headwall</td><td>19</td><td>94.337</td><td>-0.088</td><td>0.000</td><td>1.00</td><td></td><td></td><td></td></tr><tr><td>1.008</td><td>S7023</td><td>Headwall</td><td>27</td><td>94.253</td><td>-0.047</td><td>0.000</td><td>0.92</td><td></td><td></td><td></td></tr><tr><td>1.009</td><td>S7024</td><td>Control Chamber</td><td>16</td><td>94.251</td><td>0.201</td><td>0.000</td><td>0.03</td><td></td><td></td><td></td></tr></table>				PN	US/MH Name	Storm Rank	Water Level		Surcharged Depth		Flooded Volume		Half Drain Flow / Overflow		Time (mins)	Rank	(m)	Depth (m)	Volume (m³)	Cap.	(l/s)	1.000		S8045	14	99.098	-0.242	0.000	0.08				1.001		S8046	14	97.779	-0.341	0.000	0.13				2.000		S8042	14	98.285	-0.205	0.000	0.22				2.001		S8043	14	97.758	-0.162	0.000	0.43				1.002		S8170	14	97.285	-0.294	0.000	0.26				1.003		S7016	14	96.369	-0.286	0.000	0.29				1.004		S7019	14	95.172	-0.323	0.000	0.32				3.000		S8070	14	95.576	-0.156	0.000	0.47				4.000		S8072	14	96.867	-0.233	0.000	0.11				3.001		S8071	14	95.156	-0.404	0.000	0.12				3.002		S8062	13	94.589	-0.066	0.000	0.29				1.005		S8063	13	94.563	0.007	0.000	1.78				1.006		S8073	13	94.459	-0.056	0.000	0.91				1.007	S7022	Headwall	19	94.337	-0.088	0.000	1.00				1.008	S7023	Headwall	27	94.253	-0.047	0.000	0.92				1.009	S7024	Control Chamber	16	94.251	0.201	0.000	0.03			
PN	US/MH Name	Storm Rank	Water Level				Surcharged Depth		Flooded Volume		Half Drain Flow / Overflow		Time (mins)																																																																																																																																																																																								
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1.007	S7022	Headwall	19	94.337	-0.088	0.000	1.00																																																																																																																																																																																														
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Date 13/11/2025 10:57	Designed by d_southa			
File PH7B - FITCHETT STORM. ...	Checked by			
Innovyze		Network 2020.1.3		
<u>Summary Wizard of 120 minute 100 year Winter I+40% for Surface Network 6</u>				
PN	US/MH Name	Pipe Flow (l/s)	Status	
1.000		S8045 13.1	OK	
1.001		S8046 51.9	OK	
2.000		S8042 27.3	OK	
2.001		S8043 50.6	OK	
1.002		S8170 107.1	OK	
1.003		S7016 135.7	OK	
1.004		S7019 180.5	OK	
3.000		S8070 31.1	OK	
4.000		S8072 26.7	OK	
3.001		S8071 59.3	OK	
3.002		S8062 89.6	OK	
1.005		S8063 295.7	SURCHARGED	
1.006		S8073 325.7	OK	
1.007	S7022 Headwall	320.6	OK*	
1.008	S7023 Headwall	320.6	OK*	
1.009	S7024 Control Chamber	8.0	SURCHARGED	
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Summary Wizard of 180 minute 100 year Winter I+40% for Surface Network 6

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 Coefficient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

Number of Input Hydrographs	0	Number of Storage Structures	1
Number of Online Controls	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	0.400
Region England and Wales	Cv (Summer)		0.750
M5-60 (mm)	20.000	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)

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

PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded	Flow / Overflow Cap.	Half Drain Time (mins)
			Level (m)	Depth (m)	Volume (m³)		
1.000		S8045	17 99.089	-0.251	0.000	0.06	
1.001		S8046	17 97.765	-0.355	0.000	0.10	
2.000		S8042	17 98.271	-0.219	0.000	0.16	
2.001		S8043	17 97.737	-0.183	0.000	0.32	
1.002		S8170	17 97.263	-0.316	0.000	0.19	
1.003		S7016	17 96.346	-0.309	0.000	0.21	
1.004		S7019	17 95.142	-0.353	0.000	0.23	
3.000		S8070	17 95.554	-0.178	0.000	0.35	
4.000		S8072	17 96.858	-0.242	0.000	0.08	
3.001		S8071	17 95.141	-0.419	0.000	0.09	
3.002		S8062	17 94.576	-0.079	0.000	0.21	
1.005		S8063	18 94.556	0.000	0.000	1.33	
1.006		S8073	24 94.314	-0.201	0.000	0.68	
1.007	S7022 Headwall	24	94.306	-0.119	0.000	0.76	
1.008	S7023 Headwall	23	94.300	0.000	0.000	0.70	
1.009	S7024 Control Chamber	12	94.297	0.247	0.000	0.03	

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<u>Summary Wizard of 180 minute 100 year Winter I+40% for Surface Network 6</u>				
PN	US/MH Name	Pipe Flow (l/s)	Status	
1.000		S8045 9.7	OK	
1.001		S8046 38.6	OK	
2.000		S8042 20.4	OK	
2.001		S8043 37.6	OK	
1.002		S8170 79.6	OK	
1.003		S7016 100.9	OK	
1.004		S7019 134.2	OK	
3.000		S8070 23.2	OK	
4.000		S8072 19.9	OK	
3.001		S8071 44.2	OK	
3.002		S8062 66.7	OK	
1.005		S8063 220.0	OK	
1.006		S8073 243.3	OK	
1.007	S7022 Headwall	243.6	OK*	
1.008	S7023 Headwall	243.3	OK*	
1.009	S7024 Control Chamber	8.0	SURCHARGED	
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Summary Wizard of 240 minute 100 year Winter I+40% for Surface Network 6

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	0.400
Region England and Wales	Cv (Summer)		0.750
M5-60 (mm)	20.000	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)

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

PN	US/MH Name	Storm Rank	Water Surcharged Flooded			Half Drain	
			Level (m)	Depth (m)	Volume (m³)	Flow / Overflow Cap. (l/s)	Time (mins)
1.000		S8045	22 99.083	-0.257	0.000	0.05	
1.001		S8046	21 97.754	-0.366	0.000	0.08	
2.000		S8042	22 98.262	-0.228	0.000	0.13	
2.001		S8043	21 97.723	-0.197	0.000	0.26	
1.002		S8170	21 97.247	-0.332	0.000	0.16	
1.003		S7016	21 96.329	-0.326	0.000	0.17	
1.004		S7019	20 95.123	-0.372	0.000	0.19	
3.000		S8070	22 95.540	-0.193	0.000	0.28	
4.000		S8072	22 96.851	-0.249	0.000	0.07	
3.001		S8071	22 95.127	-0.433	0.000	0.07	
3.002		S8062	19 94.572	-0.083	0.000	0.17	
1.005		S8063	17 94.556	0.000	0.000	1.04	
1.006		S8073	22 94.334	-0.181	0.000	0.54	
1.007	S7022	Headwall	20 94.330	-0.095	0.000	0.59	
1.008	S7023	Headwall	18 94.326	0.026	0.000	0.54	
1.009	S7024	Control Chamber	7 94.325	0.275	0.000	0.03	

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Innovyze		Network 2020.1.3		
<u>Summary Wizard of 360 minute 100 year Winter I+40% for Surface Network 6</u>				
PN	US/MH Name	Pipe Flow (l/s)	Status	
1.000		S8045 5.7	OK	
1.001		S8046 22.4	OK	
2.000		S8042 11.8	OK	
2.001		S8043 21.9	OK	
1.002		S8170 46.3	OK	
1.003		S7016 58.7	OK	
1.004		S7019 78.1	OK	
3.000		S8070 13.5	OK	
4.000		S8072 11.5	OK	
3.001		S8071 25.7	OK	
3.002		S8062 38.8	OK	
1.005		S8063 128.1	OK	
1.006		S8073 141.8	OK	
1.007	S7022 Headwall	140.4	OK*	
1.008	S7023 Headwall	138.1	SURCHARGED*	
1.009	S7024 Control Chamber	8.0	SURCHARGED	
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Summary Wizard of 480 minute 100 year Winter I+40% for Surface Network 6

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 Coefficient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

Number of Input Hydrographs	0	Number of Storage Structures	1
Number of Online Controls	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	0.400
Region England and Wales Cv (Summer)	0.750		
M5-60 (mm)	20.000	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 / Overflow Cap. (l/s)	Half Drain Time (mins)
1.000		S8045	34 99.074	-0.266	0.000	0.03	
1.001		S8046	34 97.732	-0.388	0.000	0.05	
2.000		S8042	34 98.244	-0.246	0.000	0.08	
2.001		S8043	34 97.697	-0.223	0.000	0.15	
1.002		S8170	34 97.220	-0.359	0.000	0.09	
1.003		S7016	34 96.299	-0.356	0.000	0.10	
1.004		S7019	34 95.085	-0.410	0.000	0.11	
3.000		S8070	34 95.512	-0.220	0.000	0.16	
4.000		S8072	34 96.838	-0.262	0.000	0.04	
3.001		S8071	34 95.103	-0.457	0.000	0.04	
3.002		S8062	30 94.390	-0.265	0.000	0.10	
1.005		S8063	30 94.389	-0.168	0.000	0.61	
1.006		S8073	18 94.386	-0.129	0.000	0.32	
1.007	S7022 Headwall	15	94.384	-0.041	0.000	0.35	
1.008	S7023 Headwall	9	94.375	0.075	0.000	0.32	
1.009	S7024 Control Chamber	4	94.378	0.328	0.000	0.03	

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<u>Summary Wizard of 480 minute 100 year Winter I+40% for Surface Network 6</u>				
PN	US/MH Name	Pipe Flow (l/s)	Status	
1.000		S8045 4.5	OK	
1.001		S8046 17.9	OK	
2.000		S8042 9.4	OK	
2.001		S8043 17.4	OK	
1.002		S8170 36.9	OK	
1.003		S7016 46.8	OK	
1.004		S7019 62.2	OK	
3.000		S8070 10.7	OK	
4.000		S8072 9.2	OK	
3.001		S8071 20.5	OK	
3.002		S8062 31.0	OK	
1.005		S8063 102.1	OK	
1.006		S8073 113.0	OK	
1.007	S7022 Headwall	111.6	OK*	
1.008	S7023 Headwall	109.6	SURCHARGED*	
1.009	S7024 Control Chamber	8.0	SURCHARGED	
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<u>Summary Wizard of 600 minute 100 year Winter I+40% for Surface Network 6</u>				
PN	US/MH Name	Pipe Flow (l/s)	Status	
1.000		S8045 3.8	OK	
1.001		S8046 15.0	OK	
2.000		S8042 7.9	OK	
2.001		S8043 14.6	OK	
1.002		S8170 30.9	OK	
1.003		S7016 39.2	OK	
1.004		S7019 52.1	OK	
3.000		S8070 9.0	OK	
4.000		S8072 7.7	OK	
3.001		S8071 17.2	OK	
3.002		S8062 25.9	OK	
1.005		S8063 85.5	OK	
1.006		S8073 94.6	OK	
1.007	S7022 Headwall	93.4	OK*	
1.008	S7023 Headwall	91.7	SURCHARGED*	
1.009	S7024 Control Chamber	8.0	SURCHARGED	
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Summary Wizard of 720 minute 100 year Winter I+40% for Surface Network 6

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	0.400
Region England and Wales	Cv (Summer)		0.750
M5-60 (mm)	20.000	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 / Overflow Cap. (l/s)	Half Drain Time (mins)
1.000		S8045	42 99.070	-0.270	0.000	0.02	
1.001		S8046	42 97.723	-0.397	0.000	0.03	
2.000		S8042	42 98.235	-0.255	0.000	0.05	
2.001		S8043	42 97.686	-0.234	0.000	0.11	
1.002		S8170	42 97.204	-0.375	0.000	0.07	
1.003		S7016	42 96.284	-0.371	0.000	0.07	
1.004		S7019	42 95.068	-0.427	0.000	0.08	
3.000		S8070	42 95.500	-0.232	0.000	0.12	
4.000		S8072	42 96.833	-0.267	0.000	0.03	
3.001		S8071	42 95.094	-0.466	0.000	0.03	
3.002		S8062	27 94.403	-0.252	0.000	0.07	
1.005		S8063	26 94.402	-0.154	0.000	0.45	
1.006		S8073	16 94.400	-0.115	0.000	0.23	
1.007	S7022	Headwall	13 94.398	-0.027	0.000	0.25	
1.008	S7023	Headwall	11 94.375	0.075	0.000	0.23	
1.009	S7024	Control Chamber	2 94.394	0.344	0.000	0.03	

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Summary Wizard of 720 minute 100 year Winter I+40% for Surface Network 6

PN	US/MH Name	Pipe Flow (l/s)	Status
1.000		S8045 3.3	OK
1.001		S8046 13.0	OK
2.000		S8042 6.8	OK
2.001		S8043 12.6	OK
1.002		S8170 26.8	OK
1.003		S7016 33.9	OK
1.004		S7019 45.1	OK
3.000		S8070 7.8	OK
4.000		S8072 6.7	OK
3.001		S8071 14.9	OK
3.002		S8062 22.4	OK
1.005		S8063 74.0	OK
1.006		S8073 81.8	OK
1.007	S7022 Headwall	80.7	OK*
1.008	S7023 Headwall	79.3	SURCHARGED*
1.009	S7024 Control Chamber	8.0	SURCHARGED

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Summary Wizard of 960 minute 100 year Winter I+40% for Surface Network 6

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	0.400
Region England and Wales	Cv (Summer)		0.750
M5-60 (mm)	20.000	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 / Overflow Cap. (l/s)	Half Drain Time (mins)
1.000		S8045	47 99.064	-0.276	0.000	0.02	
1.001		S8046	47 97.719	-0.401	0.000	0.03	
2.000		S8042	47 98.230	-0.260	0.000	0.04	
2.001		S8043	47 97.679	-0.241	0.000	0.09	
1.002		S8170	47 97.195	-0.384	0.000	0.05	
1.003		S7016	47 96.274	-0.381	0.000	0.06	
1.004		S7019	47 95.055	-0.440	0.000	0.06	
3.000		S8070	47 95.493	-0.239	0.000	0.09	
4.000		S8072	47 96.831	-0.269	0.000	0.02	
3.001		S8071	47 95.090	-0.470	0.000	0.02	
3.002		S8062	28 94.403	-0.252	0.000	0.06	
1.005		S8063	27 94.402	-0.154	0.000	0.35	
1.006		S8073	15 94.401	-0.114	0.000	0.18	
1.007	S7022	Headwall	12 94.399	-0.026	0.000	0.20	
1.008	S7023	Headwall	3 94.375	0.075	0.000	0.18	
1.009	S7024	Control Chamber	1 94.395	0.345	0.000	0.03	

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<u>Summary Wizard of 960 minute 100 year Winter I+40% for Surface Network 6</u>			
PN	US/MH Name	Pipe Flow (l/s)	Status
1.000		S8045 2.6	OK
1.001		S8046 10.3	OK
2.000		S8042 5.4	OK
2.001		S8043 10.0	OK
1.002		S8170 21.3	OK
1.003		S7016 26.9	OK
1.004		S7019 35.9	OK
3.000		S8070 6.2	OK
4.000		S8072 5.3	OK
3.001		S8071 11.8	OK
3.002		S8062 17.8	OK
1.005		S8063 58.7	OK
1.006		S8073 65.0	OK
1.007	S7022 Headwall	64.1	OK*
1.008	S7023 Headwall	63.0	SURCHARGED*
1.009	S7024 Control Chamber	8.0	SURCHARGED
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Summary Wizard of 1440 minute 100 year Winter I+40% for Surface Network 6

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	0.400
Region England and Wales Cv (Summer)	0.750		
M5-60 (mm)	20.000	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 / Overflow Cap. (l/s)	Half Drain Time (mins)
1.000		S8045	57 99.057	-0.283	0.000	0.01	
1.001		S8046	57 97.711	-0.409	0.000	0.02	
2.000		S8042	57 98.225	-0.265	0.000	0.03	
2.001		S8043	57 97.668	-0.252	0.000	0.06	
1.002		S8170	57 97.185	-0.394	0.000	0.04	
1.003		S7016	57 96.263	-0.392	0.000	0.04	
1.004		S7019	57 95.041	-0.454	0.000	0.05	
3.000		S8070	57 95.483	-0.250	0.000	0.07	
4.000		S8072	57 96.823	-0.277	0.000	0.02	
3.001		S8071	57 95.078	-0.482	0.000	0.02	
3.002		S8062	32 94.381	-0.274	0.000	0.04	
1.005		S8063	31 94.381	-0.176	0.000	0.26	
1.006		S8073	19 94.379	-0.136	0.000	0.13	
1.007	S7022 Headwall	16	94.378	-0.047	0.000	0.14	
1.008	S7023 Headwall	1	94.375	0.075	0.000	0.13	
1.009	S7024 Control Chamber	5	94.376	0.326	0.000	0.03	

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