

SGi Consulting		Page 1
4th Floor, Colchester House 40 Peter Street Manchester, M2 5GP		
Date 20/12/2024 09:46	Designed by sgicivils	
File SW Network 3 Drainage S...	Checked by	
Micro Drainage		Network 2020.1.3

STORM SEWER DESIGN by the Modified Rational Method

Design Criteria for Storm

Pipe Sizes STANDARD Manhole Sizes STANDARD

FSR Rainfall Model - England and Wales

Return Period (years)	100	PIMP (%)	100
M5-60 (mm)	19.000	Add Flow / Climate Change (%)	0
Ratio R	0.280	Minimum Backdrop Height (m)	0.200
Maximum Rainfall (mm/hr)	50	Maximum Backdrop Height (m)	1.500
Maximum Time of Concentration (mins)	30	Min Design Depth for Optimisation (m)	1.200
Foul Sewage (l/s/ha)	0.000	Min Vel for Auto Design only (m/s)	1.00
Volumetric Runoff Coeff.	1.000	Min Slope for Optimisation (1:X)	500

Designed with Level Soffits

Time Area Diagram for Storm

Time (mins)	Area (ha)	Time (mins)	Area (ha)
0-4	0.181	4-8	0.057

Total Area Contributing (ha) = 0.238

Total Pipe Volume (m³) = 93.339

Network Design Table for Storm

PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	n	HYD SECT	DIA (mm)	Section Type	Auto Design
1.000	34.298	0.230	149.1	0.052	5.00	0.0	0.600		o	225	Pipe/Conduit	
1.001	15.189	0.100	151.9	0.012	0.00	0.0	0.600		o	225	Pipe/Conduit	
1.002	21.065	0.105	200.6	0.027	0.00	0.0	0.600		o	300	Pipe/Conduit	
2.000	9.300	0.030	310.0	0.002	5.00	0.0		0.050 →[1]			Cellular Storage	
1.003	35.153	0.235	149.6	0.104	0.00	0.0	0.600		o	300	Pipe/Conduit	

Network Results Table

PN	Rain (mm/hr)	T.C. (mins)	US/IL (m)	Σ I.Area (ha)	Σ Base Flow (l/s)	Foul (l/s)	Add Flow (l/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)
1.000	50.00	5.54	29.000	0.052	0.0	0.0	0.0	1.07	42.5	9.4
1.001	50.00	5.77	28.770	0.064	0.0	0.0	0.0	1.06	42.1	11.6
1.002	50.00	6.09	28.595	0.091	0.0	0.0	0.0	1.11	78.2	16.4
2.000	50.00	5.22	27.800	0.002	0.0	0.0	0.0	0.71	6549.7	0.4
1.003	50.00	6.55	27.770	0.197	0.0	0.0	0.0	1.28	90.7	35.6

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Micro Drainage						Network 2020.1.3							
Network Design Table for Storm													
PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	n	HYD SECT	DIA (mm)	Section Type	Auto Design	
3.000	9.989	0.100	99.9	0.022	5.00	0.0	0.600		o	150	Pipe/Conduit		
3.001	14.722	1.215	12.1	0.019	0.00	0.0	0.600		o	300	Pipe/Conduit		
1.004	16.206	1.535	10.6	0.000	0.00	0.0	0.600		o	225	Pipe/Conduit		
Network Results Table													
PN	Rain (mm/hr)	T.C. (mins)	US/IL (m)	Σ I.Area (ha)	Σ Base Flow (l/s)	Foul (l/s)	Add Flow (l/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)			
3.000	50.00	5.17	29.000	0.022	0.0	0.0	0.0	1.01	17.8	4.0			
3.001	50.00	5.22	28.750	0.041	0.0	0.0	0.0	4.54	321.0	7.4			
1.004	50.00	6.61	27.535	0.238	0.0	0.0	0.0	4.05	161.0	43.0			
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Manhole Schedules for Storm										
MH Name	MH CL (m)	MH Depth (m)	MH Connection	MH Diam.,L*W (mm)	PN	Pipe Out Invert Level (m)	Diameter (mm)	PN	Pipes In Invert Level (m)	Diameter (mm)
S2000	29.931	0.931	Open Manhole	600	1.000	29.000	225			
S2001	29.950	1.180	Open Manhole	600	1.001	28.770	225	1.000	28.770	225
S2002	29.382	0.787	Open Manhole	600	1.002	28.595	300	1.001	28.670	225
Tank	29.140	1.340	Open Manhole	1	2.000	27.800				
S2003	29.220	1.450	Open Manhole	1200	1.003	27.770	300	1.002	28.490	300
								2.000	27.770	
S2200	29.815	0.815	Open Manhole	1	3.000	29.000	150			
S2100	29.140	0.390	Open Manhole	600	3.001	28.750	300	3.000	28.900	150
S2004	29.140	1.605	Open Manhole	1500	1.004	27.535	225	1.003	27.535	300
								3.001	27.535	300
	28.134	2.134	Open Manhole	0		OUTFALL		1.004	26.000	225

MH Name	Manhole Easting (m)	Manhole Northing (m)	Intersection Easting (m)	Intersection Northing (m)	Manhole Access	Layout (North)
S2000	382659.884	395181.237	382659.884	395181.237	Required	
S2001	382635.659	395156.957	382635.659	395156.957	Required	
S2002	382624.931	395146.205	382624.931	395146.205	Required	
Tank	382646.427	395124.758	382646.427	395124.758	Required	
S2003	382639.843	395131.327	382639.843	395131.327	Required	
S2200	382682.142	395159.578	382682.142	395159.578	Required	
S2100	382675.070	395166.634	382675.070	395166.634	Required	
S2004	382664.672	395156.212	382664.672	395156.212	Required	
	382676.145	395144.766			No Entry	

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PIPELINE SCHEDULES for Storm

Upstream Manhole

PN	Hyd Sect	Diam (mm)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
1.000	o	225	S2000	29.931	29.000	0.706	Open Manhole	600
1.001	o	225	S2001	29.950	28.770	0.955	Open Manhole	600
1.002	o	300	S2002	29.382	28.595	0.487	Open Manhole	600
2.000	→[↓]		Tank	29.140	27.800	0.139	Open Manhole	1
1.003	o	300	S2003	29.220	27.770	1.150	Open Manhole	1200
3.000	o	150	S2200	29.815	29.000	0.665	Open Manhole	1
3.001	o	300	S2100	29.140	28.750	0.090	Open Manhole	600
1.004	o	225	S2004	29.140	27.535	1.380	Open Manhole	1500

Downstream Manhole

PN	Length (m)	Slope (1:X)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
1.000	34.298	149.1	S2001	29.950	28.770	0.955	Open Manhole	600
1.001	15.189	151.9	S2002	29.382	28.670	0.487	Open Manhole	600
1.002	21.065	200.6	S2003	29.220	28.490	0.430	Open Manhole	1200
2.000	9.300	310.0	S2003	29.220	27.770	0.249	Open Manhole	1200
1.003	35.153	149.6	S2004	29.140	27.535	1.305	Open Manhole	1500
3.000	9.989	99.9	S2100	29.140	28.900	0.090	Open Manhole	600
3.001	14.722	12.1	S2004	29.140	27.535	1.305	Open Manhole	1500
1.004	16.206	10.6		28.134	26.000	1.909	Open Manhole	0

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Area Summary for Storm

Pipe Number	PIMP Type	PIMP Name	PIMP (%)	Gross Area (ha)	Imp. Area (ha)	Pipe Total (ha)
1.000	-	-	100	0.052	0.052	0.052
1.001	-	-	100	0.012	0.012	0.012
1.002	-	-	100	0.027	0.027	0.027
2.000	-	-	100	0.002	0.002	0.002
1.003	-	-	100	0.104	0.104	0.104
3.000	-	-	100	0.022	0.022	0.022
3.001	-	-	100	0.019	0.019	0.019
1.004	-	-	100	0.000	0.000	0.000
				Total	Total	Total
				0.238	0.238	0.238

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Online Controls for Storm

Hydro-Brake® Optimum Manhole: S2004, DS/PN: 1.004, Volume (m³): 6.2

Unit Reference	MD-SCU-0126-2000-1605-2000
Design Head (m)	1.605
Design Flow (l/s)	20.0
Flush-Flo™	Calculated
Objective	Linear discharge profile
Application	Surface
Sump Available	Yes
Diameter (mm)	126
Invert Level (m)	27.535
Minimum Outlet Pipe Diameter (mm)	150
Suggested Manhole Diameter (mm)	1200

Control Points	Head (m)	Flow (l/s)
Design Point (Calculated)	1.605	20.0
Flush-Flo™	0.154	7.4
Kick-Flo®	0.188	7.3
Mean Flow over Head Range	-	13.5

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

Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)
0.100	5.0	1.200	17.4	3.000	27.0	7.000	40.7
0.200	7.5	1.400	18.7	3.500	29.1	7.500	42.1
0.300	9.0	1.600	20.0	4.000	31.0	8.000	43.4
0.400	10.3	1.800	21.1	4.500	32.8	8.500	44.7
0.500	11.5	2.000	22.2	5.000	34.6	9.000	46.0
0.600	12.5	2.200	23.3	5.500	36.2	9.500	47.2
0.800	14.4	2.400	24.3	6.000	37.7		
1.000	16.0	2.600	25.2	6.500	39.2		

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Storage Structures for Storm Cellular Storage Pipe: 2.000 Manning's N0.050Infiltration Coefficient Side (m/hr)0.00000 Invert Level (m)27.800Safety Factor1.0 Infiltration Coefficient Base (m/hr)0.00000Porosity0.95 <table><thead><tr><th>Depth (m)</th><th>Area (m²)</th><th>Inf. Area (m²)</th><th>Depth (m)</th><th>Area (m²)</th><th>Inf. Area (m²)</th></tr></thead><tbody><tr><td>0.000</td><td>75.0</td><td>0.0</td><td>1.201</td><td>0.0</td><td>0.0</td></tr><tr><td>1.200</td><td>75.0</td><td>0.0</td><td></td><td></td><td></td></tr></tbody></table> Volume Summary (Static) Length Calculations based on Centre-Centre <table><thead><tr><th>Pipe Number</th><th>USMH Name</th><th>Manhole Volume (m³)</th><th>Pipe Volume (m³)</th><th>Storage Structure Volume (m³)</th><th>Total Volume (m³)</th></tr></thead><tbody><tr><td>1.000</td><td>S2000</td><td>0.263</td><td>1.364</td><td>0.000</td><td>1.627</td></tr><tr><td>1.001</td><td>S2001</td><td>0.334</td><td>0.604</td><td>0.000</td><td>0.938</td></tr><tr><td>1.002</td><td>S2002</td><td>0.223</td><td>1.489</td><td>0.000</td><td>1.712</td></tr><tr><td>2.000</td><td>Tank</td><td>0.000</td><td>85.536</td><td>0.000</td><td>85.536</td></tr><tr><td>1.003</td><td>S2003</td><td>1.640</td><td>2.485</td><td>0.000</td><td>4.125</td></tr><tr><td>3.000</td><td>S2200</td><td>0.000</td><td>0.177</td><td>0.000</td><td>0.177</td></tr><tr><td>3.001</td><td>S2100</td><td>0.110</td><td>1.041</td><td>0.000</td><td>1.151</td></tr><tr><td>1.004</td><td>S2004</td><td>2.836</td><td>0.644</td><td>0.000</td><td>3.481</td></tr><tr><td>Total</td><td></td><td>5.406</td><td>93.339</td><td>0.000</td><td>98.744</td></tr></tbody></table> Volume Summary (Static) Length Calculations based on True Length <table><thead><tr><th>Pipe Number</th><th>USMH Name</th><th>Manhole Volume (m³)</th><th>Pipe Volume (m³)</th><th>Storage Structure Volume (m³)</th><th>Total Volume (m³)</th></tr></thead><tbody><tr><td>1.000</td><td>S2000</td><td>0.263</td><td>1.340</td><td>0.000</td><td>1.603</td></tr><tr><td>1.001</td><td>S2001</td><td>0.334</td><td>0.580</td><td>0.000</td><td>0.914</td></tr><tr><td>1.002</td><td>S2002</td><td>0.223</td><td>1.425</td><td>0.000</td><td>1.648</td></tr><tr><td>2.000</td><td>Tank</td><td>0.000</td><td>80.013</td><td>0.000</td><td>80.013</td></tr><tr><td>1.003</td><td>S2003</td><td>1.640</td><td>2.389</td><td>0.000</td><td>4.029</td></tr><tr><td>3.000</td><td>S2200</td><td>0.000</td><td>0.171</td><td>0.000</td><td>0.171</td></tr><tr><td>3.001</td><td>S2100</td><td>0.110</td><td>0.966</td><td>0.000</td><td>1.077</td></tr><tr><td>1.004</td><td>S2004</td><td>2.836</td><td>0.615</td><td>0.000</td><td>3.451</td></tr><tr><td>Total</td><td></td><td>5.406</td><td>87.499</td><td>0.000</td><td>92.905</td></tr></tbody></table> ©1982-2020 Innovyze						Depth (m)	Area (m²)	Inf. Area (m²)	Depth (m)	Area (m²)	Inf. Area (m²)	0.000	75.0	0.0	1.201	0.0	0.0	1.200	75.0	0.0				Pipe Number	USMH Name	Manhole Volume (m³)	Pipe Volume (m³)	Storage Structure Volume (m³)	Total Volume (m³)	1.000	S2000	0.263	1.364	0.000	1.627	1.001	S2001	0.334	0.604	0.000	0.938	1.002	S2002	0.223	1.489	0.000	1.712	2.000	Tank	0.000	85.536	0.000	85.536	1.003	S2003	1.640	2.485	0.000	4.125	3.000	S2200	0.000	0.177	0.000	0.177	3.001	S2100	0.110	1.041	0.000	1.151	1.004	S2004	2.836	0.644	0.000	3.481	Total		5.406	93.339	0.000	98.744	Pipe Number	USMH Name	Manhole Volume (m³)	Pipe Volume (m³)	Storage Structure Volume (m³)	Total Volume (m³)	1.000	S2000	0.263	1.340	0.000	1.603	1.001	S2001	0.334	0.580	0.000	0.914	1.002	S2002	0.223	1.425	0.000	1.648	2.000	Tank	0.000	80.013	0.000	80.013	1.003	S2003	1.640	2.389	0.000	4.029	3.000	S2200	0.000	0.171	0.000	0.171	3.001	S2100	0.110	0.966	0.000	1.077	1.004	S2004	2.836	0.615	0.000	3.451	Total		5.406	87.499	0.000	92.905
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Summary Wizard of 15 minute 1 year Summer I+0% for Storm

Simulation Criteria

Areal Reduction Factor 1.000

Additional Flow - % of Total Flow 0.000

Hot Start (mins) 0

MADD Factor * 10m³/ha Storage 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 0.280

Region England and Wales Cv (Summer) 1.000

M5-60 (mm) 19.000 Cv (Winter) 1.000

Margin for Flood Risk Warning (mm) 300.0

Analysis Timestep 2.5 Second Increment (Extended)

DTS Status OFF

DVD Status ON

Inertia 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, 2, 5, 30, 100

Climate Change (%) 0, 0, 0, 0, 45

						Water Surcharged			
PN	US/MH Name	US Label	Event	Duration (mins)	Storm Rank	US/CL (m)	Level (m)	Depth (m)	
1.000	S2000		15 minute 1 year Summer I+0%	15	30	29.931	29.067	-0.158	
1.001	S2001		15 minute 1 year Summer I+0%	15	32	29.950	28.846	-0.149	
1.002	S2002		15 minute 1 year Summer I+0%	15	33	29.382	28.681	-0.214	
2.000	Tank		15 minute 1 year Summer I+0%	15	71	29.140	27.893	-1.108	
1.003	S2003		15 minute 1 year Summer I+0%	15	71	29.220	27.893	-0.177	
3.000	S2200		15 minute 1 year Summer I+0%	15	30	29.815	29.046	-0.104	
3.001	S2100		15 minute 1 year Summer I+0%	15	33	29.140	28.780	-0.270	
1.004	S2004		15 minute 1 year Summer I+0%	15	72	29.140	27.882	0.122	

Flooded

Total

PN	US/MH Name	Volume (m³)	Flow / Overflow Cap. (l/s)	Overflow Act.	Overflow Vol (m³)	Overflow Vol (m³)	Level Exceeded	Maximum Vol (m³)
1.000	S2000	0.000	0.19					0.018
1.001	S2001	0.000	0.25					0.095
1.002	S2002	0.000	0.18					0.026
2.000	Tank	0.000	0.00					0.000
1.003	S2003	0.000	0.17					6.977

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Summary Wizard of 30 minute 1 year Summer I+0% for Storm

Flooded				Total			
PN	US/MH Name	Volume (m³)	Flow / Overflow Cap. (l/s)	Overflow Act.	Overflow Vol (m³)	Overflow Vol (m³)	Level Exceeded
3.000	S2200	0.000	0.20				0.000
3.001	S2100	0.000	0.02				0.007
1.004	S2004	0.000	0.07				2.722

		Maximum		Pipe		
		US/MH Discharge	Velocity	Flow		
PN	Name	Vol (m³)	(m/s)	(l/s)	Status	
1.000	S2000	4.663	0.8	7.3	OK	
1.001	S2001	5.739	0.8	8.8	OK	
1.002	S2002	8.160	0.7	12.0	OK	
2.000	Tank	0.179	0.0	0.3	OK	
1.003	S2003	17.048	0.9	13.9	OK	
3.000	S2200	1.973	0.7	3.1	OK	
3.001	S2100	3.677	1.9	5.5	OK	
1.004	S2004	20.613	2.3	10.0	SURCHARGED	

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Summary Wizard of 120 minute 1 year Summer I+0% for Storm

Simulation Criteria

Areal Reduction Factor 1.000

Hot Start (mins) 0

Hot Start Level (mm) 0

Manhole Headloss Coeff (Global) 0.500

Foul Sewage per hectare (l/s) 0.000

Additional Flow - % of Total Flow 0.000

MADD Factor * 10m³/ha Storage 0.000

Inlet Coefficient 0.800

Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0

Number of Online Controls 1

Number of Offline Controls 0

Number of Storage Structures 1

Number of Time/Area Diagrams 0

Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model FSR

Region England and Wales Cv

M5-60 (mm) 19.000

Ratio R 0.280

(Summer) 1.000

Cv (Winter) 1.000

Margin for Flood Risk Warning (mm) 300.0

Analysis Timestep 2.5 Second Increment (Extended)

DTS Status OFF

DVD Status ON

Inertia 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, 2, 5, 30, 100

Climate Change (%) 0, 0, 0, 0, 45

							Water	Surcharged
PN	US/MH	US		Duration	Storm	US/CL	Level	Depth
	Name	Label	Event	(mins)	Rank	(m)	(m)	(m)
1.000	S2000		120 minute 1 year Summer I+0%	120	54	29.931	29.049	-0.176
1.001	S2001		120 minute 1 year Summer I+0%	120	55	29.950	28.826	-0.169
1.002	S2002		120 minute 1 year Summer I+0%	120	56	29.382	28.660	-0.235
2.000	Tank		120 minute 1 year Summer I+0%	120	68	29.140	27.908	-1.093
1.003	S2003		120 minute 1 year Summer I+0%	120	68	29.220	27.908	-0.162
3.000	S2200		120 minute 1 year Summer I+0%	120	54	29.815	29.034	-0.116
3.001	S2100		120 minute 1 year Summer I+0%	120	56	29.140	28.768	-0.282
1.004	S2004		120 minute 1 year Summer I+0%	120	68	29.140	27.897	0.137

Flooded

US/MH

Volume

Flow /

Overflow

Overflow

Overflow

Overflow

Level

Maximum

PN

Name

(m³)

Cap.

(l/s)

Act.

Vol (m³)

Vol(m³)

Exceeded

Vol (m³)

1.000

S2000

0.000

0.11

0.012

1.001

S2001

0.000

0.14

0.068

1.002

S2002

0.000

0.11

0.019

2.000

Tank

0.000

0.00

0.000

1.003

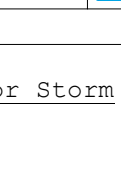
S2003

0.000

0.12

8.030

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Summary Wizard of 180 minute 1 year Summer I+0% for Storm

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	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	0.280
Region England and Wales Cv	(Summer)	1.000	
M5-60 (mm)	19.000 Cv	(Winter)	1.000

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

Profile(s)

Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 2, 5, 30, 100
Climate Change (%)	0, 0, 0, 0, 45

PN	US/MH Name	US Label	Event	Duration (mins)	Storm Rank	US/CL (m)	Water Level (m)	Surcharged Depth (m)
1.000	S2000		180 minute 1 year Summer I+0%	180	65	29.931	29.045	-0.180
1.001	S2001		180 minute 1 year Summer I+0%	180	65	29.950	28.821	-0.174
1.002	S2002		180 minute 1 year Summer I+0%	180	65	29.382	28.655	-0.240
2.000	Tank		180 minute 1 year Summer I+0%	180	76	29.140	27.888	-1.113
1.003	S2003		180 minute 1 year Summer I+0%	180	76	29.220	27.888	-0.182
3.000	S2200		180 minute 1 year Summer I+0%	180	65	29.815	29.031	-0.119
3.001	S2100		180 minute 1 year Summer I+0%	180	65	29.140	28.764	-0.286
1.004	S2004		180 minute 1 year Summer I+0%	180	76	29.140	27.877	0.117

Flooded

PN	US/MH Name	Volume (m³)	Flow / Cap.	Overflow (l/s)	Overflow Act.	Overflow Vol (m³)	Total Overflow Vol (m³)	Level Exceeded	Maximum Vol (m³)
1.000	S2000	0.000	0.09						0.011
1.001	S2001	0.000	0.11						0.061
1.002	S2002	0.000	0.09						0.017
2.000	Tank	0.000	0.00						0.000
1.003	S2003	0.000	0.11						6.638

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Summary Wizard of 240 minute 1 year Summer I+0% for Storm

Simulation Criteria

Areal Reduction Factor 1.000

Additional Flow - % of Total Flow 0.000

Hot Start (mins) 0

MADD Factor * 10m³/ha Storage 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 0.280

Region England and Wales Cv (Summer) 1.000

M5-60 (mm) 19.000 Cv (Winter) 1.000

Margin for Flood Risk Warning (mm) 300.0

Analysis Timestep 2.5 Second Increment (Extended)

DTS Status OFF

DVD Status ON

Inertia 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, 2, 5, 30, 100

Climate Change (%) 0, 0, 0, 0, 45

							Water	Surcharged
PN	US/MH Name	US Label	Event	Duration (mins)	Storm Rank	US/CL (m)	Level (m)	Depth (m)
1.000	S2000		240 minute 1 year Summer I+0%	240	71	29.931	29.040	-0.185
1.001	S2001		240 minute 1 year Summer I+0%	240	71	29.950	28.817	-0.178
1.002	S2002		240 minute 1 year Summer I+0%	240	71	29.382	28.649	-0.246
2.000	Tank		240 minute 1 year Summer I+0%	240	80	29.140	27.868	-1.133
1.003	S2003		240 minute 1 year Summer I+0%	240	80	29.220	27.868	-0.202
3.000	S2200		240 minute 1 year Summer I+0%	240	71	29.815	29.028	-0.122
3.001	S2100		240 minute 1 year Summer I+0%	240	71	29.140	28.762	-0.288
1.004	S2004		240 minute 1 year Summer I+0%	240	80	29.140	27.858	0.098

Flooded				Total					
PN	US/MH Name	Volume (m³)	Flow / Overflow Cap. (l/s)	Overflow Act.	Overflow Vol (m³)	Overflow Vol (m³)	Level Exceeded	Maximum Vol (m³)	
1.000	S2000	0.000	0.07					0.010	
1.001	S2001	0.000	0.10					0.056	
1.002	S2002	0.000	0.08					0.016	
2.000	Tank	0.000	0.00					0.000	
1.003	S2003	0.000	0.10					5.385	

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Summary Wizard of 360 minute 1 year Summer I+0% for Storm

Simulation Criteria

Areal Reduction Factor 1.000

Additional Flow - % of Total Flow 0.000

Hot Start (mins) 0

MADD Factor * 10m³/ha Storage 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 0.280

Region England and Wales Cv (Summer) 1.000

M5-60 (mm) 19.000 Cv (Winter) 1.000

Margin for Flood Risk Warning (mm) 300.0

Analysis Timestep 2.5 Second Increment (Extended)

DTS Status OFF

DVD Status ON

Inertia 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, 2, 5, 30, 100

Climate Change (%) 0, 0, 0, 0, 45

							Water	Surcharged
PN	US/MH	US		Duration	Storm	US/CL	Level	Depth
	Name	Label	Event	(mins)	Rank	(m)	(m)	(m)
1.000	S2000		360 minute 1 year Summer I+0%	360	82	29.931	29.035	-0.190
1.001	S2001		360 minute 1 year Summer I+0%	360	82	29.950	28.811	-0.184
1.002	S2002		360 minute 1 year Summer I+0%	360	82	29.382	28.642	-0.253
2.000	Tank		360 minute 1 year Summer I+0%	360	88	29.140	27.840	-1.161
1.003	S2003		360 minute 1 year Summer I+0%	360	88	29.220	27.840	-0.230
3.000	S2200		360 minute 1 year Summer I+0%	360	82	29.815	29.024	-0.126
3.001	S2100		360 minute 1 year Summer I+0%	360	82	29.140	28.760	-0.290
1.004	S2004		360 minute 1 year Summer I+0%	360	88	29.140	27.809	0.049

Flooded

Total

PN	US/MH	Volume	Flow /	Overflow	Overflow	Overflow	Overflow	Level	Maximum
	Name	(m³)	Cap.	(l/s)	Act.	Vol (m³)	Vol(m³)	Exceeded	Vol (m³)
1.000	S2000	0.000	0.06						0.008
1.001	S2001	0.000	0.08						0.048
1.002	S2002	0.000	0.06						0.013
2.000	Tank	0.000	0.00						0.000
1.003	S2003	0.000	0.10						3.781

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Summary Wizard of 480 minute 1 year Summer I+0% for Storm

Simulation Criteria

Areal Reduction Factor 1.000

Additional Flow - % of Total Flow 0.000

Hot Start (mins) 0

MADD Factor * 10m³/ha Storage 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 0.280

Region England and Wales Cv (Summer) 1.000

M5-60 (mm) 19.000 Cv (Winter) 1.000

Margin for Flood Risk Warning (mm) 300.0

Analysis Timestep 2.5 Second Increment (Extended)

DTS Status OFF

DVD Status ON

Inertia 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, 2, 5, 30, 100

Climate Change (%) 0, 0, 0, 0, 45

							Water	Surcharged
PN	US/MH	US		Duration	Storm	US/CL	Level	Depth
	Name	Label	Event	(mins)	Rank	(m)	(m)	(m)
1.000	S2000		480 minute 1 year Summer I+0%	480	90	29.931	29.032	-0.193
1.001	S2001		480 minute 1 year Summer I+0%	480	90	29.950	28.807	-0.188
1.002	S2002		480 minute 1 year Summer I+0%	480	90	29.382	28.638	-0.257
2.000	Tank		480 minute 1 year Summer I+0%	480	93	29.140	27.829	-1.172
1.003	S2003		480 minute 1 year Summer I+0%	480	93	29.220	27.829	-0.241
3.000	S2200		480 minute 1 year Summer I+0%	480	90	29.815	29.022	-0.128
3.001	S2100		480 minute 1 year Summer I+0%	480	90	29.140	28.758	-0.292
1.004	S2004		480 minute 1 year Summer I+0%	480	93	29.140	27.765	0.005

Flooded

Total

PN	US/MH	Volume	Flow /	Overflow	Overflow	Overflow	Overflow	Level	Maximum
	Name	(m³)	Cap.	(l/s)	Act.	Vol (m³)	Vol(m³)	Exceeded	Vol (m³)
1.000	S2000	0.000	0.05						0.008
1.001	S2001	0.000	0.06						0.043
1.002	S2002	0.000	0.05						0.012
2.000	Tank	0.000	0.00						0.000
1.003	S2003	0.000	0.09						3.102

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Summary Wizard of 600 minute 1 year Summer I+0% for Storm

Simulation Criteria

Areal Reduction Factor 1.000

Additional Flow - % of Total Flow 0.000

Hot Start (mins) 0

MADD Factor * 10m³/ha Storage 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 0.280

Region England and Wales Cv (Summer) 1.000

M5-60 (mm) 19.000 Cv (Winter) 1.000

Margin for Flood Risk Warning (mm) 300.0

Analysis Timestep 2.5 Second Increment (Extended)

DTS Status OFF

DVD Status ON

Inertia 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, 2, 5, 30, 100

Climate Change (%) 0, 0, 0, 0, 45

PN	US/MH Name	US Label	Event	Duration (mins)	Storm Rank	US/CL (m)	Water Level (m)	Surcharged Depth (m)
1.000	S2000		600 minute 1 year Summer I+0%	600	97	29.931	29.030	-0.195
1.001	S2001		600 minute 1 year Summer I+0%	600	97	29.950	28.804	-0.191
1.002	S2002		600 minute 1 year Summer I+0%	600	97	29.382	28.635	-0.260
2.000	Tank		600 minute 1 year Summer I+0%	600	97	29.140	27.824	-1.177
1.003	S2003		600 minute 1 year Summer I+0%	600	97	29.220	27.824	-0.246
3.000	S2200		600 minute 1 year Summer I+0%	600	97	29.815	29.020	-0.130
3.001	S2100		600 minute 1 year Summer I+0%	600	97	29.140	28.757	-0.293
1.004	S2004		600 minute 1 year Summer I+0%	600	98	29.140	27.688	-0.072

PN	US/MH Name	Flooded Volume (m³)	Flow / Overflow Cap. (l/s)	Overflow Act.	Overflow Vol (m³)	Total Overflow Vol (m³)	Level Exceeded	Maximum Vol (m³)
1.000	S2000	0.000	0.04					0.007
1.001	S2001	0.000	0.06					0.039
1.002	S2002	0.000	0.04					0.011
2.000	Tank	0.000	0.00					0.000
1.003	S2003	0.000	0.08					2.841

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Summary Wizard of 720 minute 1 year Summer I+0% for Storm

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	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	0.280
Region	England and Wales	Cv (Summer)	1.000
M5-60 (mm)	19.000	Cv (Winter)	1.000

Margin for Flood Risk Warning (mm)	300.0
Analysis Timestep	2.5 Second Increment (Extended)
DTS Status	OFF
DVD Status	ON
Inertia 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, 2, 5, 30, 100
Climate Change (%)	0, 0, 0, 0, 45

PN	US/MH Name	US Label	Event	Duration (mins)	Storm Rank	US/CL (m)	Water Surcharged	
							Level (m)	Depth (m)
1.000	S2000		720 minute 1 year Summer I+0%	720	100	29.931	29.028	-0.197
1.001	S2001		720 minute 1 year Summer I+0%	720	100	29.950	28.802	-0.193
1.002	S2002		720 minute 1 year Summer I+0%	720	100	29.382	28.633	-0.262
2.000	Tank		720 minute 1 year Summer I+0%	720	101	29.140	27.821	-1.180
1.003	S2003		720 minute 1 year Summer I+0%	720	101	29.220	27.821	-0.249
3.000	S2200		720 minute 1 year Summer I+0%	720	100	29.815	29.019	-0.131
3.001	S2100		720 minute 1 year Summer I+0%	720	100	29.140	28.756	-0.294
1.004	S2004		720 minute 1 year Summer I+0%	720	101	29.140	27.667	-0.093

PN	US/MH Name	Flooded		Total			Level Exceeded	Maximum Vol (m³)
		Volume (m³)	Flow / Overflow Cap. (l/s)	Overflow Act.	Overflow Vol (m³)	Overflow Vol (m³)		
1.000	S2000	0.000	0.04					0.007
1.001	S2001	0.000	0.05					0.036
1.002	S2002	0.000	0.04					0.010
2.000	Tank	0.000	0.00					0.000
1.003	S2003	0.000	0.07					2.648

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Summary Wizard of 960 minute 1 year Summer I+0% for Storm

Simulation Criteria

Areal Reduction Factor 1.000

Additional Flow - % of Total Flow 0.000

Hot Start (mins) 0

MADD Factor * 10m³/ha Storage 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 0.280

Region England and Wales Cv (Summer) 1.000

M5-60 (mm) 19.000 Cv (Winter) 1.000

Margin for Flood Risk Warning (mm) 300.0

Analysis Timestep 2.5 Second Increment (Extended)

DTS Status OFF

DVD Status ON

Inertia 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, 2, 5, 30, 100

Climate Change (%) 0, 0, 0, 0, 45

PN	US/MH Name	US Label	Event	Duration (mins)	Storm Rank	US/CL (m)	Water Level (m)	Surcharged Depth (m)
1.000	S2000		960 minute 1 year Summer I+0%	960	107	29.931	29.026	-0.199
1.001	S2001		960 minute 1 year Summer I+0%	960	107	29.950	28.800	-0.195
1.002	S2002		960 minute 1 year Summer I+0%	960	107	29.382	28.630	-0.265
2.000	Tank		960 minute 1 year Summer I+0%	960	107	29.140	27.816	-1.185
1.003	S2003		960 minute 1 year Summer I+0%	960	107	29.220	27.816	-0.254
3.000	S2200		960 minute 1 year Summer I+0%	960	107	29.815	29.018	-0.132
3.001	S2100		960 minute 1 year Summer I+0%	960	107	29.140	28.755	-0.295
1.004	S2004		960 minute 1 year Summer I+0%	960	107	29.140	27.648	-0.112

PN	US/MH Name	Flooded Volume (m³)	Flow / Overflow Cap. (l/s)	Overflow Act.	Overflow Vol (m³)	Total Overflow Vol (m³)	Level Exceeded	Maximum Vol (m³)
1.000	S2000	0.000	0.03					0.006
1.001	S2001	0.000	0.04					0.033
1.002	S2002	0.000	0.03					0.010
2.000	Tank	0.000	0.00					0.000
1.003	S2003	0.000	0.06					2.374

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Micro Drainage

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Summary Wizard of 1440 minute 1 year Summer I+0% for Storm

Simulation Criteria

Areal Reduction Factor 1.000

Additional Flow - % of Total Flow 0.000

Hot Start (mins) 0

MADD Factor * 10m³/ha Storage 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 0.280

Region England and Wales Cv (Summer) 1.000

M5-60 (mm) 19.000 Cv (Winter) 1.000

Margin for Flood Risk Warning (mm) 300.0

Analysis Timestep 2.5 Second Increment (Extended)

DTS Status OFF

DVD Status ON

Inertia 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, 2, 5, 30, 100

Climate Change (%) 0, 0, 0, 0, 45

							Water	Surcharged
PN	US/MH Name	US Label	Event	Duration (mins)	Storm Rank	US/CL (m)	Level (m)	Depth (m)
1.000	S2000		1440 minute 1 year Summer I+0%	1440	114	29.931	29.024	-0.201
1.001	S2001		1440 minute 1 year Summer I+0%	1440	114	29.950	28.796	-0.199
1.002	S2002		1440 minute 1 year Summer I+0%	1440	114	29.382	28.627	-0.268
2.000	Tank		1440 minute 1 year Summer I+0%	1440	114	29.140	27.810	-1.191
1.003	S2003		1440 minute 1 year Summer I+0%	1440	114	29.220	27.810	-0.260
3.000	S2200		1440 minute 1 year Summer I+0%	1440	114	29.815	29.016	-0.134
3.001	S2100		1440 minute 1 year Summer I+0%	1440	114	29.140	28.754	-0.296
1.004	S2004		1440 minute 1 year Summer I+0%	1440	114	29.140	27.628	-0.132

Flooded

Total

PN	US/MH Name	Volume (m³)	Flow / Overflow Cap. (l/s)	Overflow Act.	Overflow Vol (m³)	Overflow Vol (m³)	Level Exceeded	Maximum Vol (m³)
1.000	S2000	0.000	0.02					0.005
1.001	S2001	0.000	0.03					0.029
1.002	S2002	0.000	0.03					0.009
2.000	Tank	0.000	0.00					0.000
1.003	S2003	0.000	0.04					2.049

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Summary Wizard of 120 minute 2 year Summer I+0% for Storm

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	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	0.280
Region	England and Wales	Cv (Summer)	1.000
M5-60 (mm)	19.000	Cv (Winter)	1.000

Margin for Flood Risk Warning (mm)	300.0
Analysis Timestep	2.5 Second Increment (Extended)
DTS Status	OFF
DVD Status	ON
Inertia 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, 2, 5, 30, 100
Climate Change (%)	0, 0, 0, 0, 45

PN	US/MH Name	US Label	Event	Duration (mins)	Storm Rank	US/CL (m)	Water Level (m)	Surcharged Depth (m)
1.000	S2000		120 minute 2 year Summer I+0%	120	46	29.931	29.054	-0.171
1.001	S2001		120 minute 2 year Summer I+0%	120	46	29.950	28.833	-0.162
1.002	S2002		120 minute 2 year Summer I+0%	120	46	29.382	28.668	-0.227
2.000	Tank		120 minute 2 year Summer I+0%	120	54	29.140	27.967	-1.034
1.003	S2003		120 minute 2 year Summer I+0%	120	54	29.220	27.968	-0.102
3.000	S2200		120 minute 2 year Summer I+0%	120	46	29.815	29.038	-0.112
3.001	S2100		120 minute 2 year Summer I+0%	120	46	29.140	28.772	-0.278
1.004	S2004		120 minute 2 year Summer I+0%	120	54	29.140	27.956	0.196

Flooded

PN	US/MH Name	Volume (m³)	Flow / Overflow Cap. (l/s)	Overflow Act.	Overflow Vol (m³)	Total Overflow Vol (m³)	Level Exceeded	Maximum Vol (m³)
1.000	S2000	0.000	0.13					0.014
1.001	S2001	0.000	0.18					0.078
1.002	S2002	0.000	0.13					0.022
2.000	Tank	0.000	0.00					0.000
1.003	S2003	0.000	0.12					12.051

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Summary Wizard of 180 minute 2 year Summer I+0% for Storm

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	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	0.280
Region	England and Wales	Cv (Summer)	1.000
M5-60 (mm)	19.000	Cv (Winter)	1.000

Margin for Flood Risk Warning (mm)	300.0
Analysis Timestep	2.5 Second Increment (Extended)
DTS Status	OFF
DVD Status	ON
Inertia 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, 2, 5, 30, 100
Climate Change (%)	0, 0, 0, 0, 45

PN	US/MH Name	US Label	Event	Duration (mins)	Storm Rank	US/CL (m)	Water Level (m)	Surcharged Depth (m)
1.000	S2000		180 minute 2 year Summer I+0%	180	55	29.931	29.049	-0.176
1.001	S2001		180 minute 2 year Summer I+0%	180	56	29.950	28.826	-0.169
1.002	S2002		180 minute 2 year Summer I+0%	180	55	29.382	28.660	-0.235
2.000	Tank		180 minute 2 year Summer I+0%	180	58	29.140	27.941	-1.060
1.003	S2003		180 minute 2 year Summer I+0%	180	58	29.220	27.941	-0.129
3.000	S2200		180 minute 2 year Summer I+0%	180	55	29.815	29.034	-0.116
3.001	S2100		180 minute 2 year Summer I+0%	180	55	29.140	28.768	-0.282
1.004	S2004		180 minute 2 year Summer I+0%	180	57	29.140	27.930	0.170

Flooded

PN	US/MH Name	Volume (m³)	Flow / Cap.	Overflow (l/s)	Overflow Act.	Overflow Vol (m³)	Total Overflow Vol (m³)	Level Exceeded	Maximum Vol (m³)
1.000	S2000	0.000	0.11						0.012
1.001	S2001	0.000	0.14						0.068
1.002	S2002	0.000	0.11						0.019
2.000	Tank	0.000	0.00						0.000
1.003	S2003	0.000	0.11						10.232

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Summary Wizard of 240 minute 2 year Summer I+0% for Storm

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	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		

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.280
Region	England and Wales	Cv (Summer)	1.000
M5-60 (mm)	19.000	Cv (Winter)	1.000

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

Profile(s)

Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 2, 5, 30, 100
Climate Change (%)	0, 0, 0, 0, 45

PN	US/MH Name	US Label	Event	Duration (mins)	Storm Rank	US/CL (m)	Water Level (m)	Surcharged Depth (m)
1.000	S2000		240 minute 2 year Summer I+0%	240	61	29.931	29.045	-0.180
1.001	S2001		240 minute 2 year Summer I+0%	240	62	29.950	28.822	-0.173
1.002	S2002		240 minute 2 year Summer I+0%	240	62	29.382	28.656	-0.239
2.000	Tank		240 minute 2 year Summer I+0%	240	66	29.140	27.916	-1.085
1.003	S2003		240 minute 2 year Summer I+0%	240	66	29.220	27.916	-0.154
3.000	S2200		240 minute 2 year Summer I+0%	240	61	29.815	29.031	-0.119
3.001	S2100		240 minute 2 year Summer I+0%	240	62	29.140	28.765	-0.285
1.004	S2004		240 minute 2 year Summer I+0%	240	65	29.140	27.905	0.145

Flooded

PN	US/MH Name	Volume (m³)	Flow / Overflow Cap. (l/s)	Overflow Act.	Overflow Vol (m³)	Total Overflow Vol (m³)	Level Exceeded	Maximum Vol (m³)
1.000	S2000	0.000	0.09					0.011
1.001	S2001	0.000	0.12					0.062
1.002	S2002	0.000	0.09					0.018
2.000	Tank	0.000	0.00					0.000
1.003	S2003	0.000	0.10					8.538

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Summary Wizard of 360 minute 2 year Summer I+0% for Storm

Simulation Criteria

Areal Reduction Factor 1.000

Hot Start (mins) 0

Hot Start Level (mm) 0

Manhole Headloss Coeff (Global) 0.500

Foul Sewage per hectare (l/s) 0.000

Additional Flow - % of Total Flow 0.000

MADD Factor * 10m³/ha Storage 0.000

Inlet Coefficient 0.800

Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0

Number of Online Controls 1

Number of Offline Controls 0

Number of Storage Structures 1

Number of Time/Area Diagrams 0

Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model FSR

Region England and Wales Cv (Summer) 1.000

M5-60 (mm) 19.000 Cv (Winter) 1.000

Ratio R 0.280

Margin for Flood Risk Warning (mm) 300.0

Analysis Timestep 2.5 Second Increment (Extended)

DTS Status OFF

DVD Status ON

Inertia 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, 2, 5, 30, 100

Climate Change (%) 0, 0, 0, 0, 45

							Water	Surcharged
PN	US/MH Name	US Label	Event	Duration (mins)	Storm Rank	US/CL (m)	Level (m)	Depth (m)
1.000	S2000		360 minute 2 year Summer I+0%	360	76	29.931	29.039	-0.186
1.001	S2001		360 minute 2 year Summer I+0%	360	76	29.950	28.816	-0.179
1.002	S2002		360 minute 2 year Summer I+0%	360	76	29.382	28.647	-0.248
2.000	Tank		360 minute 2 year Summer I+0%	360	78	29.140	27.875	-1.126
1.003	S2003		360 minute 2 year Summer I+0%	360	78	29.220	27.875	-0.195
3.000	S2200		360 minute 2 year Summer I+0%	360	76	29.815	29.027	-0.123
3.001	S2100		360 minute 2 year Summer I+0%	360	76	29.140	28.762	-0.288
1.004	S2004		360 minute 2 year Summer I+0%	360	78	29.140	27.865	0.105

Flooded

US/MH

Volume

Flow / Overflow

Overflow

Overflow

Overflow

Level

Maximum

PN

Name

(m³)

Cap.

(l/s)

Act.

Vol (m³)

Vol(m³)

Exceeded

Vol (m³)

1.000

S2000

0.000

0.07

0.010

1.001

S2001

0.000

0.09

0.055

1.002

S2002

0.000

0.07

0.015

2.000

Tank

0.000

0.00

0.000

1.003

S2003

0.000

0.10

5.762

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Summary Wizard of 480 minute 2 year Summer I+0% for Storm

Simulation Criteria

Areal Reduction Factor 1.000

Additional Flow - % of Total Flow 0.000

Hot Start (mins) 0

MADD Factor * 10m³/ha Storage 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 0.280

Region England and Wales Cv (Summer) 1.000

M5-60 (mm) 19.000 Cv (Winter) 1.000

Margin for Flood Risk Warning (mm) 300.0

Analysis Timestep 2.5 Second Increment (Extended)

DTS Status OFF

DVD Status ON

Inertia 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, 2, 5, 30, 100

Climate Change (%) 0, 0, 0, 0, 45

							Water	Surcharged
PN	US/MH Name	US Label	Event	Duration (mins)	Storm Rank	US/CL (m)	Level (m)	Depth (m)
1.000	S2000		480 minute 2 year Summer I+0%	480	81	29.931	29.035	-0.190
1.001	S2001		480 minute 2 year Summer I+0%	480	81	29.950	28.811	-0.184
1.002	S2002		480 minute 2 year Summer I+0%	480	81	29.382	28.642	-0.253
2.000	Tank		480 minute 2 year Summer I+0%	480	84	29.140	27.847	-1.154
1.003	S2003		480 minute 2 year Summer I+0%	480	84	29.220	27.847	-0.223
3.000	S2200		480 minute 2 year Summer I+0%	480	81	29.815	29.024	-0.126
3.001	S2100		480 minute 2 year Summer I+0%	480	81	29.140	28.760	-0.290
1.004	S2004		480 minute 2 year Summer I+0%	480	84	29.140	27.824	0.064

Flooded

Total

PN	US/MH Name	Volume (m³)	Flow / Overflow Cap. (l/s)	Overflow Act.	Overflow Vol (m³)	Overflow Vol (m³)	Level Exceeded	Maximum Vol (m³)
1.000	S2000	0.000	0.06					0.008
1.001	S2001	0.000	0.08					0.049
1.002	S2002	0.000	0.06					0.013
2.000	Tank	0.000	0.00					0.000
1.003	S2003	0.000	0.09					4.167

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Summary Wizard of 600 minute 2 year Summer I+0% for Storm

Simulation Criteria

Areal Reduction Factor 1.000

Additional Flow - % of Total Flow 0.000

Hot Start (mins) 0

MADD Factor * 10m³/ha Storage 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 0.280

Region England and Wales Cv (Summer) 1.000

M5-60 (mm) 19.000 Cv (Winter) 1.000

Margin for Flood Risk Warning (mm) 300.0

Analysis Timestep 2.5 Second Increment (Extended)

DTS Status OFF

DVD Status ON

Inertia 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, 2, 5, 30, 100

Climate Change (%) 0, 0, 0, 0, 45

							Water	Surcharged
PN	US/MH Name	US Label	Event	Duration (mins)	Storm Rank	US/CL (m)	Level (m)	Depth (m)
1.000	S2000		600 minute 2 year Summer I+0%	600	88	29.931	29.032	-0.193
1.001	S2001		600 minute 2 year Summer I+0%	600	88	29.950	28.808	-0.187
1.002	S2002		600 minute 2 year Summer I+0%	600	88	29.382	28.639	-0.256
2.000	Tank		600 minute 2 year Summer I+0%	600	90	29.140	27.833	-1.168
1.003	S2003		600 minute 2 year Summer I+0%	600	90	29.220	27.833	-0.237
3.000	S2200		600 minute 2 year Summer I+0%	600	88	29.815	29.022	-0.128
3.001	S2100		600 minute 2 year Summer I+0%	600	88	29.140	28.758	-0.292
1.004	S2004		600 minute 2 year Summer I+0%	600	90	29.140	27.785	0.025

Flooded				Total					
PN	US/MH Name	Volume (m³)	Flow / Overflow Cap. (l/s)	Overflow Act.	Overflow Vol (m³)	Overflow Vol (m³)	Level Exceeded	Maximum Vol (m³)	
1.000	S2000	0.000	0.05					0.008	
1.001	S2001	0.000	0.07					0.044	
1.002	S2002	0.000	0.05					0.012	
2.000	Tank	0.000	0.00					0.000	
1.003	S2003	0.000	0.09					3.331	

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Summary Wizard of 720 minute 2 year Summer I+0% for Storm

Simulation Criteria

Areal Reduction Factor 1.000

Additional Flow - % of Total Flow 0.000

Hot Start (mins) 0

MADD Factor * 10m³/ha Storage 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 0.280

Region England and Wales Cv (Summer) 1.000

M5-60 (mm) 19.000 Cv (Winter) 1.000

Margin for Flood Risk Warning (mm) 300.0

Analysis Timestep 2.5 Second Increment (Extended)

DTS Status OFF

DVD Status ON

Inertia 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, 2, 5, 30, 100

Climate Change (%) 0, 0, 0, 0, 45

							Water	Surcharged
PN	US/MH Name	US Label	Event	Duration (mins)	Storm Rank	US/CL (m)	Level (m)	Depth (m)
1.000	S2000		720 minute 2 year Summer I+0%	720	95	29.931	29.030	-0.195
1.001	S2001		720 minute 2 year Summer I+0%	720	95	29.950	28.805	-0.190
1.002	S2002		720 minute 2 year Summer I+0%	720	95	29.382	28.636	-0.259
2.000	Tank		720 minute 2 year Summer I+0%	720	96	29.140	27.827	-1.174
1.003	S2003		720 minute 2 year Summer I+0%	720	96	29.220	27.827	-0.243
3.000	S2200		720 minute 2 year Summer I+0%	720	95	29.815	29.021	-0.129
3.001	S2100		720 minute 2 year Summer I+0%	720	95	29.140	28.758	-0.292
1.004	S2004		720 minute 2 year Summer I+0%	720	96	29.140	27.748	-0.012

Flooded

US/MH

Volume

Flow / Overflow

Overflow

Overflow

Overflow

Level

Maximum

PN

Name

(m³)

Cap.

(l/s)

Act.

Vol (m³)

Vol(m³)

Exceeded

Vol (m³)

1.000

S2000

0.000

0.05

0.007

1.001

S2001

0.000

0.06

0.041

1.002

S2002

0.000

0.05

0.011

2.000

Tank

0.000

0.00

0.000

1.003

S2003

0.000

0.08

2.979

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Summary Wizard of 960 minute 2 year Summer I+0% for Storm

Simulation Criteria

Areal Reduction Factor 1.000

Hot Start (mins) 0

Hot Start Level (mm) 0

Manhole Headloss Coeff (Global) 0.500

Foul Sewage per hectare (l/s) 0.000

Additional Flow - % of Total Flow 0.000

MADD Factor * 10m³/ha Storage 0.000

Inlet Coeffiecient 0.800

Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0

Number of Online Controls 1

Number of Offline Controls 0

Number of Storage Structures 1

Number of Time/Area Diagrams 0

Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model FSR

Region England and Wales Cv (Summer) 1.000

M5-60 (mm) 19.000 Cv (Winter) 1.000

Ratio R 0.280

Margin for Flood Risk Warning (mm) 300.0

Analysis Timestep 2.5 Second Increment (Extended)

DTS Status OFF

DVD Status ON

Inertia 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, 2, 5, 30, 100

Climate Change (%) 0, 0, 0, 0, 45

							Water	Surcharged
PN	US/MH Name	US Label	Event	Duration (mins)	Storm Rank	US/CL (m)	Level (m)	Depth (m)
1.000	S2000		960 minute 2 year Summer I+0%	960	103	29.931	29.028	-0.197
1.001	S2001		960 minute 2 year Summer I+0%	960	103	29.950	28.802	-0.193
1.002	S2002		960 minute 2 year Summer I+0%	960	103	29.382	28.633	-0.262
2.000	Tank		960 minute 2 year Summer I+0%	960	103	29.140	27.821	-1.180
1.003	S2003		960 minute 2 year Summer I+0%	960	102	29.220	27.821	-0.249
3.000	S2200		960 minute 2 year Summer I+0%	960	103	29.815	29.019	-0.131
3.001	S2100		960 minute 2 year Summer I+0%	960	103	29.140	28.756	-0.294
1.004	S2004		960 minute 2 year Summer I+0%	960	102	29.140	27.667	-0.093

Flooded				Total					
PN	US/MH Name	Volume (m³)	Flow / Overflow Cap. (l/s)	Overflow Act.	Overflow Vol (m³)	Overflow Vol (m³)	Level Exceeded	Maximum Vol (m³)	
1.000	S2000	0.000	0.04					0.007	
1.001	S2001	0.000	0.05					0.036	
1.002	S2002	0.000	0.04					0.010	
2.000	Tank	0.000	0.00					0.000	
1.003	S2003	0.000	0.07					2.641	

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Summary Wizard of 1440 minute 2 year Summer I+0% for Storm

Simulation Criteria

Areal Reduction Factor 1.000Additional Flow - % of Total Flow 0.000

Hot Start (mins) 0MADD Factor * 10m³/ha Storage 0.000

Hot Start Level (mm) 0Inlet Coefficient 0.800

Manhole Headloss Coeff (Global) 0.500Flow per Person per Day (l/per/day) 0.000

Foul Sewage per hectare (l/s) 0.000

Number of Input Hydrographs 0Number of Storage Structures 1

Number of Online Controls 1Number of Time/Area Diagrams 0

Number of Offline Controls 0Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall ModelFSRRatio R 0.280

Region England and Wales Cv (Summer) 1.000

M5-60 (mm)19.000 Cv (Winter) 1.000

Margin for Flood Risk Warning (mm)300.0

Analysis Timestep 2.5 Second Increment (Extended)

DTS StatusOFF

DVD StatusON

Inertia StatusON

Profile(s)Summer and Winter

Duration(s) (mins)15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440

Return Period(s) (years)1, 2, 5, 30, 100

Climate Change (%)0, 0, 0, 0, 45

PN	US/MH Name	US Label	Event	Duration (mins)	Storm Rank	US/CL (m)	Water Level (m)	Surcharged Depth (m)
1.000	S2000		1440 minute 2 year Summer I+0%	1440	112	29.931	29.025	-0.200
1.001	S2001		1440 minute 2 year Summer I+0%	1440	112	29.950	28.798	-0.197
1.002	S2002		1440 minute 2 year Summer I+0%	1440	112	29.382	28.629	-0.266
2.000	Tank		1440 minute 2 year Summer I+0%	1440	112	29.140	27.814	-1.187
1.003	S2003		1440 minute 2 year Summer I+0%	1440	112	29.220	27.814	-0.256
3.000	S2200		1440 minute 2 year Summer I+0%	1440	112	29.815	29.017	-0.133
3.001	S2100		1440 minute 2 year Summer I+0%	1440	112	29.140	28.755	-0.295
1.004	S2004		1440 minute 2 year Summer I+0%	1440	112	29.140	27.640	-0.120

Flooded

Total

PN	US/MH Name	Volume (m³)	Flow / Overflow Cap. (l/s)	Overflow Act.	Overflow Vol (m³)	Overflow Vol (m³)	Level Exceeded	Maximum Vol (m³)
1.000	S2000	0.000	0.03					0.006
1.001	S2001	0.000	0.04					0.031
1.002	S2002	0.000	0.03					0.009
2.000	Tank	0.000	0.00					0.000
1.003	S2003	0.000	0.05					2.245

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

Flooded					Total		
PN	US/MH Name	Volume (m³)	Flow / Overflow Cap. (l/s)	Overflow Act. Vol (m³)	Overflow Vol (m³)	Level Exceeded	Maximum Vol (m³)
3.000	S2200	0.000	0.33				0.000
3.001	S2100	0.000	0.03				0.009
1.004	S2004	0.000	0.08				3.520

		Maximum		Pipe		
PN	US/MH Name	Discharge Vol (m³)	Velocity (m/s)	Flow (l/s)	Status	
1.000	S2000	7.717	0.9	12.1	OK	
1.001	S2001	9.498	0.9	14.5	OK	
1.002	S2002	13.505	0.9	19.9	OK	
2.000	Tank	0.297	0.0	0.5	OK	
1.003	S2003	26.242	0.9	14.7	OK	
3.000	S2200	3.265	0.8	5.2	OK	
3.001	S2100	6.085	1.9	9.1	OK	
1.004	S2004	30.820	2.4	11.5	SURCHARGED	

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Summary Wizard of 120 minute 5 year Summer I+0% for Storm

Simulation Criteria

Areal Reduction Factor 1.000

Additional Flow - % of Total Flow 0.000

Hot Start (mins) 0

MADD Factor * 10m³/ha Storage 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 0.280

Region England and Wales Cv (Summer) 1.000

M5-60 (mm) 19.000 Cv (Winter) 1.000

Margin for Flood Risk Warning (mm) 300.0

Analysis Timestep 2.5 Second Increment (Extended)

DTS Status OFF

DVD Status ON

Inertia 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, 2, 5, 30, 100

Climate Change (%) 0, 0, 0, 0, 45

							Water	Surcharged
PN	US/MH Name	US Label	Event	Duration (mins)	Storm Rank	US/CL (m)	Level (m)	Depth (m)
1.000	S2000		120 minute 5 year Summer I+0%	120	38	29.931	29.061	-0.164
1.001	S2001		120 minute 5 year Summer I+0%	120	38	29.950	28.841	-0.154
1.002	S2002		120 minute 5 year Summer I+0%	120	38	29.382	28.677	-0.218
2.000	Tank		120 minute 5 year Summer I+0%	120	41	29.140	28.054	-0.947
1.003	S2003		120 minute 5 year Summer I+0%	120	41	29.220	28.054	-0.016
3.000	S2200		120 minute 5 year Summer I+0%	120	38	29.815	29.043	-0.107
3.001	S2100		120 minute 5 year Summer I+0%	120	39	29.140	28.778	-0.272
1.004	S2004		120 minute 5 year Summer I+0%	120	41	29.140	28.034	0.274

Flooded

Total

PN	US/MH Name	Volume (m³)	Flow / Overflow Cap. (l/s)	Overflow Act.	Overflow Vol (m³)	Overflow Vol (m³)	Level Exceeded	Maximum Vol (m³)
1.000	S2000	0.000	0.17					0.016
1.001	S2001	0.000	0.22					0.089
1.002	S2002	0.000	0.17					0.025
2.000	Tank	0.000	0.00					0.000
1.003	S2003	0.000	0.12					17.895

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Summary Wizard of 180 minute 5 year Summer I+0% for Storm

Simulation Criteria

Areal Reduction Factor 1.000Additional Flow - % of Total Flow 0.000

Hot Start (mins) 0MADD Factor * 10m³/ha Storage 0.000

Hot Start Level (mm) 0Inlet Coefficient 0.800

Manhole Headloss Coeff (Global) 0.500Flow per Person per Day (l/per/day) 0.000

Foul Sewage per hectare (l/s) 0.000

Number of Input Hydrographs 0Number of Storage Structures 1

Number of Online Controls 1Number of Time/Area Diagrams 0

Number of Offline Controls 0Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall ModelFSRRatio R 0.280

Region England and Wales Cv (Summer) 1.000

M5-60 (mm)19.000 Cv (Winter) 1.000

Margin for Flood Risk Warning (mm)300.0

Analysis Timestep 2.5 Second Increment (Extended)

DTS StatusOFF

DVD StatusON

Inertia StatusON

Profile(s)Summer and Winter

Duration(s) (mins)15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440

Return Period(s) (years)1, 2, 5, 30, 100

Climate Change (%)0, 0, 0, 0, 45

	US/MH	US		Duration	Storm	US/CL	Water	Surcharged
PN	Name	Label	Event	(mins)	Rank	(m)	Level	Depth
							(m)	(m)
1.000	S2000		180 minute 5 year Summer I+0%	180	47	29.931	29.054	-0.171
1.001	S2001		180 minute 5 year Summer I+0%	180	47	29.950	28.833	-0.162
1.002	S2002		180 minute 5 year Summer I+0%	180	47	29.382	28.668	-0.227
2.000	Tank		180 minute 5 year Summer I+0%	180	43	29.140	28.021	-0.980
1.003	S2003		180 minute 5 year Summer I+0%	180	43	29.220	28.021	-0.049
3.000	S2200		180 minute 5 year Summer I+0%	180	47	29.815	29.037	-0.113
3.001	S2100		180 minute 5 year Summer I+0%	180	47	29.140	28.772	-0.278
1.004	S2004		180 minute 5 year Summer I+0%	180	43	29.140	28.009	0.249

	US/MH	Volume	Flow /	Overflow	Overflow	Overflow	Level	Maximum
PN	Name	(m³)	Cap.	(l/s)	Act.	Vol (m³)	Exceeded	Vol (m³)
1.000	S2000	0.000	0.13					0.014
1.001	S2001	0.000	0.18					0.078
1.002	S2002	0.000	0.13					0.022
2.000	Tank	0.000	0.00					0.000
1.003	S2003	0.000	0.11					15.655

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Summary Wizard of 240 minute 5 year Summer I+0% for Storm

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	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	0.280
Region	England and Wales	Cv (Summer)	1.000
M5-60 (mm)	19.000	Cv (Winter)	1.000

Margin for Flood Risk Warning (mm)	300.0
Analysis Timestep	2.5 Second Increment (Extended)
DTS Status	OFF
DVD Status	ON
Inertia 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, 2, 5, 30, 100
Climate Change (%)	0, 0, 0, 0, 45

PN	US/MH Name	US Label	Event	Duration (mins)	Storm Rank	US/CL (m)	Water Level (m)	Surcharged Depth (m)
1.000	S2000		240 minute 5 year Summer I+0%	240	53	29.931	29.050	-0.175
1.001	S2001		240 minute 5 year Summer I+0%	240	53	29.950	28.827	-0.168
1.002	S2002		240 minute 5 year Summer I+0%	240	53	29.382	28.662	-0.233
2.000	Tank		240 minute 5 year Summer I+0%	240	49	29.140	27.988	-1.013
1.003	S2003		240 minute 5 year Summer I+0%	240	49	29.220	27.989	-0.081
3.000	S2200		240 minute 5 year Summer I+0%	240	53	29.815	29.034	-0.116
3.001	S2100		240 minute 5 year Summer I+0%	240	53	29.140	28.768	-0.282
1.004	S2004		240 minute 5 year Summer I+0%	240	49	29.140	27.977	0.217

Flooded

PN	US/MH Name	Volume (m³)	Flow / Cap.	Overflow (l/s)	Overflow Act.	Overflow Vol (m³)	Total Overflow Vol (m³)	Level Exceeded	Maximum Vol (m³)
1.000	S2000	0.000	0.11						0.013
1.001	S2001	0.000	0.15						0.070
1.002	S2002	0.000	0.11						0.020
2.000	Tank	0.000	0.00						0.000
1.003	S2003	0.000	0.11						13.473

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<u>Summary Wizard of 360 minute 5 year Summer I+0% for Storm</u>									
Simulation Criteria									
Areal Reduction Factor		1.000		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		0.280			
Region England and Wales Cv (Summer)		1.000							
M5-60 (mm)		19.000		Cv (Winter)		1.000			
Margin for Flood Risk Warning (mm)						300.0			
Analysis Timestep		2.5		Second Increment (Extended)					
DTS Status						OFF			
DVD Status						ON			
Inertia 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, 2, 5, 30, 100							
Climate Change (%)		0, 0, 0, 0, 45							
Water Surcharged									
PN	US/MH Name	US Label	Event	Duration (mins)	Storm Rank	US/CL (m)	Level (m)	Depth (m)	
1.000	S2000		360 minute 5 year Summer I+0%	360	66	29.931	29.044	-0.181	
1.001	S2001		360 minute 5 year Summer I+0%	360	66	29.950	28.820	-0.175	
1.002	S2002		360 minute 5 year Summer I+0%	360	66	29.382	28.655	-0.240	
2.000	Tank		360 minute 5 year Summer I+0%	360	60	29.140	27.934	-1.067	
1.003	S2003		360 minute 5 year Summer I+0%	360	60	29.220	27.934	-0.136	
3.000	S2200		360 minute 5 year Summer I+0%	360	66	29.815	29.031	-0.119	
3.001	S2100		360 minute 5 year Summer I+0%	360	66	29.140	28.764	-0.286	
1.004	S2004		360 minute 5 year Summer I+0%	360	60	29.140	27.923	0.163	
Flooded									
Total									
PN	US/MH Name	Volume (m³)	Flow / Overflow Cap. (l/s)	Overflow Act.	Overflow Vol (m³)	Overflow Vol (m³)	Level Exceeded	Maximum Vol (m³)	
1.000	S2000	0.000	0.09					0.011	
1.001	S2001	0.000	0.11					0.061	
1.002	S2002	0.000	0.09					0.017	
2.000	Tank	0.000	0.00					0.000	
1.003	S2003	0.000	0.10					9.767	
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Summary Wizard of 480 minute 5 year Summer I+0% for Storm

Simulation Criteria

Areal Reduction Factor 1.000

Additional Flow - % of Total Flow 0.000

Hot Start (mins) 0

MADD Factor * 10m³/ha Storage 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 0.280

Region England and Wales Cv (Summer) 1.000

M5-60 (mm) 19.000 Cv (Winter) 1.000

Margin for Flood Risk Warning (mm) 300.0

Analysis Timestep 2.5 Second Increment (Extended)

DTS Status OFF

DVD Status ON

Inertia 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, 2, 5, 30, 100

Climate Change (%) 0, 0, 0, 0, 45

							Water	Surcharged
PN	US/MH Name	US Label	Event	Duration (mins)	Storm Rank	US/CL (m)	Level (m)	Depth (m)
1.000	S2000		480 minute 5 year Summer I+0%	480	74	29.931	29.039	-0.186
1.001	S2001		480 minute 5 year Summer I+0%	480	74	29.950	28.816	-0.179
1.002	S2002		480 minute 5 year Summer I+0%	480	74	29.382	28.648	-0.247
2.000	Tank		480 minute 5 year Summer I+0%	480	70	29.140	27.893	-1.108
1.003	S2003		480 minute 5 year Summer I+0%	480	70	29.220	27.894	-0.176
3.000	S2200		480 minute 5 year Summer I+0%	480	74	29.815	29.027	-0.123
3.001	S2100		480 minute 5 year Summer I+0%	480	74	29.140	28.762	-0.288
1.004	S2004		480 minute 5 year Summer I+0%	480	70	29.140	27.883	0.123

Flooded

Total

PN	US/MH Name	Volume (m³)	Flow / Overflow Cap. (l/s)	Overflow Act.	Overflow Vol (m³)	Overflow Vol (m³)	Level Exceeded	Maximum Vol (m³)
1.000	S2000	0.000	0.07					0.010
1.001	S2001	0.000	0.09					0.055
1.002	S2002	0.000	0.07					0.015
2.000	Tank	0.000	0.00					0.000
1.003	S2003	0.000	0.10					7.033

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Summary Wizard of 600 minute 5 year Summer I+0% for Storm

Simulation Criteria

Areal Reduction Factor 1.000

Additional Flow - % of Total Flow 0.000

Hot Start (mins) 0

MADD Factor * 10m³/ha Storage 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 0.280

Region England and Wales Cv (Summer) 1.000

M5-60 (mm) 19.000 Cv (Winter) 1.000

Margin for Flood Risk Warning (mm) 300.0

Analysis Timestep 2.5 Second Increment (Extended)

DTS Status OFF

DVD Status ON

Inertia 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, 2, 5, 30, 100

Climate Change (%) 0, 0, 0, 0, 45

							Water	Surcharged
PN	US/MH	US		Duration	Storm	US/CL	Level	Depth
	Name	Label	Event	(mins)	Rank	(m)	(m)	(m)
1.000	S2000		600 minute 5 year Summer I+0%	600	79	29.931	29.036	-0.189
1.001	S2001		600 minute 5 year Summer I+0%	600	79	29.950	28.813	-0.182
1.002	S2002		600 minute 5 year Summer I+0%	600	79	29.382	28.644	-0.251
2.000	Tank		600 minute 5 year Summer I+0%	600	81	29.140	27.864	-1.137
1.003	S2003		600 minute 5 year Summer I+0%	600	81	29.220	27.864	-0.206
3.000	S2200		600 minute 5 year Summer I+0%	600	79	29.815	29.025	-0.125
3.001	S2100		600 minute 5 year Summer I+0%	600	79	29.140	28.760	-0.290
1.004	S2004		600 minute 5 year Summer I+0%	600	81	29.140	27.851	0.091

Flooded

Total

PN	US/MH	Volume	Flow /	Overflow	Overflow	Overflow	Overflow	Level	Maximum
	Name	(m³)	Cap.	(l/s)	Act.	Vol (m³)	Vol(m³)	Exceeded	Vol (m³)
1.000	S2000	0.000	0.06						0.009
1.001	S2001	0.000	0.08						0.050
1.002	S2002	0.000	0.06						0.014
2.000	Tank	0.000	0.00						0.000
1.003	S2003	0.000	0.09						5.120

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Summary Wizard of 720 minute 5 year Summer I+0% for Storm

Simulation Criteria

Areal Reduction Factor 1.000

Additional Flow - % of Total Flow 0.000

Hot Start (mins) 0

MADD Factor * 10m³/ha Storage 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 0.280

Region England and Wales Cv (Summer) 1.000

M5-60 (mm) 19.000 Cv (Winter) 1.000

Margin for Flood Risk Warning (mm) 300.0

Analysis Timestep 2.5 Second Increment (Extended)

DTS Status OFF

DVD Status ON

Inertia 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, 2, 5, 30, 100

Climate Change (%) 0, 0, 0, 0, 45

							Water	Surcharged
PN	US/MH Name	US Label	Event	Duration (mins)	Storm Rank	US/CL (m)	Level (m)	Depth (m)
1.000	S2000		720 minute 5 year Summer I+0%	720	87	29.931	29.034	-0.191
1.001	S2001		720 minute 5 year Summer I+0%	720	87	29.950	28.810	-0.185
1.002	S2002		720 minute 5 year Summer I+0%	720	87	29.382	28.640	-0.255
2.000	Tank		720 minute 5 year Summer I+0%	720	86	29.140	27.844	-1.157
1.003	S2003		720 minute 5 year Summer I+0%	720	86	29.220	27.844	-0.226
3.000	S2200		720 minute 5 year Summer I+0%	720	87	29.815	29.023	-0.127
3.001	S2100		720 minute 5 year Summer I+0%	720	87	29.140	28.759	-0.291
1.004	S2004		720 minute 5 year Summer I+0%	720	86	29.140	27.818	0.058

Flooded

Total

PN	US/MH Name	Volume (m³)	Flow / Overflow Cap. (l/s)	Overflow Act.	Overflow Vol (m³)	Overflow Vol (m³)	Level Exceeded	Maximum Vol (m³)
1.000	S2000	0.000	0.05					0.008
1.001	S2001	0.000	0.07					0.046
1.002	S2002	0.000	0.06					0.013
2.000	Tank	0.000	0.00					0.000
1.003	S2003	0.000	0.09					3.981

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Summary Wizard of 1440 minute 5 year Summer I+0% for Storm

Simulation Criteria

Areal Reduction Factor 1.000Additional Flow - % of Total Flow 0.000

Hot Start (mins) 0MADD Factor * 10m³/ha Storage 0.000

Hot Start Level (mm) 0Inlet Coefficient 0.800

Manhole Headloss Coeff (Global) 0.500Flow per Person per Day (l/per/day) 0.000

Foul Sewage per hectare (l/s) 0.000

Number of Input Hydrographs 0Number of Storage Structures 1

Number of Online Controls 1Number of Time/Area Diagrams 0

Number of Offline Controls 0Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall ModelFSRRatio R 0.280

Region England and Wales Cv (Summer) 1.000

M5-60 (mm)19.000 Cv (Winter) 1.000

Margin for Flood Risk Warning (mm)300.0

Analysis Timestep 2.5 Second Increment (Extended)

DTS StatusOFF

DVD StatusON

Inertia StatusON

Profile(s)Summer and Winter

Duration(s) (mins)15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440

Return Period(s) (years)1, 2, 5, 30, 100

Climate Change (%)0, 0, 0, 0, 45

PN	US/MH Name	US Label	Event	Duration (mins)	Storm Rank	US/CL (m)	Water Level (m)	Surcharged Depth (m)
1.000	S2000		1440 minute 5 year Summer I+0%	1440	105	29.931	29.027	-0.198
1.001	S2001		1440 minute 5 year Summer I+0%	1440	105	29.950	28.801	-0.194
1.002	S2002		1440 minute 5 year Summer I+0%	1440	105	29.382	28.631	-0.264
2.000	Tank		1440 minute 5 year Summer I+0%	1440	105	29.140	27.818	-1.183
1.003	S2003		1440 minute 5 year Summer I+0%	1440	105	29.220	27.818	-0.252
3.000	S2200		1440 minute 5 year Summer I+0%	1440	105	29.815	29.018	-0.132
3.001	S2100		1440 minute 5 year Summer I+0%	1440	105	29.140	28.756	-0.294
1.004	S2004		1440 minute 5 year Summer I+0%	1440	105	29.140	27.657	-0.103

Flooded

US/MH Name

Volume (m³)

Flow / Overflow Cap. (l/s)

Overflow Act.

Overflow Vol (m³)

Overflow Vol (m³)

Level Exceeded

Maximum Vol (m³)

1.000

S2000

0.000

0.03

0.006

1.001

S2001

0.000

0.05

0.034

1.002

S2002

0.000

0.04

0.010

2.000

Tank

0.000

0.00

0.000

1.003

S2003

0.000

0.06

2.503

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Summary Wizard of 15 minute 30 year Summer I+0% for Storm

Simulation Criteria

Areal Reduction Factor 1.000

Hot Start (mins) 0

Hot Start Level (mm) 0

Manhole Headloss Coeff (Global) 0.500

Foul Sewage per hectare (l/s) 0.000

Additional Flow - % of Total Flow 0.000

MADD Factor * 10m³/ha Storage 0.000

Inlet Coefficient 0.800

Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0

Number of Online Controls 1

Number of Offline Controls 0

Number of Storage Structures 1

Number of Time/Area Diagrams 0

Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model FSR

Region England and Wales Cv

M5-60 (mm) 19.000

Ratio R 0.280

(Summer) 1.000

Cv (Winter) 1.000

Margin for Flood Risk Warning (mm) 300.0

Analysis Timestep 2.5 Second Increment (Extended)

DTS Status OFF

DVD Status ON

Inertia 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, 2, 5, 30, 100

Climate Change (%) 0, 0, 0, 0, 45

							Water	Surcharged	
PN	US/MH	US			Duration	Storm	US/CL	Level	Depth
	Name	Label	Event		(mins)	Rank	(m)	(m)	(m)
1.000	S2000		15 minute 30 year Summer I+0%		15	8	29.931	29.110	-0.115
1.001	S2001		15 minute 30 year Summer I+0%		15	12	29.950	28.901	-0.094
1.002	S2002		15 minute 30 year Summer I+0%		15	14	29.382	28.745	-0.150
2.000	Tank		15 minute 30 year Summer I+0%		15	32	29.140	28.159	-0.842
1.003	S2003		15 minute 30 year Summer I+0%		15	32	29.220	28.160	0.090
3.000	S2200		15 minute 30 year Summer I+0%		15	8	29.815	29.076	-0.074
3.001	S2100		15 minute 30 year Summer I+0%		15	13	29.140	28.797	-0.253
1.004	S2004		15 minute 30 year Summer I+0%		15	32	29.140	28.168	0.408

Flooded

US/MH

Volume

Flow / Overflow

Overflow

Overflow

Overflow

Level

Maximum

PN

Name

(m³)

Cap.

(l/s)

Act.

Vol (m³)

Vol(m³)

Exceeded

Vol (m³)

1.000

S2000

0.000

0.47

0.030

1.001

S2001

0.000

0.62

0.247

1.002

S2002

0.000

0.49

0.122

2.000

Tank

0.000

0.00

0.000

1.003

S2003

0.000

0.18

25.072

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Summary Wizard of 30 minute 30 year Summer I+0% for Storm

Simulation Criteria

Areal Reduction Factor 1.000

Additional Flow - % of Total Flow 0.000

Hot Start (mins) 0

MADD Factor * 10m³/ha Storage 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 0.280

Region England and Wales Cv (Summer) 1.000

M5-60 (mm) 19.000 Cv (Winter) 1.000

Margin for Flood Risk Warning (mm) 300.0

Analysis Timestep 2.5 Second Increment (Extended)

DTS Status OFF

DVD Status ON

Inertia 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, 2, 5, 30, 100

Climate Change (%) 0, 0, 0, 0, 45

								Water	Surcharged
		US/MH	US			Duration	Storm	US/CL	Level
		Name	Label	Event		(mins)	Rank	(m)	(m)
		PN							Depth
									(m)
1.000	S2000		30 minute	30 year	Summer I+0%	30	9	29.931	29.106
1.001	S2001		30 minute	30 year	Summer I+0%	30	13	29.950	28.896
1.002	S2002		30 minute	30 year	Summer I+0%	30	15	29.382	28.739
2.000	Tank		30 minute	30 year	Summer I+0%	30	26	29.140	28.253
1.003	S2003		30 minute	30 year	Summer I+0%	30	26	29.220	28.253
3.000	S2200		30 minute	30 year	Summer I+0%	30	9	29.815	29.074
3.001	S2100		30 minute	30 year	Summer I+0%	30	14	29.140	28.795
1.004	S2004		30 minute	30 year	Summer I+0%	30	28	29.140	28.254

Flooded

Total

US/MH

Volume

Flow / Overflow

Overflow

Overflow

Overflow

Level

Maximum

PN

Name

(m³)

Cap.

(l/s)

Act.

Vol (m³)

Vol(m³)

Exceeded

Vol (m³)

1.000

S2000

0.000

0.45

0.029

1.001

S2001

0.000

0.60

0.225

1.002

S2002

0.000

0.46

0.108

2.000

Tank

0.000

0.00

0.000

1.003

S2003

0.000

0.17

31.390

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Summary Wizard of 120 minute 30 year Summer I+0% for Storm

Simulation Criteria

Areal Reduction Factor 1.000Additional 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 ModelFSR

Ratio R 0.280

Region England and Wales Cv (Summer) 1.000

M5-60 (mm)19.000 Cv (Winter) 1.000

Margin for Flood Risk Warning (mm)300.0

Analysis Timestep 2.5 Second Increment (Extended)

DTS StatusOFF

DVD StatusON

Inertia StatusON

Profile(s)Summer and Winter

Duration(s) (mins)15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440

Return Period(s) (years)1, 2, 5, 30, 100

Climate Change (%)0, 0, 0, 0, 45

PN	US/MH Name	US Label	Event	Duration (mins)	Storm Rank	US/CL (m)	Water Level (m)	Surcharged Depth (m)
1.000	S2000		120 minute 30 year Summer I+0%	120	21	29.931	29.076	-0.149
1.001	S2001		120 minute 30 year Summer I+0%	120	21	29.950	28.859	-0.136
1.002	S2002		120 minute 30 year Summer I+0%	120	23	29.382	28.698	-0.197
2.000	Tank		120 minute 30 year Summer I+0%	120	22	29.140	28.297	-0.704
1.003	S2003		120 minute 30 year Summer I+0%	120	22	29.220	28.297	0.227
3.000	S2200		120 minute 30 year Summer I+0%	120	21	29.815	29.053	-0.097
3.001	S2100		120 minute 30 year Summer I+0%	120	23	29.140	28.784	-0.266
1.004	S2004		120 minute 30 year Summer I+0%	120	22	29.140	28.306	0.546

Flooded

US/MH Name

Volume (m³)

Flow / Overflow Cap. (l/s)

Overflow Act.

Overflow Vol (m³)

Overflow Vol (m³)

Level Exceeded

Maximum Vol (m³)

1.000

S2000

0.000

0.25

0.020

1.001

S2001

0.000

0.33

0.113

1.002

S2002

0.000

0.26

0.031

2.000

Tank

0.000

0.00

0.000

1.003

S2003

0.000

0.17

34.378

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Summary Wizard of 120 minute 30 year Summer I+0% for Storm

Flooded				Total			
PN	US/MH Name	Volume (m³)	Flow / Overflow Cap. (l/s)	Overflow Act.	Overflow Vol (m³)	Overflow Vol (m³)	Level Exceeded
3.000	S2200	0.000	0.27				0.000
3.001	S2100	0.000	0.03				0.008
1.004	S2004	0.000	0.10				4.234

			Maximum	Pipe	Status
US/MH	Discharge	Velocity	Flow		
PN	Name	Vol (m³)	(m/s)	(l/s)	
1.000	S2000	19.560	0.8	10.0	OK
1.001	S2001	24.074	0.8	12.4	OK
1.002	S2002	34.230	0.8	17.6	OK
2.000	Tank	0.752	0.0	0.4	OK
1.003	S2003	74.093	0.8	14.1	SURCHARGED
3.000	S2200	8.276	0.8	4.3	OK
3.001	S2100	15.423	1.9	8.0	OK
1.004	S2004	89.511	2.5	13.9	SURCHARGED

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Summary Wizard of 180 minute 30 year Summer I+0% for Storm

Simulation Criteria

Areal Reduction Factor 1.000Additional Flow - % of Total Flow 0.000

Hot Start (mins) 0MADD Factor * 10m³/ha Storage 0.000

Hot Start Level (mm) 0Inlet Coefficient 0.800

Manhole Headloss Coeff (Global) 0.500Flow per Person per Day (l/per/day) 0.000

Foul Sewage per hectare (l/s) 0.000

Number of Input Hydrographs 0Number of Storage Structures 1

Number of Online Controls 1Number of Time/Area Diagrams 0

Number of Offline Controls 0Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall ModelFSRRatio R 0.280

Region England and Wales Cv (Summer) 1.000

M5-60 (mm)19.000 Cv (Winter) 1.000

Margin for Flood Risk Warning (mm)300.0

Analysis Timestep 2.5 Second Increment (Extended)

DTS StatusOFF

DVD StatusON

Inertia StatusON

Profile(s)Summer and Winter

Duration(s) (mins)15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440

Return Period(s) (years)1, 2, 5, 30, 100

Climate Change (%)0, 0, 0, 0, 45

PN	US/MH Name	US Label	Event	Duration (mins)	Storm Rank	US/CL (m)	Water Level (m)	Surcharged Depth (m)
1.000	S2000		180 minute 30 year Summer I+0%	180	29	29.931	29.068	-0.157
1.001	S2001		180 minute 30 year Summer I+0%	180	29	29.950	28.848	-0.147
1.002	S2002		180 minute 30 year Summer I+0%	180	30	29.382	28.686	-0.209
2.000	Tank		180 minute 30 year Summer I+0%	180	24	29.140	28.259	-0.742
1.003	S2003		180 minute 30 year Summer I+0%	180	24	29.220	28.259	0.189
3.000	S2200		180 minute 30 year Summer I+0%	180	29	29.815	29.047	-0.103
3.001	S2100		180 minute 30 year Summer I+0%	180	29	29.140	28.781	-0.269
1.004	S2004		180 minute 30 year Summer I+0%	180	24	29.140	28.267	0.507

Flooded

US/MH Name

Volume (m³)

Flow / Overflow Cap. (l/s)

Overflow Act.

Overflow Vol (m³)

Overflow Vol (m³)

Level Exceeded

Maximum Vol (m³)

1.000

S2000

0.000

0.20

0.018

1.001

S2001

0.000

0.26

0.097

1.002

S2002

0.000

0.20

0.027

2.000

Tank

0.000

0.00

0.000

1.003

S2003

0.000

0.16

31.776

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Summary Wizard of 240 minute 30 year Summer I+0% for Storm

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	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	0.280
Region	England and Wales	Cv (Summer)	1.000
M5-60 (mm)	19.000	Cv (Winter)	1.000

Margin for Flood Risk Warning (mm)	300.0
Analysis Timestep	2.5 Second Increment (Extended)
DTS Status	OFF
DVD Status	ON
Inertia 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, 2, 5, 30, 100
Climate Change (%)	0, 0, 0, 0, 45

PN	US/MH	US	Event	Duration (mins)	Storm Rank	US/CL (m)	Water	Surcharged
	Name	Label					Level (m)	Depth (m)
1.000	S2000	240 minute	30 year Summer I+0%	240	39	29.931	29.061	-0.164
1.001	S2001	240 minute	30 year Summer I+0%	240	39	29.950	28.841	-0.154
1.002	S2002	240 minute	30 year Summer I+0%	240	39	29.382	28.677	-0.218
2.000	Tank	240 minute	30 year Summer I+0%	240	29	29.140	28.213	-0.788
1.003	S2003	240 minute	30 year Summer I+0%	240	29	29.220	28.213	0.143
3.000	S2200	240 minute	30 year Summer I+0%	240	39	29.815	29.042	-0.108
3.001	S2100	240 minute	30 year Summer I+0%	240	38	29.140	28.778	-0.272
1.004	S2004	240 minute	30 year Summer I+0%	240	29	29.140	28.224	0.464

PN	US/MH Name	Flooded		Total				Level Exceeded	Maximum Vol (m³)
		Volume (m³)	Flow / Cap.	Overflow (l/s)	Overflow Act.	Overflow Vol (m³)	Overflow Vol (m³)		
1.000	S2000	0.000	0.16						0.016
1.001	S2001	0.000	0.22						0.088
1.002	S2002	0.000	0.17						0.025
2.000	Tank	0.000	0.00						0.000
1.003	S2003	0.000	0.16						28.676

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Summary Wizard of 240 minute 30 year Summer I+0% for Storm

Flooded				Total			
PN	US/MH Name	Volume (m³)	Flow / Overflow Cap. (l/s)	Overflow Act.	Overflow Vol (m³)	Overflow Vol (m³)	Level Exceeded
3.000	S2200	0.000	0.18				0.000
3.001	S2100	0.000	0.02				0.006
1.004	S2004	0.000	0.09				4.022

			Maximum Discharge	Pipe Velocity	Pipe Flow		
PN	US/MH Name	Vol (m³)	(m/s)	(l/s)	Status		
1.000	S2000	24.452	0.8	6.6	OK		
1.001	S2001	30.095	0.8	8.1	OK		
1.002	S2002	42.791	0.7	11.5	OK		
2.000	Tank	0.940	0.0	0.3	OK		
1.003	S2003	92.625	0.8	13.3	SURCHARGED		
3.000	S2200	10.345	0.7	2.8	OK		
3.001	S2100	19.280	1.9	5.2	OK		
1.004	S2004	111.903	2.5	13.1	SURCHARGED		

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Summary Wizard of 360 minute 30 year Summer I+0% for Storm

Simulation Criteria

Areal Reduction Factor 1.000	Additional Flow - % of Total Flow 0.000
Hot Start (mins) 0	MADD Factor * 10m³/ha Storage 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 0.280
Region England and Wales Cv (Summer)	1.000	
M5-60 (mm)	19.000 Cv (Winter)	1.000

Margin for Flood Risk Warning (mm)	300.0
Analysis Timestep 2.5 Second Increment (Extended)	
DTS Status	OFF
DVD Status	ON
Inertia 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, 2, 5, 30, 100
Climate Change (%)	0, 0, 0, 0, 45

PN	US/MH Name	US Label	Event	Duration (mins)	Storm Rank	US/CL (m)	Water Level (m)	Surcharged Depth (m)
1.000	S2000		360 minute 30 year Summer I+0%	360	49	29.931	29.053	-0.172
1.001	S2001		360 minute 30 year Summer I+0%	360	49	29.950	28.831	-0.164
1.002	S2002		360 minute 30 year Summer I+0%	360	49	29.382	28.666	-0.229
2.000	Tank		360 minute 30 year Summer I+0%	360	33	29.140	28.131	-0.870
1.003	S2003		360 minute 30 year Summer I+0%	360	33	29.220	28.131	0.061
3.000	S2200		360 minute 30 year Summer I+0%	360	49	29.815	29.036	-0.114
3.001	S2100		360 minute 30 year Summer I+0%	360	49	29.140	28.771	-0.279
1.004	S2004		360 minute 30 year Summer I+0%	360	34	29.140	28.136	0.376

	Flooded US/MH Name	Volume (m³)	Flow / Overflow Cap. (l/s)	Total Overflow Act. Vol (m³)	Total Overflow Vol (m³)	Level Exceeded	Maximum Vol (m³)
1.000	S2000	0.000	0.13				0.014
1.001	S2001	0.000	0.17				0.075
1.002	S2002	0.000	0.13				0.021
2.000	Tank	0.000	0.00				0.000
1.003	S2003	0.000	0.15				23.131

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Summary Wizard of 360 minute 30 year Summer I+0% for Storm

Flooded				Total			
PN	US/MH Name	Volume (m³)	Flow / Overflow Cap. (l/s)	Overflow Act.	Overflow Vol (m³)	Overflow Vol (m³)	Level Exceeded
3.000	S2200	0.000	0.13				0.000
3.001	S2100	0.000	0.01				0.005
1.004	S2004	0.000	0.09				3.798

		Maximum		Pipe		
		US/MH Discharge	Velocity	Flow		
PN	Name	Vol (m³)	(m/s)	(l/s)	Status	
1.000	S2000	27.743	0.7	5.0	OK	
1.001	S2001	34.145	0.7	6.2	OK	
1.002	S2002	48.550	0.7	8.8	OK	
2.000	Tank	1.067	0.0	0.2	OK	
1.003	S2003	105.088	0.8	12.4	SURCHARGED	
3.000	S2200	11.738	0.6	2.1	OK	
3.001	S2100	21.874	1.9	4.0	OK	
1.004	S2004	126.961	2.4	12.3	SURCHARGED	

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Summary Wizard of 480 minute 30 year Summer I+0% for Storm

Simulation Criteria

Areal Reduction Factor 1.000Additional Flow - % of Total Flow 0.000

Hot Start (mins) 0MADD Factor * 10m³/ha Storage 0.000

Hot Start Level (mm) 0Inlet Coefficient 0.800

Manhole Headloss Coeff (Global) 0.500Flow per Person per Day (l/per/day) 0.000

Foul Sewage per hectare (l/s) 0.000

Number of Input Hydrographs 0Number of Storage Structures 1

Number of Online Controls 1Number of Time/Area Diagrams 0

Number of Offline Controls 0Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall ModelFSRRatio R 0.280

Region England and Wales Cv (Summer) 1.000

M5-60 (mm)19.000 Cv (Winter) 1.000

Margin for Flood Risk Warning (mm)300.0

Analysis Timestep 2.5 Second Increment (Extended)

DTS StatusOFF

DVD StatusON

Inertia StatusON

Profile(s)Summer and Winter

Duration(s) (mins)15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440

Return Period(s) (years)1, 2, 5, 30, 100

Climate Change (%)0, 0, 0, 0, 45

PN	US/MH Name	US Label	Event	Duration (mins)	Storm Rank	US/CL (m)	Water Level (m)	Surcharged Depth (m)
1.000	S2000		480 minute 30 year Summer I+0%	480	59	29.931	29.048	-0.177
1.001	S2001		480 minute 30 year Summer I+0%	480	59	29.950	28.825	-0.170
1.002	S2002		480 minute 30 year Summer I+0%	480	59	29.382	28.660	-0.235
2.000	Tank		480 minute 30 year Summer I+0%	480	38	29.140	28.060	-0.941
1.003	S2003		480 minute 30 year Summer I+0%	480	38	29.220	28.060	-0.010
3.000	S2200		480 minute 30 year Summer I+0%	480	59	29.815	29.033	-0.117
3.001	S2100		480 minute 30 year Summer I+0%	480	59	29.140	28.767	-0.283
1.004	S2004		480 minute 30 year Summer I+0%	480	38	29.140	28.038	0.278

FloodedTotal

US/MH NameVolume (m³)Flow / Overflow Cap. (l/s)Overflow Act.Overflow Vol (m³)Overflow Vol (m³)Level ExceededMaximum Vol (m³)

1.000 S20000.0000.100.0000.0000.0000.012

1.001 S20010.0000.140.0000.0000.0000.067

1.002 S20020.0000.110.0000.0000.0000.019

2.000 Tank0.0000.000.0000.0000.0000.000

1.003 S20030.0000.120.0000.0000.00018.348

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Summary Wizard of 720 minute 30 year Summer I+0% for Storm

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	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	0.280
Region	England and Wales	Cv (Summer)	1.000
M5-60 (mm)	19.000	Cv (Winter)	1.000

Margin for Flood Risk Warning (mm)	300.0
Analysis Timestep	2.5 Second Increment (Extended)
DTS Status	OFF
DVD Status	ON
Inertia 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, 2, 5, 30, 100
Climate Change (%)	0, 0, 0, 0, 45

PN	US/MH Name	US Label	Event	Duration (mins)	Storm Rank	US/CL (m)	Water Level (m)	Surcharged Depth (m)
1.000	S2000		720 minute 30 year Summer I+0%	720	69	29.931	29.041	-0.184
1.001	S2001		720 minute 30 year Summer I+0%	720	69	29.950	28.818	-0.177
1.002	S2002		720 minute 30 year Summer I+0%	720	69	29.382	28.651	-0.244
2.000	Tank		720 minute 30 year Summer I+0%	720	56	29.140	27.957	-1.044
1.003	S2003		720 minute 30 year Summer I+0%	720	56	29.220	27.957	-0.113
3.000	S2200		720 minute 30 year Summer I+0%	720	69	29.815	29.029	-0.121
3.001	S2100		720 minute 30 year Summer I+0%	720	69	29.140	28.763	-0.287
1.004	S2004		720 minute 30 year Summer I+0%	720	56	29.140	27.946	0.186

Flooded

PN	US/MH Name	Volume (m³)	Flow / Cap.	Overflow (l/s)	Overflow Act.	Overflow Vol (m³)	Total Overflow Vol (m³)	Level Exceeded	Maximum Vol (m³)
1.000	S2000	0.000	0.08						0.010
1.001	S2001	0.000	0.10						0.057
1.002	S2002	0.000	0.08						0.016
2.000	Tank	0.000	0.00						0.000
1.003	S2003	0.000	0.10						11.370

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Summary Wizard of 960 minute 30 year Summer I+0% for Storm

Simulation Criteria

Areal Reduction Factor 1.000Additional Flow - % of Total Flow 0.000

Hot Start (mins) 0MADD Factor * 10m³/ha Storage 0.000

Hot Start Level (mm) 0Inlet Coefficient 0.800

Manhole Headloss Coeff (Global) 0.500Flow per Person per Day (l/per/day) 0.000

Foul Sewage per hectare (l/s) 0.000

Number of Input Hydrographs 0Number of Storage Structures 1

Number of Online Controls 1Number of Time/Area Diagrams 0

Number of Offline Controls 0Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall ModelFSRRatio R 0.280

Region England and Wales Cv (Summer) 1.000

M5-60 (mm)19.000 Cv (Winter) 1.000

Margin for Flood Risk Warning (mm)300.0

Analysis Timestep 2.5 Second Increment (Extended)

DTS StatusOFF

DVD StatusON

Inertia StatusON

Profile(s)Summer and Winter

Duration(s) (mins)15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440

Return Period(s) (years)1, 2, 5, 30, 100

Climate Change (%)0, 0, 0, 0, 45

PN	US/MH Name	US Label	Event	Duration (mins)	Storm Rank	US/CL (m)	Water Level (m)	Surcharged Depth (m)
1.000	S2000		960 minute 30 year Summer I+0%	960	78	29.931	29.037	-0.188
1.001	S2001		960 minute 30 year Summer I+0%	960	78	29.950	28.814	-0.181
1.002	S2002		960 minute 30 year Summer I+0%	960	78	29.382	28.644	-0.251
2.000	Tank		960 minute 30 year Summer I+0%	960	72	29.140	27.893	-1.108
1.003	S2003		960 minute 30 year Summer I+0%	960	72	29.220	27.893	-0.177
3.000	S2200		960 minute 30 year Summer I+0%	960	78	29.815	29.025	-0.125
3.001	S2100		960 minute 30 year Summer I+0%	960	78	29.140	28.761	-0.289
1.004	S2004		960 minute 30 year Summer I+0%	960	71	29.140	27.882	0.122

Flooded

US/MH Name

Volume (m³)

Flow / Overflow Cap. (l/s)

Overflow Act.

Overflow Vol (m³)

Overflow Vol (m³)

Level Exceeded

Maximum Vol (m³)

1.000

S2000

0.000

0.06

0.009

1.001

S2001

0.000

0.08

0.052

1.002

S2002

0.000

0.06

0.014

2.000

Tank

0.000

0.00

0.000

1.003

S2003

0.000

0.10

6.971

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Summary Wizard of 960 minute 30 year Summer I+0% for Storm

Flooded					Total			Level Exceeded	Maximum Vol (m³)
PN	US/MH Name	Volume (m³)	Flow / Overflow Cap. (l/s)	Overflow Act. Vol (m³)	Overflow Vol (m³)	Overflow Vol (m³)	Level Exceeded		
3.000	S2200	0.000	0.07						0.000
3.001	S2100	0.000	0.01						0.002
1.004	S2004	0.000	0.07						2.516

		US/MH Discharge		Maximum Velocity	Pipe Flow	Status
PN	Name	Vol (m³)	(m/s)	(l/s)		
1.000	S2000	37.267	0.6	2.5		OK
1.001	S2001	45.868	0.6	3.1		OK
1.002	S2002	65.218	0.6	4.4		OK
2.000	Tank	1.433	0.0	0.1		OK
1.003	S2003	141.186	0.7	8.0		OK
3.000	S2200	15.767	0.5	1.1		OK
3.001	S2100	29.384	1.1	2.0		OK
1.004	S2004	170.568	2.3	9.7	SURCHARGED	

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Summary Wizard of 1440 minute 30 year Summer I+0% for Storm

Simulation Criteria

Areal Reduction Factor 1.000

Hot Start (mins) 0

Hot Start Level (mm) 0

Manhole Headloss Coeff (Global) 0.500

Foul Sewage per hectare (l/s) 0.000

Additional Flow - % of Total Flow 0.000

MADD Factor * 10m³/ha Storage 0.000

Inlet Coeffiecient 0.800

Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0

Number of Online Controls 1

Number of Offline Controls 0

Number of Storage Structures 1

Number of Time/Area Diagrams 0

Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model FSR

Region England and Wales Cv (Summer) 1.000

M5-60 (mm) 19.000 Cv (Winter) 1.000

Ratio R 0.280

Margin for Flood Risk Warning (mm) 300.0

Analysis Timestep 2.5 Second Increment (Extended)

DTS Status OFF

DVD Status ON

Inertia 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, 2, 5, 30, 100

Climate Change (%) 0, 0, 0, 0, 45

PN	US/MH Name	US Label	Event	Duration (mins)	Storm Rank	US/CL (m)	Water Level (m)	Surcharged Depth (m)
1.000	S2000		1440 minute 30 year Summer I+0%	1440	92	29.931	29.031	-0.194
1.001	S2001		1440 minute 30 year Summer I+0%	1440	92	29.950	28.807	-0.188
1.002	S2002		1440 minute 30 year Summer I+0%	1440	92	29.382	28.637	-0.258
2.000	Tank		1440 minute 30 year Summer I+0%	1440	89	29.140	27.833	-1.168
1.003	S2003		1440 minute 30 year Summer I+0%	1440	89	29.220	27.833	-0.237
3.000	S2200		1440 minute 30 year Summer I+0%	1440	92	29.815	29.022	-0.128
3.001	S2100		1440 minute 30 year Summer I+0%	1440	92	29.140	28.758	-0.292
1.004	S2004		1440 minute 30 year Summer I+0%	1440	89	29.140	27.788	0.028

Flooded

US/MH Name

Volume (m³)

Flow / Cap. (l/s)

Overflow (l/s)

Overflow Act.

Overflow Vol (m³)

Overflow Vol (m³)

Level Exceeded

Maximum Vol (m³)

1.000	S2000	0.000	0.05						0.007
1.001	S2001	0.000	0.06						0.042
1.002	S2002	0.000	0.05						0.012
2.000	Tank	0.000	0.00						0.000
1.003	S2003	0.000	0.08						3.378

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Summary Wizard of 1440 minute 30 year Summer I+0% for Storm

Flooded				Total			
PN	US/MH Name	Volume (m³)	Flow / Overflow Cap. (l/s)	Overflow Act.	Overflow Vol (m³)	Overflow Vol (m³)	Level Exceeded
3.000	S2200	0.000	0.05				0.000
3.001	S2100	0.000	0.01				0.001
1.004	S2004	0.000	0.06				1.566

		Maximum		Pipe		
		US/MH Discharge	Velocity	Flow		
PN	Name	Vol (m³)	(m/s)	(l/s)	Status	
1.000	S2000	41.945	0.6	1.9	OK	
1.001	S2001	51.624	0.6	2.3	OK	
1.002	S2002	73.403	0.5	3.3	OK	
2.000	Tank	1.613	0.0	0.1	OK	
1.003	S2003	158.906	0.7	7.1	OK	
3.000	S2200	17.746	0.5	0.8	OK	
3.001	S2100	33.072	0.8	1.5	OK	
1.004	S2004	191.976	2.2	8.4	SURCHARGED	

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Summary Wizard of 15 minute 100 year Summer I+45% for Storm

Simulation Criteria

Areal Reduction Factor 1.000

Additional Flow - % of Total Flow 0.000

Hot Start (mins) 0

MADD Factor * 10m³/ha Storage 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 0.280

Region England and Wales Cv (Summer) 1.000

M5-60 (mm) 19.000 Cv (Winter) 1.000

Margin for Flood Risk Warning (mm) 300.0

Analysis Timestep 2.5 Second Increment (Extended)

DTS Status OFF

DVD Status ON

Inertia 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, 2, 5, 30, 100

Climate Change (%) 0, 0, 0, 0, 45

PN	US/MH Name	US Label	Event	Duration (mins)	Storm Rank	US/CL (m)	Water Level (m)	Surcharged Depth (m)
1.000	S2000		15 minute 100 year Summer I+45%	15	1	29.931	29.206	-0.019
1.001	S2001		15 minute 100 year Summer I+45%	15	2	29.950	29.023	0.028
1.002	S2002		15 minute 100 year Summer I+45%	15	8	29.382	28.816	-0.079
2.000	Tank		15 minute 100 year Summer I+45%	15	15	29.140	28.584	-0.417
1.003	S2003		15 minute 100 year Summer I+45%	15	15	29.220	28.584	0.514
3.000	S2200		15 minute 100 year Summer I+45%	15	1	29.815	29.116	-0.034
3.001	S2100		15 minute 100 year Summer I+45%	15	8	29.140	28.816	-0.234
1.004	S2004		15 minute 100 year Summer I+45%	15	16	29.140	28.582	0.822

PN	US/MH Name	Flooded Volume (m³)	Flow / Cap. (l/s)	Overflow (l/s)	Overflow Act.	Overflow Vol (m³)	Overflow Vol (m³)	Level Exceeded	Maximum Vol (m³)
1.000	S2000	0.000	0.87						0.057
1.001	S2001	0.000	1.16						0.842
1.002	S2002	0.000	0.88						0.284
2.000	Tank	0.000	0.00						0.000
1.003	S2003	0.000	0.22						53.968

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Summary Wizard of 15 minute 100 year Summer I+45% for Storm

Flooded					Total		
PN	US/MH Name	Volume (m³)	Flow / Overflow Cap. (l/s)	Overflow Act. Vol (m³)	Overflow Vol (m³)	Level Exceeded	Maximum Vol (m³)
3.000	S2200	0.000	0.95				0.000
3.001	S2100	0.000	0.11				0.017
1.004	S2004	0.000	0.11				4.941

		Maximum		Pipe		
		US/MH Discharge	Velocity	Flow		
PN	Name	Vol (m³)	(m/s)	(l/s)	Status	
1.000	S2000	15.517	1.1	34.8	OK	
1.001	S2001	19.099	1.1	42.9	SURCHARGED	
1.002	S2002	27.157	1.1	60.2	OK	
2.000	Tank	0.595	0.0	1.4	OK	
1.003	S2003	38.116	0.9	18.6	SURCHARGED	
3.000	S2200	6.569	1.0	15.0	OK	
3.001	S2100	12.239	2.6	29.5	OK	
1.004	S2004	46.625	2.6	16.2	SURCHARGED	

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<u>Summary Wizard of 120 minute 100 year Summer I+45% for Storm</u>									
Simulation Criteria									
Areal Reduction Factor		1.000		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 Online Controls				1					
Number of Offline Controls				0					
Synthetic Rainfall Details									
Rainfall Model		FSR		Ratio R		0.280			
Region England and Wales		Cv (Summer)		1.000					
M5-60 (mm)		19.000		Cv (Winter)		1.000			
Margin for Flood Risk Warning (mm)				300.0					
Analysis Timestep				2.5 Second Increment (Extended)					
DTS Status				OFF					
DVD Status				ON					
Inertia 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, 2, 5, 30, 100							
Climate Change (%)		0, 0, 0, 0, 45							
Water									
PN	US/MH Name	US Label	Event		Duration (mins)	Storm Rank	US/CL (m)	Level (m)	
1.000	S2000		120 minute	100 year Summer I+45%	120	7	29.931	29.110	
1.001	S2001		120 minute	100 year Summer I+45%	120	1	29.950	29.094	
1.002	S2002		120 minute	100 year Summer I+45%	120	1	29.382	29.084	
2.000	Tank		120 minute	100 year Summer I+45%	120	1	29.140	29.076	
1.003	S2003		120 minute	100 year Summer I+45%	120	1	29.220	29.076	
3.000	S2200		120 minute	100 year Summer I+45%	120	7	29.815	29.076	
3.001	S2100		120 minute	100 year Summer I+45%	120	1	29.140	29.059	
1.004	S2004		120 minute	100 year Summer I+45%	120	1	29.140	29.056	
Surcharged Flooded									
PN	US/MH Name	Depth (m)	Volume (m³)	Flow / Cap.	Overflow (l/s)	Overflow Act.	Overflow Vol (m³)	Total Overflow Vol (m³)	Level Exceeded
1.000	S2000	-0.115	0.000	0.48					
1.001	S2001	0.099	0.000	0.64					
1.002	S2002	0.189	0.000	0.49					
2.000	Tank	0.075	0.000	0.00					
1.003	S2003	1.006	0.000	0.21					
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Summary Wizard of 120 minute 100 year Summer I+45% for Storm

		Surcharged		Flooded				Total	
PN	US/MH Name	Depth (m)	Volume (m³)	Flow / Cap.	Overflow (l/s)	Overflow Act.	Overflow Vol (m³)	Overflow Vol (m³)	Level Exceeded
3.000	S2200	-0.074	0.000	0.51					
3.001	S2100	0.009	0.000	0.06					
1.004	S2004	1.296	0.000	0.14					

		US/MH		Maximum		Discharge		Maximum		Pipe	
PN	Name	Vol (m³)	Vol (m³)	Vol (m³)	Vol (m³)	Vol (m³)	Vol (m³)	Vol (m³)	Vol (m³)	Vol (m³)	Status
1.000	S2000	0.030	37.262	1.0	19.1						OK
1.001	S2001	1.189	45.861	1.0	23.5						SURCHARGED
1.002	S2002	0.717	65.209	1.0	33.5						FLOOD RISK
2.000	Tank	0.000	1.433	0.0	0.7						FLOOD RISK
1.003	S2003	82.386	140.955	0.8	17.9						FLOOD RISK
3.000	S2200	0.000	15.765	0.9	8.1						OK
3.001	S2100	0.206	29.380	2.2	15.2						FLOOD RISK
1.004	S2004	6.029	170.275	2.8	19.5						FLOOD RISK

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Summary Wizard of 180 minute 100 year Summer I+45% for Storm

Surcharged Flooded					Total			
PN	US/MH Name	Depth (m)	Volume (m³)	Flow / Overflow Cap. (l/s)	Overflow Act.	Overflow Vol (m³)	Overflow Vol (m³)	Level Exceeded
3.000	S2200	-0.084	0.000	0.40				
3.001	S2100	-0.094	0.000	0.04				
1.004	S2004	1.191	0.000	0.13				

		US/MH		Maximum	Discharge	Maximum	Pipe		
PN	Name	Vol (m³)	Vol (m³)	(m/s)	(l/s)	(m/s)	(l/s)	Status	
1.000	S2000	0.025	42.345	0.9	15.0			OK	
1.001	S2001	0.584	52.117	0.9	18.4			OK	
1.002	S2002	0.651	74.103	0.9	26.2			SURCHARGED	
2.000	Tank	0.000	1.629	0.0	0.6			FLOOD RISK	
1.003	S2003	80.696	160.410	0.7	17.2			FLOOD RISK	
3.000	S2200	0.000	17.916	0.9	6.3			OK	
3.001	S2100	0.069	33.388	2.1	11.9			FLOOD RISK	
1.004	S2004	5.838	193.796	2.7	18.8			FLOOD RISK	

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Summary Wizard of 240 minute 100 year Summer I+45% for Storm

Surcharged Flooded					Total			
PN	US/MH Name	Depth (m)	Volume (m ³)	Flow / Cap.	Overflow (l/s)	Overflow Act.	Overflow Vol (m ³)	Level Exceeded
3.000	S2200	-0.091	0.000	0.33				
3.001	S2100	-0.154	0.000	0.04				
1.004	S2004	1.133	0.000	0.13				

		US/MH		Maximum	Discharge	Maximum	Pipe		
		PN	Name	Vol (m ³)	Vol (m ³)	(m/s)	(l/s)	Status	
1.000	S2000			0.023	46.041	0.9	12.4	OK	
1.001	S2001			0.331	56.666	0.9	15.2	OK	
1.002	S2002			0.575	80.575	0.9	21.7	SURCHARGED	
2.000	Tank			0.000	1.771	0.0	0.5	FLOOD RISK	
1.003	S2003			76.809	174.405	0.7	17.2	SURCHARGED	
3.000	S2200			0.000	19.479	0.8	5.2	OK	
3.001	S2100			0.044	36.302	2.0	9.8	FLOOD RISK	
1.004	S2004			5.708	210.705	2.7	18.4	FLOOD RISK	

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<u>Summary Wizard of 360 minute 100 year Summer I+45% for Storm</u>									
Simulation Criteria									
Areal Reduction Factor		1.000		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		0.280			
Region England and Wales Cv (Summer)		1.000							
M5-60 (mm)		19.000		Cv (Winter)		1.000			
Margin for Flood Risk Warning (mm)						300.0			
Analysis Timestep		2.5 Second Increment (Extended)							
DTS Status						OFF			
DVD Status						ON			
Inertia 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, 2, 5, 30, 100							
Climate Change (%)		0, 0, 0, 0, 45							
Water									
PN	US/MH Name	US Label	Event		Duration (mins)	Storm Rank	US/CL (m)	Level (m)	
1.000	S2000		360 minute 100 year Summer I+45%		360	27	29.931	29.074	
1.001	S2001		360 minute 100 year Summer I+45%		360	25	29.950	28.856	
1.002	S2002		360 minute 100 year Summer I+45%		360	13	29.382	28.800	
2.000	Tank		360 minute 100 year Summer I+45%		360	11	29.140	28.793	
1.003	S2003		360 minute 100 year Summer I+45%		360	11	29.220	28.793	
3.000	S2200		360 minute 100 year Summer I+45%		360	27	29.815	29.051	
3.001	S2100		360 minute 100 year Summer I+45%		360	16	29.140	28.792	
1.004	S2004		360 minute 100 year Summer I+45%		360	11	29.140	28.789	
Surcharged Flooded									
PN	US/MH Name	Depth (m)	Volume (m³)	Flow / Cap.	Overflow (l/s)	Overflow Act.	Overflow Vol (m³)	Total Overflow Vol (m³)	Level Exceeded
1.000	S2000	-0.151	0.000	0.23					
1.001	S2001	-0.139	0.000	0.31					
1.002	S2002	-0.095	0.000	0.24					
2.000	Tank	-0.208	0.000	0.00					
1.003	S2003	0.723	0.000	0.21					
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Summary Wizard of 480 minute 100 year Summer I+45% for Storm

Surcharged Flooded					Total			
PN	US/MH Name	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (l/s)	Overflow Act.	Overflow Vol (m ³)	Overflow Vol (m ³)	Level Exceeded
3.000	S2200	-0.104	0.000	0.20				
3.001	S2100	-0.269	0.000	0.02				
1.004	S2004	0.923	0.000	0.12				

		US/MH		Maximum	Discharge	Maximum	Pipe		
PN	Name	Vol (m ³)	Vol (m ³)	(m/s)	(l/s)	(m/s)	(l/s)	Status	
1.000	S2000	0.017	56.250	0.8	7.7			OK	
1.001	S2001	0.096	69.231	0.8	9.4			OK	
1.002	S2002	0.030	98.438	0.8	13.4			OK	
2.000	Tank	0.000	2.163	0.0	0.3			OK	
1.003	S2003	61.398	213.083	0.8	16.5			SURCHARGED	
3.000	S2200	0.000	23.798	0.7	3.2			OK	
3.001	S2100	0.007	44.351	1.9	6.0			OK	
1.004	S2004	5.199	257.432	2.7	16.9			SURCHARGED	

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<u>Summary Wizard of 600 minute 100 year Summer I+45% for Storm</u>											
Simulation Criteria											
Areal Reduction Factor		1.000		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		0.280					
Region England and Wales Cv (Summer)		1.000									
M5-60 (mm)		19.000		Cv (Winter)		1.000					
Margin for Flood Risk Warning (mm)		300.0									
Analysis Timestep		2.5 Second Increment (Extended)									
DTS Status		OFF									
DVD Status		ON									
Inertia 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, 2, 5, 30, 100									
Climate Change (%)		0, 0, 0, 0, 45									
Water											
US/MH		US		Duration		Storm		US/CL		Water	
PN		Name Label		Event		(mins)		Rank		(m) Level	
1.000		S2000		600 minute 100 year Summer I+45%		600		40		29.931 29.060	
1.001		S2001		600 minute 100 year Summer I+45%		600		40		29.950 28.841	
1.002		S2002		600 minute 100 year Summer I+45%		600		40		29.382 28.677	
2.000		Tank		600 minute 100 year Summer I+45%		600		14		29.140 28.586	
1.003		S2003		600 minute 100 year Summer I+45%		600		14		29.220 28.587	
3.000		S2200		600 minute 100 year Summer I+45%		600		40		29.815 29.042	
3.001		S2100		600 minute 100 year Summer I+45%		600		40		29.140 28.777	
1.004		S2004		600 minute 100 year Summer I+45%		600		14		29.140 28.591	
Surcharged Flooded								Total			
US/MH		Depth		Volume		Flow / Overflow		Overflow		Level	
PN		Name		(m)		(m³)		Cap. (l/s)		Act. Vol (m³) Exceeded	
1.000		S2000		-0.165		0.000		0.16			
1.001		S2001		-0.154		0.000		0.22			
1.002		S2002		-0.218		0.000		0.17			
2.000		Tank		-0.415		0.000		0.00			
1.003		S2003		0.517		0.000		0.19			
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Summary Wizard of 1440 minute 100 year Summer I+45% for Storm

Simulation Criteria

Areal Reduction Factor 1.000

Hot Start (mins) 0

Hot Start Level (mm) 0

Manhole Headloss Coeff (Global) 0.500

Foul Sewage per hectare (l/s) 0.000

Additional Flow - % of Total Flow 0.000

MADD Factor * 10m³/ha Storage 0.000

Inlet Coefficient 0.800

Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0

Number of Online Controls 1

Number of Offline Controls 0

Number of Storage Structures 1

Number of Time/Area Diagrams 0

Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model FSR

Region England and Wales Cv

M5-60 (mm) 19.000

Ratio R 0.280

(Summer) 1.000

Cv (Winter) 1.000

Margin for Flood Risk Warning (mm) 300.0

Analysis Timestep 2.5

DTS Status OFF

DVD Status ON

Inertia Status ON

Second Increment (Extended)

Profile(s) Summer and Winter

Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440

Return Period(s) (years) 1, 2, 5, 30, 100

Climate Change (%) 0, 0, 0, 0, 45

PN	US/MH Name	US Label	Event	Duration (mins)	Storm Rank	US/CL (m)	Water Level (m)
1.000	S2000		1440 minute 100 year Summer I+45%	1440	67	29.931	29.044
1.001	S2001		1440 minute 100 year Summer I+45%	1440	67	29.950	28.820
1.002	S2002		1440 minute 100 year Summer I+45%	1440	67	29.382	28.655
2.000	Tank		1440 minute 100 year Summer I+45%	1440	34	29.140	28.126
1.003	S2003		1440 minute 100 year Summer I+45%	1440	34	29.220	28.126
3.000	S2200		1440 minute 100 year Summer I+45%	1440	67	29.815	29.030
3.001	S2100		1440 minute 100 year Summer I+45%	1440	67	29.140	28.764
1.004	S2004		1440 minute 100 year Summer I+45%	1440	33	29.140	28.136

Surcharged Flooded

US/MH Name

Depth (m)

Volume (m³)

Flow / Overflow Cap. (l/s)

Overflow Act.

Overflow Vol (m³)

Overflow Vol (m³)

Total Level Exceeded

PN

US/MH Name

Depth (m)

Volume (m³)

Flow / Overflow Cap. (l/s)

Overflow Act.

Overflow Vol (m³)

Overflow Vol (m³)

Total Level Exceeded

1.000

S2000

-0.181

0.000

0.09

1.001

S2001

-0.175

0.000

0.11

1.002

S2002

-0.240

0.000

0.09

2.000

Tank

-0.875

0.000

0.00

1.003

S2003

0.056

0.000

0.14

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Summary Wizard of 30 minute 1 year Winter I+0% for Storm

Flooded				Total			
PN	US/MH Name	Volume (m³)	Flow / Overflow Cap. (l/s)	Overflow Act.	Overflow Vol (m³)	Overflow Vol (m³)	Level Exceeded
3.000	S2200	0.000	0.16				0.000
3.001	S2100	0.000	0.02				0.005
1.004	S2004	0.000	0.07				2.675

		Maximum		Pipe		
		US/MH Discharge	Velocity	Flow		
PN	Name	Vol (m³)	(m/s)	(l/s)	Status	
1.000	S2000	4.663	0.7	5.9	OK	
1.001	S2001	5.739	0.7	7.2	OK	
1.002	S2002	8.159	0.7	10.0	OK	
2.000	Tank	0.179	0.0	0.2	OK	
1.003	S2003	17.064	0.9	13.1	OK	
3.000	S2200	1.973	0.7	2.5	OK	
3.001	S2100	3.676	1.9	4.5	OK	
1.004	S2004	20.628	2.3	9.9	SURCHARGED	

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Summary Wizard of 60 minute 1 year Winter I+0% for Storm

Simulation Criteria

Areal Reduction Factor 1.000

Additional Flow - % of Total Flow 0.000

Hot Start (mins) 0

MADD Factor * 10m³/ha Storage 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 0.280

Region England and Wales Cv (Summer) 1.000

M5-60 (mm)

19.000 Cv (Winter) 1.000

Margin for Flood Risk Warning (mm)

300.0

Analysis Timestep 2.5 Second Increment (Extended)

DTS Status

OFF

DVD Status

ON

Inertia 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, 2, 5, 30, 100

Climate Change (%)

0, 0, 0, 0, 45

						Water Surcharged		
PN	US/MH Name	US Label	Event	Duration (mins)	Storm Rank	US/CL (m)	Level (m)	Depth (m)
1.000	S2000		60 minute 1 year Winter I+0%	60	57	29.931	29.049	-0.176
1.001	S2001		60 minute 1 year Winter I+0%	60	57	29.950	28.826	-0.169
1.002	S2002		60 minute 1 year Winter I+0%	60	57	29.382	28.660	-0.235
2.000	Tank		60 minute 1 year Winter I+0%	60	69	29.140	27.907	-1.094
1.003	S2003		60 minute 1 year Winter I+0%	60	69	29.220	27.907	-0.163
3.000	S2200		60 minute 1 year Winter I+0%	60	57	29.815	29.034	-0.116
3.001	S2100		60 minute 1 year Winter I+0%	60	57	29.140	28.768	-0.282
1.004	S2004		60 minute 1 year Winter I+0%	60	69	29.140	27.897	0.137

Flooded

Total

PN	US/MH Name	Volume (m³)	Flow / Overflow Cap. (l/s)	Overflow Act.	Overflow Vol (m³)	Overflow Vol (m³)	Level Exceeded	Maximum Vol (m³)
1.000	S2000	0.000	0.11					0.012
1.001	S2001	0.000	0.14					0.068
1.002	S2002	0.000	0.11					0.019
2.000	Tank	0.000	0.00					0.000
1.003	S2003	0.000	0.13					7.980

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Summary Wizard of 60 minute 1 year Winter I+0% for Storm

Flooded				Total			
PN	US/MH Name	Volume (m³)	Flow / Overflow Cap. (l/s)	Overflow Act.	Overflow Vol (m³)	Overflow Vol (m³)	Level Exceeded
3.000	S2200	0.000	0.11				0.000
3.001	S2100	0.000	0.01				0.004
1.004	S2004	0.000	0.07				2.648

		Maximum		Pipe		
		US/MH Discharge	Velocity	Flow		
PN	Name	Vol (m³)	(m/s)	(l/s)	Status	
1.000	S2000	6.284	0.7	4.3	OK	
1.001	S2001	7.734	0.7	5.2	OK	
1.002	S2002	10.996	0.7	7.4	OK	
2.000	Tank	0.242	0.0	0.2	OK	
1.003	S2003	23.788	0.8	10.8	OK	
3.000	S2200	2.659	0.6	1.8	OK	
3.001	S2100	4.954	1.9	3.3	OK	
1.004	S2004	28.725	2.3	9.9	SURCHARGED	

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Summary Wizard of 120 minute 1 year Winter I+0% for Storm

Simulation Criteria

Areal Reduction Factor 1.000Additional Flow - % of Total Flow 0.000
Hot Start (mins) 0MADD Factor * 10m³/ha Storage 0.000
Hot Start Level (mm) 0Inlet Coefficient 0.800
Manhole Headloss Coeff (Global) 0.500Flow per Person per Day (l/per/day) 0.000
Foul Sewage per hectare (l/s) 0.000

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

Synthetic Rainfall Details

Rainfall ModelFSRRatio R 0.280
Region England and Wales Cv (Summer) 1.000
M5-60 (mm)19.000 Cv (Winter) 1.000

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

Profile(s)Summer and Winter
Duration(s) (mins)15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)1, 2, 5, 30, 100
Climate Change (%)0, 0, 0, 0, 45

							Water	Surcharged
PN	US/MH Name	US Label	Event	Duration (mins)	Storm Rank	US/CL (m)	Level (m)	Depth (m)
1.000	S2000		120 minute 1 year Winter I+0%	120	72	29.931	29.040	-0.185
1.001	S2001		120 minute 1 year Winter I+0%	120	73	29.950	28.817	-0.178
1.002	S2002		120 minute 1 year Winter I+0%	120	73	29.382	28.649	-0.246
2.000	Tank		120 minute 1 year Winter I+0%	120	79	29.140	27.874	-1.127
1.003	S2003		120 minute 1 year Winter I+0%	120	79	29.220	27.874	-0.196
3.000	S2200		120 minute 1 year Winter I+0%	120	72	29.815	29.028	-0.122
3.001	S2100		120 minute 1 year Winter I+0%	120	73	29.140	28.762	-0.288
1.004	S2004		120 minute 1 year Winter I+0%	120	79	29.140	27.864	0.104

Flooded

Total

PN	US/MH Name	Volume (m³)	Flow / Overflow Cap. (l/s)	Overflow Act.	Overflow Vol (m³)	Overflow Vol (m³)	Level Exceeded	Maximum Vol (m³)
1.000	S2000	0.000	0.07					0.010
1.001	S2001	0.000	0.10					0.056
1.002	S2002	0.000	0.07					0.015
2.000	Tank	0.000	0.00					0.000
1.003	S2003	0.000	0.11					5.705

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Summary Wizard of 240 minute 1 year Winter I+0% for Storm

Simulation Criteria

Areal Reduction Factor 1.000

Additional Flow - % of Total Flow 0.000

Hot Start (mins) 0

MADD Factor * 10m³/ha Storage 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 0.280

Region England and Wales Cv (Summer) 1.000

M5-60 (mm) 19.000 Cv (Winter) 1.000

Margin for Flood Risk Warning (mm) 300.0

Analysis Timestep 2.5 Second Increment (Extended)

DTS Status OFF

DVD Status ON

Inertia 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, 2, 5, 30, 100

Climate Change (%) 0, 0, 0, 0, 45

							Water	Surcharged
PN	US/MH Name	US Label	Event	Duration (mins)	Storm Rank	US/CL (m)	Level (m)	Depth (m)
1.000	S2000		240 minute 1 year Winter I+0%	240	91	29.931	29.032	-0.193
1.001	S2001		240 minute 1 year Winter I+0%	240	91	29.950	28.807	-0.188
1.002	S2002		240 minute 1 year Winter I+0%	240	91	29.382	28.638	-0.257
2.000	Tank		240 minute 1 year Winter I+0%	240	91	29.140	27.829	-1.172
1.003	S2003		240 minute 1 year Winter I+0%	240	91	29.220	27.830	-0.240
3.000	S2200		240 minute 1 year Winter I+0%	240	91	29.815	29.022	-0.128
3.001	S2100		240 minute 1 year Winter I+0%	240	91	29.140	28.758	-0.292
1.004	S2004		240 minute 1 year Winter I+0%	240	91	29.140	27.773	0.013

Flooded

Total

PN	US/MH Name	Volume (m³)	Flow / Overflow Cap. (l/s)	Overflow Act.	Overflow Vol (m³)	Overflow Vol (m³)	Level Exceeded	Maximum Vol (m³)
1.000	S2000	0.000	0.05					0.008
1.001	S2001	0.000	0.06					0.043
1.002	S2002	0.000	0.05					0.012
2.000	Tank	0.000	0.00					0.000
1.003	S2003	0.000	0.09					3.151

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Summary Wizard of 360 minute 1 year Winter I+0% for Storm

Simulation Criteria

Areal Reduction Factor 1.000

Additional Flow - % of Total Flow 0.000

Hot Start (mins) 0

MADD Factor * 10m³/ha Storage 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 0.280

Region England and Wales Cv (Summer) 1.000

M5-60 (mm) 19.000 Cv (Winter) 1.000

Margin for Flood Risk Warning (mm) 300.0

Analysis Timestep 2.5 Second Increment (Extended)

DTS Status OFF

DVD Status ON

Inertia 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, 2, 5, 30, 100

Climate Change (%) 0, 0, 0, 0, 45

							Water	Surcharged
US/MH	US			Duration	Storm	US/CL	Level	Depth
PN	Name	Label	Event	(mins)	Rank	(m)	(m)	(m)
1.000	S2000		360 minute 1 year Winter I+0%	360	102	29.931	29.028	-0.197
1.001	S2001		360 minute 1 year Winter I+0%	360	102	29.950	28.802	-0.193
1.002	S2002		360 minute 1 year Winter I+0%	360	102	29.382	28.633	-0.262
2.000	Tank		360 minute 1 year Winter I+0%	360	102	29.140	27.821	-1.180
1.003	S2003		360 minute 1 year Winter I+0%	360	103	29.220	27.821	-0.249
3.000	S2200		360 minute 1 year Winter I+0%	360	102	29.815	29.019	-0.131
3.001	S2100		360 minute 1 year Winter I+0%	360	102	29.140	28.756	-0.294
1.004	S2004		360 minute 1 year Winter I+0%	360	103	29.140	27.667	-0.093

Flooded

Total

US/MH	Volume	Flow /	Overflow	Overflow	Overflow	Overflow	Level	Maximum
PN	Name	(m³)	Cap.	(l/s)	Act.	Vol (m³)	Vol(m³)	Exceeded Vol (m³)
1.000	S2000	0.000	0.04					0.007
1.001	S2001	0.000	0.05					0.036
1.002	S2002	0.000	0.04					0.010
2.000	Tank	0.000	0.00					0.000
1.003	S2003	0.000	0.07					2.639

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Summary Wizard of 480 minute 1 year Winter I+0% for Storm

Simulation Criteria

Areal Reduction Factor 1.000Additional Flow - % of Total Flow 0.000

Hot Start (mins) 0MADD Factor * 10m³/ha Storage 0.000

Hot Start Level (mm) 0Inlet Coeffiecient 0.800

Manhole Headloss Coeff (Global) 0.500Flow per Person per Day (l/per/day) 0.000

Foul Sewage per hectare (l/s) 0.000

Number of Input Hydrographs 0Number of Storage Structures 1

Number of Online Controls 1Number of Time/Area Diagrams 0

Number of Offline Controls 0Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall ModelFSRRatio R 0.280

Region England and Wales Cv (Summer) 1.000

M5-60 (mm)19.000Cv (Winter) 1.000

Margin for Flood Risk Warning (mm)300.0

Analysis Timestep 2.5 Second Increment (Extended)

DTS StatusOFF

DVD StatusON

Inertia StatusON

Profile(s)Summer and Winter

Duration(s) (mins)15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440

Return Period(s) (years)1, 2, 5, 30, 100

Climate Change (%)0, 0, 0, 0, 45

							Water	Surcharged
	US/MH	US		Duration	Storm	US/CL	Level	Depth
PN	Name	Label	Event	(mins)	Rank	(m)	(m)	(m)
1.000	S2000		480 minute 1 year Winter I+0%	480	108	29.931	29.026	-0.199
1.001	S2001		480 minute 1 year Winter I+0%	480	108	29.950	28.799	-0.196
1.002	S2002		480 minute 1 year Winter I+0%	480	108	29.382	28.630	-0.265
2.000	Tank		480 minute 1 year Winter I+0%	480	108	29.140	27.816	-1.185
1.003	S2003		480 minute 1 year Winter I+0%	480	108	29.220	27.816	-0.254
3.000	S2200		480 minute 1 year Winter I+0%	480	108	29.815	29.018	-0.132
3.001	S2100		480 minute 1 year Winter I+0%	480	108	29.140	28.755	-0.295
1.004	S2004		480 minute 1 year Winter I+0%	480	108	29.140	27.647	-0.113

Flooded

US/MH

Volume

Flow / Overflow

Overflow

Overflow

Overflow

Level

Maximum

PN

Name

(m³)

Cap.

(l/s)

Act.

Vol (m³)

Vol(m³)

Exceeded

Vol (m³)

1.000

S2000

0.000

0.03

0.006

1.001

S2001

0.000

0.04

0.033

1.002

S2002

0.000

0.03

0.010

2.000

Tank

0.000

0.00

0.000

1.003

S2003

0.000

0.06

2.360

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Summary Wizard of 600 minute 1 year Winter I+0% for Storm

Simulation Criteria

Areal Reduction Factor 1.000

Additional Flow - % of Total Flow 0.000

Hot Start (mins) 0

MADD Factor * 10m³/ha Storage 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 0.280

Region England and Wales Cv (Summer) 1.000

M5-60 (mm) 19.000 Cv (Winter) 1.000

Margin for Flood Risk Warning (mm) 300.0

Analysis Timestep 2.5 Second Increment (Extended)

DTS Status OFF

DVD Status ON

Inertia 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, 2, 5, 30, 100

Climate Change (%) 0, 0, 0, 0, 45

							Water	Surcharged
PN	US/MH	US		Duration	Storm	US/CL	Level	Depth
	Name	Label	Event	(mins)	Rank	(m)	(m)	(m)
1.000	S2000		600 minute 1 year Winter I+0%	600	113	29.931	29.025	-0.200
1.001	S2001		600 minute 1 year Winter I+0%	600	113	29.950	28.798	-0.197
1.002	S2002		600 minute 1 year Winter I+0%	600	113	29.382	28.628	-0.267
2.000	Tank		600 minute 1 year Winter I+0%	600	113	29.140	27.812	-1.189
1.003	S2003		600 minute 1 year Winter I+0%	600	113	29.220	27.813	-0.257
3.000	S2200		600 minute 1 year Winter I+0%	600	113	29.815	29.017	-0.133
3.001	S2100		600 minute 1 year Winter I+0%	600	113	29.140	28.755	-0.295
1.004	S2004		600 minute 1 year Winter I+0%	600	113	29.140	27.635	-0.125

Flooded

Total

PN	US/MH	Volume	Flow /	Overflow	Overflow	Overflow	Overflow	Level	Maximum
	Name	(m³)	Cap.	(l/s)	Act.	Vol (m³)	Vol(m³)	Exceeded	Vol (m³)
1.000	S2000	0.000	0.03						0.006
1.001	S2001	0.000	0.04						0.030
1.002	S2002	0.000	0.03						0.009
2.000	Tank	0.000	0.00						0.000
1.003	S2003	0.000	0.05						2.174

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Summary Wizard of 720 minute 1 year Winter I+0% for Storm

Simulation Criteria

Areal Reduction Factor 1.000

Additional Flow - % of Total Flow 0.000

Hot Start (mins) 0

MADD Factor * 10m³/ha Storage 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 0.280

Region England and Wales Cv (Summer) 1.000

M5-60 (mm) 19.000 Cv (Winter) 1.000

Margin for Flood Risk Warning (mm) 300.0

Analysis Timestep 2.5 Second Increment (Extended)

DTS Status OFF

DVD Status ON

Inertia 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, 2, 5, 30, 100

Climate Change (%) 0, 0, 0, 0, 45

							Water	Surcharged
PN	US/MH	US		Duration	Storm	US/CL	Level	Depth
	Name	Label	Event	(mins)	Rank	(m)	(m)	(m)
1.000	S2000		720 minute 1 year Winter I+0%	720	115	29.931	29.024	-0.201
1.001	S2001		720 minute 1 year Winter I+0%	720	115	29.950	28.796	-0.199
1.002	S2002		720 minute 1 year Winter I+0%	720	115	29.382	28.627	-0.268
2.000	Tank		720 minute 1 year Winter I+0%	720	115	29.140	27.810	-1.191
1.003	S2003		720 minute 1 year Winter I+0%	720	115	29.220	27.810	-0.260
3.000	S2200		720 minute 1 year Winter I+0%	720	115	29.815	29.016	-0.134
3.001	S2100		720 minute 1 year Winter I+0%	720	115	29.140	28.754	-0.296
1.004	S2004		720 minute 1 year Winter I+0%	720	115	29.140	27.628	-0.132

Flooded

Total

PN	US/MH	Volume	Flow /	Overflow	Overflow	Overflow	Overflow	Level	Maximum
	Name	(m³)	Cap.	(l/s)	Act.	Vol (m³)	Vol(m³)	Exceeded	Vol (m³)
1.000	S2000	0.000	0.02						0.005
1.001	S2001	0.000	0.03						0.028
1.002	S2002	0.000	0.02						0.009
2.000	Tank	0.000	0.00						0.000
1.003	S2003	0.000	0.04						2.040

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Summary Wizard of 960 minute 1 year Winter I+0% for Storm

Simulation Criteria

Areal Reduction Factor 1.000

Additional Flow - % of Total Flow 0.000

Hot Start (mins) 0

MADD Factor * 10m³/ha Storage 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 0.280

Region England and Wales Cv (Summer) 1.000

M5-60 (mm) 19.000 Cv (Winter) 1.000

Margin for Flood Risk Warning (mm) 300.0

Analysis Timestep 2.5 Second Increment (Extended)

DTS Status OFF

DVD Status ON

Inertia 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, 2, 5, 30, 100

Climate Change (%) 0, 0, 0, 0, 45

							Water	Surcharged
PN	US/MH Name	US Label	Event	Duration (mins)	Storm Rank	US/CL (m)	Level (m)	Depth (m)
1.000	S2000		960 minute 1 year Winter I+0%	960	118	29.931	29.022	-0.203
1.001	S2001		960 minute 1 year Winter I+0%	960	118	29.950	28.795	-0.200
1.002	S2002		960 minute 1 year Winter I+0%	960	118	29.382	28.625	-0.270
2.000	Tank		960 minute 1 year Winter I+0%	960	118	29.140	27.807	-1.194
1.003	S2003		960 minute 1 year Winter I+0%	960	118	29.220	27.807	-0.263
3.000	S2200		960 minute 1 year Winter I+0%	960	118	29.815	29.015	-0.135
3.001	S2100		960 minute 1 year Winter I+0%	960	118	29.140	28.753	-0.297
1.004	S2004		960 minute 1 year Winter I+0%	960	118	29.140	27.618	-0.142

Flooded				Total					
PN	US/MH Name	Volume (m³)	Flow / Overflow Cap. (l/s)	Overflow Act.	Overflow Vol (m³)	Overflow Vol (m³)	Level Exceeded	Maximum Vol (m³)	
1.000	S2000	0.000	0.02					0.005	
1.001	S2001	0.000	0.03					0.026	
1.002	S2002	0.000	0.02					0.008	
2.000	Tank	0.000	0.00					0.000	
1.003	S2003	0.000	0.04					1.855	

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Summary Wizard of 1440 minute 1 year Winter I+0% for Storm

Simulation Criteria

Areal Reduction Factor 1.000

Additional Flow - % of Total Flow 0.000

Hot Start (mins) 0

MADD Factor * 10m³/ha Storage 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 0.280

Region England and Wales Cv (Summer) 1.000

M5-60 (mm) 19.000 Cv (Winter) 1.000

Margin for Flood Risk Warning (mm) 300.0

Analysis Timestep 2.5 Second Increment (Extended)

DTS Status OFF

DVD Status ON

Inertia 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, 2, 5, 30, 100

Climate Change (%) 0, 0, 0, 0, 45

								Water	Surcharged	
		US/MH	US			Duration	Storm	US/CL	Level	
PN	Name	Label	Event			(mins)	Rank	(m)	Depth	
								(m)	(m)	
1.000	S2000		1440 minute 1 year Winter I+0%			1440	120	29.931	29.017	-0.208
1.001	S2001		1440 minute 1 year Winter I+0%			1440	120	29.950	28.792	-0.203
1.002	S2002		1440 minute 1 year Winter I+0%			1440	120	29.382	28.618	-0.277
2.000	Tank		1440 minute 1 year Winter I+0%			1440	120	29.140	27.803	-1.198
1.003	S2003		1440 minute 1 year Winter I+0%			1440	120	29.220	27.803	-0.267
3.000	S2200		1440 minute 1 year Winter I+0%			1440	120	29.815	29.012	-0.138
3.001	S2100		1440 minute 1 year Winter I+0%			1440	120	29.140	28.753	-0.297
1.004	S2004		1440 minute 1 year Winter I+0%			1440	120	29.140	27.606	-0.154

Flooded

Total

US/MH

Volume

Flow / Overflow

Overflow

Overflow

Overflow

Level

Maximum

PN

Name

(m³)

Cap.

(l/s)

Act.

Vol (m³)

Vol(m³)

Exceeded

Vol (m³)

1.000

S2000

0.000

0.02

0.003

1.001

S2001

0.000

0.02

0.023

1.002

S2002

0.000

0.02

0.006

2.000

Tank

0.000

0.00

0.000

1.003

S2003

0.000

0.03

1.642

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Summary Wizard of 15 minute 2 year Winter I+0% for Storm

Flooded				Total			
PN	US/MH Name	Volume (m³)	Flow / Overflow Cap. (l/s)	Overflow Act.	Overflow Vol (m³)	Overflow Vol (m³)	Level Exceeded
3.000	S2200	0.000	0.25				0.000
3.001	S2100	0.000	0.03				0.008
1.004	S2004	0.000	0.07				2.930

		US/MH Discharge		Maximum Velocity	Pipe Flow		
PN	Name	Vol	(m³)	(m/s)	(l/s)	Status	
1.000	S2000	4.394		0.8	9.2	OK	
1.001	S2001	5.408		0.8	11.1	OK	
1.002	S2002	7.690		0.8	15.2	OK	
2.000	Tank	0.169		0.0	0.4	OK	
1.003	S2003	16.355		0.9	15.9	OK	
3.000	S2200	1.860		0.8	4.0	OK	
3.001	S2100	3.465		1.9	6.9	OK	
1.004	S2004	19.746		2.3	10.3	SURCHARGED	

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Summary Wizard of 60 minute 2 year Winter I+0% for Storm

Simulation Criteria

Areal Reduction Factor 1.000

Additional Flow - % of Total Flow 0.000

Hot Start (mins) 0

MADD Factor * 10m³/ha Storage 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 0.280

Region England and Wales Cv (Summer) 1.000

M5-60 (mm) 19.000 Cv (Winter) 1.000

Margin for Flood Risk Warning (mm) 300.0

Analysis Timestep 2.5 Second Increment (Extended)

DTS Status OFF

DVD Status ON

Inertia 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, 2, 5, 30, 100

Climate Change (%) 0, 0, 0, 0, 45

							Water Surcharged	
PN	US/MH Name	US Label	Event	Duration (mins)	Storm Rank	US/CL (m)	Level (m)	Depth (m)
1.000	S2000		60 minute 2 year Winter I+0%	60	45	29.931	29.055	-0.170
1.001	S2001		60 minute 2 year Winter I+0%	60	45	29.950	28.834	-0.161
1.002	S2002		60 minute 2 year Winter I+0%	60	45	29.382	28.668	-0.227
2.000	Tank		60 minute 2 year Winter I+0%	60	52	29.140	27.970	-1.031
1.003	S2003		60 minute 2 year Winter I+0%	60	52	29.220	27.970	-0.100
3.000	S2200		60 minute 2 year Winter I+0%	60	45	29.815	29.038	-0.112
3.001	S2100		60 minute 2 year Winter I+0%	60	45	29.140	28.772	-0.278
1.004	S2004		60 minute 2 year Winter I+0%	60	52	29.140	27.958	0.198

Flooded

Total

PN	US/MH Name	Volume (m³)	Flow / Overflow Cap. (l/s)	Overflow Act.	Overflow Vol (m³)	Overflow Vol (m³)	Level Exceeded	Maximum Vol (m³)
1.000	S2000	0.000	0.14					0.014
1.001	S2001	0.000	0.18					0.079
1.002	S2002	0.000	0.14					0.022
2.000	Tank	0.000	0.00					0.000
1.003	S2003	0.000	0.13					12.240

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Summary Wizard of 60 minute 2 year Winter I+0% for Storm

Flooded				Total			
PN	US/MH Name	Volume (m³)	Flow / Overflow Cap. (l/s)	Overflow Act.	Overflow Vol (m³)	Overflow Vol (m³)	Level Exceeded
3.000	S2200	0.000	0.15				0.000
3.001	S2100	0.000	0.02				0.005
1.004	S2004	0.000	0.07				3.135

		Maximum		Pipe		
		US/MH Discharge	Velocity	Flow		
PN	Name	Vol (m³)	(m/s)	(l/s)	Status	
1.000	S2000	7.983	0.7	5.4	OK	
1.001	S2001	9.825	0.7	6.6	OK	
1.002	S2002	13.970	0.7	9.4	OK	
2.000	Tank	0.307	0.0	0.2	OK	
1.003	S2003	30.202	0.8	10.9	OK	
3.000	S2200	3.378	0.7	2.3	OK	
3.001	S2100	6.294	1.9	4.2	OK	
1.004	S2004	36.472	2.3	10.6	SURCHARGED	

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Summary Wizard of 120 minute 2 year Winter I+0% for Storm

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	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	0.280
Region	England and Wales	Cv (Summer)	1.000
M5-60 (mm)	19.000	Cv (Winter)	1.000

Margin for Flood Risk Warning (mm)	300.0
Analysis Timestep	2.5 Second Increment (Extended)
DTS Status	OFF
DVD Status	ON
Inertia 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, 2, 5, 30, 100
Climate Change (%)	0, 0, 0, 0, 45

PN	US/MH Name	US Label	Event	Duration (mins)	Storm Rank	US/CL (m)	Water Level (m)	Surcharged Depth (m)
1.000	S2000		120 minute 2 year Winter I+0%	120	62	29.931	29.045	-0.180
1.001	S2001		120 minute 2 year Winter I+0%	120	61	29.950	28.822	-0.173
1.002	S2002		120 minute 2 year Winter I+0%	120	61	29.382	28.656	-0.239
2.000	Tank		120 minute 2 year Winter I+0%	120	62	29.140	27.929	-1.072
1.003	S2003		120 minute 2 year Winter I+0%	120	62	29.220	27.929	-0.141
3.000	S2200		120 minute 2 year Winter I+0%	120	62	29.815	29.031	-0.119
3.001	S2100		120 minute 2 year Winter I+0%	120	61	29.140	28.765	-0.285
1.004	S2004		120 minute 2 year Winter I+0%	120	62	29.140	27.918	0.158

Flooded

PN	US/MH Name	Volume (m³)	Flow / Cap.	Overflow (l/s)	Overflow Act.	Overflow Vol (m³)	Total Overflow Vol (m³)	Level Exceeded	Maximum Vol (m³)
1.000	S2000	0.000	0.09						0.011
1.001	S2001	0.000	0.12						0.062
1.002	S2002	0.000	0.09						0.018
2.000	Tank	0.000	0.00						0.000
1.003	S2003	0.000	0.11						9.447

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Summary Wizard of 240 minute 2 year Winter I+0% for Storm

Simulation Criteria

Areal Reduction Factor 1.000

Additional Flow - % of Total Flow 0.000

Hot Start (mins) 0

MADD Factor * 10m³/ha Storage 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 0.280

Region England and Wales Cv (Summer) 1.000

M5-60 (mm) 19.000 Cv (Winter) 1.000

Margin for Flood Risk Warning (mm) 300.0

Analysis Timestep 2.5 Second Increment (Extended)

DTS Status OFF

DVD Status ON

Inertia 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, 2, 5, 30, 100

Climate Change (%) 0, 0, 0, 0, 45

Water Surcharged

US/MH US

Duration Storm US/CL

PN Name Label Event (mins) Rank (m)

Level Depth

(m) (m)

1.000 S2000 240 minute 2 year Winter I+0% 240 80 29.931 29.035 -0.190

1.001 S2001 240 minute 2 year Winter I+0% 240 80 29.950 28.812 -0.183

1.002 S2002 240 minute 2 year Winter I+0% 240 80 29.382 28.642 -0.253

2.000 Tank 240 minute 2 year Winter I+0% 240 82 29.140 27.857 -1.144

1.003 S2003 240 minute 2 year Winter I+0% 240 82 29.220 27.857 -0.213

3.000 S2200 240 minute 2 year Winter I+0% 240 80 29.815 29.024 -0.126

3.001 S2100 240 minute 2 year Winter I+0% 240 80 29.140 28.760 -0.290

1.004 S2004 240 minute 2 year Winter I+0% 240 82 29.140 27.841 0.081

Flooded

US/MH

Volume Flow / Overflow

PN Name (m³) Cap. (l/s) Act. Vol (m³)

Overflow Level Maximum

Vol (m³) Exceeded Vol (m³)

1.000 S2000 0.000 0.06 0.009

1.001 S2001 0.000 0.08 0.049

1.002 S2002 0.000 0.06 0.013

2.000 Tank 0.000 0.00 0.000

1.003 S2003 0.000 0.09 4.717

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Summary Wizard of 360 minute 2 year Winter I+0% for Storm

Simulation Criteria

Areal Reduction Factor 1.000

Additional Flow - % of Total Flow 0.000

Hot Start (mins) 0

MADD Factor * 10m³/ha Storage 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 0.280

Region England and Wales Cv (Summer) 1.000

M5-60 (mm) 19.000 Cv (Winter) 1.000

Margin for Flood Risk Warning (mm) 300.0

Analysis Timestep 2.5 Second Increment (Extended)

DTS Status OFF

DVD Status ON

Inertia 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, 2, 5, 30, 100

Climate Change (%) 0, 0, 0, 0, 45

							Water	Surcharged
PN	US/MH Name	US Label	Event	Duration (mins)	Storm Rank	US/CL (m)	Level (m)	Depth (m)
1.000	S2000		360 minute 2 year Winter I+0%	360	94	29.931	29.031	-0.194
1.001	S2001		360 minute 2 year Winter I+0%	360	94	29.950	28.806	-0.189
1.002	S2002		360 minute 2 year Winter I+0%	360	94	29.382	28.636	-0.259
2.000	Tank		360 minute 2 year Winter I+0%	360	94	29.140	27.827	-1.174
1.003	S2003		360 minute 2 year Winter I+0%	360	94	29.220	27.827	-0.243
3.000	S2200		360 minute 2 year Winter I+0%	360	94	29.815	29.021	-0.129
3.001	S2100		360 minute 2 year Winter I+0%	360	94	29.140	28.758	-0.292
1.004	S2004		360 minute 2 year Winter I+0%	360	94	29.140	27.762	0.002

Flooded				Total					
PN	US/MH Name	Volume (m³)	Flow / Overflow Cap. (l/s)	Overflow Act.	Overflow Vol (m³)	Overflow Vol (m³)	Level Exceeded	Maximum Vol (m³)	
1.000	S2000	0.000	0.05					0.007	
1.001	S2001	0.000	0.06					0.041	
1.002	S2002	0.000	0.05					0.012	
2.000	Tank	0.000	0.00					0.000	
1.003	S2003	0.000	0.08					3.002	

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Summary Wizard of 480 minute 2 year Winter I+0% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
Hot Start (mins) 0 MADD Factor * 10m³/ha Storage 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 0.280
Region England and Wales Cv (Summer) 1.000
M5-60 (mm) 19.000 Cv (Winter) 1.000

Margin for Flood Risk Warning (mm) 300.0
Analysis Timestep 2.5 Second Increment (Extended)
DTS Status OFF
DVD Status ON
Inertia 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, 2, 5, 30, 100
Climate Change (%) 0, 0, 0, 0, 45

PN	US/MH Name	US Label	Event	Duration (mins)	Storm Rank	US/CL (m)	Water Level (m)	Surcharged Depth (m)
1.000	S2000		480 minute 2 year Winter I+0%	480	101	29.931	29.028	-0.197
1.001	S2001		480 minute 2 year Winter I+0%	480	101	29.950	28.802	-0.193
1.002	S2002		480 minute 2 year Winter I+0%	480	101	29.382	28.633	-0.262
2.000	Tank		480 minute 2 year Winter I+0%	480	100	29.140	27.821	-1.180
1.003	S2003		480 minute 2 year Winter I+0%	480	100	29.220	27.821	-0.249
3.000	S2200		480 minute 2 year Winter I+0%	480	101	29.815	29.019	-0.131
3.001	S2100		480 minute 2 year Winter I+0%	480	101	29.140	28.756	-0.294
1.004	S2004		480 minute 2 year Winter I+0%	480	100	29.140	27.668	-0.092

PN	US/MH Name	Flooded Volume (m³)	Flow / Overflow Cap. (l/s)	Overflow Act.	Overflow Vol (m³)	Total Overflow Vol (m³)	Level Exceeded	Maximum Vol (m³)
1.000	S2000	0.000	0.04					0.007
1.001	S2001	0.000	0.05					0.036
1.002	S2002	0.000	0.04					0.010
2.000	Tank	0.000	0.00					0.000
1.003	S2003	0.000	0.07					2.654

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Summary Wizard of 600 minute 2 year Winter I+0% for Storm

Simulation Criteria

Areal Reduction Factor 1.000

Additional Flow - % of Total Flow 0.000

Hot Start (mins) 0

MADD Factor * 10m³/ha Storage 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 0.280

Region England and Wales Cv (Summer) 1.000

M5-60 (mm) 19.000 Cv (Winter) 1.000

Margin for Flood Risk Warning (mm) 300.0

Analysis Timestep 2.5 Second Increment (Extended)

DTS Status OFF

DVD Status ON

Inertia 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, 2, 5, 30, 100

Climate Change (%) 0, 0, 0, 0, 45

							Water	Surcharged
PN	US/MH Name	US Label	Event	Duration (mins)	Storm Rank	US/CL (m)	Level (m)	Depth (m)
1.000	S2000		600 minute 2 year Winter I+0%	600	106	29.931	29.026	-0.199
1.001	S2001		600 minute 2 year Winter I+0%	600	106	29.950	28.800	-0.195
1.002	S2002		600 minute 2 year Winter I+0%	600	106	29.382	28.630	-0.265
2.000	Tank		600 minute 2 year Winter I+0%	600	106	29.140	27.817	-1.184
1.003	S2003		600 minute 2 year Winter I+0%	600	106	29.220	27.817	-0.253
3.000	S2200		600 minute 2 year Winter I+0%	600	106	29.815	29.018	-0.132
3.001	S2100		600 minute 2 year Winter I+0%	600	106	29.140	28.755	-0.295
1.004	S2004		600 minute 2 year Winter I+0%	600	106	29.140	27.651	-0.109

Flooded

Total

PN	US/MH Name	Volume (m³)	Flow / Overflow Cap. (l/s)	Overflow Act.	Overflow Vol (m³)	Overflow Vol (m³)	Level Exceeded	Maximum Vol (m³)
1.000	S2000	0.000	0.03					0.006
1.001	S2001	0.000	0.04					0.033
1.002	S2002	0.000	0.03					0.010
2.000	Tank	0.000	0.00					0.000
1.003	S2003	0.000	0.06					2.423

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Summary Wizard of 720 minute 2 year Winter I+0% for Storm

Simulation Criteria

Areal Reduction Factor 1.000

Additional Flow - % of Total Flow 0.000

Hot Start (mins) 0

MADD Factor * 10m³/ha Storage 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 0.280

Region England and Wales Cv (Summer) 1.000

M5-60 (mm) 19.000 Cv (Winter) 1.000

Margin for Flood Risk Warning (mm) 300.0

Analysis Timestep 2.5 Second Increment (Extended)

DTS Status OFF

DVD Status ON

Inertia 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, 2, 5, 30, 100

Climate Change (%) 0, 0, 0, 0, 45

							Water	Surcharged
PN	US/MH Name	US Label	Event	Duration (mins)	Storm Rank	US/CL (m)	Level (m)	Depth (m)
1.000	S2000		720 minute 2 year Winter I+0%	720	110	29.931	29.025	-0.200
1.001	S2001		720 minute 2 year Winter I+0%	720	110	29.950	28.798	-0.197
1.002	S2002		720 minute 2 year Winter I+0%	720	110	29.382	28.629	-0.266
2.000	Tank		720 minute 2 year Winter I+0%	720	110	29.140	27.814	-1.187
1.003	S2003		720 minute 2 year Winter I+0%	720	110	29.220	27.814	-0.256
3.000	S2200		720 minute 2 year Winter I+0%	720	110	29.815	29.017	-0.133
3.001	S2100		720 minute 2 year Winter I+0%	720	110	29.140	28.755	-0.295
1.004	S2004		720 minute 2 year Winter I+0%	720	110	29.140	27.640	-0.120

Flooded

Total

PN	US/MH Name	Volume (m³)	Flow / Overflow Cap. (l/s)	Overflow Act.	Overflow Vol (m³)	Overflow Vol (m³)	Level Exceeded	Maximum Vol (m³)
1.000	S2000	0.000	0.03					0.006
1.001	S2001	0.000	0.04					0.031
1.002	S2002	0.000	0.03					0.009
2.000	Tank	0.000	0.00					0.000
1.003	S2003	0.000	0.05					2.256

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Summary Wizard of 960 minute 2 year Winter I+0% for Storm

Simulation Criteria

Areal Reduction Factor 1.000

Additional Flow - % of Total Flow 0.000

Hot Start (mins) 0

MADD Factor * 10m³/ha Storage 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 0.280

Region England and Wales Cv (Summer) 1.000

M5-60 (mm) 19.000 Cv (Winter) 1.000

Margin for Flood Risk Warning (mm) 300.0

Analysis Timestep 2.5 Second Increment (Extended)

DTS Status OFF

DVD Status ON

Inertia 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, 2, 5, 30, 100

Climate Change (%) 0, 0, 0, 0, 45

							Water	Surcharged
US/MH	US			Duration	Storm	US/CL	Level	Depth
PN	Name	Label	Event	(mins)	Rank	(m)	(m)	(m)
1.000	S2000		960 minute 2 year Winter I+0%	960	116	29.931	29.024	-0.201
1.001	S2001		960 minute 2 year Winter I+0%	960	116	29.950	28.796	-0.199
1.002	S2002		960 minute 2 year Winter I+0%	960	116	29.382	28.627	-0.268
2.000	Tank		960 minute 2 year Winter I+0%	960	116	29.140	27.810	-1.191
1.003	S2003		960 minute 2 year Winter I+0%	960	116	29.220	27.810	-0.260
3.000	S2200		960 minute 2 year Winter I+0%	960	116	29.815	29.016	-0.134
3.001	S2100		960 minute 2 year Winter I+0%	960	116	29.140	28.754	-0.296
1.004	S2004		960 minute 2 year Winter I+0%	960	116	29.140	27.627	-0.133

Flooded

Total

US/MH	Volume	Flow /	Overflow	Overflow	Overflow	Overflow	Level	Maximum
PN	Name	(m³)	Cap.	(l/s)	Act.	Vol (m³)	Vol(m³)	Exceeded Vol (m³)
1.000	S2000	0.000	0.02					0.005
1.001	S2001	0.000	0.03					0.028
1.002	S2002	0.000	0.02					0.008
2.000	Tank	0.000	0.00					0.000
1.003	S2003	0.000	0.04					2.028

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Summary Wizard of 1440 minute 2 year Winter I+0% for Storm

Simulation Criteria

Areal Reduction Factor 1.000Additional 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 ModelFSRRatio R 0.280

Region England and Wales Cv (Summer) 1.000

M5-60 (mm)19.000 Cv (Winter) 1.000

Margin for Flood Risk Warning (mm)300.0

Analysis Timestep 2.5 Second Increment (Extended)

DTS StatusOFF

DVD StatusON

Inertia StatusON

Profile(s)Summer and Winter

Duration(s) (mins)15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440

Return Period(s) (years)1, 2, 5, 30, 100

Climate Change (%)0, 0, 0, 0, 45

US/MHUS

PNNameLabel

Event

Duration (mins)

Storm Rank

US/CL (m)

Water Level (m)

Surcharged Depth (m)

1.000S20001440 minute 2 year Winter I+0%144011929.93129.020-0.205

1.001S20011440 minute 2 year Winter I+0%144011929.95028.794-0.201

1.002S20021440 minute 2 year Winter I+0%144011929.38228.622-0.273

2.000Tank1440 minute 2 year Winter I+0%144011929.14027.806-1.195

1.003S20031440 minute 2 year Winter I+0%144011929.22027.806-0.264

3.000S22001440 minute 2 year Winter I+0%144011929.81529.014-0.136

3.001S21001440 minute 2 year Winter I+0%144011929.14028.753-0.297

1.004S20041440 minute 2 year Winter I+0%144011929.14027.613-0.147

Flooded

Total

US/MH

Volume

Flow / Overflow

Overflow

Overflow

Overflow

Level

Maximum

PN

Name

(m³)

Cap. (l/s)

Act.

Vol (m³)

Vol (m³)

Exceeded

Vol (m³)

1.000S20000.0000.020.004

1.001S20010.0000.020.025

1.002S20020.0000.020.007

2.000Tank0.0000.000.000

1.003S20030.0000.031.768

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Summary Wizard of 120 minute 5 year Winter I+0% for Storm

Simulation Criteria

Areal Reduction Factor 1.000

Additional Flow - % of Total Flow 0.000

Hot Start (mins) 0

MADD Factor * 10m³/ha Storage 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 0.280

Region England and Wales Cv (Summer) 1.000

M5-60 (mm) 19.000 Cv (Winter) 1.000

Margin for Flood Risk Warning (mm) 300.0

Analysis Timestep 2.5 Second Increment (Extended)

DTS Status OFF

DVD Status ON

Inertia 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, 2, 5, 30, 100

Climate Change (%) 0, 0, 0, 0, 45

							Water	Surcharged
PN	US/MH	US		Duration	Storm	US/CL	Level	Depth
	Name	Label	Event	(mins)	Rank	(m)	(m)	(m)
1.000	S2000		120 minute 5 year Winter I+0%	120	52	29.931	29.050	-0.175
1.001	S2001		120 minute 5 year Winter I+0%	120	52	29.950	28.828	-0.167
1.002	S2002		120 minute 5 year Winter I+0%	120	52	29.382	28.662	-0.233
2.000	Tank		120 minute 5 year Winter I+0%	120	44	29.140	28.012	-0.989
1.003	S2003		120 minute 5 year Winter I+0%	120	44	29.220	28.012	-0.058
3.000	S2200		120 minute 5 year Winter I+0%	120	52	29.815	29.035	-0.115
3.001	S2100		120 minute 5 year Winter I+0%	120	52	29.140	28.769	-0.281
1.004	S2004		120 minute 5 year Winter I+0%	120	44	29.140	28.000	0.240

Flooded

Total

PN	US/MH	Volume	Flow /	Overflow	Overflow	Overflow	Overflow	Level	Maximum
	Name	(m³)	Cap.	(l/s)	Act.	Vol (m³)	Vol(m³)	Exceeded	Vol (m³)
1.000	S2000	0.000	0.11						0.013
1.001	S2001	0.000	0.15						0.071
1.002	S2002	0.000	0.12						0.020
2.000	Tank	0.000	0.00						0.000
1.003	S2003	0.000	0.11						15.089

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Summary Wizard of 180 minute 5 year Winter I+0% for Storm

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	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	0.280
Region	England and Wales	Cv (Summer)	1.000
M5-60 (mm)	19.000	Cv (Winter)	1.000

Margin for Flood Risk Warning (mm)	300.0
Analysis Timestep	2.5 Second Increment (Extended)
DTS Status	OFF
DVD Status	ON
Inertia 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, 2, 5, 30, 100
Climate Change (%)	0, 0, 0, 0, 45

PN	US/MH Name	US Label	Event	Duration (mins)	Storm Rank	US/CL (m)	Water Level (m)	Surcharged Depth (m)
1.000	S2000		180 minute 5 year Winter I+0%	180	64	29.931	29.045	-0.180
1.001	S2001		180 minute 5 year Winter I+0%	180	64	29.950	28.821	-0.174
1.002	S2002		180 minute 5 year Winter I+0%	180	64	29.382	28.655	-0.240
2.000	Tank		180 minute 5 year Winter I+0%	180	55	29.140	27.960	-1.041
1.003	S2003		180 minute 5 year Winter I+0%	180	55	29.220	27.960	-0.110
3.000	S2200		180 minute 5 year Winter I+0%	180	64	29.815	29.031	-0.119
3.001	S2100		180 minute 5 year Winter I+0%	180	64	29.140	28.765	-0.285
1.004	S2004		180 minute 5 year Winter I+0%	180	55	29.140	27.949	0.189

Flooded

PN	US/MH Name	Volume (m³)	Flow / Cap.	Overflow (l/s)	Overflow Act.	Overflow Vol (m³)	Total Overflow Vol (m³)	Level Exceeded	Maximum Vol (m³)
1.000	S2000	0.000	0.09						0.011
1.001	S2001	0.000	0.12						0.061
1.002	S2002	0.000	0.09						0.018
2.000	Tank	0.000	0.00						0.000
1.003	S2003	0.000	0.11						11.551

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Summary Wizard of 360 minute 5 year Winter I+0% for Storm

Simulation Criteria

Areal Reduction Factor 1.000

Additional Flow - % of Total Flow 0.000

Hot Start (mins) 0

MADD Factor * 10m³/ha Storage 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 0.280

Region England and Wales Cv (Summer) 1.000

M5-60 (mm) 19.000 Cv (Winter) 1.000

Margin for Flood Risk Warning (mm) 300.0

Analysis Timestep 2.5 Second Increment (Extended)

DTS Status OFF

DVD Status ON

Inertia 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, 2, 5, 30, 100

Climate Change (%) 0, 0, 0, 0, 45

							Water	Surcharged
PN	US/MH Name	US Label	Event	Duration (mins)	Storm Rank	US/CL (m)	Level (m)	Depth (m)
1.000	S2000		360 minute 5 year Winter I+0%	360	85	29.931	29.034	-0.191
1.001	S2001		360 minute 5 year Winter I+0%	360	85	29.950	28.810	-0.185
1.002	S2002		360 minute 5 year Winter I+0%	360	85	29.382	28.641	-0.254
2.000	Tank		360 minute 5 year Winter I+0%	360	83	29.140	27.855	-1.146
1.003	S2003		360 minute 5 year Winter I+0%	360	83	29.220	27.855	-0.215
3.000	S2200		360 minute 5 year Winter I+0%	360	85	29.815	29.024	-0.126
3.001	S2100		360 minute 5 year Winter I+0%	360	85	29.140	28.759	-0.291
1.004	S2004		360 minute 5 year Winter I+0%	360	83	29.140	27.838	0.078

Flooded

Total

PN	US/MH Name	Volume (m³)	Flow / Overflow Cap. (l/s)	Overflow Act.	Overflow Vol (m³)	Overflow Vol (m³)	Level Exceeded	Maximum Vol (m³)
1.000	S2000	0.000	0.06					0.008
1.001	S2001	0.000	0.07					0.047
1.002	S2002	0.000	0.06					0.013
2.000	Tank	0.000	0.00					0.000
1.003	S2003	0.000	0.09					4.607

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Summary Wizard of 720 minute 5 year Winter I+0% for Storm

Simulation Criteria

Areal Reduction Factor 1.000

Additional Flow - % of Total Flow 0.000

Hot Start (mins) 0

MADD Factor * 10m³/ha Storage 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 0.280

Region England and Wales Cv (Summer) 1.000

M5-60 (mm) 19.000 Cv (Winter) 1.000

Margin for Flood Risk Warning (mm) 300.0

Analysis Timestep 2.5 Second Increment (Extended)

DTS Status OFF

DVD Status ON

Inertia 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, 2, 5, 30, 100

Climate Change (%) 0, 0, 0, 0, 45

US/MH US

PN Name Label

Event

Duration (mins)

Storm Rank

US/CL (m)

Water Level (m)

Surcharged Depth (m)

1.000 S2000

720 minute 5 year Winter I+0%

720

104

29.931

29.027

-0.198

1.001 S2001

720 minute 5 year Winter I+0%

720

104

29.950

28.801

-0.194

1.002 S2002

720 minute 5 year Winter I+0%

720

104

29.382

28.632

-0.263

2.000 Tank

720 minute 5 year Winter I+0%

720

104

29.140

27.819

-1.182

1.003 S2003

720 minute 5 year Winter I+0%

720

104

29.220

27.819

-0.251

3.000 S2200

720 minute 5 year Winter I+0%

720

104

29.815

29.019

-0.131

3.001 S2100

720 minute 5 year Winter I+0%

720

104

29.140

28.756

-0.294

1.004 S2004

720 minute 5 year Winter I+0%

720

104

29.140

27.659

-0.101

Flooded

US/MH US

PN Name

Volume (m³)

Flow / Overflow Cap. (l/s)

Total

Overflow Act. Vol (m³)

Overflow Vol (m³)

Level Exceeded

Maximum Vol (m³)

1.000 S2000

0.000

0.04

1.001 S2001

0.000

0.05

1.002 S2002

0.000

0.04

2.000 Tank

0.000

0.00

1.003 S2003

0.000

0.06

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Summary Wizard of 960 minute 5 year Winter I+0% for Storm

Simulation Criteria

Areal Reduction Factor 1.000

Hot Start (mins) 0

Hot Start Level (mm) 0

Manhole Headloss Coeff (Global) 0.500

Foul Sewage per hectare (l/s) 0.000

Additional Flow - % of Total Flow 0.000

MADD Factor * 10m³/ha Storage 0.000

Inlet Coefficient 0.800

Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0

Number of Online Controls 1

Number of Offline Controls 0

Number of Storage Structures 1

Number of Time/Area Diagrams 0

Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model FSR

Region England and Wales Cv

M5-60 (mm) 19.000

Ratio R 0.280

(Summer) 1.000

Cv (Winter) 1.000

Margin for Flood Risk Warning (mm) 300.0

Analysis Timestep 2.5 Second Increment (Extended)

DTS Status OFF

DVD Status ON

Inertia 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, 2, 5, 30, 100

Climate Change (%) 0, 0, 0, 0, 45

							Water	Surcharged
PN	US/MH	US		Duration	Storm	US/CL	Level	Depth
	Name	Label	Event	(mins)	Rank	(m)	(m)	(m)
1.000	S2000		960 minute 5 year Winter I+0%	960	111	29.931	29.025	-0.200
1.001	S2001		960 minute 5 year Winter I+0%	960	111	29.950	28.798	-0.197
1.002	S2002		960 minute 5 year Winter I+0%	960	111	29.382	28.629	-0.266
2.000	Tank		960 minute 5 year Winter I+0%	960	111	29.140	27.814	-1.187
1.003	S2003		960 minute 5 year Winter I+0%	960	111	29.220	27.814	-0.256
3.000	S2200		960 minute 5 year Winter I+0%	960	111	29.815	29.017	-0.133
3.001	S2100		960 minute 5 year Winter I+0%	960	111	29.140	28.755	-0.295
1.004	S2004		960 minute 5 year Winter I+0%	960	111	29.140	27.640	-0.120

Flooded

Total

PN	US/MH	Volume	Flow /	Overflow	Overflow	Overflow	Overflow	Level	Maximum
	Name	(m³)	Cap.	(l/s)	Act.	Vol (m³)	Vol(m³)	Exceeded	Vol (m³)
1.000	S2000	0.000	0.03						0.006
1.001	S2001	0.000	0.04						0.031
1.002	S2002	0.000	0.03						0.009
2.000	Tank	0.000	0.00						0.000
1.003	S2003	0.000	0.05						2.255

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Summary Wizard of 1440 minute 5 year Winter I+0% for Storm

Simulation Criteria

Areal Reduction Factor 1.000Additional Flow - % of Total Flow 0.000

Hot Start (mins) 0MADD Factor * 10m³/ha Storage 0.000

Hot Start Level (mm) 0Inlet Coefficient 0.800

Manhole Headloss Coeff (Global) 0.500Flow per Person per Day (l/per/day) 0.000

Foul Sewage per hectare (l/s) 0.000

Number of Input Hydrographs 0Number of Storage Structures 1

Number of Online Controls 1Number of Time/Area Diagrams 0

Number of Offline Controls 0Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall ModelFSRRatio R 0.280

Region England and Wales Cv (Summer) 1.000

M5-60 (mm)19.000 Cv (Winter) 1.000

Margin for Flood Risk Warning (mm)300.0

Analysis Timestep 2.5 Second Increment (Extended)

DTS StatusOFF

DVD StatusON

Inertia StatusON

Profile(s)Summer and Winter

Duration(s) (mins)15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440

Return Period(s) (years)1, 2, 5, 30, 100

Climate Change (%)0, 0, 0, 0, 45

PN	US/MH Name	US Label	Event	Duration (mins)	Storm Rank	US/CL (m)	Water Level (m)	Surcharged Depth (m)
1.000	S2000		1440 minute 5 year Winter I+0%	1440	117	29.931	29.023	-0.202
1.001	S2001		1440 minute 5 year Winter I+0%	1440	117	29.950	28.795	-0.200
1.002	S2002		1440 minute 5 year Winter I+0%	1440	117	29.382	28.626	-0.269
2.000	Tank		1440 minute 5 year Winter I+0%	1440	117	29.140	27.808	-1.193
1.003	S2003		1440 minute 5 year Winter I+0%	1440	117	29.220	27.808	-0.262
3.000	S2200		1440 minute 5 year Winter I+0%	1440	117	29.815	29.016	-0.134
3.001	S2100		1440 minute 5 year Winter I+0%	1440	117	29.140	28.754	-0.296
1.004	S2004		1440 minute 5 year Winter I+0%	1440	117	29.140	27.622	-0.138

Flooded

US/MH Name

Volume (m³)

Flow / Overflow Cap. (l/s)

Overflow Act.

Overflow Vol (m³)

Overflow Vol (m³)

Level Exceeded

Maximum Vol (m³)

1.000

S2000

0.000

0.02

0.005

1.001

S2001

0.000

0.03

0.027

1.002

S2002

0.000

0.02

0.008

2.000

Tank

0.000

0.00

0.000

1.003

S2003

0.000

0.04

1.935

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Summary Wizard of 15 minute 30 year Winter I+0% for Storm

Simulation Criteria

Areal Reduction Factor 1.000

Hot Start (mins) 0

Hot Start Level (mm) 0

Manhole Headloss Coeff (Global) 0.500

Foul Sewage per hectare (l/s) 0.000

Additional Flow - % of Total Flow 0.000

MADD Factor * 10m³/ha Storage 0.000

Inlet Coeffiecient 0.800

Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0

Number of Online Controls 1

Number of Offline Controls 0

Number of Storage Structures 1

Number of Time/Area Diagrams 0

Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model FSR

Region England and Wales Cv (Summer) 1.000

M5-60 (mm) 19.000 Cv (Winter) 1.000

Ratio R 0.280

Margin for Flood Risk Warning (mm) 300.0

Analysis Timestep 2.5 Second Increment (Extended)

DTS Status OFF

DVD Status ON

Inertia 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, 2, 5, 30, 100

Climate Change (%) 0, 0, 0, 0, 45

							Water	Surcharged	
PN	US/MH	US			Duration	Storm	US/CL	Level	Depth
	Name	Label	Event		(mins)	Rank	(m)	(m)	(m)
1.000	S2000		15 minute	30 year Winter I+0%	15	10	29.931	29.105	-0.120
1.001	S2001		15 minute	30 year Winter I+0%	15	14	29.950	28.895	-0.100
1.002	S2002		15 minute	30 year Winter I+0%	15	16	29.382	28.737	-0.158
2.000	Tank		15 minute	30 year Winter I+0%	15	31	29.140	28.161	-0.840
1.003	S2003		15 minute	30 year Winter I+0%	15	31	29.220	28.161	0.091
3.000	S2200		15 minute	30 year Winter I+0%	15	10	29.815	29.073	-0.077
3.001	S2100		15 minute	30 year Winter I+0%	15	15	29.140	28.795	-0.255
1.004	S2004		15 minute	30 year Winter I+0%	15	31	29.140	28.171	0.411

Flooded				Total					
PN	US/MH	Volume	Flow /	Overflow	Overflow	Overflow	Overflow	Level	Maximum
	Name	(m³)	Cap.	(l/s)	Act.	Vol (m³)	Vol(m³)	Exceeded	Vol (m³)
1.000	S2000	0.000	0.43						0.028
1.001	S2001	0.000	0.58						0.220
1.002	S2002	0.000	0.45						0.106
2.000	Tank	0.000	0.00						0.000
1.003	S2003	0.000	0.21						25.151

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Summary Wizard of 120 minute 30 year Winter I+0% for Storm

Simulation Criteria

Areal Reduction Factor 1.000Additional Flow - % of Total Flow 0.000

Hot Start (mins) 0MADD Factor * 10m³/ha Storage 0.000

Hot Start Level (mm) 0Inlet Coefficient 0.800

Manhole Headloss Coeff (Global) 0.500Flow per Person per Day (l/per/day) 0.000

Foul Sewage per hectare (l/s) 0.000

Number of Input Hydrographs 0Number of Storage Structures 1

Number of Online Controls 1Number of Time/Area Diagrams 0

Number of Offline Controls 0Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall ModelFSRRatio R 0.280

Region England and Wales Cv (Summer) 1.000

M5-60 (mm)19.000 Cv (Winter) 1.000

Margin for Flood Risk Warning (mm)300.0

Analysis Timestep 2.5 Second Increment (Extended)

DTS StatusOFF

DVD StatusON

Inertia StatusON

Profile(s)Summer and Winter

Duration(s) (mins)15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440

Return Period(s) (years)1, 2, 5, 30, 100

Climate Change (%)0, 0, 0, 0, 45

PN	US/MH Name	US Label	Event	Duration (mins)	Storm Rank	US/CL (m)	Water Level (m)	Surcharged Depth (m)
1.000	S2000		120 minute 30 year Winter I+0%	120	37	29.931	29.062	-0.163
1.001	S2001		120 minute 30 year Winter I+0%	120	37	29.950	28.842	-0.153
1.002	S2002		120 minute 30 year Winter I+0%	120	36	29.382	28.679	-0.216
2.000	Tank		120 minute 30 year Winter I+0%	120	25	29.140	28.257	-0.744
1.003	S2003		120 minute 30 year Winter I+0%	120	25	29.220	28.257	0.187
3.000	S2200		120 minute 30 year Winter I+0%	120	37	29.815	29.043	-0.107
3.001	S2100		120 minute 30 year Winter I+0%	120	37	29.140	28.778	-0.272
1.004	S2004		120 minute 30 year Winter I+0%	120	25	29.140	28.265	0.505

Flooded

US/MH Name

Volume (m³)

Flow / Overflow Cap. (l/s)

Overflow Act.

Overflow Vol (m³)

Overflow Vol (m³)

Level Exceeded

Maximum Vol (m³)

1.000

S2000

0.000

0.17

0.016

1.001

S2001

0.000

0.23

0.090

1.002

S2002

0.000

0.17

0.025

2.000

Tank

0.000

0.00

0.000

1.003

S2003

0.000

0.16

31.685

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Summary Wizard of 180 minute 30 year Winter I+0% for Storm

Simulation Criteria

Areal Reduction Factor 1.000Additional Flow - % of Total Flow 0.000

Hot Start (mins) 0MADD Factor * 10m³/ha Storage 0.000

Hot Start Level (mm) 0Inlet Coefficient 0.800

Manhole Headloss Coeff (Global) 0.500Flow per Person per Day (l/per/day) 0.000

Foul Sewage per hectare (l/s) 0.000

Number of Input Hydrographs 0Number of Storage Structures 1

Number of Online Controls 1Number of Time/Area Diagrams 0

Number of Offline Controls 0Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall ModelFSRRatio R 0.280

Region England and Wales Cv (Summer) 1.000

M5-60 (mm)19.000 Cv (Winter) 1.000

Margin for Flood Risk Warning (mm)300.0

Analysis Timestep 2.5 Second Increment (Extended)

DTS StatusOFF

DVD StatusON

Inertia StatusON

Profile(s)Summer and Winter

Duration(s) (mins)15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440

Return Period(s) (years)1, 2, 5, 30, 100

Climate Change (%)0, 0, 0, 0, 45

PN	US/MH Name	US Label	Event	Duration (mins)	Storm Rank	US/CL (m)	Water Level (m)	Surcharged Depth (m)
1.000	S2000		180 minute 30 year Winter I+0%	180	48	29.931	29.054	-0.171
1.001	S2001		180 minute 30 year Winter I+0%	180	48	29.950	28.833	-0.162
1.002	S2002		180 minute 30 year Winter I+0%	180	48	29.382	28.667	-0.228
2.000	Tank		180 minute 30 year Winter I+0%	180	30	29.140	28.190	-0.811
1.003	S2003		180 minute 30 year Winter I+0%	180	30	29.220	28.190	0.120
3.000	S2200		180 minute 30 year Winter I+0%	180	48	29.815	29.037	-0.113
3.001	S2100		180 minute 30 year Winter I+0%	180	48	29.140	28.772	-0.278
1.004	S2004		180 minute 30 year Winter I+0%	180	30	29.140	28.200	0.440

Flooded

US/MH Name

Volume (m³)

Flow / Overflow Cap. (l/s)

Overflow Act.

Overflow Vol (m³)

Overflow Vol (m³)

Level Exceeded

Maximum Vol (m³)

1.000 S2000

0.000

0.13

0.014

1.001 S2001

0.000

0.17

0.077

1.002 S2002

0.000

0.13

0.021

2.000 Tank

0.000

0.00

0.000

1.003 S2003

0.000

0.16

27.136

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Summary Wizard of 240 minute 30 year Winter I+0% for Storm

Simulation Criteria

Areal Reduction Factor 1.000

Additional Flow - % of Total Flow 0.000

Hot Start (mins) 0

MADD Factor * 10m³/ha Storage 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 0.280

Region England and Wales Cv (Summer) 1.000

M5-60 (mm) 19.000 Cv (Winter) 1.000

Margin for Flood Risk Warning (mm) 300.0

Analysis Timestep 2.5 Second Increment (Extended)

DTS Status OFF

DVD Status ON

Inertia 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, 2, 5, 30, 100

Climate Change (%) 0, 0, 0, 0, 45

US/MH		US			Duration	Storm	US/CL	Water	Surcharged
PN	Name	Label	Event		(mins)	Rank	(m)	Level	Depth
1.000	S2000		240 minute 30 year Winter I+0%		240	56	29.931	29.049	-0.176
1.001	S2001		240 minute 30 year Winter I+0%		240	54	29.950	28.826	-0.169
1.002	S2002		240 minute 30 year Winter I+0%		240	54	29.382	28.661	-0.234
2.000	Tank		240 minute 30 year Winter I+0%		240	35	29.140	28.123	-0.878
1.003	S2003		240 minute 30 year Winter I+0%		240	35	29.220	28.123	0.053
3.000	S2200		240 minute 30 year Winter I+0%		240	56	29.815	29.034	-0.116
3.001	S2100		240 minute 30 year Winter I+0%		240	54	29.140	28.768	-0.282
1.004	S2004		240 minute 30 year Winter I+0%		240	35	29.140	28.129	0.369

Flooded

Total

US/MH	Volume	Flow /	Overflow	Overflow	Overflow	Overflow	Level	Maximum
PN	Name	(m³)	Cap.	(l/s)	Act.	Vol (m³)	Vol(m³)	Exceeded Vol (m³)
1.000	S2000	0.000	0.11					0.012
1.001	S2001	0.000	0.14					0.068
1.002	S2002	0.000	0.11					0.019
2.000	Tank	0.000	0.00					0.000
1.003	S2003	0.000	0.14					22.577

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Summary Wizard of 240 minute 30 year Winter I+0% for Storm

Flooded				Total			
PN	US/MH Name	Volume (m³)	Flow / Overflow Cap. (l/s)	Overflow Act.	Overflow Vol (m³)	Overflow Vol (m³)	Level Exceeded
3.000	S2200	0.000	0.11				0.000
3.001	S2100	0.000	0.01				0.004
1.004	S2004	0.000	0.09				3.779

			Maximum Discharge	Pipe Velocity	Pipe Flow	Status
PN	US/MH Name	Vol (m³)	(m/s)	(l/s)		
1.000	S2000	24.452	0.7	4.3		OK
1.001	S2001	30.095	0.7	5.3		OK
1.002	S2002	42.791	0.7	7.5		OK
2.000	Tank	0.940	0.0	0.2		OK
1.003	S2003	92.652	0.8	12.1		SURCHARGED
3.000	S2200	10.345	0.6	1.8		OK
3.001	S2100	19.278	1.9	3.4		OK
1.004	S2004	111.928	2.4	12.3		SURCHARGED

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Summary Wizard of 360 minute 30 year Winter I+0% for Storm

Simulation Criteria

Areal Reduction Factor 1.000Additional Flow - % of Total Flow 0.000

Hot Start (mins) 0MADD Factor * 10m³/ha Storage 0.000

Hot Start Level (mm) 0Inlet Coefficient 0.800

Manhole Headloss Coeff (Global) 0.500Flow per Person per Day (l/per/day) 0.000

Foul Sewage per hectare (l/s) 0.000

Number of Input Hydrographs 0Number of Storage Structures 1

Number of Online Controls 1Number of Time/Area Diagrams 0

Number of Offline Controls 0Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall ModelFSRRatio R 0.280

Region England and Wales Cv (Summer) 1.000

M5-60 (mm)19.000 Cv (Winter) 1.000

Margin for Flood Risk Warning (mm)300.0

Analysis Timestep 2.5 Second Increment (Extended)

DTS StatusOFF

DVD StatusON

Inertia StatusON

Profile(s)Summer and Winter

Duration(s) (mins)15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440

Return Period(s) (years)1, 2, 5, 30, 100

Climate Change (%)0, 0, 0, 0, 45

PN	US/MH Name	US Label	Event	Duration (mins)	Storm Rank	US/CL (m)	Water Level (m)	Surcharged Depth (m)
1.000	S2000		360 minute 30 year Winter I+0%	360	68	29.931	29.043	-0.182
1.001	S2001		360 minute 30 year Winter I+0%	360	68	29.950	28.819	-0.176
1.002	S2002		360 minute 30 year Winter I+0%	360	68	29.382	28.653	-0.242
2.000	Tank		360 minute 30 year Winter I+0%	360	45	29.140	28.010	-0.991
1.003	S2003		360 minute 30 year Winter I+0%	360	45	29.220	28.010	-0.060
3.000	S2200		360 minute 30 year Winter I+0%	360	68	29.815	29.030	-0.120
3.001	S2100		360 minute 30 year Winter I+0%	360	68	29.140	28.764	-0.286
1.004	S2004		360 minute 30 year Winter I+0%	360	46	29.140	27.998	0.238

Flooded

US/MH Name

Volume (m³)

Flow / Overflow Cap. (l/s)

Overflow Act.

Overflow Vol (m³)

Overflow Vol (m³)

Level Exceeded

Maximum Vol (m³)

1.000 S2000

0.000

0.08

0.011

1.001 S2001

0.000

0.11

0.059

1.002 S2002

0.000

0.08

0.017

2.000 Tank

0.000

0.00

0.000

1.003 S2003

0.000

0.11

14.950

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Summary Wizard of 480 minute 30 year Winter I+0% for Storm

Simulation Criteria

Areal Reduction Factor 1.000
Hot Start (mins) 0
Hot Start Level (mm) 0
Manhole Headloss Coeff (Global) 0.500
Foul Sewage per hectare (l/s) 0.000

Additional Flow - % of Total Flow 0.000
MADD Factor * 10m³/ha Storage 0.000
Inlet Coefficient 0.800
Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0
Number of Online Controls 1
Number of Offline Controls 0

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

Synthetic Rainfall Details

Rainfall Model
Region England and Wales Cv (Summer)
M5-60 (mm)

FSR
(Summer)
19.000 Cv (Winter)

Ratio R 0.280
1.000
1.000

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

300.0

OFF
ON
ON

Profile(s)
Duration(s) (mins)
Return Period(s) (years)
Climate Change (%)

Summer and Winter
15, 30, 60, 120, 180, 240, 360, 480, 600,
720, 960, 1440
1, 2, 5, 30, 100
0, 0, 0, 0, 45

PN	US/MH Name	US Label	Event	Duration (mins)	Storm Rank	US/CL (m)	Water Level (m)	Surcharged Depth (m)
1.000	S2000		480 minute 30 year Winter I+0%	480	77	29.931	29.038	-0.187
1.001	S2001		480 minute 30 year Winter I+0%	480	77	29.950	28.815	-0.180
1.002	S2002		480 minute 30 year Winter I+0%	480	77	29.382	28.646	-0.249
2.000	Tank		480 minute 30 year Winter I+0%	480	61	29.140	27.931	-1.070
1.003	S2003		480 minute 30 year Winter I+0%	480	61	29.220	27.931	-0.139
3.000	S2200		480 minute 30 year Winter I+0%	480	77	29.815	29.026	-0.124
3.001	S2100		480 minute 30 year Winter I+0%	480	77	29.140	28.761	-0.289
1.004	S2004		480 minute 30 year Winter I+0%	480	61	29.140	27.920	0.160

Flooded

US/MH Name

Volume (m³)

Flow / Overflow Cap. (l/s)

Overflow Act.

Overflow Vol (m³)

Overflow Vol (m³)

Level Exceeded

Maximum Vol (m³)

1.000

S2000

0.000

0.07

0.009

1.001

S2001

0.000

0.09

0.053

1.002

S2002

0.000

0.07

0.015

2.000

Tank

0.000

0.00

0.000

1.003

S2003

0.000

0.10

9.546

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Summary Wizard of 480 minute 30 year Winter I+0% for Storm

Flooded				Total			
PN	US/MH Name	Volume (m³)	Flow / Overflow Cap. (l/s)	Overflow Act.	Overflow Vol (m³)	Overflow Vol (m³)	Level Exceeded
3.000	S2200	0.000	0.07				0.000
3.001	S2100	0.000	0.01				0.002
1.004	S2004	0.000	0.07				2.857

		Maximum		Pipe		Status
PN	US/MH Name	Discharge Vol (m³)	Velocity (m/s)	Flow (l/s)		
1.000	S2000	30.294	0.6	2.7		OK
1.001	S2001	37.285	0.6	3.3		OK
1.002	S2002	53.015	0.6	4.7		OK
2.000	Tank	1.165	0.0	0.1		OK
1.003	S2003	114.769	0.7	8.4		OK
3.000	S2200	12.817	0.5	1.1		OK
3.001	S2100	23.884	1.2	2.1		OK
1.004	S2004	138.651	2.3	10.2	SURCHARGED	

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Summary Wizard of 600 minute 30 year Winter I+0% for Storm

Simulation Criteria

Areal Reduction Factor 1.000	Additional Flow - % of Total Flow 0.000
Hot Start (mins) 0	MADD Factor * 10m³/ha Storage 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

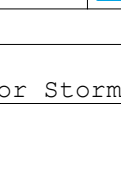
Rainfall Model	FSR	Ratio R 0.280
Region England and Wales Cv (Summer) 1.000		
M5-60 (mm)	19.000 Cv (Winter) 1.000	

Margin for Flood Risk Warning (mm)	300.0
Analysis Timestep 2.5 Second Increment (Extended)	
DTS Status	OFF
DVD Status	ON
Inertia 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, 2, 5, 30, 100
Climate Change (%)	0, 0, 0, 0, 45

PN	US/MH Name	US Label	Event	Duration (mins)	Storm Rank	US/CL (m)	Water Level (m)	Surcharged Depth (m)
1.000	S2000		600 minute 30 year Winter I+0%	600	84	29.931	29.034	-0.191
1.001	S2001		600 minute 30 year Winter I+0%	600	84	29.950	28.811	-0.184
1.002	S2002		600 minute 30 year Winter I+0%	600	84	29.382	28.641	-0.254
2.000	Tank		600 minute 30 year Winter I+0%	600	77	29.140	27.876	-1.125
1.003	S2003		600 minute 30 year Winter I+0%	600	77	29.220	27.876	-0.194
3.000	S2200		600 minute 30 year Winter I+0%	600	84	29.815	29.024	-0.126
3.001	S2100		600 minute 30 year Winter I+0%	600	84	29.140	28.760	-0.290
1.004	S2004		600 minute 30 year Winter I+0%	600	77	29.140	27.866	0.106

	Flooded US/MH Name	Volume (m³)	Flow / Overflow Cap. (l/s)	Total Overflow Act. Vol (m³)	Total Overflow Vol (m³)	Level Exceeded	Maximum Vol (m³)
1.000	S2000	0.000	0.06				0.008
1.001	S2001	0.000	0.08				0.048
1.002	S2002	0.000	0.06				0.013
2.000	Tank	0.000	0.00				0.000
1.003	S2003	0.000	0.09				5.833

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Summary Wizard of 720 minute 30 year Winter I+0% for Storm

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	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	0.280
Region	England and Wales	Cv (Summer)	1.000
M5-60 (mm)	19.000	Cv (Winter)	1.000

Margin for Flood Risk Warning (mm)	300.0
Analysis Timestep	2.5 Second Increment (Extended)
DTS Status	OFF
DVD Status	ON
Inertia 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, 2, 5, 30, 100
Climate Change (%)	0, 0, 0, 0, 45

PN	US/MH Name	US Label	Event	Duration (mins)	Storm Rank	US/CL (m)	Water Level (m)	Surcharged Depth (m)
1.000	S2000		720 minute 30 year Winter I+0%	720	89	29.931	29.032	-0.193
1.001	S2001		720 minute 30 year Winter I+0%	720	89	29.950	28.808	-0.187
1.002	S2002		720 minute 30 year Winter I+0%	720	89	29.382	28.638	-0.257
2.000	Tank		720 minute 30 year Winter I+0%	720	87	29.140	27.843	-1.158
1.003	S2003		720 minute 30 year Winter I+0%	720	87	29.220	27.843	-0.227
3.000	S2200		720 minute 30 year Winter I+0%	720	89	29.815	29.022	-0.128
3.001	S2100		720 minute 30 year Winter I+0%	720	89	29.140	28.758	-0.292
1.004	S2004		720 minute 30 year Winter I+0%	720	87	29.140	27.816	0.056

		Flooded		Total				
PN	US/MH Name	Volume (m³)	Flow / Overflow Cap. (l/s)	Overflow Act.	Overflow Vol (m³)	Overflow Vol (m³)	Level Exceeded	Maximum Vol (m³)
1.000	S2000	0.000	0.05					0.008
1.001	S2001	0.000	0.07					0.044
1.002	S2002	0.000	0.05					0.012
2.000	Tank	0.000	0.00					0.000
1.003	S2003	0.000	0.09					3.926

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Summary Wizard of 1440 minute 30 year Winter I+0% for Storm

Simulation Criteria

Areal Reduction Factor 1.000

Hot Start (mins) 0

Hot Start Level (mm) 0

Manhole Headloss Coeff (Global) 0.500

Foul Sewage per hectare (l/s) 0.000

Additional Flow - % of Total Flow 0.000

MADD Factor * 10m³/ha Storage 0.000

Inlet Coeffiecient 0.800

Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0

Number of Online Controls 1

Number of Offline Controls 0

Number of Storage Structures 1

Number of Time/Area Diagrams 0

Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model FSR

Region England and Wales Cv (Summer)

M5-60 (mm) 19.000 Cv (Winter)

Ratio R 0.280

1.000

1.000

Margin for Flood Risk Warning (mm) 300.0

Analysis Timestep 2.5 Second Increment (Extended)

DTS Status OFF

DVD Status ON

Inertia 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, 2, 5, 30, 100

Climate Change (%) 0, 0, 0, 0, 45

PN	US/MH Name	US Label	Event	Duration (mins)	Storm Rank	US/CL (m)	Water Level (m)	Surcharged Depth (m)
1.000	S2000		1440 minute 30 year Winter I+0%	1440	109	29.931	29.026	-0.199
1.001	S2001		1440 minute 30 year Winter I+0%	1440	109	29.950	28.799	-0.196
1.002	S2002		1440 minute 30 year Winter I+0%	1440	109	29.382	28.630	-0.265
2.000	Tank		1440 minute 30 year Winter I+0%	1440	109	29.140	27.815	-1.186
1.003	S2003		1440 minute 30 year Winter I+0%	1440	109	29.220	27.815	-0.255
3.000	S2200		1440 minute 30 year Winter I+0%	1440	109	29.815	29.018	-0.132
3.001	S2100		1440 minute 30 year Winter I+0%	1440	109	29.140	28.755	-0.295
1.004	S2004		1440 minute 30 year Winter I+0%	1440	109	29.140	27.645	-0.115

Flooded

US/MH Name

Volume (m³)

Flow / Cap. (l/s)

Overflow (l/s)

Overflow Act.

Overflow Vol (m³)

Overflow Vol (m³)

Level Exceeded

Maximum Vol (m³)

1.000 S2000

0.000

0.03

0.006

1.001 S2001

0.000

0.04

0.032

1.002 S2002

0.000

0.03

0.009

2.000 Tank

0.000

0.00

0.000

1.003 S2003

0.000

0.06

2.334

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Summary Wizard of 15 minute 100 year Winter I+45% for Storm

Simulation Criteria

Areal Reduction Factor 1.000

Hot Start (mins) 0

Hot Start Level (mm) 0

Manhole Headloss Coeff (Global) 0.500

Foul Sewage per hectare (l/s) 0.000

Additional Flow - % of Total Flow 0.000

MADD Factor * 10m³/ha Storage 0.000

Inlet Coeffiecient 0.800

Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0

Number of Online Controls 1

Number of Offline Controls 0

Number of Storage Structures 1

Number of Time/Area Diagrams 0

Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model FSR

Region England and Wales Cv (Summer) 1.000

M5-60 (mm) 19.000 Cv (Winter) 1.000

Ratio R 0.280

Margin for Flood Risk Warning (mm) 300.0

Analysis Timestep 2.5 Second Increment (Extended)

DTS Status OFF

DVD Status ON

Inertia 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, 2, 5, 30, 100

Climate Change (%) 0, 0, 0, 0, 45

PN	US/MH Name	US Label	Event	Duration (mins)	Storm Rank	US/CL (m)	Water Level (m)	Surcharged Depth (m)
1.000	S2000		15 minute 100 year Winter I+45%	15	3	29.931	29.158	-0.067
1.001	S2001		15 minute 100 year Winter I+45%	15	4	29.950	28.999	0.004
1.002	S2002		15 minute 100 year Winter I+45%	15	12	29.382	28.801	-0.094
2.000	Tank		15 minute 100 year Winter I+45%	15	16	29.140	28.582	-0.419
1.003	S2003		15 minute 100 year Winter I+45%	15	16	29.220	28.582	0.512
3.000	S2200		15 minute 100 year Winter I+45%	15	3	29.815	29.111	-0.039
3.001	S2100		15 minute 100 year Winter I+45%	15	10	29.140	28.814	-0.236
1.004	S2004		15 minute 100 year Winter I+45%	15	15	29.140	28.588	0.828

Flooded

US/MH

Volume

Flow /

Overflow

Overflow

Overflow

Overflow

Level

Maximum

PN

Name

(m³)

Cap.

(l/s)

Act.

Vol (m³)

Vol (m³)

Exceeded

Vol (m³)

1.000

S2000

0.000

0.81

0.043

1.001

S2001

0.000

1.05

0.703

1.002

S2002

0.000

0.80

0.232

2.000

Tank

0.000

0.00

0.000

1.003

S2003

0.000

0.22

53.861

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Summary Wizard of 15 minute 100 year Winter I+45% for Storm

Flooded					Total			Level Exceeded	Maximum Vol (m³)
PN	US/MH Name	Volume (m³)	Flow / Overflow Cap. (l/s)	Overflow Act. Vol (m³)	Overflow Vol (m³)	Overflow Vol (m³)	Level Exceeded		
3.000	S2200	0.000	0.89						0.000
3.001	S2100	0.000	0.10						0.017
1.004	S2004	0.000	0.11						4.958

			Maximum		Pipe		
			US/MH Discharge	Velocity	Flow		
PN	Name	Vol (m³)	(m/s)	(l/s)	Status		
1.000	S2000	15.520	1.1	32.4	OK		
1.001	S2001	19.102	1.1	38.8	SURCHARGED		
1.002	S2002	27.159	1.1	54.7	OK		
2.000	Tank	0.595	0.0	1.3	OK		
1.003	S2003	38.029	0.9	18.8	SURCHARGED		
3.000	S2200	6.568	1.0	14.1	OK		
3.001	S2100	12.238	2.5	27.0	OK		
1.004	S2004	46.623	2.6	16.1	SURCHARGED		

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Summary Wizard of 30 minute 100 year Winter I+45% for Storm

Simulation Criteria

Areal Reduction Factor 1.000

Hot Start (mins) 0

Hot Start Level (mm) 0

Manhole Headloss Coeff (Global) 0.500

Foul Sewage per hectare (l/s) 0.000

Additional Flow - % of Total Flow 0.000

MADD Factor * 10m³/ha Storage 0.000

Inlet Coeffiecient 0.800

Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0

Number of Online Controls 1

Number of Offline Controls 0

Number of Storage Structures 1

Number of Time/Area Diagrams 0

Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model FSR

Region England and Wales Cv (Summer) 1.000

M5-60 (mm) 19.000 Cv (Winter) 1.000

Ratio R 0.280

Margin for Flood Risk Warning (mm) 300.0

Analysis Timestep 2.5 Second Increment (Extended)

DTS Status OFF

DVD Status ON

Inertia 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, 2, 5, 30, 100

Climate Change (%) 0, 0, 0, 0, 45

PN	US/MH Name	US Label	Event	Duration (mins)	Storm Rank	US/CL (m)	Water Level (m)	Surcharged Depth (m)
1.000	S2000		30 minute 100 year Winter I+45%	30	4	29.931	29.138	-0.087
1.001	S2001		30 minute 100 year Winter I+45%	30	9	29.950	28.939	-0.056
1.002	S2002		30 minute 100 year Winter I+45%	30	10	29.382	28.811	-0.084
2.000	Tank		30 minute 100 year Winter I+45%	30	9	29.140	28.803	-0.198
1.003	S2003		30 minute 100 year Winter I+45%	30	9	29.220	28.803	0.733
3.000	S2200		30 minute 100 year Winter I+45%	30	4	29.815	29.096	-0.054
3.001	S2100		30 minute 100 year Winter I+45%	30	12	29.140	28.808	-0.242
1.004	S2004		30 minute 100 year Winter I+45%	30	9	29.140	28.804	1.044

Flooded

US/MH

Volume

Flow /

Overflow

Overflow

Overflow

Level

Maximum

PN

Name

(m³)

Cap.

(l/s)

Act.

Vol (m³)

Vol (m³)

Exceeded

Vol (m³)

1.000

S2000

0.000

0.69

0.038

1.001

S2001

0.000

0.91

0.413

1.002

S2002

0.000

0.70

0.268

2.000

Tank

0.000

0.00

0.000

1.003

S2003

0.000

0.21

69.876

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Summary Wizard of 30 minute 100 year Winter I+45% for Storm

Flooded				Total			
PN	US/MH Name	Volume (m³)	Flow / Overflow Cap. (l/s)	Overflow Act.	Overflow Vol (m³)	Overflow Vol (m³)	Level Exceeded
3.000	S2200	0.000	0.74				0.000
3.001	S2100	0.000	0.08				0.015
1.004	S2004	0.000	0.12				5.496

			Maximum Discharge	Pipe Velocity	Pipe Flow	Status
PN	US/MH Name	Vol (m³)	(m/s)	(l/s)		
1.000	S2000	21.674	1.1	27.6		OK
1.001	S2001	26.675	1.1	33.9		OK
1.002	S2002	37.927	1.0	48.1		OK
2.000	Tank	0.829	0.0	1.1		OK
1.003	S2003	37.740	0.9	17.9		SURCHARGED
3.000	S2200	9.170	1.0	11.7		OK
3.001	S2100	17.090	2.3	21.9		OK
1.004	S2004	50.155	2.7	17.7		SURCHARGED

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Summary Wizard of 120 minute 100 year Winter I+45% for Storm

Surcharged Flooded					Total			
PN	US/MH Name	Depth (m)	Volume (m³)	Flow / Overflow Cap. (l/s)	Overflow Act.	Overflow Vol (m³)	Overflow Vol (m³)	Level Exceeded
3.000	S2200	-0.089	0.000	0.35				
3.001	S2100	-0.087	0.000	0.04				
1.004	S2004	1.199	0.000	0.13				

		US/MH		Maximum	Discharge	Maximum	Pipe		
PN	Name	Vol (m³)	Vol (m³)	(m/s)	(l/s)	(m/s)	(l/s)	Status	
1.000	S2000	0.023	37.262	0.9	13.0			OK	
1.001	S2001	0.663	45.861	0.9	15.9			OK	
1.002	S2002	0.665	65.209	0.9	22.7			SURCHARGED	
2.000	Tank	0.000	1.433	0.0	0.5			FLOOD RISK	
1.003	S2003	81.437	140.941	0.8	17.9			FLOOD RISK	
3.000	S2200	0.000	15.765	0.8	5.5			OK	
3.001	S2100	0.078	29.380	2.0	10.2			FLOOD RISK	
1.004	S2004	5.852	170.260	2.7	18.8			FLOOD RISK	

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Summary Wizard of 180 minute 100 year Winter I+45% for Storm

		Surcharged		Flooded					Total		
PN	US/MH Name	Depth (m)	Volume (m³)	Flow / Cap.	Overflow (l/s)	Overflow Act.	Overflow Vol (m³)	Overflow Vol (m³)	Level Exceeded		
3.000	S2200	-0.098	0.000	0.26							
3.001	S2100	-0.158	0.000	0.03							
1.004	S2004	1.129	0.000	0.13							

				Maximum		Pipe		
PN	US/MH Name	Maximum Vol (m³)	Discharge Vol (m³)	Velocity (m/s)	Flow (l/s)	Status		
1.000	S2000	0.020	42.345	0.8	9.9	OK		
1.001	S2001	0.309	52.117	0.8	12.2	OK		
1.002	S2002	0.568	74.101	0.8	17.3	SURCHARGED		
2.000	Tank	0.000	1.629	0.0	0.4	FLOOD RISK		
1.003	S2003	76.461	160.423	0.7	17.2	SURCHARGED		
3.000	S2200	0.000	17.915	0.8	4.2	OK		
3.001	S2100	0.043	33.387	1.9	7.8	FLOOD RISK		
1.004	S2004	5.697	193.808	2.7	18.4	FLOOD RISK		

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Summary Wizard of 240 minute 100 year Winter I+45% for Storm

Surcharged Flooded					Total			
PN	US/MH Name	Depth (m)	Volume (m³)	Flow / Overflow Cap. (l/s)	Overflow Act.	Overflow Vol (m³)	Overflow Vol (m³)	Level Exceeded
3.000	S2200	-0.103	0.000	0.22				
3.001	S2100	-0.241	0.000	0.02				
1.004	S2004	1.045	0.000	0.12				

		US/MH		Maximum	Discharge	Maximum	Pipe		
		PN	Name	Vol (m³)	Vol (m³)	(m/s)	(l/s)	Status	
1.000	S2000			0.018	46.041	0.8	8.1	OK	
1.001	S2001			0.099	56.666	0.8	9.9	OK	
1.002	S2002			0.282	80.572	0.8	14.1	OK	
2.000	Tank			0.000	1.771	0.0	0.3	OK	
1.003	S2003			70.208	174.426	0.8	17.7	SURCHARGED	
3.000	S2200			0.000	19.479	0.7	3.4	OK	
3.001	S2100			0.015	36.301	1.9	6.4	OK	
1.004	S2004			5.497	210.725	2.7	17.8	SURCHARGED	

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Summary Wizard of 360 minute 100 year Winter I+45% for Storm

Surcharged Flooded					Total			
PN	US/MH Name	Depth (m)	Volume (m³)	Flow / Overflow Cap. (l/s)	Overflow Act.	Overflow Vol (m³)	Overflow Vol (m³)	Level Exceeded
3.000	S2200	-0.110	0.000	0.16				
3.001	S2100	-0.275	0.000	0.02				
1.004	S2004	0.878	0.000	0.12				

		US/MH		Maximum	Discharge	Maximum	Pipe		
PN	Name	Vol (m³)	Vol (m³)	(m/s)	(l/s)	(m/s)	(l/s)	Status	
1.000	S2000	0.015	51.828	0.7	6.1			OK	
1.001	S2001	0.084	63.789	0.7	7.5			OK	
1.002	S2002	0.023	90.700	0.7	10.6			OK	
2.000	Tank	0.000	1.993	0.0	0.2			OK	
1.003	S2003	58.041	196.328	0.8	16.5			SURCHARGED	
3.000	S2200	0.000	21.927	0.7	2.6			OK	
3.001	S2100	0.006	40.864	1.9	4.8			OK	
1.004	S2004	5.085	237.190	2.6	16.6			SURCHARGED	

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Summary Wizard of 720 minute 100 year Winter I+45% for Storm

Surcharged Flooded					Total			
PN	US/MH Name	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (l/s)	Overflow Act.	Overflow Vol (m ³)	Overflow Vol (m ³)	Level Exceeded
3.000	S2200	-0.119	0.000	0.10				
3.001	S2100	-0.285	0.000	0.01				
1.004	S2004	0.497	0.000	0.09				

		US/MH		Maximum	Discharge	Maximum	Pipe		
PN	Name	Vol (m ³)	Vol (m ³)	(m/s)	(l/s)	(m/s)	(l/s)	Status	
1.000	S2000	0.012	62.951	0.6	3.7			OK	
1.001	S2001	0.063	77.477	0.7	4.5			OK	
1.002	S2002	0.018	110.163	0.6	6.4			OK	
2.000	Tank	0.000	2.421	0.0	0.1			OK	
1.003	S2003	31.054	238.477	0.7	13.2			SURCHARGED	
3.000	S2200	0.000	26.633	0.6	1.6			OK	
3.001	S2100	0.003	49.633	1.6	2.9			OK	
1.004	S2004	4.106	288.107	2.5	13.4			SURCHARGED	

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Summary Wizard of 960 minute 100 year Winter I+45% for Storm

Surcharged Flooded					Total			
PN	US/MH Name	Depth (m)	Volume (m³)	Flow / Overflow Cap. (l/s)	Overflow Act.	Overflow Vol (m³)	Overflow Vol (m³)	Level Exceeded
3.000	S2200	-0.122	0.000	0.08				
3.001	S2100	-0.288	0.000	0.01				
1.004	S2004	0.329	0.000	0.08				

		US/MH		Maximum	Discharge	Maximum	Pipe		
		PN	Name	Vol (m³)	Vol (m³)	(m/s)	(l/s)	Status	
1.000	S2000			0.010	68.049	0.6	3.0	OK	
1.001	S2001			0.056	83.752	0.6	3.7	OK	
1.002	S2002			0.016	119.086	0.6	5.2	OK	
2.000	Tank			0.000	2.617	0.0	0.1	OK	
1.003	S2003			19.891	257.810	0.7	11.6	SURCHARGED	
3.000	S2200			0.000	28.790	0.6	1.3	OK	
3.001	S2100			0.002	53.653	1.3	2.4	OK	
1.004	S2004			3.674	311.461	2.4	11.9	SURCHARGED	

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Summary Wizard of 1440 minute 100 year Winter I+45% for Storm

Simulation Criteria

Areal Reduction Factor 1.000

Additional Flow - % of Total Flow 0.000

Hot Start (mins) 0

MADD Factor * 10m³/ha Storage 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 0.280

Region England and Wales Cv (Summer) 1.000

M5-60 (mm) 19.000 Cv (Winter) 1.000

Margin for Flood Risk Warning (mm) 300.0

Analysis Timestep 2.5 Second Increment (Extended)

DTS Status OFF

DVD Status ON

Inertia 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, 2, 5, 30, 100

Climate Change (%) 0, 0, 0, 0, 45

PN	US/MH Name	US Label	Event	Duration (mins)	Storm Rank	US/CL (m)	Water Level (m)
1.000	S2000		1440 minute 100 year Winter I+45%	1440	86	29.931	29.034
1.001	S2001		1440 minute 100 year Winter I+45%	1440	86	29.950	28.810
1.002	S2002		1440 minute 100 year Winter I+45%	1440	86	29.382	28.641
2.000	Tank		1440 minute 100 year Winter I+45%	1440	74	29.140	27.890
1.003	S2003		1440 minute 100 year Winter I+45%	1440	74	29.220	27.890
3.000	S2200		1440 minute 100 year Winter I+45%	1440	86	29.815	29.023
3.001	S2100		1440 minute 100 year Winter I+45%	1440	86	29.140	28.759
1.004	S2004		1440 minute 100 year Winter I+45%	1440	74	29.140	27.880

Surcharged Flooded

US/MH Name

Depth (m)

Volume (m³)

Flow / Overflow Cap. (l/s)

Overflow Act.

Overflow Vol (m³)

Overflow Vol (m³)

Total Level Exceeded

1.000 S2000

-0.191

0.000

0.06

1.001 S2001

-0.185

0.000

0.07

1.002 S2002

-0.254

0.000

0.06

2.000 Tank

-1.111

0.000

0.00

1.003 S2003

-0.180

0.000

0.10

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