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Barton Arcade Manchester M3 2BH		
Date 16/08/2022 15:35 File 200903-EDGE-_SW-PARCEL ...	Designed by phill Checked by	
XP Solutions Network 2020.1.3		

STORM SEWER DESIGN by the Modified Rational Method

Design Criteria for PARCEL A SW

Pipe Sizes STANDARD Manhole Sizes STANDARD

FSR Rainfall Model - England and Wales

Return Period (years)	30	PIMP (%)	100
M5-60 (mm)	19.000	Add Flow / Climate Change (%)	0
Ratio R	0.283	Minimum Backdrop Height (m)	0.600
Maximum Rainfall (mm/hr)	50	Maximum Backdrop Height (m)	3.000
Maximum Time of Concentration (mins)	30	Min Design Depth for Optimisation (m)	1.000
Foul Sewage (l/s/ha)	0.000	Min Vel for Auto Design only (m/s)	1.00
Volumetric Runoff Coeff.	0.750	Min Slope for Optimisation (1:X)	500

Designed with Level Soffits

Network Design Table for PARCEL A SW

« - Indicates pipe capacity < flow

PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)	Section Type	Auto Design
1.000	26.567	0.066	400.0	0.189	5.00	0.0	0.600	o	1350	Pipe/Conduit	
2.000	22.832	0.057	400.6	0.119	5.00	0.0	0.600	o	750	Pipe/Conduit	
1.001	12.940	0.033	392.1	0.051	0.00	0.0	0.600	o	1350	Pipe/Conduit	
1.002	25.643	0.064	400.7	0.027	0.00	0.0	0.600	o	1350	Pipe/Conduit	
1.003	7.074	0.018	393.0	0.017	0.00	0.0	0.600	o	1350	Pipe/Conduit	
1.004	26.163	0.065	400.0	0.051	0.00	0.0	0.600	o	1350	Pipe/Conduit	
1.005	11.645	0.029	400.0	0.011	0.00	0.0	0.600	o	1350	Pipe/Conduit	
1.006	17.732	0.044	400.0	0.000	0.00	0.0	0.600	o	1350	Pipe/Conduit	
1.007	11.060	0.028	395.0	0.155	0.00	0.0	0.600	o	1350	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	5.22	54.480	0.189	0.0	0.0	0.0	2.00	2869.3	25.6
2.000	50.00	5.27	54.981	0.119	0.0	0.0	0.0	1.39	615.0	16.1
1.001	50.00	5.38	54.414	0.359	0.0	0.0	0.0	2.02	2898.2	48.6
1.002	50.00	5.59	54.317	0.386	0.0	0.0	0.0	2.00	2866.9	52.3
1.003	50.00	5.65	54.253	0.403	0.0	0.0	0.0	2.02	2894.9	54.6
1.004	50.00	5.87	54.235	0.454	0.0	0.0	0.0	2.00	2869.3	61.5
1.005	50.00	5.97	54.170	0.465	0.0	0.0	0.0	2.00	2869.3	63.0
1.006	50.00	6.11	54.140	0.465	0.0	0.0	0.0	2.00	2869.3	63.0
1.007	50.00	6.20	54.096	0.620	0.0	0.0	0.0	2.02	2887.6	84.0

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Micro Drainage

Network Design Table for PARCEL A SW

PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)	Section Type	Auto Design
1.008	25.610	0.064	400.0	0.105	0.00	0.0	0.600	o	1350	Pipe/Conduit	
1.009	5.734	0.034	167.0	0.000	0.00	0.0	0.600	o	225	Pipe/Conduit	
1.010	5.257	0.031	167.0	0.000	0.00	0.0	0.600	o	225	Pipe/Conduit	

Network Results Table

PN	Rain (mm/hr)	T.C. (mins)	US/IL (m)	Σ I.Area (ha)	Σ Base Flow (l/s)	Foul (l/s)	Add Flow (l/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)
1.008	50.00	6.42	54.068	0.725	0.0	0.0	0.0	2.00	2869.3	98.2
1.009	50.00	6.51	54.004	0.725	0.0	0.0	0.0	1.01	40.1«	98.2
1.010	50.00	6.60	53.970	0.725	0.0	0.0	0.0	1.01	40.1«	98.2

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Manhole Schedules for PARCEL A SW

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)
S11	57.059	2.579	Open Manhole	3000	1.000	54.480	1350			
S27	57.026	2.045	Open Manhole	2100	2.000	54.981	750			
S12	57.340	2.926	Open Manhole	3000	1.001	54.414	1350	1.000	54.414	1350
								2.000	54.924	750
S13	57.489	3.172	Open Manhole	3000	1.002	54.317	1350	1.001	54.381	1350
S14	57.474	3.221	Open Manhole	3000	1.003	54.253	1350	1.002	54.253	1350
S15	57.421	3.186	Open Manhole	3000	1.004	54.235	1350	1.003	54.235	1350
S16	57.742	3.572	Open Manhole	3000	1.005	54.170	1350	1.004	54.170	1350
S17	58.061	3.921	Open Manhole	3000	1.006	54.140	1350	1.005	54.140	1350
S23	57.812	3.716	Open Manhole	3000	1.007	54.096	1350	1.006	54.096	1350
S24	57.874	3.806	Open Manhole	3000	1.008	54.068	1350	1.007	54.068	1350
S25 HYDROBRAKE	57.902	3.898	Open Manhole	3000	1.009	54.004	225	1.008	54.004	1350
S26	57.595	3.625	Open Manhole	1350	1.010	53.970	225	1.009	53.970	225
S27 PUMP STATION	57.664	3.725	Open Manhole	225		OUTFALL		1.010	53.939	225

MH Name	Manhole Easting (m)	Manhole Northing (m)	Intersection Easting (m)	Intersection Northing (m)	Manhole Access	Layout (North)
S11	372623.956	437526.638	372623.956	437526.638	Required	
S27	372651.713	437503.195	372651.713	437503.195	Required	
S12	372629.033	437500.561	372629.033	437500.561	Required	
S13	372629.704	437487.639	372629.704	437487.639	Required	
S14	372623.127	437462.854	372623.127	437462.854	Required	
S15	372624.957	437456.021	372624.957	437456.021	Required	
S16	372636.437	437432.512	372636.437	437432.512	Required	



Micro
Drainage

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MH Name	Manhole Easting (m)	Manhole Northing (m)	Intersection Easting (m)	Intersection Northing (m)	Manhole Access	Layout (North)
S17	372645.264	437424.916	372645.264	437424.916	Required	
S23	372662.491	437420.711	372662.491	437420.711	Required	
S24	372663.210	437409.675	372663.210	437409.675	Required	
S25 HYDROBRAKE	372665.390	437384.157	372665.390	437384.157	Required	
S26	372664.208	437378.547	372664.208	437378.547	Required	
S27 PUMP STATION	372662.762	437373.493			No Entry	

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<u>PIPELINE SCHEDULES for PARCEL A SW</u> <u>Upstream Manhole</u> <table><tr><th>PN</th><th>Hyd Sect</th><th>Diam (mm)</th><th>MH Name</th><th>C.Level (m)</th><th>I.Level (m)</th><th>D.Depth (m)</th><th>MH Connection</th><th>MH DIAM., L*W (mm)</th></tr><tr><td>1.000</td><td>o</td><td>1350</td><td>S11</td><td>57.059</td><td>54.480</td><td>1.229</td><td>Open Manhole</td><td>3000</td></tr><tr><td>2.000</td><td>o</td><td>750</td><td>S27</td><td>57.026</td><td>54.981</td><td>1.295</td><td>Open Manhole</td><td>2100</td></tr><tr><td>1.001</td><td>o</td><td>1350</td><td>S12</td><td>57.340</td><td>54.414</td><td>1.576</td><td>Open Manhole</td><td>3000</td></tr><tr><td>1.002</td><td>o</td><td>1350</td><td>S13</td><td>57.489</td><td>54.317</td><td>1.822</td><td>Open Manhole</td><td>3000</td></tr><tr><td>1.003</td><td>o</td><td>1350</td><td>S14</td><td>57.474</td><td>54.253</td><td>1.871</td><td>Open Manhole</td><td>3000</td></tr><tr><td>1.004</td><td>o</td><td>1350</td><td>S15</td><td>57.421</td><td>54.235</td><td>1.836</td><td>Open Manhole</td><td>3000</td></tr><tr><td>1.005</td><td>o</td><td>1350</td><td>S16</td><td>57.742</td><td>54.170</td><td>2.222</td><td>Open Manhole</td><td>3000</td></tr><tr><td>1.006</td><td>o</td><td>1350</td><td>S17</td><td>58.061</td><td>54.140</td><td>2.571</td><td>Open Manhole</td><td>3000</td></tr><tr><td>1.007</td><td>o</td><td>1350</td><td>S23</td><td>57.812</td><td>54.096</td><td>2.366</td><td>Open Manhole</td><td>3000</td></tr><tr><td>1.008</td><td>o</td><td>1350</td><td>S24</td><td>57.874</td><td>54.068</td><td>2.456</td><td>Open Manhole</td><td>3000</td></tr><tr><td>1.009</td><td>o</td><td>225</td><td>S25 HYDROBRAKE</td><td>57.902</td><td>54.004</td><td>3.673</td><td>Open Manhole</td><td>3000</td></tr><tr><td>1.010</td><td>o</td><td>225</td><td>S26</td><td>57.595</td><td>53.970</td><td>3.400</td><td>Open Manhole</td><td>1350</td></tr></table> <u>Downstream Manhole</u> <table><tr><th>PN</th><th>Length (m)</th><th>Slope (1:X)</th><th>MH Name</th><th>C.Level (m)</th><th>I.Level (m)</th><th>D.Depth (m)</th><th>MH Connection</th><th>MH DIAM., L*W (mm)</th></tr><tr><td>1.000</td><td>26.567</td><td>400.0</td><td>S12</td><td>57.340</td><td>54.414</td><td>1.576</td><td>Open Manhole</td><td>3000</td></tr><tr><td>2.000</td><td>22.832</td><td>400.6</td><td>S12</td><td>57.340</td><td>54.924</td><td>1.666</td><td>Open Manhole</td><td>3000</td></tr><tr><td>1.001</td><td>12.940</td><td>392.1</td><td>S13</td><td>57.489</td><td>54.381</td><td>1.758</td><td>Open Manhole</td><td>3000</td></tr><tr><td>1.002</td><td>25.643</td><td>400.7</td><td>S14</td><td>57.474</td><td>54.253</td><td>1.871</td><td>Open Manhole</td><td>3000</td></tr><tr><td>1.003</td><td>7.074</td><td>393.0</td><td>S15</td><td>57.421</td><td>54.235</td><td>1.836</td><td>Open Manhole</td><td>3000</td></tr><tr><td>1.004</td><td>26.163</td><td>400.0</td><td>S16</td><td>57.742</td><td>54.170</td><td>2.222</td><td>Open Manhole</td><td>3000</td></tr><tr><td>1.005</td><td>11.645</td><td>400.0</td><td>S17</td><td>58.061</td><td>54.140</td><td>2.571</td><td>Open Manhole</td><td>3000</td></tr><tr><td>1.006</td><td>17.732</td><td>400.0</td><td>S23</td><td>57.812</td><td>54.096</td><td>2.366</td><td>Open Manhole</td><td>3000</td></tr><tr><td>1.007</td><td>11.060</td><td>395.0</td><td>S24</td><td>57.874</td><td>54.068</td><td>2.456</td><td>Open Manhole</td><td>3000</td></tr><tr><td>1.008</td><td>25.610</td><td>400.0</td><td>S25 HYDROBRAKE</td><td>57.902</td><td>54.004</td><td>2.548</td><td>Open Manhole</td><td>3000</td></tr><tr><td>1.009</td><td>5.734</td><td>167.0</td><td>S26</td><td>57.595</td><td>53.970</td><td>3.400</td><td>Open Manhole</td><td>1350</td></tr><tr><td>1.010</td><td>5.257</td><td>167.0</td><td>S27 PUMP STATION</td><td>57.664</td><td>53.939</td><td>3.500</td><td>Open Manhole</td><td>225</td></tr></table> <u>Surcharged Outfall Details for PARCEL A SW</u> <table><tr><th>Outfall Pipe Number</th><th>Outfall Name</th><th>C. Level (m)</th><th>I. Level (m)</th><th>Min I. Level (m)</th><th>D,L (mm)</th><th>W (mm)</th></tr><tr><td>1.010</td><td>S27 PUMP STATION</td><td>57.664</td><td>53.939</td><td>53.000</td><td>225</td><td>0</td></tr></table> Datum (m) 0.000 Offset (mins) 0											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	1350	S11	57.059	54.480	1.229	Open Manhole	3000	2.000	o	750	S27	57.026	54.981	1.295	Open Manhole	2100	1.001	o	1350	S12	57.340	54.414	1.576	Open Manhole	3000	1.002	o	1350	S13	57.489	54.317	1.822	Open Manhole	3000	1.003	o	1350	S14	57.474	54.253	1.871	Open Manhole	3000	1.004	o	1350	S15	57.421	54.235	1.836	Open Manhole	3000	1.005	o	1350	S16	57.742	54.170	2.222	Open Manhole	3000	1.006	o	1350	S17	58.061	54.140	2.571	Open Manhole	3000	1.007	o	1350	S23	57.812	54.096	2.366	Open Manhole	3000	1.008	o	1350	S24	57.874	54.068	2.456	Open Manhole	3000	1.009	o	225	S25 HYDROBRAKE	57.902	54.004	3.673	Open Manhole	3000	1.010	o	225	S26	57.595	53.970	3.400	Open Manhole	1350	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	26.567	400.0	S12	57.340	54.414	1.576	Open Manhole	3000	2.000	22.832	400.6	S12	57.340	54.924	1.666	Open Manhole	3000	1.001	12.940	392.1	S13	57.489	54.381	1.758	Open Manhole	3000	1.002	25.643	400.7	S14	57.474	54.253	1.871	Open Manhole	3000	1.003	7.074	393.0	S15	57.421	54.235	1.836	Open Manhole	3000	1.004	26.163	400.0	S16	57.742	54.170	2.222	Open Manhole	3000	1.005	11.645	400.0	S17	58.061	54.140	2.571	Open Manhole	3000	1.006	17.732	400.0	S23	57.812	54.096	2.366	Open Manhole	3000	1.007	11.060	395.0	S24	57.874	54.068	2.456	Open Manhole	3000	1.008	25.610	400.0	S25 HYDROBRAKE	57.902	54.004	2.548	Open Manhole	3000	1.009	5.734	167.0	S26	57.595	53.970	3.400	Open Manhole	1350	1.010	5.257	167.0	S27 PUMP STATION	57.664	53.939	3.500	Open Manhole	225	Outfall Pipe Number	Outfall Name	C. Level (m)	I. Level (m)	Min I. Level (m)	D,L (mm)	W (mm)	1.010	S27 PUMP STATION	57.664	53.939	53.000	225	0
PN	Hyd Sect	Diam (mm)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)																																																																																																																																																																																																																																																										
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Outfall Pipe Number	Outfall Name	C. Level (m)	I. Level (m)	Min I. Level (m)	D,L (mm)	W (mm)																																																																																																																																																																																																																																																												
1.010	S27 PUMP STATION	57.664	53.939	53.000	225	0																																																																																																																																																																																																																																																												
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Surcharged Outfall Details for PARCEL A SW

Time (mins)	Depth (m)	Time (mins)	Depth (m)	Time (mins)	Depth (m)	Time (mins)	Depth (m)	Time (mins)	Depth (m)	Time (mins)	Depth (m)
5	1.000	15	1.000	25	1.000	35	1.000	45	1.000	55	1.000
10	1.000	20	1.000	30	1.000	40	1.000	50	1.000	60	1.000

Simulation Criteria for PARCEL A SW

Volumetric Runoff Coeff	0.750	Additional Flow - % of Total Flow	0.000
Areal Reduction Factor	1.000	MADD Factor * 10m ³ /ha Storage	4.000
Hot Start (mins)	0	Inlet Coefficient	0.800
Hot Start Level (mm)	0	Flow per Person per Day (l/per/day)	0.000
Manhole Headloss Coeff (Global)	0.500	Run Time (mins)	60
Foul Sewage per hectare (l/s)	0.000	Output Interval (mins)	1

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

Synthetic Rainfall Details

Rainfall Model	FSR	Profile Type	Summer
Return Period (years)	30	Cv (Summer)	0.750
Region	England and Wales	Cv (Winter)	0.840
M5-60 (mm)	19.000	Storm Duration (mins)	30
Ratio R	0.283		

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Online Controls for PARCEL A SW

Hydro-Brake® Optimum Manhole: S25 HYDROBRAKE, DS/PN: 1.009, Volume (m³):
59.9

Unit Reference	MD-SHE-0119-9400-2600-9400
Design Head (m)	2.600
Design Flow (l/s)	9.4
Flush-Flo™	Calculated
Objective	Minimise upstream storage
Application	Surface
Sump Available	Yes
Diameter (mm)	119
Invert Level (m)	54.004
Minimum Outlet Pipe Diameter (mm)	150
Suggested Manhole Diameter (mm)	1200

Control Points	Head (m)	Flow (l/s)
Design Point (Calculated)	2.600	9.4
Flush-Flo™	0.523	7.8
Kick-Flo®	1.065	6.2
Mean Flow over Head Range	-	7.4

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

Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)
0.100	4.2	1.200	6.5	3.000	10.1	7.000	15.0
0.200	6.7	1.400	7.0	3.500	10.8	7.500	15.6
0.300	7.4	1.600	7.5	4.000	11.5	8.000	16.0
0.400	7.7	1.800	7.9	4.500	12.2	8.500	16.5
0.500	7.8	2.000	8.3	5.000	12.8	9.000	17.0
0.600	7.7	2.200	8.7	5.500	13.4	9.500	17.4
0.800	7.5	2.400	9.1	6.000	14.0		
1.000	6.7	2.600	9.4	6.500	14.5		

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Summary Wizard of 15 minute 2 year Summer I+0% for PARCEL A SW

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	4.000
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	0
Number of Online Controls	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	0.283
Region England and Wales Cv (Summer)	0.750		
M5-60 (mm)	19.000	Cv (Winter)	0.840

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

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

PN	US/MH Name	Storm Rank	Water		Surcharged		Flooded		Half Drain Time (mins)	Pipe Flow (l/s)
			Level (m)	Depth (m)	Volume (m³)	Flow / Cap.	Overflow (l/s)			
1.000	S11	60	54.621	-1.209	0.000	0.01		26.5		
2.000	S27	37	55.076	-0.655	0.000	0.04		17.1		
1.001	S12	65	54.587	-1.177	0.000	0.04		49.0		
1.002	S13	69	54.500	-1.167	0.000	0.03		51.2		
1.003	S14	69	54.499	-1.104	0.000	0.05		51.5		
1.004	S15	69	54.499	-1.086	0.000	0.03		52.4		
1.005	S16	69	54.499	-1.020	0.000	0.04		42.0		
1.006	S17	69	54.499	-0.991	0.000	0.02		34.1		
1.007	S23	69	54.499	-0.947	0.000	0.03		33.1		
1.008	S24	69	54.499	-0.919	0.000	0.02		30.7		
1.009	S25 HYDROBRAKE	69	54.498	0.269	0.000	0.26		7.7		
1.010	S26	69	54.048	-0.147	0.000	0.26		7.7		

PN	US/MH Name	Status
1.000	S11	OK
2.000	S27	OK
1.001	S12	OK

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	US/MH	
PN	Name	Status
1.002	S13	OK
1.003	S14	OK
1.004	S15	OK
1.005	S16	OK
1.006	S17	OK
1.007	S23	OK
1.008	S24	OK
1.009	S25 HYDROBRAKE	SURCHARGED
1.010	S26	OK
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Summary Wizard of 30 minute 2 year Summer I+0% for PARCEL A SW

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	4.000
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	0
Number of Online Controls	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	0.283
Region England and Wales Cv (Summer)	0.750		
M5-60 (mm)	19.000	Cv (Winter)	0.840

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

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

PN	US/MH Name	Storm Rank	Water		Surcharged		Flooded		Half Drain Time (mins)	Pipe Flow (l/s)
			Level (m)	Depth (m)	Volume (m³)	Flow / Cap.	Overflow (l/s)			
1.000	S11	61	54.619	-1.211	0.000	0.01		25.0		
2.000	S27	39	55.073	-0.658	0.000	0.04		16.4		
1.001	S12	66	54.584	-1.180	0.000	0.04		47.4		
1.002	S13	65	54.561	-1.106	0.000	0.03		48.9		
1.003	S14	65	54.561	-1.042	0.000	0.04		46.0		
1.004	S15	65	54.561	-1.024	0.000	0.03		46.8		
1.005	S16	65	54.561	-0.959	0.000	0.03		34.2		
1.006	S17	65	54.561	-0.930	0.000	0.02		25.8		
1.007	S23	65	54.561	-0.885	0.000	0.02		27.5		
1.008	S24	65	54.560	-0.858	0.000	0.02		27.8		
1.009	S25 HYDROBRAKE	65	54.560	0.331	0.000	0.26		7.8		
1.010	S26	49	54.048	-0.147	0.000	0.26		7.8		

PN	US/MH Name	Status
1.000	S11	OK
2.000	S27	OK
1.001	S12	OK

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	US/MH	
PN	Name	Status
1.002	S13	OK
1.003	S14	OK
1.004	S15	OK
1.005	S16	OK
1.006	S17	OK
1.007	S23	OK
1.008	S24	OK
1.009	S25 HYDROBRAKE	SURCHARGED
1.010	S26	OK
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Summary Wizard of 60 minute 2 year Summer I+0% for PARCEL A SW

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	4.000
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	0
Number of Online Controls	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	0.283
Region England and Wales Cv (Summer)	0.750		
M5-60 (mm)	19.000	Cv (Winter)	0.840

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

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

PN	US/MH Name	Storm Rank	Water		Surcharged		Flooded		Half Drain Time (mins)	Pipe Flow (l/s)
			Level (m)	Depth (m)	Volume (m³)	Flow / Cap.	Overflow (l/s)			
1.000	S11	64	54.607	-1.223	0.000	0.01			19.4	
2.000	S27	43	55.064	-0.667	0.000	0.03			12.3	
1.001	S12	60	54.607	-1.157	0.000	0.03			36.9	
1.002	S13	60	54.606	-1.061	0.000	0.02			37.8	
1.003	S14	60	54.606	-0.997	0.000	0.03			32.8	
1.004	S15	60	54.606	-0.979	0.000	0.02			33.7	
1.005	S16	60	54.606	-0.913	0.000	0.02			23.5	
1.006	S17	60	54.606	-0.884	0.000	0.01			16.7	
1.007	S23	60	54.606	-0.840	0.000	0.02			20.7	
1.008	S24	60	54.605	-0.813	0.000	0.01			22.9	
1.009	S25 HYDROBRAKE	60	54.605	0.376	0.000	0.26			7.8	
1.010	S26	50	54.048	-0.147	0.000	0.26			7.8	

PN	US/MH Name	Status
1.000	S11	OK
2.000	S27	OK
1.001	S12	OK

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<u>Summary Wizard of 60 minute 2 year Summer I+0% for PARCEL A SW</u>																																
<table> <tr> <th>PN</th><th>US/MH Name</th><th>Status</th></tr> <tr> <td>1.002</td><td>S13</td><td>OK</td></tr> <tr> <td>1.003</td><td>S14</td><td>OK</td></tr> <tr> <td>1.004</td><td>S15</td><td>OK</td></tr> <tr> <td>1.005</td><td>S16</td><td>OK</td></tr> <tr> <td>1.006</td><td>S17</td><td>OK</td></tr> <tr> <td>1.007</td><td>S23</td><td>OK</td></tr> <tr> <td>1.008</td><td>S24</td><td>OK</td></tr> <tr> <td>1.009</td><td>S25 HYDROBRAKE</td><td>SURCHARGED</td></tr> <tr> <td>1.010</td><td>S26</td><td>OK</td></tr> </table>			PN	US/MH Name	Status	1.002	S13	OK	1.003	S14	OK	1.004	S15	OK	1.005	S16	OK	1.006	S17	OK	1.007	S23	OK	1.008	S24	OK	1.009	S25 HYDROBRAKE	SURCHARGED	1.010	S26	OK
PN	US/MH Name	Status																														
1.002	S13	OK																														
1.003	S14	OK																														
1.004	S15	OK																														
1.005	S16	OK																														
1.006	S17	OK																														
1.007	S23	OK																														
1.008	S24	OK																														
1.009	S25 HYDROBRAKE	SURCHARGED																														
1.010	S26	OK																														
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Summary Wizard of 120 minute 2 year Summer I+0% for PARCEL A SW

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	4.000
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	0
Number of Online Controls	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	0.283
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.000	Cv (Winter)	0.840

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

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

PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded	Flow / Overflow (l/s)	Half Drain Time (mins)	Pipe
			Level (m)	Depth (m)	Volume (m³)			Flow (l/s)
1.000	S11	56	54.631	-1.199	0.000	0.01		13.4
2.000	S27	46	55.050	-0.681	0.000	0.02		8.6
1.001	S12	56	54.631	-1.133	0.000	0.02		24.9
1.002	S13	56	54.631	-1.036	0.000	0.01		24.9
1.003	S14	56	54.631	-0.972	0.000	0.02		20.4
1.004	S15	56	54.631	-0.954	0.000	0.01		21.2
1.005	S16	56	54.630	-0.889	0.000	0.01		14.4
1.006	S17	56	54.630	-0.860	0.000	0.01		10.2
1.007	S23	56	54.630	-0.816	0.000	0.01		14.6
1.008	S24	56	54.630	-0.788	0.000	0.01		17.4
1.009	S25 HYDROBRAKE	56	54.629	0.400	0.000	0.26		7.8
1.010	S26	62	54.048	-0.147	0.000	0.26		7.8

PN	US/MH Name	Status
1.000	S11	OK
2.000	S27	OK
1.001	S12	OK

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Summary Wizard of 120 minute 2 year Summer I+0% for PARCEL A SW

PN	US/MH	
	Name	Status
1.002	S13	OK
1.003	S14	OK
1.004	S15	OK
1.005	S16	OK
1.006	S17	OK
1.007	S23	OK
1.008	S24	OK
1.009	S25 HYDROBRAKE	SURCHARGED
1.010	S26	OK

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Summary Wizard of 180 minute 2 year Summer I+0% for PARCEL A SW

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	4.000
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	0
Number of Online Controls	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	0.283
Region England and Wales Cv (Summer)	0.750		
M5-60 (mm)	19.000	Cv (Winter)	0.840

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

Profile(s)

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

PN	US/MH Name	Storm Rank	Water		Surcharged		Flooded		Half Drain Time (mins)	Pipe Flow (l/s)
			Level (m)	Depth (m)	Volume (m³)	Flow / Cap.	Overflow (l/s)			
1.000	S11	54	54.637	-1.193	0.000	0.01		11.1		
2.000	S27	48	55.038	-0.693	0.000	0.02		7.1		
1.001	S12	54	54.637	-1.127	0.000	0.02		20.4		
1.002	S13	54	54.637	-1.030	0.000	0.01		20.5		
1.003	S14	54	54.636	-0.967	0.000	0.02		17.1		
1.004	S15	54	54.636	-0.949	0.000	0.01		17.8		
1.005	S16	54	54.636	-0.883	0.000	0.01		12.6		
1.006	S17	54	54.636	-0.854	0.000	0.01		9.2		
1.007	S23	54	54.636	-0.810	0.000	0.01		12.9		
1.008	S24	54	54.636	-0.783	0.000	0.01		15.3		
1.009	S25 HYDROBRAKE	54	54.635	0.406	0.000	0.26		7.8		
1.010	S26	60	54.048	-0.147	0.000	0.26		7.8		

PN	US/MH Name	Status
1.000	S11	OK
2.000	S27	OK
1.001	S12	OK

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Summary Wizard of 180 minute 2 year Summer I+0% for PARCEL A SW

PN	US/MH	
	Name	Status
1.002	S13	OK
1.003	S14	OK
1.004	S15	OK
1.005	S16	OK
1.006	S17	OK
1.007	S23	OK
1.008	S24	OK
1.009	S25 HYDROBRAKE	SURCHARGED
1.010	S26	OK

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Summary Wizard of 240 minute 2 year Summer I+0% for PARCEL A SW

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	4.000
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	0
Number of Online Controls	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	0.283
Region England and Wales Cv (Summer)	0.750		
M5-60 (mm)	19.000	Cv (Winter)	0.840

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

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

PN	US/MH Name	Storm Rank	Water		Surcharged		Flooded		Half Drain Time (mins)	Pipe Flow (l/s)
			Level (m)	Depth (m)	Volume (m³)	Flow / Cap.	Overflow (l/s)			
1.000	S11	55	54.636	-1.194	0.000	0.01			9.1	
2.000	S27	52	55.029	-0.702	0.000	0.01			6.0	
1.001	S12	55	54.636	-1.128	0.000	0.01			16.6	
1.002	S13	55	54.636	-1.031	0.000	0.01			16.7	
1.003	S14	55	54.636	-0.967	0.000	0.01			14.2	
1.004	S15	55	54.636	-0.949	0.000	0.01			14.8	
1.005	S16	55	54.636	-0.884	0.000	0.01			11.0	
1.006	S17	55	54.636	-0.855	0.000	0.01			8.4	
1.007	S23	55	54.635	-0.811	0.000	0.01			11.6	
1.008	S24	55	54.635	-0.783	0.000	0.01			13.6	
1.009	S25 HYDROBRAKE	55	54.634	0.405	0.000	0.26			7.8	
1.010	S26	64	54.048	-0.147	0.000	0.26			7.8	

PN	US/MH Name	Status
1.000	S11	OK
2.000	S27	OK
1.001	S12	OK

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	<table> <tr> <th>PN</th><th>US/MH Name</th><th>Status</th></tr> <tr><td>1.002</td><td>S13</td><td>OK</td></tr> <tr><td>1.003</td><td>S14</td><td>OK</td></tr> <tr><td>1.004</td><td>S15</td><td>OK</td></tr> <tr><td>1.005</td><td>S16</td><td>OK</td></tr> <tr><td>1.006</td><td>S17</td><td>OK</td></tr> <tr><td>1.007</td><td>S23</td><td>OK</td></tr> <tr><td>1.008</td><td>S24</td><td>OK</td></tr> <tr><td>1.009</td><td>S25 HYDROBRAKE</td><td>SURCHARGED</td></tr> <tr><td>1.010</td><td>S26</td><td>OK</td></tr> </table>	PN	US/MH Name	Status	1.002	S13	OK	1.003	S14	OK	1.004	S15	OK	1.005	S16	OK	1.006	S17	OK	1.007	S23	OK	1.008	S24	OK	1.009	S25 HYDROBRAKE	SURCHARGED	1.010	S26	OK	
PN	US/MH Name	Status																														
1.002	S13	OK																														
1.003	S14	OK																														
1.004	S15	OK																														
1.005	S16	OK																														
1.006	S17	OK																														
1.007	S23	OK																														
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Summary Wizard of 360 minute 2 year Summer I+0% for PARCEL A SW

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	4.000
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	0
Number of Online Controls	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	0.283
Region England and Wales Cv (Summer)	0.750		
M5-60 (mm)	19.000	Cv (Winter)	0.840

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

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

PN	US/MH Name	Storm Rank	Water Surcharged Flooded			Flow / Overflow Cap.	Half Drain Time (mins)	Pipe Flow (l/s)
			Level (m)	Depth (m)	Volume (m³)			
1.000	S11	58	54.626	-1.204	0.000	0.00		7.1
2.000	S27	56	55.018	-0.713	0.000	0.01		4.6
1.001	S12	58	54.625	-1.139	0.000	0.01		12.9
1.002	S13	58	54.625	-1.042	0.000	0.01		13.0
1.003	S14	58	54.625	-0.978	0.000	0.01		11.4
1.004	S15	58	54.625	-0.960	0.000	0.01		12.0
1.005	S16	58	54.625	-0.895	0.000	0.01		9.3
1.006	S17	58	54.625	-0.866	0.000	0.01		7.4
1.007	S23	58	54.625	-0.822	0.000	0.01		10.2
1.008	S24	58	54.624	-0.794	0.000	0.01		12.0
1.009	S25 HYDROBRAKE	58	54.623	0.394	0.000	0.26		7.8
1.010	S26	63	54.048	-0.147	0.000	0.26		7.8

PN	US/MH Name	Status
1.000	S11	OK
2.000	S27	OK
1.001	S12	OK

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<table><thead><tr><th></th><th>US/MH</th><th></th></tr><tr><th>PN</th><th>Name</th><th>Status</th></tr></thead><tbody><tr><td>1.002</td><td>S13</td><td>OK</td></tr><tr><td>1.003</td><td>S14</td><td>OK</td></tr><tr><td>1.004</td><td>S15</td><td>OK</td></tr><tr><td>1.005</td><td>S16</td><td>OK</td></tr><tr><td>1.006</td><td>S17</td><td>OK</td></tr><tr><td>1.007</td><td>S23</td><td>OK</td></tr><tr><td>1.008</td><td>S24</td><td>OK</td></tr><tr><td>1.009</td><td>S25 HYDROBRAKE</td><td>SURCHARGED</td></tr><tr><td>1.010</td><td>S26</td><td>OK</td></tr></tbody></table>				US/MH		PN	Name	Status	1.002	S13	OK	1.003	S14	OK	1.004	S15	OK	1.005	S16	OK	1.006	S17	OK	1.007	S23	OK	1.008	S24	OK	1.009	S25 HYDROBRAKE	SURCHARGED	1.010	S26	OK
	US/MH																																		
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Summary Wizard of 480 minute 2 year Summer I+0% for PARCEL A SW

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	4.000
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	0
Number of Online Controls	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	0.283
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.000	Cv (Winter)	0.840

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

Profile(s)

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

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Overflow Cap. (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)
1.000		S11	63 54.609	-1.221	0.000	0.00		5.9
2.000		S27	59 55.012	-0.719	0.000	0.01		3.9
1.001		S12	59 54.608	-1.156	0.000	0.01		10.9
1.002		S13	59 54.608	-1.059	0.000	0.01		10.9
1.003		S14	59 54.608	-0.995	0.000	0.01		9.8
1.004		S15	59 54.608	-0.977	0.000	0.01		10.4
1.005		S16	59 54.608	-0.912	0.000	0.01		8.3
1.006		S17	59 54.608	-0.883	0.000	0.00		6.8
1.007		S23	59 54.608	-0.839	0.000	0.01		9.4
1.008		S24	59 54.607	-0.811	0.000	0.01		11.0
1.009	S25 HYDROBRAKE		59 54.607	0.378	0.000	0.26		7.8
1.010		S26	65 54.048	-0.147	0.000	0.26		7.8

PN	US/MH Name	Status
1.000	S11	OK
2.000	S27	OK
1.001	S12	OK

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PN	US/MH Name	Status																														
1.002	S13	OK																														
1.003	S14	OK																														
1.004	S15	OK																														
1.005	S16	OK																														
1.006	S17	OK																														
1.007	S23	OK																														
1.008	S24	OK																														
1.009	S25 HYDROBRAKE	SURCHARGED																														
1.010	S26	OK																														
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Summary Wizard of 600 minute 2 year Summer I+0% for PARCEL A SW

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	4.000
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	0
Number of Online Controls	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	0.283
Region England and Wales Cv (Summer)	0.750		
M5-60 (mm)	19.000	Cv (Winter)	0.840

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

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

PN	US/MH Name	Storm Rank	Water Surcharged Flooded			Flow / Overflow Cap.	Half Drain Time (mins)	Pipe Flow (l/s)
			Level (m)	Depth (m)	Volume (m³)			
1.000	S11	66	54.591	-1.239	0.000	0.00		5.2
2.000	S27	61	55.007	-0.724	0.000	0.01		3.3
1.001	S12	64	54.590	-1.174	0.000	0.01		9.5
1.002	S13	63	54.590	-1.077	0.000	0.01		9.6
1.003	S14	63	54.590	-1.013	0.000	0.01		8.8
1.004	S15	63	54.590	-0.995	0.000	0.01		9.4
1.005	S16	63	54.590	-0.930	0.000	0.01		7.7
1.006	S17	63	54.590	-0.901	0.000	0.00		6.5
1.007	S23	63	54.589	-0.857	0.000	0.01		8.9
1.008	S24	63	54.589	-0.829	0.000	0.01		10.4
1.009	S25 HYDROBRAKE	63	54.588	0.359	0.000	0.26		7.8
1.010	S26	53	54.048	-0.147	0.000	0.26		7.8

PN	US/MH Name	Status
1.000	S11	OK
2.000	S27	OK
1.001	S12	OK

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Summary Wizard of 600 minute 2 year Summer I+0% for PARCEL A SW

PN	US/MH	
	Name	Status
1.002	S13	OK
1.003	S14	OK
1.004	S15	OK
1.005	S16	OK
1.006	S17	OK
1.007	S23	OK
1.008	S24	OK
1.009	S25 HYDROBRAKE	SURCHARGED
1.010	S26	OK

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Summary Wizard of 720 minute 2 year Summer I+0% for PARCEL A SW

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	4.000
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	0
Number of Online Controls	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	0.283
Region England and Wales Cv (Summer)	0.750		
M5-60 (mm)	19.000	Cv (Winter)	0.840

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

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

PN	US/MH Name	Storm Rank	Water Surcharged Flooded			Flow / Overflow Cap.	Half Drain Time (mins)	Pipe Flow (l/s)
			Level (m)	Depth (m)	Volume (m³)			
1.000	S11	67	54.571	-1.259	0.000	0.00		4.6
2.000	S27	64	55.004	-0.727	0.000	0.01		3.0
1.001	S12	67	54.571	-1.193	0.000	0.01		8.6
1.002	S13	64	54.570	-1.097	0.000	0.00		8.7
1.003	S14	64	54.570	-1.033	0.000	0.01		8.1
1.004	S15	64	54.570	-1.015	0.000	0.00		8.6
1.005	S16	64	54.570	-0.950	0.000	0.01		7.2
1.006	S17	64	54.570	-0.921	0.000	0.00		6.2
1.007	S23	64	54.570	-0.876	0.000	0.01		8.4
1.008	S24	64	54.569	-0.849	0.000	0.01		9.8
1.009	S25 HYDROBRAKE	64	54.569	0.340	0.000	0.26		7.8
1.010	S26	55	54.048	-0.147	0.000	0.26		7.8

PN	US/MH Name	Status
1.000	S11	OK
2.000	S27	OK
1.001	S12	OK

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Summary Wizard of 960 minute 2 year Summer I+0% for PARCEL A SW

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	4.000
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	0
Number of Online Controls	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	0.283
Region England and Wales Cv (Summer)	0.750		
M5-60 (mm)	19.000	Cv (Winter)	0.840

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

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

PN	US/MH Name	Storm Rank	Water Surcharged Flooded			Flow / Overflow Cap. (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)
			Level (m)	Depth (m)	Volume (m³)			
1.000	S11	69	54.532	-1.298	0.000	0.00		3.9
2.000	S27	67	55.000	-0.731	0.000	0.01		2.5
1.001	S12	69	54.531	-1.233	0.000	0.01		7.3
1.002	S13	67	54.529	-1.138	0.000	0.00		7.5
1.003	S14	67	54.529	-1.074	0.000	0.01		7.0
1.004	S15	67	54.529	-1.056	0.000	0.00		7.6
1.005	S16	67	54.529	-0.991	0.000	0.01		6.6
1.006	S17	67	54.529	-0.961	0.000	0.00		5.9
1.007	S23	67	54.529	-0.917	0.000	0.01		7.9
1.008	S24	67	54.529	-0.890	0.000	0.01		9.2
1.009	S25 HYDROBRAKE	67	54.528	0.299	0.000	0.26		7.7
1.010	S26	67	54.048	-0.147	0.000	0.26		7.7

PN	US/MH Name	Status
1.000	S11	OK
2.000	S27	OK
1.001	S12	OK

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<u>Summary Wizard of 960 minute 2 year Summer I+0% for PARCEL A SW</u>																																
	<table> <tr> <th>PN</th><th>US/MH Name</th><th>Status</th></tr> <tr><td>1.002</td><td>S13</td><td>OK</td></tr> <tr><td>1.003</td><td>S14</td><td>OK</td></tr> <tr><td>1.004</td><td>S15</td><td>OK</td></tr> <tr><td>1.005</td><td>S16</td><td>OK</td></tr> <tr><td>1.006</td><td>S17</td><td>OK</td></tr> <tr><td>1.007</td><td>S23</td><td>OK</td></tr> <tr><td>1.008</td><td>S24</td><td>OK</td></tr> <tr><td>1.009</td><td>S25 HYDROBRAKE</td><td>SURCHARGED</td></tr> <tr><td>1.010</td><td>S26</td><td>OK</td></tr> </table>	PN	US/MH Name	Status	1.002	S13	OK	1.003	S14	OK	1.004	S15	OK	1.005	S16	OK	1.006	S17	OK	1.007	S23	OK	1.008	S24	OK	1.009	S25 HYDROBRAKE	SURCHARGED	1.010	S26	OK	
PN	US/MH Name	Status																														
1.002	S13	OK																														
1.003	S14	OK																														
1.004	S15	OK																														
1.005	S16	OK																														
1.006	S17	OK																														
1.007	S23	OK																														
1.008	S24	OK																														
1.009	S25 HYDROBRAKE	SURCHARGED																														
1.010	S26	OK																														
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Summary Wizard of 1440 minute 2 year Summer I+0% for PARCEL A SW

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	4.000
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	0
Number of Online Controls	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	0.283
Region England and Wales Cv (Summer)	0.750		
M5-60 (mm)	19.000	Cv (Winter)	0.840

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

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

PN	US/MH Name	Storm Rank	Water		Surcharged		Flooded		Half Drain Time (mins)	Pipe Flow (l/s)
			Level (m)	Depth (m)	Volume (m³)	Flow / Cap.	Overflow (l/s)			
1.000	S11	71	54.495	-1.335	0.000	0.00		3.0		
2.000	S27	70	54.996	-0.735	0.000	0.00		1.9		
1.001	S12	71	54.459	-1.305	0.000	0.00		5.7		
1.002	S13	71	54.449	-1.218	0.000	0.00		5.9		
1.003	S14	71	54.448	-1.155	0.000	0.01		5.8		
1.004	S15	71	54.448	-1.137	0.000	0.00		6.3		
1.005	S16	71	54.447	-1.072	0.000	0.01		5.9		
1.006	S17	71	54.447	-1.043	0.000	0.00		5.5		
1.007	S23	71	54.447	-0.999	0.000	0.01		7.3		
1.008	S24	71	54.447	-0.971	0.000	0.00		8.4		
1.009	S25 HYDROBRAKE	71	54.447	0.218	0.000	0.26		7.7		
1.010	S26	71	54.047	-0.148	0.000	0.26		7.7		

PN	US/MH Name	Status
1.000	S11	OK
2.000	S27	OK
1.001	S12	OK

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Summary Wizard of 1440 minute 2 year Summer I+0% for PARCEL A SW

PN	US/MH Name	Status
1.002	S13	OK
1.003	S14	OK
1.004	S15	OK
1.005	S16	OK
1.006	S17	OK
1.007	S23	OK
1.008	S24	OK
1.009	S25 HYDROBRAKE	SURCHARGED
1.010	S26	OK

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Summary Wizard of 15 minute 30 year Summer I+0% for PARCEL A SW

Simulation Criteria

Areal Reduction Factor 1.000	Additional Flow - % of Total Flow 0.000
Hot Start (mins) 0	MADD Factor * 10m³/ha Storage 4.000
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 0
Number of Online Controls 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 0.283
Region England and Wales Cv	(Summer)	0.750
M5-60 (mm)	19.000 Cv	(Winter) 0.840

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

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

PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded	Flow / Overflow (l/s)	Half Drain Time (mins)	Pipe
			Level (m)	Depth (m)	Volume (m³)			Flow (l/s)
1.000	S11	48	54.694	-1.136	0.000	0.03		50.2
2.000	S27	29	55.114	-0.617	0.000	0.07		32.4
1.001	S12	48	54.694	-1.070	0.000	0.08		95.4
1.002	S13	48	54.693	-0.974	0.000	0.05		94.3
1.003	S14	48	54.693	-0.910	0.000	0.07		79.2
1.004	S15	48	54.693	-0.892	0.000	0.05		81.4
1.005	S16	48	54.692	-0.827	0.000	0.04		50.2
1.006	S17	48	54.692	-0.799	0.000	0.02		34.2
1.007	S23	48	54.691	-0.755	0.000	0.04		40.4
1.008	S24	48	54.691	-0.727	0.000	0.03		48.2
1.009	S25 HYDROBRAKE	48	54.690	0.461	0.000	0.26		7.8
1.010	S26	47	54.048	-0.147	0.000	0.26		7.8

PN	US/MH Name	Status
1.000	S11	OK
2.000	S27	OK
1.001	S12	OK

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Summary Wizard of 15 minute 30 year Summer I+0% for PARCEL A SW

PN	US/MH	
	Name	Status
1.002	S13	OK
1.003	S14	OK
1.004	S15	OK
1.005	S16	OK
1.006	S17	OK
1.007	S23	OK
1.008	S24	OK
1.009	S25 HYDROBRAKE	SURCHARGED
1.010	S26	OK

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Summary Wizard of 30 minute 30 year Summer I+0% for PARCEL A SW

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	4.000
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	0
Number of Online Controls	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	0.283
Region England and Wales Cv (Summer)	0.750		
M5-60 (mm)	19.000	Cv (Winter)	0.840

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

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

PN	US/MH Name	Storm Rank	Water Surcharged Flooded			Flow / Overflow Cap.	Half Drain Time (mins)	Pipe Flow (l/s)
			Level (m)	Depth (m)	Volume (m³)			
1.000	S11	46	54.806	-1.024	0.000	0.03		48.1
2.000	S27	30	55.110	-0.621	0.000	0.07		31.2
1.001	S12	46	54.806	-0.958	0.000	0.07		89.3
1.002	S13	46	54.806	-0.861	0.000	0.05		85.2
1.003	S14	46	54.806	-0.797	0.000	0.06		63.1
1.004	S15	46	54.806	-0.779	0.000	0.04		64.8
1.005	S16	46	54.805	-0.715	0.000	0.03		36.1
1.006	S17	46	54.805	-0.686	0.000	0.01		19.1
1.007	S23	46	54.804	-0.642	0.000	0.03		33.2
1.008	S24	46	54.804	-0.614	0.000	0.02		42.8
1.009	S25 HYDROBRAKE	46	54.803	0.574	0.000	0.26		7.8
1.010	S26	44	54.048	-0.147	0.000	0.26		7.8

PN	US/MH Name	Status
1.000	S11	OK
2.000	S27	OK
1.001	S12	OK

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<u>Summary Wizard of 30 minute 30 year Summer I+0% for PARCEL A SW</u>																																
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PN	US/MH Name	Status																														
1.002	S13	OK																														
1.003	S14	OK																														
1.004	S15	OK																														
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1.006	S17	OK																														
1.007	S23	OK																														
1.008	S24	OK																														
1.009	S25 HYDROBRAKE	SURCHARGED																														
1.010	S26	OK																														
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Summary Wizard of 60 minute 30 year Summer I+0% for PARCEL A SW

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	4.000
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	0
Number of Online Controls	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	0.283
Region England and Wales Cv (Summer)	0.750		
M5-60 (mm)	19.000	Cv (Winter)	0.840

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

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

PN	US/MH Name	Storm Rank	Water Surcharged Flooded			Flow / Overflow Cap. (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)
			Level (m)	Depth (m)	Volume (m³)			
1.000	S11	42	54.912	-0.918	0.000	0.02		34.3
2.000	S27	33	55.093	-0.638	0.000	0.05		23.4
1.001	S12	42	54.912	-0.852	0.000	0.05		57.2
1.002	S13	42	54.911	-0.756	0.000	0.03		54.8
1.003	S14	42	54.911	-0.692	0.000	0.04		38.5
1.004	S15	42	54.911	-0.674	0.000	0.02		41.5
1.005	S16	42	54.911	-0.609	0.000	0.02		20.9
1.006	S17	42	54.911	-0.580	0.000	0.01		9.4
1.007	S23	42	54.910	-0.536	0.000	0.02		23.9
1.008	S24	42	54.910	-0.508	0.000	0.02		33.3
1.009	S25 HYDROBRAKE	42	54.909	0.680	0.000	0.26		7.8
1.010	S26	21	54.048	-0.147	0.000	0.26		7.8

PN	US/MH Name	Status
1.000	S11	OK
2.000	S27	OK
1.001	S12	OK

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Summary Wizard of 120 minute 30 year Summer I+0% for PARCEL A SW

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	4.000
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	0
Number of Online Controls	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	0.283
Region England and Wales Cv (Summer)	0.750		
M5-60 (mm)	19.000	Cv (Winter)	0.840

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

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

PN	US/MH Name	Storm Rank	Water Surcharged Flooded			Flow / Overflow Cap. (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)
			Level (m)	Depth (m)	Volume (m³)			
1.000	S11	36	54.993	-0.837	0.000	0.01		22.0
2.000	S27	38	55.073	-0.658	0.000	0.04		16.3
1.001	S12	36	54.993	-0.771	0.000	0.03		34.6
1.002	S13	36	54.993	-0.674	0.000	0.02		32.2
1.003	S14	36	54.993	-0.610	0.000	0.02		22.2
1.004	S15	36	54.993	-0.592	0.000	0.01		24.0
1.005	S16	35	54.992	-0.527	0.000	0.01		12.8
1.006	S17	35	54.992	-0.498	0.000	0.01		7.9
1.007	S23	35	54.992	-0.454	0.000	0.01		15.5
1.008	S24	35	54.991	-0.427	0.000	0.01		22.3
1.009	S25 HYDROBRAKE	35	54.990	0.761	0.000	0.26		7.8
1.010	S26	23	54.048	-0.147	0.000	0.26		7.8

PN	US/MH Name	Status
1.000	S11	OK
2.000	S27	OK
1.001	S12	OK

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PN	US/MH Name	Status																														
1.002	S13	OK																														
1.003	S14	OK																														
1.004	S15	OK																														
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1.007	S23	OK																														
1.008	S24	OK																														
1.009	S25 HYDROBRAKE	SURCHARGED																														
1.010	S26	OK																														
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Summary Wizard of 180 minute 30 year Summer I+0% for PARCEL A SW

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	4.000
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	0
Number of Online Controls	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	0.283
Region England and Wales Cv (Summer)	0.750		
M5-60 (mm)	19.000	Cv (Winter)	0.840

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

Profile(s)

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

PN	US/MH Name	Storm Rank	Water		Surcharged		Flooded		Half Drain Time (mins)	Pipe Flow (l/s)
			Level (m)	Depth (m)	Volume (m³)	Flow / Cap.	Overflow (l/s)			
1.000	S11	32	55.013	-0.817	0.000	0.01		18.0		
2.000	S27	42	55.066	-0.665	0.000	0.03		13.3		
1.001	S12	32	55.013	-0.751	0.000	0.02		28.6		
1.002	S13	32	55.013	-0.654	0.000	0.01		26.5		
1.003	S14	32	55.013	-0.590	0.000	0.02		18.1		
1.004	S15	32	55.013	-0.572	0.000	0.01		20.0		
1.005	S16	32	55.013	-0.507	0.000	0.01		10.9		
1.006	S17	32	55.012	-0.478	0.000	0.01		7.8		
1.007	S23	32	55.012	-0.434	0.000	0.01		13.3		
1.008	S24	32	55.012	-0.406	0.000	0.01		19.1		
1.009	S25 HYDROBRAKE	32	55.011	0.782	0.000	0.26		7.8		
1.010	S26	25	54.048	-0.147	0.000	0.26		7.8		

PN	US/MH Name	Status
1.000	S11	OK
2.000	S27	OK
1.001	S12	OK

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<u>Summary Wizard of 180 minute 30 year Summer I+0% for PARCEL A SW</u>																																
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1.010	S26	OK																														
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Summary Wizard of 360 minute 30 year Summer I+0% for PARCEL A SW

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	4.000
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	0
Number of Online Controls	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	0.283
Region England and Wales Cv (Summer)	0.750		
M5-60 (mm)	19.000	Cv (Winter)	0.840

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

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

PN	US/MH Name	Storm Rank	Water		Surcharged		Flooded		Half Drain Time (mins)	Pipe Flow (l/s)
			Level (m)	Depth (m)	Volume (m³)	Flow / Cap.	Overflow (l/s)			
1.000	S11	33	55.008	-0.822	0.000	0.01			11.3	
2.000	S27	47	55.047	-0.684	0.000	0.02			8.3	
1.001	S12	33	55.008	-0.756	0.000	0.01			18.3	
1.002	S13	33	55.008	-0.659	0.000	0.01			17.1	
1.003	S14	33	55.007	-0.596	0.000	0.01			12.4	
1.004	S15	33	55.007	-0.578	0.000	0.01			13.6	
1.005	S16	33	55.007	-0.513	0.000	0.01			9.1	
1.006	S17	33	55.007	-0.484	0.000	0.00			7.2	
1.007	S23	33	55.007	-0.440	0.000	0.01			10.6	
1.008	S24	33	55.006	-0.412	0.000	0.01			14.5	
1.009	S25 HYDROBRAKE	33	55.005	0.776	0.000	0.26			7.8	
1.010	S26	33	54.048	-0.147	0.000	0.26			7.8	

PN	US/MH Name	Status
1.000	S11	OK
2.000	S27	OK
1.001	S12	OK

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Summary Wizard of 480 minute 30 year Summer I+0% for PARCEL A SW

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	4.000
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	0
Number of Online Controls	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	0.283
Region England and Wales Cv (Summer)	0.750		
M5-60 (mm)	19.000	Cv (Winter)	0.840

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

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

PN	US/MH Name	Storm Rank	Water		Surcharged		Flooded		Half Drain Time (mins)	Pipe Flow (l/s)
			Level (m)	Depth (m)	Volume (m³)	Flow / Cap.	Overflow (l/s)			
1.000	S11	35	54.994	-0.836	0.000	0.01		9.3		
2.000	S27	51	55.035	-0.696	0.000	0.02		6.8		
1.001	S12	35	54.994	-0.770	0.000	0.01		15.2		
1.002	S13	35	54.994	-0.673	0.000	0.01		14.4		
1.003	S14	34	54.994	-0.609	0.000	0.01		10.9		
1.004	S15	34	54.994	-0.591	0.000	0.01		11.9		
1.005	S16	34	54.994	-0.526	0.000	0.01		8.3		
1.006	S17	34	54.993	-0.497	0.000	0.00		6.8		
1.007	S23	34	54.993	-0.453	0.000	0.01		9.8		
1.008	S24	34	54.993	-0.425	0.000	0.01		13.1		
1.009	S25 HYDROBRAKE	34	54.992	0.763	0.000	0.26		7.8		
1.010	S26	24	54.048	-0.147	0.000	0.26		7.8		

PN	US/MH Name	Status
1.000	S11	OK
2.000	S27	OK
1.001	S12	OK

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Summary Wizard of 600 minute 30 year Summer I+0% for PARCEL A SW

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	4.000
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	0
Number of Online Controls	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	0.283
Region England and Wales Cv (Summer)	0.750		
M5-60 (mm)	19.000	Cv (Winter)	0.840

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

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

PN	US/MH Name	Storm Rank	Water Surcharged Flooded			Flow / Overflow Cap.	Half Drain Time (mins)	Pipe Flow (l/s)
			Level (m)	Depth (m)	Volume (m³)			
1.000	S11	38	54.977	-0.853	0.000	0.00		8.0
2.000	S27	53	55.027	-0.704	0.000	0.01		5.8
1.001	S12	38	54.977	-0.787	0.000	0.01		13.3
1.002	S13	38	54.977	-0.690	0.000	0.01		12.7
1.003	S14	38	54.977	-0.626	0.000	0.01		9.8
1.004	S15	38	54.977	-0.608	0.000	0.01		10.8
1.005	S16	38	54.977	-0.543	0.000	0.01		7.8
1.006	S17	38	54.976	-0.514	0.000	0.00		6.5
1.007	S23	38	54.976	-0.470	0.000	0.01		9.3
1.008	S24	38	54.976	-0.442	0.000	0.01		12.2
1.009	S25 HYDROBRAKE	38	54.975	0.746	0.000	0.26		7.8
1.010	S26	19	54.048	-0.147	0.000	0.26		7.8

PN	US/MH Name	Status
1.000	S11	OK
2.000	S27	OK
1.001	S12	OK

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1.005	S16	OK																														
1.006	S17	OK																														
1.007	S23	OK																														
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Summary Wizard of 720 minute 30 year Summer I+0% for PARCEL A SW

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	4.000
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	0
Number of Online Controls	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	0.283
Region England and Wales Cv (Summer)	0.750		
M5-60 (mm)	19.000	Cv (Winter)	0.840

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

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

PN	US/MH Name	Storm Rank	Water		Surcharged		Flooded		Half Drain Time (mins)	Pipe Flow (l/s)
			Level (m)	Depth (m)	Volume (m³)	Flow / Cap.	Overflow (l/s)			
1.000	S11	40	54.958	-0.872	0.000	0.00		7.1		
2.000	S27	55	55.021	-0.710	0.000	0.01		5.1		
1.001	S12	40	54.957	-0.807	0.000	0.01		11.9		
1.002	S13	40	54.957	-0.710	0.000	0.01		11.5		
1.003	S14	40	54.957	-0.646	0.000	0.01		9.1		
1.004	S15	40	54.957	-0.628	0.000	0.01		10.0		
1.005	S16	40	54.957	-0.563	0.000	0.01		7.4		
1.006	S17	40	54.957	-0.534	0.000	0.00		6.3		
1.007	S23	40	54.956	-0.490	0.000	0.01		9.0		
1.008	S24	40	54.956	-0.462	0.000	0.01		11.6		
1.009	S25 HYDROBRAKE	40	54.955	0.726	0.000	0.26		7.8		
1.010	S26	26	54.048	-0.147	0.000	0.26		7.8		

PN	US/MH Name	Status
1.000	S11	OK
2.000	S27	OK
1.001	S12	OK

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1.009	S25 HYDROBRAKE	SURCHARGED																														
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Summary Wizard of 960 minute 30 year Summer I+0% for PARCEL A SW

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	4.000
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	0
Number of Online Controls	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	0.283
Region England and Wales Cv (Summer)	0.750		
M5-60 (mm)	19.000	Cv (Winter)	0.840

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

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

PN	US/MH Name	Storm Rank	Water Surcharged Flooded			Flow / Overflow Cap. (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)
			Level (m)	Depth (m)	Volume (m³)			
1.000	S11	41	54.915	-0.915	0.000	0.00		5.8
2.000	S27	58	55.014	-0.717	0.000	0.01		4.2
1.001	S12	41	54.915	-0.849	0.000	0.01		10.1
1.002	S13	41	54.914	-0.753	0.000	0.01		9.9
1.003	S14	41	54.914	-0.689	0.000	0.01		8.1
1.004	S15	41	54.914	-0.671	0.000	0.01		8.9
1.005	S16	41	54.914	-0.606	0.000	0.01		6.9
1.006	S17	41	54.914	-0.577	0.000	0.00		6.0
1.007	S23	41	54.913	-0.533	0.000	0.01		8.5
1.008	S24	41	54.913	-0.505	0.000	0.01		10.7
1.009	S25 HYDROBRAKE	41	54.912	0.683	0.000	0.26		7.8
1.010	S26	32	54.048	-0.147	0.000	0.26		7.8

PN	US/MH Name	Status
1.000	S11	OK
2.000	S27	OK
1.001	S12	OK

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XP Solutions		Network 2020.1.3																														
<u>Summary Wizard of 960 minute 30 year Summer I+0% for PARCEL A SW</u>																																
<table> <tr> <th>PN</th><th>US/MH Name</th><th>Status</th></tr> <tr> <td>1.002</td><td>S13</td><td>OK</td></tr> <tr> <td>1.003</td><td>S14</td><td>OK</td></tr> <tr> <td>1.004</td><td>S15</td><td>OK</td></tr> <tr> <td>1.005</td><td>S16</td><td>OK</td></tr> <tr> <td>1.006</td><td>S17</td><td>OK</td></tr> <tr> <td>1.007</td><td>S23</td><td>OK</td></tr> <tr> <td>1.008</td><td>S24</td><td>OK</td></tr> <tr> <td>1.009</td><td>S25 HYDROBRAKE</td><td>SURCHARGED</td></tr> <tr> <td>1.010</td><td>S26</td><td>OK</td></tr> </table>			PN	US/MH Name	Status	1.002	S13	OK	1.003	S14	OK	1.004	S15	OK	1.005	S16	OK	1.006	S17	OK	1.007	S23	OK	1.008	S24	OK	1.009	S25 HYDROBRAKE	SURCHARGED	1.010	S26	OK
PN	US/MH Name	Status																														
1.002	S13	OK																														
1.003	S14	OK																														
1.004	S15	OK																														
1.005	S16	OK																														
1.006	S17	OK																														
1.007	S23	OK																														
1.008	S24	OK																														
1.009	S25 HYDROBRAKE	SURCHARGED																														
1.010	S26	OK																														
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Summary Wizard of 1440 minute 30 year Summer I+0% for PARCEL A SW

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	4.000
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	0
Number of Online Controls	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	0.283
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.000	Cv (Winter)	0.840

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

Profile(s)

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

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap. (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)
1.000		S11	44 54.823	-1.007	0.000	0.00		4.4
2.000		S27	62 55.006	-0.725	0.000	0.01		3.1
1.001		S12	44 54.823	-0.941	0.000	0.01		8.1
1.002		S13	44 54.823	-0.844	0.000	0.00		8.1
1.003		S14	44 54.823	-0.780	0.000	0.01		7.0
1.004		S15	44 54.823	-0.762	0.000	0.00		7.7
1.005		S16	44 54.823	-0.697	0.000	0.01		6.4
1.006		S17	44 54.822	-0.668	0.000	0.00		5.7
1.007		S23	44 54.822	-0.624	0.000	0.01		7.9
1.008		S24	44 54.822	-0.596	0.000	0.01		9.7
1.009	S25 HYDROBRAKE		44 54.821	0.592	0.000	0.26		7.8
1.010		S26	39 54.048	-0.147	0.000	0.26		7.8

PN	US/MH Name	Status
1.000	S11	OK
2.000	S27	OK
1.001	S12	OK

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<u>Summary Wizard of 1440 minute 30 year Summer I+0% for PARCEL A SW</u>																																
<table> <tr> <th>PN</th><th>US/MH Name</th><th>Status</th></tr> <tr> <td>1.002</td><td>S13</td><td>OK</td></tr> <tr> <td>1.003</td><td>S14</td><td>OK</td></tr> <tr> <td>1.004</td><td>S15</td><td>OK</td></tr> <tr> <td>1.005</td><td>S16</td><td>OK</td></tr> <tr> <td>1.006</td><td>S17</td><td>OK</td></tr> <tr> <td>1.007</td><td>S23</td><td>OK</td></tr> <tr> <td>1.008</td><td>S24</td><td>OK</td></tr> <tr> <td>1.009</td><td>S25 HYDROBRAKE</td><td>SURCHARGED</td></tr> <tr> <td>1.010</td><td>S26</td><td>OK</td></tr> </table>			PN	US/MH Name	Status	1.002	S13	OK	1.003	S14	OK	1.004	S15	OK	1.005	S16	OK	1.006	S17	OK	1.007	S23	OK	1.008	S24	OK	1.009	S25 HYDROBRAKE	SURCHARGED	1.010	S26	OK
PN	US/MH Name	Status																														
1.002	S13	OK																														
1.003	S14	OK																														
1.004	S15	OK																														
1.005	S16	OK																														
1.006	S17	OK																														
1.007	S23	OK																														
1.008	S24	OK																														
1.009	S25 HYDROBRAKE	SURCHARGED																														
1.010	S26	OK																														
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Summary Wizard of 15 minute 100 year Summer I+45% for PARCEL A SW

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	4.000
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	0
Number of Online Controls	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	0.283
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.000	Cv (Winter)	0.840

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

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

PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded	Flow / Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)
			Level (m)	Depth (m)	Volume (m³)			
1.000	S11	34	54.996	-0.834	0.000	0.05		92.9
2.000	S27	24	55.165	-0.566	0.000	0.13		60.3
1.001	S12	34	54.996	-0.768	0.000	0.14		170.8
1.002	S13	34	54.995	-0.672	0.000	0.09		156.4
1.003	S14	35	54.993	-0.610	0.000	0.10		110.6
1.004	S15	35	54.993	-0.592	0.000	0.06		115.0
1.005	S16	36	54.992	-0.528	0.000	0.05		58.3
1.006	S17	36	54.991	-0.499	0.000	0.02		25.5
1.007	S23	36	54.991	-0.455	0.000	0.04		51.7
1.008	S24	36	54.990	-0.428	0.000	0.04		75.8
1.009	S25 HYDROBRAKE	36	54.989	0.760	0.000	0.26		7.8
1.010	S26	37	54.048	-0.147	0.000	0.26		7.8

PN	US/MH Name	Status
1.000	S11	OK
2.000	S27	OK
1.001	S12	OK

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<u>Summary Wizard of 15 minute 100 year Summer I+45% for PARCEL A SW</u>		
	US/MH	
PN	Name	Status
1.002	S13	OK
1.003	S14	OK
1.004	S15	OK
1.005	S16	OK
1.006	S17	OK
1.007	S23	OK
1.008	S24	OK
1.009	S25 HYDROBRAKE	SURCHARGED
1.010	S26	OK
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Summary Wizard of 30 minute 100 year Summer I+45% for PARCEL A SW

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	4.000
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	0
Number of Online Controls	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	0.283
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.000	Cv (Winter)	0.840

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

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

PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded	Flow / Overflow (l/s)	Half Drain Time (mins)	Pipe
			Level (m)	Depth (m)	Volume (m³)			Flow
1.000	S11	22	55.212	-0.618	0.000	0.05		81.3
2.000	S27	22	55.212	-0.519	0.000	0.13		59.0
1.001	S12	22	55.212	-0.552	0.000	0.10		127.0
1.002	S13	22	55.212	-0.455	0.000	0.07		116.9
1.003	S14	22	55.210	-0.393	0.000	0.07		74.7
1.004	S15	22	55.210	-0.375	0.000	0.05		81.1
1.005	S16	22	55.209	-0.311	0.000	0.03		30.6
1.006	S17	22	55.208	-0.282	0.000	0.01		16.9
1.007	S23	22	55.207	-0.239	0.000	0.03		39.7
1.008	S24	22	55.206	-0.212	0.000	0.04		64.6
1.009	S25 HYDROBRAKE	22	55.204	0.975	0.000	0.26		7.8
1.010	S26	38	54.048	-0.147	0.000	0.26		7.8

PN	US/MH Name	Status
1.000	S11	OK
2.000	S27	OK
1.001	S12	OK

PN	US/MH Name	Status
1.000	S11	OK
2.000	S27	OK
1.001	S12	OK

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<u>Summary Wizard of 30 minute 100 year Summer I+45% for PARCEL A SW</u>		
	US/MH	
PN	Name	Status
1.002	S13	OK
1.003	S14	OK
1.004	S15	OK
1.005	S16	OK
1.006	S17	OK
1.007	S23	OK
1.008	S24	OK
1.009	S25 HYDROBRAKE	SURCHARGED
1.010	S26	OK
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Summary Wizard of 60 minute 100 year Summer I+45% for PARCEL A SW

Simulation Criteria

Areal Reduction Factor 1.000

Additional Flow - % of Total Flow 0.000

Hot Start (mins) 0

MADD Factor * 10m³/ha Storage 4.000

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 0

Number of Online Controls 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 0.283

Region England and Wales Cv (Summer) 0.750

M5-60 (mm)

19.000 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0

DVD Status ON

Analysis Timestep

Fine Inertia Status ON

DTS Status

OFF

Profile(s)

Summer and Winter

Duration(s) (mins)

15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440

Return Period(s) (years)

2, 30, 100

Climate Change (%)

0, 0, 45

			Water	Surcharged	Flooded			Half Drain	Pipe
PN	US/MH	Storm	Level	Depth	Volume	Flow /	Overflow	Time	Flow
	Name	Rank	(m)	(m)	(m³)	Cap.	(l/s)	(mins)	(l/s)
1.000		S11	20 55.469	-0.361	0.000	0.03			60.5
2.000		S27	20 55.468	-0.263	0.000	0.10			44.7
1.001		S12	20 55.468	-0.296	0.000	0.07			86.2
1.002		S13	20 55.468	-0.199	0.000	0.04			75.3
1.003		S14	20 55.466	-0.137	0.000	0.04			42.8
1.004		S15	20 55.466	-0.119	0.000	0.03			49.2
1.005		S16	20 55.463	-0.057	0.000	0.01			15.1
1.006		S17	20 55.461	-0.029	0.000	0.01			12.2
1.007		S23	20 55.458	0.012	0.000	0.02			25.5
1.008		S24	20 55.458	0.040	0.000	0.03			47.2
1.009	S25 HYDROBRAKE		20 55.458	1.229	0.000	0.26			7.8
1.010		S26	46 54.048	-0.147	0.000	0.26			7.8

PN

US/MH

Name

Status

1.000

S11

OK

2.000

S27

OK

1.001

S12

OK

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<u>Summary Wizard of 60 minute 100 year Summer I+45% for PARCEL A SW</u>		
	US/MH	
PN	Name	Status
1.002	S13	OK
1.003	S14	OK
1.004	S15	OK
1.005	S16	OK
1.006	S17	OK
1.007	S23	SURCHARGED
1.008	S24	SURCHARGED
1.009	S25 HYDROBRAKE	SURCHARGED
1.010	S26	OK
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Micro Drainage

Summary Wizard of 120 minute 100 year Summer I+45% for PARCEL A SW

Simulation Criteria

Areal Reduction Factor 1.000

Additional Flow - % of Total Flow 0.000

Hot Start (mins) 0

MADD Factor * 10m³/ha Storage 4.000

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 0

Number of Online Controls 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 0.283

Region England and Wales Cv (Summer) 0.750

M5-60 (mm)

19.000 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0

DVD Status ON

Analysis Timestep

Fine Inertia Status ON

DTS Status

OFF

Profile(s)

Summer and Winter

Duration(s) (mins)

15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440

Return Period(s) (years)

2, 30, 100

Climate Change (%)

0, 0, 45

PN

US/MH Name

Storm Rank

Water Level (m)

Surcharged Depth (m)

Flooded Volume (m³)

Flow / Overflow Cap. (l/s)

Half Drain Time (mins)

Pipe Flow (l/s)

1.000

S11

18

55.836

0.006

0.000

0.02

42.1

2.000

S27

18

55.836

0.105

0.000

0.06

28.8

1.001

S12

18

55.836

0.072

0.000

0.04

54.7

1.002

S13

18

55.837

0.170

0.000

0.03

47.7

1.003

S14

18

55.838

0.235

0.000

0.03

26.9

1.004

S15

18

55.839

0.254

0.000

0.02

30.7

1.005

S16

18

55.841

0.322

0.000

0.01

10.2

1.006

S17

18

55.843

0.352

0.000

0.01

11.6

1.007

S23

18

55.844

0.398

0.000

0.02

17.5

1.008

S24

18

55.845

0.426

0.000

0.02

32.1

1.009

S25 HYDROBRAKE

18

55.845

1.616

0.000

0.26

7.9

1.010

S26

18

54.049

-0.146

0.000

0.27

7.9

PN

US/MH Name

Status

1.000

S11

SURCHARGED

2.000

S27

SURCHARGED

1.001

S12

SURCHARGED

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XP Solutions		Network 2020.1.3																														
<u>Summary Wizard of 120 minute 100 year Summer I+45% for PARCEL A SW</u>																																
	<table> <tr> <th>PN</th><th>US/MH Name</th><th>Status</th></tr> <tr> <td>1.002</td><td>S13</td><td>SURCHARGED</td></tr> <tr> <td>1.003</td><td>S14</td><td>SURCHARGED</td></tr> <tr> <td>1.004</td><td>S15</td><td>SURCHARGED</td></tr> <tr> <td>1.005</td><td>S16</td><td>SURCHARGED</td></tr> <tr> <td>1.006</td><td>S17</td><td>SURCHARGED</td></tr> <tr> <td>1.007</td><td>S23</td><td>SURCHARGED</td></tr> <tr> <td>1.008</td><td>S24</td><td>SURCHARGED</td></tr> <tr> <td>1.009</td><td>S25 HYDROBRAKE</td><td>SURCHARGED</td></tr> <tr> <td>1.010</td><td>S26</td><td>OK</td></tr> </table>	PN	US/MH Name	Status	1.002	S13	SURCHARGED	1.003	S14	SURCHARGED	1.004	S15	SURCHARGED	1.005	S16	SURCHARGED	1.006	S17	SURCHARGED	1.007	S23	SURCHARGED	1.008	S24	SURCHARGED	1.009	S25 HYDROBRAKE	SURCHARGED	1.010	S26	OK	
PN	US/MH Name	Status																														
1.002	S13	SURCHARGED																														
1.003	S14	SURCHARGED																														
1.004	S15	SURCHARGED																														
1.005	S16	SURCHARGED																														
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<u>Summary Wizard of 180 minute 100 year Summer I+45% for PARCEL A SW</u>																																
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Summary Wizard of 240 minute 100 year Summer I+45% for PARCEL A SW

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	4.000
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	0
Number of Online Controls	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	0.283
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.000	Cv (Winter)	0.840

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

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

PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded	Flow / Overflow (l/s)	Half Drain Time (mins)	Pipe
			Level (m)	Depth (m)	Volume (m³)			Flow
1.000	S11	12	56.229	0.399	0.000	0.02		28.1
2.000	S27	12	56.229	0.498	0.000	0.04		18.6
1.001	S12	12	56.229	0.465	0.000	0.03		34.2
1.002	S13	12	56.229	0.562	0.000	0.02		29.8
1.003	S14	12	56.229	0.626	0.000	0.02		17.2
1.004	S15	12	56.230	0.645	0.000	0.01		19.7
1.005	S16	12	56.230	0.710	0.000	0.01		9.5
1.006	S17	12	56.230	0.739	0.000	0.01		11.3
1.007	S23	12	56.230	0.784	0.000	0.01		12.5
1.008	S24	12	56.230	0.812	0.000	0.01		21.9
1.009	S25 HYDROBRAKE	12	56.230	2.001	0.000	0.29		8.6
1.010	S26	12	54.053	-0.142	0.000	0.29		8.6

PN	US/MH Name	Status
1.000	S11	SURCHARGED
2.000	S27	SURCHARGED
1.001	S12	SURCHARGED

PN	US/MH Name	Status
1.000	S11	SURCHARGED
2.000	S27	SURCHARGED
1.001	S12	SURCHARGED

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Summary Wizard of 360 minute 100 year Summer I+45% for PARCEL A SW

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	4.000
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	0
Number of Online Controls	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	0.283
Region England and Wales Cv (Summer)	0.750		
M5-60 (mm)	19.000	Cv (Winter)	0.840

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

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

PN	US/MH Name	Storm Rank	Water		Surcharged		Flooded		Half Drain Time (mins)	Pipe Flow (l/s)
			Level (m)	Depth (m)	Volume (m³)	Flow / Cap.	Overflow (l/s)			
1.000	S11	10	56.279	0.449	0.000	0.01			21.2	
2.000	S27	10	56.279	0.548	0.000	0.03			14.2	
1.001	S12	10	56.279	0.515	0.000	0.02			26.3	
1.002	S13	10	56.279	0.612	0.000	0.01			23.1	
1.003	S14	10	56.279	0.676	0.000	0.01			14.3	
1.004	S15	10	56.279	0.694	0.000	0.01			16.3	
1.005	S16	10	56.279	0.759	0.000	0.01			12.1	
1.006	S17	10	56.279	0.789	0.000	0.01			11.4	
1.007	S23	10	56.279	0.833	0.000	0.01			11.0	
1.008	S24	10	56.279	0.861	0.000	0.01			17.9	
1.009	S25 HYDROBRAKE	10	56.279	2.050	0.000	0.29			8.7	
1.010	S26	10	54.053	-0.142	0.000	0.29			8.7	

PN	US/MH Name	Status
1.000	S11	SURCHARGED
2.000	S27	SURCHARGED
1.001	S12	SURCHARGED

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Summary Wizard of 720 minute 100 year Summer I+45% for PARCEL A SW

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	4.000
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	0
Number of Online Controls	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	0.283
Region England and Wales Cv (Summer)	0.750		
M5-60 (mm)	19.000	Cv (Winter)	0.840

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

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

PN	US/MH Name	Storm Rank	Water		Surcharged		Flooded		Half Drain Time (mins)	Pipe Flow (l/s)
			Level (m)	Depth (m)	Volume (m³)	Flow / Cap.	Overflow (l/s)			
1.000	S11	14	56.174	0.344	0.000	0.01			13.0	
2.000	S27	14	56.174	0.443	0.000	0.02			8.7	
1.001	S12	14	56.174	0.410	0.000	0.01			17.2	
1.002	S13	14	56.174	0.507	0.000	0.01			15.5	
1.003	S14	14	56.174	0.571	0.000	0.01			10.4	
1.004	S15	14	56.174	0.589	0.000	0.01			11.8	
1.005	S16	14	56.174	0.654	0.000	0.01			8.6	
1.006	S17	14	56.174	0.683	0.000	0.01			8.0	
1.007	S23	14	56.174	0.728	0.000	0.01			9.4	
1.008	S24	14	56.174	0.756	0.000	0.01			13.5	
1.009	S25 HYDROBRAKE	14	56.174	1.945	0.000	0.29			8.5	
1.010	S26	14	54.052	-0.143	0.000	0.29			8.5	

PN	US/MH Name	Status
1.000	S11	SURCHARGED
2.000	S27	SURCHARGED
1.001	S12	SURCHARGED

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<u>Summary Wizard of 960 minute 100 year Summer I+45% for PARCEL A SW</u>																																
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PN	US/MH Name	Status																														
1.002	S13	SURCHARGED																														
1.003	S14	SURCHARGED																														
1.004	S15	SURCHARGED																														
1.005	S16	SURCHARGED																														
1.006	S17	SURCHARGED																														
1.007	S23	SURCHARGED																														
1.008	S24	SURCHARGED																														
1.009	S25 HYDROBRAKE	SURCHARGED																														
1.010	S26	OK																														
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Summary Wizard of 1440 minute 100 year Summer I+45% for PARCEL A SW

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	4.000
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	0
Number of Online Controls	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	0.283
Region England and Wales Cv (Summer)	0.750		
M5-60 (mm)	19.000	Cv (Winter)	0.840

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

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

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)
1.000	S11	17	55.943	0.113	0.000	0.00			7.9
2.000	S27	17	55.943	0.212	0.000	0.01			5.4
1.001	S12	17	55.943	0.179	0.000	0.01			11.6
1.002	S13	17	55.945	0.278	0.000	0.01			10.8
1.003	S14	17	55.948	0.345	0.000	0.01			10.0
1.004	S15	17	55.954	0.369	0.000	0.00			8.8
1.005	S16	17	55.959	0.439	0.000	0.01			9.5
1.006	S17	17	55.963	0.472	0.000	0.01			9.2
1.007	S23	17	55.967	0.520	0.000	0.01			9.8
1.008	S24	17	55.967	0.549	0.000	0.01			11.0
1.009	S25 HYDROBRAKE	17	55.967	1.738	0.000	0.26			7.9
1.010	S26	17	54.050	-0.145	0.000	0.27			7.9

PN	US/MH Name	Status
1.000	S11	SURCHARGED
2.000	S27	SURCHARGED
1.001	S12	SURCHARGED

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<u>Summary Wizard of 1440 minute 100 year Summer I+45% for PARCEL A SW</u>																																
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PN	US/MH Name	Status																														
1.002	S13	SURCHARGED																														
1.003	S14	SURCHARGED																														
1.004	S15	SURCHARGED																														
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1.008	S24	SURCHARGED																														
1.009	S25 HYDROBRAKE	SURCHARGED																														
1.010	S26	OK																														
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Summary Wizard of 15 minute 2 year Winter I+0% for PARCEL A SW

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	4.000
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	0
Number of Online Controls	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	0.283
Region England and Wales Cv (Summer)	0.750		
M5-60 (mm)	19.000	Cv (Winter)	0.840

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

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

PN	US/MH Name	Storm Rank	Water Surcharged Flooded			Flow / Overflow Cap.	Half Drain Time (mins)	Pipe Flow (l/s)
			Level (m)	Depth (m)	Volume (m³)			
1.000	S11	59	54.624	-1.206	0.000	0.02		27.8
2.000	S27	36	55.078	-0.653	0.000	0.04		17.9
1.001	S12	63	54.591	-1.173	0.000	0.04		52.0
1.002	S13	68	54.529	-1.138	0.000	0.03		54.3
1.003	S14	68	54.529	-1.074	0.000	0.05		54.3
1.004	S15	68	54.529	-1.056	0.000	0.03		55.8
1.005	S16	68	54.529	-0.991	0.000	0.04		43.9
1.006	S17	68	54.529	-0.962	0.000	0.02		32.9
1.007	S23	68	54.528	-0.918	0.000	0.03		34.4
1.008	S24	68	54.528	-0.890	0.000	0.02		32.8
1.009	S25 HYDROBRAKE	68	54.527	0.298	0.000	0.26		7.7
1.010	S26	68	54.048	-0.147	0.000	0.26		7.7

PN	US/MH Name	Status
1.000	S11	OK
2.000	S27	OK
1.001	S12	OK

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<u>Summary Wizard of 15 minute 2 year Winter I+0% for PARCEL A SW</u>																																
	<table> <tr> <th>PN</th><th>US/MH Name</th><th>Status</th></tr> <tr> <td>1.002</td><td>S13</td><td>OK</td></tr> <tr> <td>1.003</td><td>S14</td><td>OK</td></tr> <tr> <td>1.004</td><td>S15</td><td>OK</td></tr> <tr> <td>1.005</td><td>S16</td><td>OK</td></tr> <tr> <td>1.006</td><td>S17</td><td>OK</td></tr> <tr> <td>1.007</td><td>S23</td><td>OK</td></tr> <tr> <td>1.008</td><td>S24</td><td>OK</td></tr> <tr> <td>1.009</td><td>S25 HYDROBRAKE</td><td>SURCHARGED</td></tr> <tr> <td>1.010</td><td>S26</td><td>OK</td></tr> </table>	PN	US/MH Name	Status	1.002	S13	OK	1.003	S14	OK	1.004	S15	OK	1.005	S16	OK	1.006	S17	OK	1.007	S23	OK	1.008	S24	OK	1.009	S25 HYDROBRAKE	SURCHARGED	1.010	S26	OK	
PN	US/MH Name	Status																														
1.002	S13	OK																														
1.003	S14	OK																														
1.004	S15	OK																														
1.005	S16	OK																														
1.006	S17	OK																														
1.007	S23	OK																														
1.008	S24	OK																														
1.009	S25 HYDROBRAKE	SURCHARGED																														
1.010	S26	OK																														
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Summary Wizard of 30 minute 2 year Winter I+0% for PARCEL A SW

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	4.000
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	0
Number of Online Controls	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	0.283
Region England and Wales Cv (Summer)	0.750		
M5-60 (mm)	19.000	Cv (Winter)	0.840

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

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

PN	US/MH Name	Storm Rank	Water		Surcharged		Flooded		Half Drain Time (mins)	Pipe Flow (l/s)
			Level (m)	Depth (m)	Volume (m³)	Flow / Cap.	Overflow (l/s)			
1.000	S11	62	54.612	-1.218	0.000	0.01		22.9		
2.000	S27	40	55.069	-0.662	0.000	0.03		14.8		
1.001	S12	61	54.598	-1.166	0.000	0.04		43.6		
1.002	S13	61	54.598	-1.069	0.000	0.03		45.0		
1.003	S14	61	54.598	-1.005	0.000	0.04		40.6		
1.004	S15	61	54.598	-0.987	0.000	0.02		42.4		
1.005	S16	61	54.597	-0.922	0.000	0.03		30.1		
1.006	S17	61	54.597	-0.893	0.000	0.01		21.6		
1.007	S23	61	54.597	-0.849	0.000	0.02		25.5		
1.008	S24	61	54.597	-0.821	0.000	0.02		26.9		
1.009	S25 HYDROBRAKE	61	54.596	0.367	0.000	0.26		7.8		
1.010	S26	48	54.048	-0.147	0.000	0.26		7.8		

PN	US/MH Name	Status
1.000	S11	OK
2.000	S27	OK
1.001	S12	OK

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Summary Wizard of 30 minute 2 year Winter I+0% for PARCEL A SW

PN	US/MH	
	Name	Status
1.002	S13	OK
1.003	S14	OK
1.004	S15	OK
1.005	S16	OK
1.006	S17	OK
1.007	S23	OK
1.008	S24	OK
1.009	S25 HYDROBRAKE	SURCHARGED
1.010	S26	OK

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Summary Wizard of 60 minute 2 year Winter I+0% for PARCEL A SW

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	4.000
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	0
Number of Online Controls	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	0.283
Region England and Wales Cv (Summer)	0.750		
M5-60 (mm)	19.000	Cv (Winter)	0.840

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

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

PN	US/MH Name	Storm Rank	Water Surcharged Flooded			Flow / Overflow Cap.	Half Drain Time (mins)	Pipe Flow (l/s)
			Level (m)	Depth (m)	Volume (m³)			
1.000	S11	53	54.652	-1.178	0.000	0.01		16.3
2.000	S27	45	55.058	-0.673	0.000	0.02		10.3
1.001	S12	53	54.652	-1.112	0.000	0.03		30.9
1.002	S13	53	54.652	-1.015	0.000	0.02		31.0
1.003	S14	53	54.652	-0.951	0.000	0.02		25.3
1.004	S15	53	54.652	-0.933	0.000	0.01		26.0
1.005	S16	53	54.652	-0.868	0.000	0.02		17.8
1.006	S17	53	54.651	-0.839	0.000	0.01		12.6
1.007	S23	53	54.651	-0.795	0.000	0.01		16.9
1.008	S24	53	54.651	-0.767	0.000	0.01		19.7
1.009	S25 HYDROBRAKE	53	54.650	0.421	0.000	0.26		7.8
1.010	S26	54	54.048	-0.147	0.000	0.26		7.8

PN	US/MH Name	Status
1.000	S11	OK
2.000	S27	OK
1.001	S12	OK

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<u>Summary Wizard of 60 minute 2 year Winter I+0% for PARCEL A SW</u>		
	US/MH	
PN	Name	Status
1.002	S13	OK
1.003	S14	OK
1.004	S15	OK
1.005	S16	OK
1.006	S17	OK
1.007	S23	OK
1.008	S24	OK
1.009	S25 HYDROBRAKE	SURCHARGED
1.010	S26	OK
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Summary Wizard of 120 minute 2 year Winter I+0% for PARCEL A SW

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	4.000
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	0
Number of Online Controls	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	0.283
Region England and Wales Cv (Summer)	0.750		
M5-60 (mm)	19.000	Cv (Winter)	0.840

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

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

PN	US/MH Name	Storm Rank	Water Surcharged Flooded			Flow / Overflow Cap.	Half Drain Time (mins)	Pipe Flow (l/s)
			Level (m)	Depth (m)	Volume (m³)			
1.000	S11	51	54.680	-1.150	0.000	0.01		10.3
2.000	S27	50	55.035	-0.696	0.000	0.02		6.8
1.001	S12	51	54.680	-1.084	0.000	0.02		19.0
1.002	S13	51	54.680	-0.987	0.000	0.01		19.1
1.003	S14	51	54.679	-0.924	0.000	0.02		16.1
1.004	S15	50	54.679	-0.906	0.000	0.01		16.8
1.005	S16	50	54.679	-0.840	0.000	0.01		12.1
1.006	S17	50	54.679	-0.811	0.000	0.01		9.0
1.007	S23	50	54.679	-0.767	0.000	0.01		12.5
1.008	S24	50	54.678	-0.740	0.000	0.01		14.8
1.009	S25 HYDROBRAKE	50	54.678	0.449	0.000	0.26		7.8
1.010	S26	57	54.048	-0.147	0.000	0.26		7.8

PN	US/MH Name	Status
1.000	S11	OK
2.000	S27	OK
1.001	S12	OK

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<u>Summary Wizard of 120 minute 2 year Winter I+0% for PARCEL A SW</u>		
	US/MH	
PN	Name	Status
1.002	S13	OK
1.003	S14	OK
1.004	S15	OK
1.005	S16	OK
1.006	S17	OK
1.007	S23	OK
1.008	S24	OK
1.009	S25 HYDROBRAKE	SURCHARGED
1.010	S26	OK
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Summary Wizard of 180 minute 2 year Winter I+0% for PARCEL A SW

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	4.000
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	0
Number of Online Controls	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	0.283
Region England and Wales Cv (Summer)	0.750		
M5-60 (mm)	19.000	Cv (Winter)	0.840

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

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

PN	US/MH Name	Storm Rank	Water		Surcharged		Flooded		Half Drain Time (mins)	Pipe Flow (l/s)
			Level (m)	Depth (m)	Volume (m³)	Flow / Cap.	Overflow (l/s)			
1.000	S11	49	54.684	-1.146	0.000	0.00		8.0		
2.000	S27	54	55.024	-0.707	0.000	0.01		5.4		
1.001	S12	49	54.684	-1.080	0.000	0.01		14.7		
1.002	S13	49	54.684	-0.983	0.000	0.01		14.7		
1.003	S14	49	54.684	-0.919	0.000	0.01		12.6		
1.004	S15	49	54.684	-0.901	0.000	0.01		13.3		
1.005	S16	49	54.684	-0.836	0.000	0.01		10.1		
1.006	S17	49	54.684	-0.807	0.000	0.01		8.0		
1.007	S23	49	54.684	-0.763	0.000	0.01		10.9		
1.008	S24	49	54.683	-0.735	0.000	0.01		12.8		
1.009	S25 HYDROBRAKE	49	54.682	0.453	0.000	0.26		7.8		
1.010	S26	51	54.048	-0.147	0.000	0.26		7.8		

PN	US/MH Name	Status
1.000	S11	OK
2.000	S27	OK
1.001	S12	OK

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<u>Summary Wizard of 180 minute 2 year Winter I+0% for PARCEL A SW</u>																																
<table> <tr> <th>PN</th><th>US/MH Name</th><th>Status</th></tr> <tr> <td>1.002</td><td>S13</td><td>OK</td></tr> <tr> <td>1.003</td><td>S14</td><td>OK</td></tr> <tr> <td>1.004</td><td>S15</td><td>OK</td></tr> <tr> <td>1.005</td><td>S16</td><td>OK</td></tr> <tr> <td>1.006</td><td>S17</td><td>OK</td></tr> <tr> <td>1.007</td><td>S23</td><td>OK</td></tr> <tr> <td>1.008</td><td>S24</td><td>OK</td></tr> <tr> <td>1.009</td><td>S25 HYDROBRAKE</td><td>SURCHARGED</td></tr> <tr> <td>1.010</td><td>S26</td><td>OK</td></tr> </table>			PN	US/MH Name	Status	1.002	S13	OK	1.003	S14	OK	1.004	S15	OK	1.005	S16	OK	1.006	S17	OK	1.007	S23	OK	1.008	S24	OK	1.009	S25 HYDROBRAKE	SURCHARGED	1.010	S26	OK
PN	US/MH Name	Status																														
1.002	S13	OK																														
1.003	S14	OK																														
1.004	S15	OK																														
1.005	S16	OK																														
1.006	S17	OK																														
1.007	S23	OK																														
1.008	S24	OK																														
1.009	S25 HYDROBRAKE	SURCHARGED																														
1.010	S26	OK																														
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Summary Wizard of 240 minute 2 year Winter I+0% for PARCEL A SW

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	4.000
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	0
Number of Online Controls	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	0.283
Region England and Wales Cv (Summer)	0.750		
M5-60 (mm)	19.000	Cv (Winter)	0.840

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

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

PN	US/MH Name	Storm Rank	Water Surcharged Flooded			Flow / Overflow Cap.	Half Drain Time (mins)	Pipe Flow (l/s)
			Level (m)	Depth (m)	Volume (m³)			
1.000	S11	50	54.680	-1.150	0.000	0.00		6.7
2.000	S27	57	55.017	-0.714	0.000	0.01		4.5
1.001	S12	50	54.680	-1.084	0.000	0.01		12.3
1.002	S13	50	54.680	-0.987	0.000	0.01		12.3
1.003	S14	50	54.679	-0.924	0.000	0.01		10.8
1.004	S15	51	54.679	-0.906	0.000	0.01		11.4
1.005	S16	51	54.679	-0.840	0.000	0.01		8.9
1.006	S17	51	54.679	-0.811	0.000	0.00		7.3
1.007	S23	51	54.679	-0.767	0.000	0.01		9.8
1.008	S24	51	54.678	-0.740	0.000	0.01		11.6
1.009	S25 HYDROBRAKE	51	54.678	0.449	0.000	0.26		7.8
1.010	S26	52	54.048	-0.147	0.000	0.26		7.8

PN	US/MH Name	Status
1.000	S11	OK
2.000	S27	OK
1.001	S12	OK

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<u>Summary Wizard of 240 minute 2 year Winter I+0% for PARCEL A SW</u>																																
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PN	US/MH Name	Status																														
1.002	S13	OK																														
1.003	S14	OK																														
1.004	S15	OK																														
1.005	S16	OK																														
1.006	S17	OK																														
1.007	S23	OK																														
1.008	S24	OK																														
1.009	S25 HYDROBRAKE	SURCHARGED																														
1.010	S26	OK																														
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Summary Wizard of 360 minute 2 year Winter I+0% for PARCEL A SW

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	4.000
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	0
Number of Online Controls	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	0.283
Region England and Wales Cv (Summer)	0.750		
M5-60 (mm)	19.000	Cv (Winter)	0.840

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

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

PN	US/MH Name	Storm Rank	Water Surcharged Flooded			Flow / Overflow Cap.	Half Drain Time (mins)	Pipe Flow (l/s)
			Level (m)	Depth (m)	Volume (m³)			
1.000	S11	52	54.656	-1.174	0.000	0.00		5.2
2.000	S27	60	55.008	-0.723	0.000	0.01		3.5
1.001	S12	52	54.656	-1.108	0.000	0.01		9.6
1.002	S13	52	54.656	-1.011	0.000	0.01		9.7
1.003	S14	52	54.656	-0.947	0.000	0.01		8.7
1.004	S15	52	54.656	-0.929	0.000	0.01		9.3
1.005	S16	52	54.656	-0.864	0.000	0.01		7.7
1.006	S17	52	54.656	-0.835	0.000	0.00		6.5
1.007	S23	52	54.655	-0.791	0.000	0.01		8.8
1.008	S24	52	54.655	-0.763	0.000	0.01		10.4
1.009	S25 HYDROBRAKE	52	54.654	0.425	0.000	0.26		7.8
1.010	S26	61	54.048	-0.147	0.000	0.26		7.8

PN	US/MH Name	Status
1.000	S11	OK
2.000	S27	OK
1.001	S12	OK

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<u>Summary Wizard of 360 minute 2 year Winter I+0% for PARCEL A SW</u>																																
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PN	US/MH Name	Status																														
1.002	S13	OK																														
1.003	S14	OK																														
1.004	S15	OK																														
1.005	S16	OK																														
1.006	S17	OK																														
1.007	S23	OK																														
1.008	S24	OK																														
1.009	S25 HYDROBRAKE	SURCHARGED																														
1.010	S26	OK																														
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Summary Wizard of 480 minute 2 year Winter I+0% for PARCEL A SW

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	4.000
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	0
Number of Online Controls	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	0.283
Region England and Wales Cv (Summer)	0.750		
M5-60 (mm)	19.000	Cv (Winter)	0.840

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

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

PN	US/MH Name	Storm Rank	Water		Surcharged		Flooded		Half Drain Time (mins)	Pipe Flow (l/s)
			Level (m)	Depth (m)	Volume (m³)	Flow / Cap.	Overflow (l/s)			
1.000	S11	57	54.626	-1.204	0.000	0.00		4.4		
2.000	S27	65	55.004	-0.727	0.000	0.01		2.9		
1.001	S12	57	54.626	-1.138	0.000	0.01		8.1		
1.002	S13	57	54.626	-1.041	0.000	0.00		8.3		
1.003	S14	57	54.626	-0.977	0.000	0.01		7.6		
1.004	S15	57	54.626	-0.959	0.000	0.00		8.2		
1.005	S16	57	54.626	-0.894	0.000	0.01		7.0		
1.006	S17	57	54.625	-0.865	0.000	0.00		6.1		
1.007	S23	57	54.625	-0.821	0.000	0.01		8.2		
1.008	S24	57	54.625	-0.793	0.000	0.01		9.7		
1.009	S25 HYDROBRAKE	57	54.624	0.395	0.000	0.26		7.8		
1.010	S26	56	54.048	-0.147	0.000	0.26		7.8		

PN	US/MH Name	Status
1.000	S11	OK
2.000	S27	OK
1.001	S12	OK

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Summary Wizard of 480 minute 2 year Winter I+0% for PARCEL A SW

PN	US/MH	
	Name	Status
1.002	S13	OK
1.003	S14	OK
1.004	S15	OK
1.005	S16	OK
1.006	S17	OK
1.007	S23	OK
1.008	S24	OK
1.009	S25 HYDROBRAKE	SURCHARGED
1.010	S26	OK

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Summary Wizard of 600 minute 2 year Winter I+0% for PARCEL A SW

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	4.000
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	0
Number of Online Controls	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	0.283
Region England and Wales Cv (Summer)	0.750		
M5-60 (mm)	19.000	Cv (Winter)	0.840

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

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

PN	US/MH Name	Storm Rank	Water		Surcharged		Flooded		Half Drain Time (mins)	Pipe Flow (l/s)
			Level (m)	Depth (m)	Volume (m³)	Flow / Cap.	Overflow (l/s)			
1.000	S11	65	54.593	-1.237	0.000	0.00		3.9		
2.000	S27	66	55.001	-0.730	0.000	0.01		2.5		
1.001	S12	62	54.593	-1.171	0.000	0.01		7.2		
1.002	S13	62	54.593	-1.074	0.000	0.00		7.3		
1.003	S14	62	54.593	-1.010	0.000	0.01		6.9		
1.004	S15	62	54.593	-0.992	0.000	0.00		7.4		
1.005	S16	62	54.592	-0.927	0.000	0.01		6.5		
1.006	S17	62	54.592	-0.898	0.000	0.00		5.8		
1.007	S23	62	54.592	-0.854	0.000	0.01		7.9		
1.008	S24	62	54.592	-0.826	0.000	0.01		9.3		
1.009	S25 HYDROBRAKE	62	54.591	0.362	0.000	0.26		7.8		
1.010	S26	58	54.048	-0.147	0.000	0.26		7.8		

PN	US/MH Name	Status
1.000	S11	OK
2.000	S27	OK
1.001	S12	OK

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Summary Wizard of 600 minute 2 year Winter I+0% for PARCEL A SW

PN	US/MH	
	Name	Status
1.002	S13	OK
1.003	S14	OK
1.004	S15	OK
1.005	S16	OK
1.006	S17	OK
1.007	S23	OK
1.008	S24	OK
1.009	S25 HYDROBRAKE	SURCHARGED
1.010	S26	OK

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Summary Wizard of 720 minute 2 year Winter I+0% for PARCEL A SW

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	4.000
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	0
Number of Online Controls	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	0.283
Region England and Wales Cv (Summer)	0.750		
M5-60 (mm)	19.000	Cv (Winter)	0.840

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

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

PN	US/MH Name	Storm Rank	Water Surcharged Flooded			Flow / Overflow Cap.	Half Drain Time (mins)	Pipe Flow (l/s)
			Level (m)	Depth (m)	Volume (m³)			
1.000	S11	68	54.559	-1.271	0.000	0.00		3.5
2.000	S27	69	54.999	-0.732	0.000	0.00		2.2
1.001	S12	68	54.559	-1.205	0.000	0.01		6.5
1.002	S13	66	54.558	-1.109	0.000	0.00		6.6
1.003	S14	66	54.558	-1.045	0.000	0.01		6.4
1.004	S15	66	54.558	-1.027	0.000	0.00		6.9
1.005	S16	66	54.558	-0.962	0.000	0.01		6.2
1.006	S17	66	54.558	-0.933	0.000	0.00		5.6
1.007	S23	66	54.557	-0.889	0.000	0.01		7.6
1.008	S24	66	54.557	-0.861	0.000	0.01		8.9
1.009	S25 HYDROBRAKE	66	54.556	0.327	0.000	0.26		7.8
1.010	S26	59	54.048	-0.147	0.000	0.26		7.8

PN	US/MH Name	Status
1.000	S11	OK
2.000	S27	OK
1.001	S12	OK

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<u>Summary Wizard of 720 minute 2 year Winter I+0% for PARCEL A SW</u>																																			
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	US/MH																																		
PN	Name	Status																																	
1.002	S13	OK																																	
1.003	S14	OK																																	
1.004	S15	OK																																	
1.005	S16	OK																																	
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1.007	S23	OK																																	
1.008	S24	OK																																	
1.009	S25 HYDROBRAKE	SURCHARGED																																	
1.010	S26	OK																																	
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Summary Wizard of 960 minute 2 year Winter I+0% for PARCEL A SW

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	4.000
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	0
Number of Online Controls	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	0.283
Region England and Wales Cv (Summer)	0.750		
M5-60 (mm)	19.000	Cv (Winter)	0.840

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

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

PN	US/MH Name	Storm Rank	Water		Surcharged		Flooded		Half Drain Time (mins)	Pipe Flow (l/s)
			Level (m)	Depth (m)	Volume (m³)	Flow / Cap.	Overflow (l/s)			
1.000	S11	70	54.503	-1.327	0.000	0.00		2.9		
2.000	S27	71	54.996	-0.735	0.000	0.00		1.8		
1.001	S12	70	54.492	-1.272	0.000	0.00		5.5		
1.002	S13	70	54.489	-1.178	0.000	0.00		5.7		
1.003	S14	70	54.489	-1.114	0.000	0.01		5.6		
1.004	S15	70	54.489	-1.096	0.000	0.00		6.1		
1.005	S16	70	54.489	-1.031	0.000	0.00		5.7		
1.006	S17	70	54.489	-1.002	0.000	0.00		5.4		
1.007	S23	70	54.489	-0.957	0.000	0.01		7.2		
1.008	S24	70	54.489	-0.930	0.000	0.00		8.4		
1.009	S25 HYDROBRAKE	70	54.488	0.259	0.000	0.26		7.7		
1.010	S26	70	54.048	-0.147	0.000	0.26		7.7		

PN	US/MH Name	Status
1.000	S11	OK
2.000	S27	OK
1.001	S12	OK

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PN	US/MH Name	Status																														
1.002	S13	OK																														
1.003	S14	OK																														
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Summary Wizard of 1440 minute 2 year Winter I+0% for PARCEL A SW

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	4.000
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	0
Number of Online Controls	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	0.283
Region England and Wales Cv (Summer)	0.750		
M5-60 (mm)	19.000	Cv (Winter)	0.840

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

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

PN	US/MH Name	Storm Rank	Water Surcharged Flooded			Flow / Overflow Cap.	Half Drain Time (mins)	Pipe Flow (l/s)
			Level (m)	Depth (m)	Volume (m³)			
1.000	S11	72	54.490	-1.340	0.000	0.00		2.2
2.000	S27	72	54.993	-0.738	0.000	0.00		1.4
1.001	S12	72	54.436	-1.328	0.000	0.00		4.2
1.002	S13	72	54.368	-1.299	0.000	0.00		4.5
1.003	S14	72	54.362	-1.241	0.000	0.00		4.6
1.004	S15	72	54.360	-1.225	0.000	0.00		5.1
1.005	S16	72	54.359	-1.161	0.000	0.00		5.1
1.006	S17	72	54.359	-1.132	0.000	0.00		4.9
1.007	S23	72	54.358	-1.088	0.000	0.01		6.5
1.008	S24	72	54.358	-1.060	0.000	0.00		7.6
1.009	S25 HYDROBRAKE	72	54.358	0.129	0.000	0.25		7.4
1.010	S26	72	54.046	-0.149	0.000	0.25		7.4

PN	US/MH Name	Status
1.000	S11	OK
2.000	S27	OK
1.001	S12	OK

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PN	US/MH Name	Status																														
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Summary Wizard of 15 minute 30 year Winter I+0% for PARCEL A SW

Simulation Criteria

Areal Reduction Factor 1.000	Additional Flow - % of Total Flow 0.000
Hot Start (mins) 0	MADD Factor * 10m³/ha Storage 4.000
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 0
Number of Online Controls 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 0.283
Region England and Wales Cv	(Summer)	0.750
M5-60 (mm)	19.000 Cv	(Winter) 0.840

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

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

PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded	Flow / Overflow (l/s)	Half Drain Time (mins)	Pipe
			Level (m)	Depth (m)	Volume (m³)			Flow (l/s)
1.000	S11	47	54.738	-1.092	0.000	0.03		52.3
2.000	S27	27	55.118	-0.613	0.000	0.08		33.8
1.001	S12	47	54.738	-1.026	0.000	0.08		99.5
1.002	S13	47	54.738	-0.929	0.000	0.05		97.4
1.003	S14	47	54.737	-0.866	0.000	0.07		78.2
1.004	S15	47	54.737	-0.848	0.000	0.05		80.5
1.005	S16	47	54.736	-0.783	0.000	0.04		47.5
1.006	S17	47	54.736	-0.755	0.000	0.02		29.6
1.007	S23	47	54.735	-0.711	0.000	0.04		42.3
1.008	S24	47	54.735	-0.683	0.000	0.03		51.1
1.009	S25 HYDROBRAKE	47	54.734	0.505	0.000	0.26		7.8
1.010	S26	66	54.048	-0.147	0.000	0.26		7.8

PN	US/MH Name	Status
1.000	S11	OK
2.000	S27	OK
1.001	S12	OK

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PN	US/MH Name	Status																														
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<u>Summary Wizard of 30 minute 30 year Winter I+0% for PARCEL A SW</u>																																			
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Summary Wizard of 60 minute 30 year Winter I+0% for PARCEL A SW

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	4.000
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	0
Number of Online Controls	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	0.283
Region England and Wales Cv (Summer)	0.750		
M5-60 (mm)	19.000	Cv (Winter)	0.840

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

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

PN	US/MH Name	Storm Rank	Water		Surcharged		Flooded		Half Drain Time (mins)	Pipe Flow (l/s)
			Level (m)	Depth (m)	Volume (m³)	Flow / Cap.	Overflow (l/s)			
1.000	S11	37	54.987	-0.843	0.000	0.01			26.8	
2.000	S27	35	55.082	-0.649	0.000	0.04			19.6	
1.001	S12	37	54.987	-0.777	0.000	0.04			44.7	
1.002	S13	37	54.987	-0.680	0.000	0.02			42.8	
1.003	S14	37	54.986	-0.617	0.000	0.03			31.7	
1.004	S15	37	54.986	-0.599	0.000	0.02			32.8	
1.005	S16	37	54.986	-0.534	0.000	0.02			18.6	
1.006	S17	37	54.986	-0.505	0.000	0.01			10.5	
1.007	S23	37	54.985	-0.461	0.000	0.02			19.4	
1.008	S24	37	54.985	-0.433	0.000	0.02			26.7	
1.009	S25 HYDROBRAKE	37	54.983	0.754	0.000	0.26			7.8	
1.010	S26	40	54.048	-0.147	0.000	0.26			7.8	

PN	US/MH Name	Status
1.000	S11	OK
2.000	S27	OK
1.001	S12	OK

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Summary Wizard of 120 minute 30 year Winter I+0% for PARCEL A SW

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	4.000
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	0
Number of Online Controls	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	0.283
Region England and Wales Cv (Summer)	0.750		
M5-60 (mm)	19.000	Cv (Winter)	0.840

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

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

PN	US/MH Name	Storm Rank	Water		Surcharged		Flooded		Half Drain Time (mins)	Pipe Flow (l/s)
			Level (m)	Depth (m)	Volume (m³)	Flow / Cap.	Overflow (l/s)			
1.000	S11	27	55.090	-0.740	0.000	0.01		17.4		
2.000	S27	34	55.090	-0.641	0.000	0.03		12.9		
1.001	S12	27	55.090	-0.674	0.000	0.02		27.3		
1.002	S13	27	55.089	-0.578	0.000	0.01		25.3		
1.003	S14	27	55.089	-0.514	0.000	0.02		18.1		
1.004	S15	27	55.089	-0.496	0.000	0.01		19.3		
1.005	S16	27	55.089	-0.431	0.000	0.01		11.6		
1.006	S17	27	55.088	-0.402	0.000	0.01		8.3		
1.007	S23	27	55.088	-0.358	0.000	0.01		13.3		
1.008	S24	27	55.088	-0.331	0.000	0.01		18.7		
1.009	S25 HYDROBRAKE	27	55.086	0.857	0.000	0.26		7.8		
1.010	S26	29	54.048	-0.147	0.000	0.26		7.8		

PN	US/MH Name	Status
1.000	S11	OK
2.000	S27	OK
1.001	S12	OK

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<u>Summary Wizard of 120 minute 30 year Winter I+0% for PARCEL A SW</u>		
	US/MH	
PN	Name	Status
1.002	S13	OK
1.003	S14	OK
1.004	S15	OK
1.005	S16	OK
1.006	S17	OK
1.007	S23	OK
1.008	S24	OK
1.009	S25 HYDROBRAKE	SURCHARGED
1.010	S26	OK
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XP Solutions		Network 2020.1.3																														
<u>Summary Wizard of 180 minute 30 year Winter I+0% for PARCEL A SW</u>																																
<table> <tr> <th>PN</th><th>US/MH Name</th><th>Status</th></tr> <tr> <td>1.002</td><td>S13</td><td>OK</td></tr> <tr> <td>1.003</td><td>S14</td><td>OK</td></tr> <tr> <td>1.004</td><td>S15</td><td>OK</td></tr> <tr> <td>1.005</td><td>S16</td><td>OK</td></tr> <tr> <td>1.006</td><td>S17</td><td>OK</td></tr> <tr> <td>1.007</td><td>S23</td><td>OK</td></tr> <tr> <td>1.008</td><td>S24</td><td>OK</td></tr> <tr> <td>1.009</td><td>S25 HYDROBRAKE</td><td>SURCHARGED</td></tr> <tr> <td>1.010</td><td>S26</td><td>OK</td></tr> </table>			PN	US/MH Name	Status	1.002	S13	OK	1.003	S14	OK	1.004	S15	OK	1.005	S16	OK	1.006	S17	OK	1.007	S23	OK	1.008	S24	OK	1.009	S25 HYDROBRAKE	SURCHARGED	1.010	S26	OK
PN	US/MH Name	Status																														
1.002	S13	OK																														
1.003	S14	OK																														
1.004	S15	OK																														
1.005	S16	OK																														
1.006	S17	OK																														
1.007	S23	OK																														
1.008	S24	OK																														
1.009	S25 HYDROBRAKE	SURCHARGED																														
1.010	S26	OK																														
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Summary Wizard of 240 minute 30 year Winter I+0% for PARCEL A SW

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	4.000
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	0
Number of Online Controls	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	0.283
Region England and Wales Cv (Summer)	0.750		
M5-60 (mm)	19.000	Cv (Winter)	0.840

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

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

PN	US/MH Name	Storm Rank	Water		Surcharged		Flooded		Half Drain Time (mins)	Pipe Flow (l/s)
			Level (m)	Depth (m)	Volume (m³)	Flow / Cap.	Overflow (l/s)			
1.000	S11	23	55.131	-0.699	0.000	0.01		11.2		
2.000	S27	25	55.131	-0.600	0.000	0.02		8.2		
1.001	S12	23	55.131	-0.633	0.000	0.01		17.7		
1.002	S13	23	55.131	-0.536	0.000	0.01		16.7		
1.003	S14	23	55.130	-0.473	0.000	0.01		12.2		
1.004	S15	23	55.130	-0.455	0.000	0.01		13.3		
1.005	S16	23	55.130	-0.390	0.000	0.01		9.2		
1.006	S17	23	55.130	-0.361	0.000	0.00		7.2		
1.007	S23	23	55.129	-0.317	0.000	0.01		10.4		
1.008	S24	23	55.129	-0.289	0.000	0.01		14.2		
1.009	S25 HYDROBRAKE	23	55.127	0.898	0.000	0.26		7.8		
1.010	S26	27	54.048	-0.147	0.000	0.26		7.8		

PN	US/MH Name	Status
1.000	S11	OK
2.000	S27	OK
1.001	S12	OK

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PN	US/MH Name	Status																														
1.002	S13	OK																														
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1.004	S15	OK																														
1.005	S16	OK																														
1.006	S17	OK																														
1.007	S23	OK																														
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1.010	S26	OK																														
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Summary Wizard of 360 minute 30 year Winter I+0% for PARCEL A SW

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	4.000
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	0
Number of Online Controls	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	0.283
Region England and Wales Cv (Summer)	0.750		
M5-60 (mm)	19.000	Cv (Winter)	0.840

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

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

PN	US/MH Name	Storm Rank	Water		Surcharged		Flooded		Half Drain Time (mins)	Pipe Flow (l/s)
			Level (m)	Depth (m)	Volume (m³)	Flow / Cap.	Overflow (l/s)			
1.000	S11	25	55.116	-0.714	0.000	0.00		8.5		
2.000	S27	28	55.116	-0.615	0.000	0.01		6.2		
1.001	S12	25	55.116	-0.648	0.000	0.01		13.8		
1.002	S13	25	55.116	-0.551	0.000	0.01		13.2		
1.003	S14	25	55.116	-0.487	0.000	0.01		10.1		
1.004	S15	25	55.116	-0.469	0.000	0.01		11.0		
1.005	S16	25	55.115	-0.404	0.000	0.01		8.2		
1.006	S17	25	55.115	-0.376	0.000	0.00		6.8		
1.007	S23	25	55.115	-0.332	0.000	0.01		9.4		
1.008	S24	25	55.114	-0.304	0.000	0.01		12.4		
1.009	S25 HYDROBRAKE	25	55.113	0.884	0.000	0.26		7.8		
1.010	S26	28	54.048	-0.147	0.000	0.26		7.8		

PN	US/MH Name	Status
1.000	S11	OK
2.000	S27	OK
1.001	S12	OK

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<u>Summary Wizard of 360 minute 30 year Winter I+0% for PARCEL A SW</u>																																			
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	US/MH																																		
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1.003	S14	OK																																	
1.004	S15	OK																																	
1.005	S16	OK																																	
1.006	S17	OK																																	
1.007	S23	OK																																	
1.008	S24	OK																																	
1.009	S25 HYDROBRAKE	SURCHARGED																																	
1.010	S26	OK																																	
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Summary Wizard of 480 minute 30 year Winter I+0% for PARCEL A SW

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	4.000
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	0
Number of Online Controls	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	0.283
Region England and Wales Cv (Summer)	0.750		
M5-60 (mm)	19.000	Cv (Winter)	0.840

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

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

PN	US/MH Name	Storm Rank	Water		Surcharged		Flooded		Half Drain Time (mins)	Pipe Flow (l/s)
			Level (m)	Depth (m)	Volume (m³)	Flow / Cap.	Overflow (l/s)			
1.000	S11	26	55.096	-0.734	0.000	0.00		7.0		
2.000	S27	32	55.096	-0.635	0.000	0.01		5.1		
1.001	S12	26	55.095	-0.669	0.000	0.01		11.5		
1.002	S13	26	55.095	-0.572	0.000	0.01		11.1		
1.003	S14	26	55.095	-0.508	0.000	0.01		8.9		
1.004	S15	26	55.095	-0.490	0.000	0.01		9.6		
1.005	S16	26	55.095	-0.425	0.000	0.01		7.6		
1.006	S17	26	55.094	-0.396	0.000	0.00		6.4		
1.007	S23	26	55.094	-0.352	0.000	0.01		8.8		
1.008	S24	26	55.094	-0.324	0.000	0.01		11.4		
1.009	S25 HYDROBRAKE	26	55.092	0.863	0.000	0.26		7.8		
1.010	S26	34	54.048	-0.147	0.000	0.26		7.8		

PN	US/MH Name	Status
1.000	S11	OK
2.000	S27	OK
1.001	S12	OK

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<u>Summary Wizard of 480 minute 30 year Winter I+0% for PARCEL A SW</u>																																			
<table><thead><tr><th></th><th>US/MH</th><th></th></tr><tr><th>PN</th><th>Name</th><th>Status</th></tr></thead><tbody><tr><td>1.002</td><td>S13</td><td>OK</td></tr><tr><td>1.003</td><td>S14</td><td>OK</td></tr><tr><td>1.004</td><td>S15</td><td>OK</td></tr><tr><td>1.005</td><td>S16</td><td>OK</td></tr><tr><td>1.006</td><td>S17</td><td>OK</td></tr><tr><td>1.007</td><td>S23</td><td>OK</td></tr><tr><td>1.008</td><td>S24</td><td>OK</td></tr><tr><td>1.009</td><td>S25 HYDROBRAKE</td><td>SURCHARGED</td></tr><tr><td>1.010</td><td>S26</td><td>OK</td></tr></tbody></table>				US/MH		PN	Name	Status	1.002	S13	OK	1.003	S14	OK	1.004	S15	OK	1.005	S16	OK	1.006	S17	OK	1.007	S23	OK	1.008	S24	OK	1.009	S25 HYDROBRAKE	SURCHARGED	1.010	S26	OK
	US/MH																																		
PN	Name	Status																																	
1.002	S13	OK																																	
1.003	S14	OK																																	
1.004	S15	OK																																	
1.005	S16	OK																																	
1.006	S17	OK																																	
1.007	S23	OK																																	
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Summary Wizard of 600 minute 30 year Winter I+0% for PARCEL A SW

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
 Hot Start (mins) 0 MADD Factor * 10m³/ha Storage 4.000
 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 0
 Number of Online Controls 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 0.283
 Region England and Wales Cv (Summer) 0.750
 M5-60 (mm) 19.000 Cv (Winter) 0.840

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

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

PN	US/MH Name	Storm Rank	Water		Surcharged		Flooded		Half Drain Time (mins)	Pipe Flow (l/s)
			Level (m)	Depth (m)	Volume (m³)	Flow / Cap.	Overflow (l/s)			
1.000	S11	29	55.068	-0.762	0.000	0.00		6.1		
2.000	S27	41	55.069	-0.662	0.000	0.01		4.3		
1.001	S12	29	55.068	-0.696	0.000	0.01		10.1		
1.002	S13	29	55.068	-0.599	0.000	0.01		9.8		
1.003	S14	28	55.068	-0.535	0.000	0.01		8.1		
1.004	S15	28	55.068	-0.517	0.000	0.00		8.8		
1.005	S16	28	55.067	-0.452	0.000	0.01		7.1		
1.006	S17	28	55.067	-0.423	0.000	0.00		6.2		
1.007	S23	28	55.067	-0.379	0.000	0.01		8.4		
1.008	S24	28	55.066	-0.352	0.000	0.01		10.7		
1.009	S25 HYDROBRAKE	28	55.065	0.836	0.000	0.26		7.8		
1.010	S26	36	54.048	-0.147	0.000	0.26		7.8		

PN	US/MH Name	Status
1.000	S11	OK
2.000	S27	OK
1.001	S12	OK

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PN	US/MH Name	Status																														
1.002	S13	OK																														
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1.004	S15	OK																														
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1.007	S23	OK																														
1.008	S24	OK																														
1.009	S25 HYDROBRAKE	SURCHARGED																														
1.010	S26	OK																														
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Summary Wizard of 720 minute 30 year Winter I+0% for PARCEL A SW

Simulation Criteria

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

Synthetic Rainfall Details

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

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

PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded	Flow / Cap.	Overflow (l/s)	Half Drain	Pipe
			Level (m)	Depth (m)	Volume (m³)			Time (mins)	Flow (l/s)
1.000	S25 HYDROBRAKE	S11	30	55.035	-0.795	0.000	0.00		5.4
2.000		S27	49	55.038	-0.693	0.000	0.01		3.8
1.001		S12	30	55.035	-0.729	0.000	0.01		9.2
1.002		S13	30	55.035	-0.632	0.000	0.01		9.0
1.003		S14	30	55.035	-0.568	0.000	0.01		7.5
1.004		S15	30	55.035	-0.550	0.000	0.00		8.3
1.005		S16	30	55.034	-0.485	0.000	0.01		6.8
1.006		S17	30	55.034	-0.456	0.000	0.00		6.0
1.007		S23	30	55.034	-0.412	0.000	0.01		8.2
1.008		S24	30	55.034	-0.385	0.000	0.01		10.2
1.009	S26	S25	30	55.032	0.803	0.000	0.26		7.8
1.010		S26	31	54.048	-0.147	0.000	0.26		7.8

PN	US/MH Name	Status
1.000	S11	OK
2.000	S27	OK
1.001	S12	OK

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PN	US/MH Name	Status																														
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1.003	S14	OK																														
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1.006	S17	OK																														
1.007	S23	OK																														
1.008	S24	OK																														
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1.010	S26	OK																														
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<u>Summary Wizard of 960 minute 30 year Winter I+0% for PARCEL A SW</u>																																
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PN	US/MH Name	Status																														
1.002	S13	OK																														
1.003	S14	OK																														
1.004	S15	OK																														
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1.006	S17	OK																														
1.007	S23	OK																														
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1.009	S25 HYDROBRAKE	SURCHARGED																														
1.010	S26	OK																														
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Summary Wizard of 1440 minute 30 year Winter I+0% for PARCEL A SW

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	4.000
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	0
Number of Online Controls	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	0.283
Region England and Wales Cv (Summer)			0.750
M5-60 (mm)	19.000	Cv (Winter)	0.840

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

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

PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded	Flow / Overflow Cap.	Half Drain Time (mins)	Pipe
			Level (m)	Depth (m)	Volume (m³)			Flow (l/s)
1.000	S11	45	54.808	-1.022	0.000	0.00		3.4
2.000	S27	68	54.999	-0.732	0.000	0.01		2.3
1.001	S12	45	54.808	-0.956	0.000	0.01		6.2
1.002	S13	45	54.808	-0.859	0.000	0.00		6.4
1.003	S14	45	54.808	-0.795	0.000	0.01		6.0
1.004	S15	45	54.808	-0.777	0.000	0.00		6.5
1.005	S16	45	54.808	-0.712	0.000	0.01		5.9
1.006	S17	45	54.808	-0.683	0.000	0.00		5.5
1.007	S23	45	54.807	-0.639	0.000	0.01		7.4
1.008	S24	45	54.807	-0.611	0.000	0.00		8.9
1.009	S25 HYDROBRAKE	45	54.806	0.577	0.000	0.26		7.8
1.010	S26	42	54.048	-0.147	0.000	0.26		7.8

PN	US/MH Name	Status
1.000	S11	OK
2.000	S27	OK
1.001	S12	OK

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<u>Summary Wizard of 1440 minute 30 year Winter I+0% for PARCEL A SW</u>		
	US/MH	
PN	Name	Status
1.002	S13	OK
1.003	S14	OK
1.004	S15	OK
1.005	S16	OK
1.006	S17	OK
1.007	S23	OK
1.008	S24	OK
1.009	S25 HYDROBRAKE	SURCHARGED
1.010	S26	OK

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<u>Summary Wizard of 15 minute 100 year Winter I+45% for PARCEL A SW</u>		
	US/MH	
PN	Name	Status
1.002	S13	OK
1.003	S14	OK
1.004	S15	OK
1.005	S16	OK
1.006	S17	OK
1.007	S23	OK
1.008	S24	OK
1.009	S25 HYDROBRAKE	SURCHARGED
1.010	S26	OK
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Summary Wizard of 30 minute 100 year Winter I+45% for PARCEL A SW

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	4.000
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	0
Number of Online Controls	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	0.283
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.000	Cv (Winter)	0.840

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

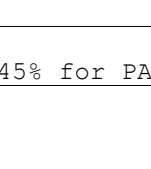
Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	2, 30, 100
Climate Change (%)	0, 0, 45

PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded	Flow / Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)
			Level (m)	Depth (m)	Volume (m³)			
1.000	S11	21	55.319	-0.511	0.000	0.04		71.5
2.000	S27	21	55.319	-0.412	0.000	0.12		53.4
1.001	S12	21	55.318	-0.446	0.000	0.09		105.2
1.002	S13	21	55.318	-0.349	0.000	0.05		96.7
1.003	S14	21	55.316	-0.287	0.000	0.06		62.4
1.004	S15	21	55.316	-0.269	0.000	0.04		68.3
1.005	S16	21	55.314	-0.206	0.000	0.03		30.6
1.006	S17	21	55.312	-0.178	0.000	0.01		20.1
1.007	S23	21	55.311	-0.135	0.000	0.03		36.0
1.008	S24	21	55.309	-0.109	0.000	0.03		56.9
1.009	S25 HYDROBRAKE	21	55.305	1.076	0.000	0.26		7.8
1.010	S26	43	54.048	-0.147	0.000	0.26		7.8

PN	US/MH Name	Status
1.000	S11	OK
2.000	S27	OK
1.001	S12	OK

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	US/MH																																		
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1.003	S14	OK																																	
1.004	S15	OK																																	
1.005	S16	OK																																	
1.006	S17	OK																																	
1.007	S23	OK																																	
1.008	S24	OK																																	
1.009	S25 HYDROBRAKE	SURCHARGED																																	
1.010	S26	OK																																	
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Summary Wizard of 60 minute 100 year Winter I+45% for PARCEL A SW

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	4.000
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	0
Number of Online Controls	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	0.283
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.000	Cv (Winter)	0.840

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

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

PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded	Flow / Overflow (l/s)	Half Drain Time (mins)	Pipe
			Level (m)	Depth (m)	Volume (m³)			Flow
1.000	S11	19	55.667	-0.163	0.000	0.03		50.2
2.000	S27	19	55.667	-0.064	0.000	0.08		37.1
1.001	S12	19	55.666	-0.098	0.000	0.06		69.2
1.002	S13	19	55.665	-0.002	0.000	0.03		60.6
1.003	S14	19	55.649	0.046	0.000	0.03		34.6
1.004	S15	19	55.649	0.064	0.000	0.02		39.3
1.005	S16	19	55.649	0.130	0.000	0.02		18.4
1.006	S17	19	55.649	0.159	0.000	0.01		14.5
1.007	S23	19	55.649	0.203	0.000	0.02		21.5
1.008	S24	19	55.649	0.231	0.000	0.02		38.1
1.009	S25 HYDROBRAKE	19	55.649	1.420	0.000	0.26		7.8
1.010	S26	41	54.048	-0.147	0.000	0.26		7.8

PN	US/MH Name	Status
1.000	S11	OK
2.000	S27	OK
1.001	S12	OK

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Summary Wizard of 120 minute 100 year Winter I+45% for PARCEL A SW

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	4.000
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	0
Number of Online Controls	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	0.283
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.000	Cv (Winter)	0.840

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

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

PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded	Flow / Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)
			Level (m)	Depth (m)	Volume (m³)			
1.000	S11	8	56.349	0.519	0.000	0.02		33.4
2.000	S27	8	56.349	0.618	0.000	0.05		22.7
1.001	S12	8	56.349	0.585	0.000	0.03		41.7
1.002	S13	8	56.349	0.682	0.000	0.02		36.7
1.003	S14	8	56.349	0.746	0.000	0.02		21.5
1.004	S15	8	56.349	0.764	0.000	0.01		24.5
1.005	S16	8	56.349	0.830	0.000	0.01		12.3
1.006	S17	8	56.350	0.859	0.000	0.01		12.0
1.007	S23	8	56.350	0.903	0.000	0.01		14.5
1.008	S24	8	56.349	0.931	0.000	0.01		25.3
1.009	S25 HYDROBRAKE	8	56.349	2.120	0.000	0.30		8.8
1.010	S26	8	54.054	-0.141	0.000	0.30		8.8

US/MH

PN	Name	Status
1.000	S11	SURCHARGED
2.000	S27	SURCHARGED
1.001	S12	SURCHARGED

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PN	US/MH Name	Status																														
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1.010	S26	OK																														
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<u>Summary Wizard of 180 minute 100 year Winter I+45% for PARCEL A SW</u>																																
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Summary Wizard of 240 minute 100 year Winter I+45% for PARCEL A SW

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	4.000
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	0
Number of Online Controls	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	0.283
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.000	Cv (Winter)	0.840

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

Profile(s)

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

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap. (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)
1.000	S11	4	56.875	1.045	0.000	0.01		20.9
2.000	S27	4	56.875	1.144	0.000	0.03		13.4
1.001	S12	4	56.875	1.111	0.000	0.02		25.8
1.002	S13	4	56.875	1.208	0.000	0.01		23.0
1.003	S14	4	56.875	1.272	0.000	0.01		14.4
1.004	S15	4	56.875	1.290	0.000	0.01		16.3
1.005	S16	4	56.875	1.355	0.000	0.01		11.3
1.006	S17	4	56.875	1.385	0.000	0.01		9.0
1.007	S23	4	56.875	1.429	0.000	0.01		11.3
1.008	S24	4	56.875	1.457	0.000	0.01		17.7
1.009	S25 HYDROBRAKE	4	56.875	2.646	0.000	0.33		9.7
1.010	S26	4	54.059	-0.136	0.000	0.33		9.7

PN	US/MH Name	Status
1.000	S11	FLOOD RISK
2.000	S27	FLOOD RISK
1.001	S12	SURCHARGED

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1.004	S15	SURCHARGED																														
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1.007	S23	SURCHARGED																														
1.008	S24	SURCHARGED																														
1.009	S25 HYDROBRAKE	SURCHARGED																														
1.010	S26	OK																														
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Summary Wizard of 360 minute 100 year Winter I+45% for PARCEL A SW

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	4.000
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	0
Number of Online Controls	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	0.283
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.000	Cv (Winter)	0.840

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

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

PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe
			Level (m)	Depth (m)	Volume (m³)				Flow
1.000	S11	1	56.990	1.160	0.000	0.01			15.8
2.000	S27	1	56.990	1.259	0.000	0.02			10.1
1.001	S12	1	56.990	1.226	0.000	0.02			20.0
1.002	S13	1	56.990	1.323	0.000	0.01			18.0
1.003	S14	1	56.990	1.387	0.000	0.01			11.8
1.004	S15	1	56.990	1.405	0.000	0.01			14.6
1.005	S16	1	56.990	1.471	0.000	0.01			13.6
1.006	S17	1	56.990	1.500	0.000	0.01			12.0
1.007	S23	1	56.990	1.544	0.000	0.01			10.4
1.008	S24	1	56.990	1.572	0.000	0.01			14.8
1.009	S25 HYDROBRAKE	1	56.990	2.761	0.000	0.33			9.9
1.010	S26	1	54.060	-0.135	0.000	0.34			9.9

PN	US/MH Name	Status
1.000	S11	FLOOD RISK
2.000	S27	FLOOD RISK
1.001	S12	SURCHARGED

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1.003	S14	SURCHARGED																														
1.004	S15	SURCHARGED																														
1.005	S16	SURCHARGED																														
1.006	S17	SURCHARGED																														
1.007	S23	SURCHARGED																														
1.008	S24	SURCHARGED																														
1.009	S25 HYDROBRAKE	SURCHARGED																														
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Summary Wizard of 600 minute 100 year Winter I+45% for PARCEL A SW

Simulation Criteria

Areal Reduction Factor 1.000

Additional Flow - % of Total Flow 0.000

Hot Start (mins) 0

MADD Factor * 10m³/ha Storage 4.000

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 0

Number of Online Controls 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 0.283

Region England and Wales Cv (Summer) 0.750

M5-60 (mm) 19.000 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0

DVD Status ON

Analysis Timestep Fine Inertia Status ON

DTS Status OFF

Profile(s) Summer and Winter

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

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

Climate Change (%) 0, 0, 45

			Water	Surcharged	Flooded		Half Drain	Pipe
PN	US/MH	Storm	Level	Depth	Volume	Flow /	Time	Flow
	Name	Rank	(m)	(m)	(m³)	Cap.	(mins)	(l/s)
1.000	S11	3	56.921	1.091	0.000	0.01		11.0
2.000	S27	3	56.921	1.190	0.000	0.02		7.0
1.001	S12	3	56.921	1.157	0.000	0.01		14.4
1.002	S13	3	56.921	1.254	0.000	0.01		13.2
1.003	S14	3	56.921	1.318	0.000	0.01		9.4
1.004	S15	3	56.921	1.336	0.000	0.01		10.5
1.005	S16	3	56.921	1.402	0.000	0.01		8.5
1.006	S17	3	56.921	1.431	0.000	0.01		8.4
1.007	S23	3	56.921	1.475	0.000	0.01		9.0
1.008	S24	3	56.922	1.503	0.000	0.01		12.4
1.009	S25 HYDROBRAKE	3	56.922	2.693	0.000	0.33		9.8
1.010	S26	3	54.059	-0.136	0.000	0.33		9.8

PN

US/MH

Status

1.000

S11 FLOOD RISK

2.000

S27 FLOOD RISK

1.001

S12 SURCHARGED

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PN	US/MH Name	Status																														
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1.009	S25 HYDROBRAKE	SURCHARGED																														
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Summary Wizard of 960 minute 100 year Winter I+45% for PARCEL A SW

Simulation Criteria

Areal Reduction Factor 1.000	Additional Flow - % of Total Flow 0.000
Hot Start (mins) 0	MADD Factor * 10m³/ha Storage 4.000
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 0
Number of Online Controls 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 0.283
Region England and Wales Cv	(Summer)	0.750
M5-60 (mm)	19.000 Cv	(Winter) 0.840

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

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

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Overflow Cap. (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)
1.000	S11	7	56.695	0.865	0.000	0.00		7.9
2.000	S27	7	56.695	0.964	0.000	0.01		5.1
1.001	S12	7	56.696	0.932	0.000	0.01		11.0
1.002	S13	7	56.696	1.029	0.000	0.01		10.3
1.003	S14	7	56.696	1.093	0.000	0.01		7.8
1.004	S15	7	56.696	1.111	0.000	0.00		8.8
1.005	S16	7	56.696	1.176	0.000	0.01		7.4
1.006	S17	7	56.696	1.205	0.000	0.01		7.9
1.007	S23	7	56.696	1.250	0.000	0.01		8.3
1.008	S24	7	56.696	1.278	0.000	0.01		10.9
1.009	S25 HYDROBRAKE	7	56.696	2.467	0.000	0.32		9.4
1.010	S26	7	54.057	-0.138	0.000	0.32		9.4

US/MH

PN	Name	Status
1.000	S11	SURCHARGED
2.000	S27	SURCHARGED
1.001	S12	SURCHARGED

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XP Solutions Network 2020.1.3		

Summary Wizard of 1440 minute 100 year Winter I+45% for PARCEL A SW

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	4.000
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	0
Number of Online Controls	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	0.283
Region England and Wales Cv (Summer)	0.750		
M5-60 (mm)	19.000	Cv (Winter)	0.840

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

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

PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded	Flow / Cap.	Overflow (l/s)	Half Drain	Pipe
			Level (m)	Depth (m)	Volume (m³)			Time (mins)	Flow (l/s)
1.000	S11	9	56.336	0.506	0.000	0.00			6.0
2.000	S27	9	56.336	0.605	0.000	0.01			3.9
1.001	S12	9	56.336	0.572	0.000	0.01			8.9
1.002	S13	9	56.336	0.669	0.000	0.00			8.5
1.003	S14	9	56.337	0.734	0.000	0.01			9.8
1.004	S15	9	56.337	0.752	0.000	0.00			8.1
1.005	S16	9	56.337	0.818	0.000	0.01			8.3
1.006	S17	9	56.337	0.847	0.000	0.01			8.0
1.007	S23	9	56.337	0.891	0.000	0.01			8.6
1.008	S24	9	56.337	0.919	0.000	0.01			9.9
1.009	S25 HYDROBRAKE	9	56.337	2.108	0.000	0.30			8.8
1.010	S26	9	54.054	-0.141	0.000	0.30			8.8

PN	US/MH Name	Status
1.000	S11	SURCHARGED
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