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Date 11/08/2025 14:06 File PH7A - STORM. 11.08.25.MDX	Designed by d_southa Checked by	
Elstree Computing Ltd	Network 2020.1.3	

STORM SEWER DESIGN by the Modified Rational Method

Design Criteria for Surface Network 8

Pipe Sizes STANDARD Manhole Sizes STANDARD

FSR Rainfall Model - England and Wales

Return Period (years)	2	PIMP (%)	100
M5-60 (mm)	19.900	Add Flow / Climate Change (%)	0
Ratio R	0.404	Minimum Backdrop Height (m)	0.200
Maximum Rainfall (mm/hr)	50	Maximum Backdrop Height (m)	1.500
Maximum Time of Concentration (mins)	30	Min Design Depth for Optimisation (m)	1.200
Foul Sewage (l/s/ha)	0.000	Min Vel for Auto Design only (m/s)	1.00
Volumetric Runoff Coeff.	0.750	Min Slope for Optimisation (1:X)	500

Designed with Level Soffits

Network Design Table for Surface Network 8

« - 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	30.932	0.327	94.6	0.167	5.00	0.0	0.600	o	300	Pipe/Conduit	
1.001	17.048	0.253	67.4	0.081	0.00	0.0	0.600	o	300	Pipe/Conduit	
1.002	24.461	0.315	77.7	0.032	0.00	0.0	0.600	o	300	Pipe/Conduit	
1.003	16.291	0.265	61.5	0.011	0.00	0.0	0.600	o	450	Pipe/Conduit	
1.004	30.319	0.590	51.4	0.257	0.00	0.0	0.600	o	450	Pipe/Conduit	
1.005	14.528	0.258	56.2	0.000	0.00	0.0	0.600	o	450	Pipe/Conduit	
1.006	15.635	0.284	55.0	0.000	0.00	0.0	0.600	o	525	Pipe/Conduit	
1.007	30.561	0.110	277.8	0.066	0.00	0.0	0.600	o	525	Pipe/Conduit	
1.008	19.656	0.160	122.8	0.023	0.00	0.0	0.600	o	525	Pipe/Conduit	
2.000	42.890	0.416	103.1	0.184	5.00	0.0	0.600	o	300	Pipe/Conduit	

Network Results Table

PN	Rain (mm/hr)	T.C. (mins)	US/IL (m)	Σ I.Area (ha)	Σ Base Flow (l/s)	Foul (l/s)	Add Flow (l/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)
1.000	50.00	5.32	102.116	0.167	0.0	0.0	0.0	1.62	114.3	22.6
1.001	50.00	5.47	101.789	0.248	0.0	0.0	0.0	1.92	135.6	33.6
1.002	50.00	5.70	101.536	0.280	0.0	0.0	0.0	1.79	126.2	37.9
1.003	50.00	5.80	101.071	0.291	0.0	0.0	0.0	2.60	413.0	39.4
1.004	50.00	5.98	100.806	0.548	0.0	0.0	0.0	2.84	451.9	74.2
1.005	50.00	6.07	100.216	0.548	0.0	0.0	0.0	2.72	431.8	74.2
1.006	50.00	6.15	99.883	0.548	0.0	0.0	0.0	3.02	654.8	74.2
1.007	50.00	6.53	99.570	0.614	0.0	0.0	0.0	1.34	289.8	83.1
1.008	50.00	6.70	99.460	0.637	0.0	0.0	0.0	2.02	437.2	86.2
2.000	50.00	5.46	100.555	0.184	0.0	0.0	0.0	1.55	109.4	24.9

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Network Design Table for Surface Network 8

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
2.001	26.139	0.153	170.8	0.120	0.00	0.0	0.600	o	300	Pipe/Conduit	
2.002	26.496	0.027	981.3	0.088	0.00	0.0	0.600	o	375	Pipe/Conduit	
3.000	48.145	0.207	232.6	0.115	5.00	0.0	0.600	o	525	Pipe/Conduit	
3.001	25.530	0.084	303.9	0.083	0.00	0.0	0.600	o	525	Pipe/Conduit	
2.003	15.475	0.209	74.0	0.007	0.00	0.0	0.600	o	525	Pipe/Conduit	
2.004	17.159	0.072	238.3	0.142	0.00	0.0	0.600	o	525	Pipe/Conduit	
2.005	13.568	0.027	502.5	0.138	0.00	0.0	0.600	o	525	Pipe/Conduit	
2.006	17.264	0.126	137.0	0.148	0.00	0.0	0.600	o	525	Pipe/Conduit	
1.009	41.865	0.075	556.0	0.047	0.00	0.0	0.600	o	525	Pipe/Conduit	
1.010	34.997	0.110	319.0	0.208	0.00	0.0	0.600	o	600	Pipe/Conduit	
1.011	32.331	0.546	59.2	0.047	0.00	0.0	0.600	o	600	Pipe/Conduit	
4.000	58.521	0.246	238.0	0.121	5.00	0.0	0.600	o	300	Pipe/Conduit	
1.012	6.746	0.124	54.4	0.138	0.00	0.0	0.600	o	600	Pipe/Conduit	
1.013	21.383	0.350	61.1	0.050	0.00	0.0	0.600	o	600	Pipe/Conduit	
1.014	13.269	0.160	82.9	0.054	0.00	0.0	0.600	o	600	Pipe/Conduit	
1.015	37.757	0.380	99.4	0.032	0.00	0.0	0.600	o	600	Pipe/Conduit	
1.016	47.054	1.100	42.8	0.105	0.00	0.0	0.600	o	600	Pipe/Conduit	

Network Results Table

PN	Rain (mm/hr)	T.C. (mins)	US/IL (m)	Σ I.Area (ha)	Σ Base Flow (l/s)	Foul (l/s)	Add Flow (l/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)
2.001	50.00	5.82	100.139	0.304	0.0	0.0	0.0	1.20	84.8	41.2
2.002	50.00	6.60	99.911	0.392	0.0	0.0	0.0	0.57	63.0	53.1
3.000	50.00	5.55	100.025	0.115	0.0	0.0	0.0	1.46	317.0	15.6
3.001	50.00	5.88	99.818	0.198	0.0	0.0	0.0	1.28	277.0	26.8
2.003	50.00	6.70	99.734	0.597	0.0	0.0	0.0	2.61	564.0	80.8
2.004	50.00	6.90	99.525	0.739	0.0	0.0	0.0	1.45	313.1	100.1
2.005	50.00	7.12	99.453	0.877	0.0	0.0	0.0	0.99	214.8	118.8
2.006	50.00	7.27	99.426	1.025	0.0	0.0	0.0	1.91	413.9	138.8
1.009	50.00	8.01	99.300	1.709	0.0	0.0	0.0	0.94	204.1	231.5
1.010	50.00	8.44	99.150	1.917	0.0	0.0	0.0	1.36	383.9	259.6
1.011	50.00	8.61	99.040	1.964	0.0	0.0	0.0	3.17	895.9	266.0
4.000	50.00	5.96	99.040	0.121	0.0	0.0	0.0	1.01	71.7	16.4
1.012	50.00	8.65	98.494	2.223	0.0	0.0	0.0	3.31	935.2	301.0
1.013	50.00	8.76	98.370	2.272	0.0	0.0	0.0	3.12	882.0	307.7
1.014	50.00	8.84	98.020	2.326	0.0	0.0	0.0	2.68	756.5	315.0
1.015	50.00	9.10	97.860	2.359	0.0	0.0	0.0	2.44	690.8	319.4
1.016	50.00	9.31	97.480	2.464	0.0	0.0	0.0	3.73	1054.8	333.6

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Online Controls for Surface Network 8

Hydro-Brake® Optimum Manhole: S8052 Control Chamber, DS/PN: 1.020, Volume (m³): 16.4

Unit Reference	MD-SHE-0148-1130-1400-1130
Design Head (m)	1.400
Design Flow (l/s)	11.3
Flush-Flo™	Calculated
Objective	Minimise upstream storage
Application	Surface
Sump Available	Yes
Diameter (mm)	148
Invert Level (m)	96.200
Minimum Outlet Pipe Diameter (mm)	225
Suggested Manhole Diameter (mm)	1200

Control Points	Head (m)	Flow (l/s)
Design Point (Calculated)	1.400	11.3
Flush-Flo™	0.414	11.3
Kick-Flo®	0.889	9.1
Mean Flow over Head Range	-	9.8

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

Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)
0.100	5.3	1.200	10.5	3.000	16.2	7.000	24.3
0.200	10.4	1.400	11.3	3.500	17.5	7.500	25.2
0.300	11.1	1.600	12.0	4.000	18.6	8.000	26.0
0.400	11.3	1.800	12.7	4.500	19.7	8.500	26.7
0.500	11.2	2.000	13.4	5.000	20.7	9.000	27.5
0.600	11.0	2.200	14.0	5.500	21.7	9.500	28.2
0.800	10.1	2.400	14.6	6.000	22.6		
1.000	9.6	2.600	15.2	6.500	23.5		

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Storage Structures for Surface Network 8

Swale Manhole: S8115 Jelson, DS/PN: 3.000

Warning:- Volume should always be included unless the upstream pipe is being used for storage and/or as a carrier

Infiltration Coefficient Base (m/hr)	0.00000	Length (m)	20.0
Infiltration Coefficient Side (m/hr)	0.00000	Side Slope (1:X)	4.0
Safety Factor	2.0	Slope (1:X)	0.0
Porosity	1.00	Cap Volume Depth (m)	0.000
Invert Level (m)	100.300	Cap Infiltration Depth (m)	0.000
Base Width (m)	1.0	Include Swale Volume	Yes

Tank or Pond Manhole: S8052 Control Chamber, DS/PN: 1.020

Invert Level (m) 96.200

Depth (m)	Area (m ²)	Depth (m)	Area (m ²)	Depth (m)	Area (m ²)	Depth (m)	Area (m ²)
0.000	716.5	0.500	953.7	1.000	1216.9	1.500	1505.2
0.100	761.2	0.600	1004.3	1.100	1272.5	1.600	1565.8
0.200	807.8	0.700	1056.0	1.200	1329.2	1.700	1627.5
0.300	855.5	0.800	1108.6	1.300	1386.8		
0.400	904.1	0.900	1162.2	1.400	1445.5		

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Summary Wizard of 15 minute 1 year Summer I+0% for Surface Network 8

PN	US/MH Name	Half Drain Time (mins)	Pipe Flow (l/s)	Status
1.000	S8104 Jelson		21.9	OK
1.001	S8172 Jelson		30.8	OK
1.002	S8105 Jelson		34.4	OK
1.003	S8107 Jelson		35.8	OK
1.004	S8171 Jelson		63.6	OK
1.005	S8170 Jelson		63.9	OK
1.006	S8009 - Jelson Connection		64.1	OK
1.007	S8010		69.3	OK
1.008	S8011		65.1	OK
2.000	S8108 Jelson		24.0	OK
2.001	S8109 Jelson		35.9	OK
2.002	S8110 Jelson		40.4	OK
3.000	S8115 Jelson	5	15.0	OK
3.001	S8116 Jelson		23.1	OK
2.003	S8111 Jelson		64.3	OK
2.004	S8112 Jelson		76.9	OK
2.005	S8113 Jelson		88.5	OK
2.006	S8022 Jelson Connection		100.2	OK
1.009	S8023		165.4	OK
1.010	S8025		178.4	OK
1.011	S8026		181.6	OK

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Summary Wizard of 30 minute 1 year Summer I+0% for Surface Network 8

Simulation Criteria

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

Number of Input Hydrographs 0 Number of Storage Structures 2
 Number of Online Controls 1 Number of Time/Area Diagrams 0
 Number of Offline Controls 0 Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model FSR Ratio R 0.404
 Region England and Wales Cv (Summer) 0.750
 M5-60 (mm) 19.900 Cv (Winter) 0.840

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

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

PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded	Flow / Cap.	Overflow (l/s)
			Level (m)	Depth (m)	Volume (m³)		
1.000	S8104 Jelson	21	102.205	-0.211	0.000	0.19	
1.001	S8172 Jelson	22	101.889	-0.200	0.000	0.25	
1.002	S8105 Jelson	23	101.644	-0.192	0.000	0.28	
1.003	S8107 Jelson	23	101.171	-0.350	0.000	0.11	
1.004	S8171 Jelson	23	100.923	-0.333	0.000	0.15	
1.005	S8170 Jelson	23	100.355	-0.311	0.000	0.21	
1.006	S8009 - Jelson Connection	23	100.016	-0.392	0.000	0.15	
1.007	S8010	25	99.771	-0.324	0.000	0.27	
1.008	S8011	25	99.710	-0.275	0.000	0.20	
2.000	S8108 Jelson	21	100.649	-0.206	0.000	0.21	
2.001	S8109 Jelson	24	100.284	-0.155	0.000	0.44	
2.002	S8110 Jelson	24	100.235	-0.051	0.000	1.00	
3.000	S8115 Jelson	21	100.099	-0.451	0.000	0.05	
3.001	S8116 Jelson	23	99.938	-0.405	0.000	0.10	
2.003	S8111 Jelson	23	99.883	-0.376	0.000	0.18	
2.004	S8112 Jelson	25	99.807	-0.243	0.000	0.32	
2.005	S8113 Jelson	25	99.788	-0.190	0.000	0.73	
2.006	S8022 Jelson Connection	25	99.719	-0.232	0.000	0.36	
1.009	S8023	25	99.694	-0.131	0.000	0.90	
1.010	S8025	26	99.468	-0.282	0.000	0.55	
1.011	S8026	26	99.239	-0.401	0.000	0.24	

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Summary Wizard of 30 minute 1 year Summer I+0% for Surface Network 8

PN	US/MH Name	Half Drain Time (mins)	Pipe Flow (l/s)	Status
1.000	S8104 Jelson		20.0	OK
1.001	S8172 Jelson		28.4	OK
1.002	S8105 Jelson		31.6	OK
1.003	S8107 Jelson		32.6	OK
1.004	S8171 Jelson		59.1	OK
1.005	S8170 Jelson		59.0	OK
1.006	S8009 - Jelson Connection		59.3	OK
1.007	S8010		65.1	OK
1.008	S8011		62.4	OK
2.000	S8108 Jelson		21.9	OK
2.001	S8109 Jelson		33.7	OK
2.002	S8110 Jelson		40.4	OK
3.000	S8115 Jelson	6	13.6	OK
3.001	S8116 Jelson		21.6	OK
2.003	S8111 Jelson		62.3	OK
2.004	S8112 Jelson		75.0	OK
2.005	S8113 Jelson		87.0	OK
2.006	S8022 Jelson Connection		98.4	OK
1.009	S8023		161.6	OK
1.010	S8025		175.1	OK
1.011	S8026		177.5	OK

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<u>Summary Wizard of 60 minute 1 year Summer I+0% for Surface Network 8</u>																																																																																																																																																																					
<u>Simulation Criteria</u>																																																																																																																																																																					
Areal Reduction Factor		1.000		Additional Flow - % of Total Flow		0.000																																																																																																																																																															
Hot Start (mins)		0		MADD Factor * 10m³/ha Storage		0.000																																																																																																																																																															
Hot Start Level (mm)		0		Inlet 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		2																																																																																																																																																															
Number of Online Controls		1		Number of Time/Area Diagrams		0																																																																																																																																																															
Number of Offline Controls		0		Number of Real Time Controls		0																																																																																																																																																															
<u>Synthetic Rainfall Details</u>																																																																																																																																																																					
Rainfall Model		FSR		Ratio R		0.404																																																																																																																																																															
Region England and Wales Cv (Summer)		0.750																																																																																																																																																																			
M5-60 (mm)		19.900		Cv (Winter)		0.840																																																																																																																																																															
Margin for Flood Risk Warning (mm)		300.0		DVD Status		OFF																																																																																																																																																															
Analysis Timestep		Fine		Inertia Status		OFF																																																																																																																																																															
DTS Status		ON																																																																																																																																																																			
Profile(s)		Summer and Winter																																																																																																																																																																			
Duration(s) (mins)		15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440																																																																																																																																																																			
Return Period(s) (years)		1, 30, 100																																																																																																																																																																			
Climate Change (%)		0, 0, 40																																																																																																																																																																			
<table><tr><th rowspan="2">PN</th><th rowspan="2">US/MH Name</th><th rowspan="2">Storm Rank</th><th>Water Level</th><th>Surcharged Depth</th><th>Flooded Volume</th><th>Flow / Overflow</th></tr><tr><th>(m)</th><th>(m)</th><th>(m³)</th><th>Cap. (l/s)</th></tr><tr><td>1.000</td><td>S8104 Jelson</td><td>28</td><td>102.191</td><td>-0.225</td><td>0.000</td><td>0.14</td></tr><tr><td>1.001</td><td>S8172 Jelson</td><td>28</td><td>101.876</td><td>-0.213</td><td>0.000</td><td>0.18</td></tr><tr><td>1.002</td><td>S8105 Jelson</td><td>28</td><td>101.630</td><td>-0.206</td><td>0.000</td><td>0.21</td></tr><tr><td>1.003</td><td>S8107 Jelson</td><td>28</td><td>101.160</td><td>-0.361</td><td>0.000</td><td>0.08</td></tr><tr><td>1.004</td><td>S8171 Jelson</td><td>30</td><td>100.909</td><td>-0.347</td><td>0.000</td><td>0.12</td></tr><tr><td>1.005</td><td>S8170 Jelson</td><td>30</td><td>100.337</td><td>-0.329</td><td>0.000</td><td>0.16</td></tr><tr><td>1.006</td><td>S8009 - Jelson Connection</td><td>30</td><td>100.000</td><td>-0.408</td><td>0.000</td><td>0.11</td></tr><tr><td>1.007</td><td>S8010</td><td>30</td><td>99.741</td><td>-0.354</td><td>0.000</td><td>0.21</td></tr><tr><td>1.008</td><td>S8011</td><td>31</td><td>99.661</td><td>-0.324</td><td>0.000</td><td>0.17</td></tr><tr><td>2.000</td><td>S8108 Jelson</td><td>28</td><td>100.635</td><td>-0.220</td><td>0.000</td><td>0.15</td></tr><tr><td>2.001</td><td>S8109 Jelson</td><td>28</td><td>100.260</td><td>-0.179</td><td>0.000</td><td>0.34</td></tr><tr><td>2.002</td><td>S8110 Jelson</td><td>30</td><td>100.168</td><td>-0.118</td><td>0.000</td><td>0.80</td></tr><tr><td>3.000</td><td>S8115 Jelson</td><td>28</td><td>100.089</td><td>-0.461</td><td>0.000</td><td>0.03</td></tr><tr><td>3.001</td><td>S8116 Jelson</td><td>30</td><td>99.923</td><td>-0.420</td><td>0.000</td><td>0.07</td></tr><tr><td>2.003</td><td>S8111 Jelson</td><td>30</td><td>99.865</td><td>-0.394</td><td>0.000</td><td>0.14</td></tr><tr><td>2.004</td><td>S8112 Jelson</td><td>30</td><td>99.768</td><td>-0.282</td><td>0.000</td><td>0.25</td></tr><tr><td>2.005</td><td>S8113 Jelson</td><td>30</td><td>99.748</td><td>-0.230</td><td>0.000</td><td>0.59</td></tr><tr><td>2.006</td><td>S8022 Jelson Connection</td><td>30</td><td>99.669</td><td>-0.282</td><td>0.000</td><td>0.30</td></tr><tr><td>1.009</td><td>S8023</td><td>31</td><td>99.642</td><td>-0.183</td><td>0.000</td><td>0.75</td></tr><tr><td>1.010</td><td>S8025</td><td>31</td><td>99.438</td><td>-0.312</td><td>0.000</td><td>0.46</td></tr><tr><td>1.011</td><td>S8026</td><td>31</td><td>99.224</td><td>-0.416</td><td>0.000</td><td>0.20</td></tr></table>								PN	US/MH Name	Storm Rank	Water Level	Surcharged Depth	Flooded Volume	Flow / Overflow	(m)	(m)	(m³)	Cap. (l/s)	1.000	S8104 Jelson	28	102.191	-0.225	0.000	0.14	1.001	S8172 Jelson	28	101.876	-0.213	0.000	0.18	1.002	S8105 Jelson	28	101.630	-0.206	0.000	0.21	1.003	S8107 Jelson	28	101.160	-0.361	0.000	0.08	1.004	S8171 Jelson	30	100.909	-0.347	0.000	0.12	1.005	S8170 Jelson	30	100.337	-0.329	0.000	0.16	1.006	S8009 - Jelson Connection	30	100.000	-0.408	0.000	0.11	1.007	S8010	30	99.741	-0.354	0.000	0.21	1.008	S8011	31	99.661	-0.324	0.000	0.17	2.000	S8108 Jelson	28	100.635	-0.220	0.000	0.15	2.001	S8109 Jelson	28	100.260	-0.179	0.000	0.34	2.002	S8110 Jelson	30	100.168	-0.118	0.000	0.80	3.000	S8115 Jelson	28	100.089	-0.461	0.000	0.03	3.001	S8116 Jelson	30	99.923	-0.420	0.000	0.07	2.003	S8111 Jelson	30	99.865	-0.394	0.000	0.14	2.004	S8112 Jelson	30	99.768	-0.282	0.000	0.25	2.005	S8113 Jelson	30	99.748	-0.230	0.000	0.59	2.006	S8022 Jelson Connection	30	99.669	-0.282	0.000	0.30	1.009	S8023	31	99.642	-0.183	0.000	0.75	1.010	S8025	31	99.438	-0.312	0.000	0.46	1.011	S8026	31	99.224	-0.416	0.000	0.20
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Dean Court 85 Adllington Road Wilmslow SK9 1BT		
Date 11/08/2025 14:06 File PH7A - STORM. 11.08.25.MDX	Designed by d_southa Checked by	
Elstree Computing Ltd	Network 2020.1.3	

Summary Wizard of 60 minute 1 year Summer I+0% for Surface Network 8

PN	US/MH Name	Half Drain Time (mins)	Pipe Flow (l/s)	Status
1.000	S8104 Jelson		14.4	OK
1.001	S8172 Jelson		20.9	OK
1.002	S8105 Jelson		23.6	OK
1.003	S8107 Jelson		24.6	OK
1.004	S8171 Jelson		45.8	OK
1.005	S8170 Jelson		45.9	OK
1.006	S8009 - Jelson Connection		46.0	OK
1.007	S8010		50.9	OK
1.008	S8011		50.8	OK
2.000	S8108 Jelson		15.7	OK
2.001	S8109 Jelson		25.8	OK
2.002	S8110 Jelson		32.4	OK
3.000	S8115 Jelson	12	9.8	OK
3.001	S8116 Jelson		16.5	OK
2.003	S8111 Jelson		48.9	OK
2.004	S8112 Jelson		59.9	OK
2.005	S8113 Jelson		70.7	OK
2.006	S8022 Jelson Connection		81.6	OK
1.009	S8023		133.7	OK
1.010	S8025		147.1	OK
1.011	S8026		150.7	OK

JS Bloor (Wilmslow) Ltd			Page 14																																																																																																																																																																		
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<u>Simulation Criteria</u>																																																																																																																																																																					
Areal Reduction Factor 1.000		Additional Flow - % of Total Flow 0.000																																																																																																																																																																			
Hot Start (mins) 0		MADD Factor * 10m³/ha Storage 0.000																																																																																																																																																																			
Hot Start Level (mm) 0		Inlet 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 2																																																																																																																																																																					
Number of Online Controls 1 Number of Time/Area Diagrams 0																																																																																																																																																																					
Number of Offline Controls 0 Number of Real Time Controls 0																																																																																																																																																																					
<u>Synthetic Rainfall Details</u>																																																																																																																																																																					
Rainfall Model		FSR	Ratio R 0.404																																																																																																																																																																		
Region England and Wales		Cv (Summer)	0.750																																																																																																																																																																		
M5-60 (mm)		19.900	Cv (Winter) 0.840																																																																																																																																																																		
Margin for Flood Risk Warning (mm) 300.0		DVD Status OFF																																																																																																																																																																			
Analysis Timestep		Fine	Inertia Status OFF																																																																																																																																																																		
DTS Status		ON																																																																																																																																																																			
Profile(s) Summer and Winter																																																																																																																																																																					
Duration(s) (mins)		15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440																																																																																																																																																																			
Return Period(s) (years)		1, 30, 100																																																																																																																																																																			
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Summary Wizard of 120 minute 1 year Summer I+0% for Surface Network 8

PN	US/MH Name	Half Drain Time (mins)	Pipe Flow (l/s)	Status
1.000	S8104 Jelson		9.6	OK
1.001	S8172 Jelson		14.3	OK
1.002	S8105 Jelson		16.0	OK
1.003	S8107 Jelson		16.6	OK
1.004	S8171 Jelson		31.4	OK
1.005	S8170 Jelson		31.2	OK
1.006	S8009 - Jelson Connection		31.2	OK
1.007	S8010		34.4	OK
1.008	S8011		34.7	OK
2.000	S8108 Jelson		10.6	OK
2.001	S8109 Jelson		17.5	OK
2.002	S8110 Jelson		22.2	OK
3.000	S8115 Jelson	16	6.6	OK
3.001	S8116 Jelson		11.3	OK
2.003	S8111 Jelson		33.7	OK
2.004	S8112 Jelson		41.6	OK
2.005	S8113 Jelson		48.7	OK
2.006	S8022 Jelson Connection		56.4	OK
1.009	S8023		95.0	OK
1.010	S8025		106.0	OK
1.011	S8026		108.4	OK

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Dean Court 85 Adllington Road Wilmslow SK9 1BT				
Date 11/08/2025 14:06 File PH7A - STORM. 11.08.25.MDX		Designed by d_southa Checked by		
Elstree Computing Ltd		Network 2020.1.3		
<u>Summary Wizard of 180 minute 1 year Summer I+0% for Surface Network 8</u>				
PN	US/MH Name	Half Drain Time (mins)	Pipe Flow (l/s)	Status
1.000	S8104 Jelson		7.7	OK
1.001	S8172 Jelson		11.3	OK
1.002	S8105 Jelson		12.7	OK
1.003	S8107 Jelson		13.1	OK
1.004	S8171 Jelson		24.6	OK
1.005	S8170 Jelson		24.6	OK
1.006	S8009 - Jelson Connection		24.7	OK
1.007	S8010		27.8	OK
1.008	S8011		28.7	OK
2.000	S8108 Jelson		8.5	OK
2.001	S8109 Jelson		13.9	OK
2.002	S8110 Jelson		17.6	OK
3.000	S8115 Jelson	18	5.3	OK
3.001	S8116 Jelson		9.0	OK
2.003	S8111 Jelson		27.0	OK
2.004	S8112 Jelson		33.4	OK
2.005	S8113 Jelson		39.6	OK
2.006	S8022 Jelson Connection		46.0	OK
1.009	S8023		75.8	OK
1.010	S8025		84.4	OK
1.011	S8026		86.7	OK
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JS Bloor (Wilmslow) Ltd			Page 20																																																																																																																																																											
Dean Court 85 Adlington Road Wilmslow SK9 1BT																																																																																																																																																														
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Areal Reduction Factor 1.000		Additional Flow - % of Total Flow 0.000																																																																																																																																																												
Hot Start (mins) 0		MADD Factor * 10m³/ha Storage 0.000																																																																																																																																																												
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Manhole Headloss Coeff (Global) 0.500		Flow per Person per Day (l/per/day) 0.000																																																																																																																																																												
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Rainfall Model		FSR	Ratio R 0.404																																																																																																																																																											
Region England and Wales		Cv (Summer)	0.750																																																																																																																																																											
M5-60 (mm)		19.900	Cv (Winter) 0.840																																																																																																																																																											
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Duration(s) (mins)		15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440																																																																																																																																																												
Return Period(s) (years)		1, 30, 100																																																																																																																																																												
Climate Change (%)		0, 0, 40																																																																																																																																																												
<table><tr><th>PN</th><th>US/MH Name</th><th>Storm Rank</th><th>Water Level (m)</th><th>Surcharged Depth (m)</th><th>Flooded Volume (m³)</th><th>Flow / Overflow Cap. (l/s)</th></tr><tr><td>1.000</td><td>S8104 Jelson</td><td>48</td><td>102.164</td><td>-0.252</td><td>0.000</td><td>0.06</td></tr><tr><td>1.001</td><td>S8172 Jelson</td><td>48</td><td>101.846</td><td>-0.243</td><td>0.000</td><td>0.08</td></tr><tr><td>1.002</td><td>S8105 Jelson</td><td>48</td><td>101.598</td><td>-0.238</td><td>0.000</td><td>0.09</td></tr><tr><td>1.003</td><td>S8107 Jelson</td><td>48</td><td>101.127</td><td>-0.394</td><td>0.000</td><td>0.04</td></tr><tr><td>1.004</td><td>S8171 Jelson</td><td>48</td><td>100.873</td><td>-0.383</td><td>0.000</td><td>0.05</td></tr><tr><td>1.005</td><td>S8170 Jelson</td><td>48</td><td>100.296</td><td>-0.370</td><td>0.000</td><td>0.07</td></tr><tr><td>1.006</td><td>S8009 - Jelson Connection</td><td>48</td><td>99.959</td><td>-0.449</td><td>0.000</td><td>0.05</td></tr><tr><td>1.007</td><td>S8010</td><td>48</td><td>99.679</td><td>-0.416</td><td>0.000</td><td>0.09</td></tr><tr><td>1.008</td><td>S8011</td><td>48</td><td>99.566</td><td>-0.419</td><td>0.000</td><td>0.08</td></tr><tr><td>2.000</td><td>S8108 Jelson</td><td>48</td><td>100.606</td><td>-0.249</td><td>0.000</td><td>0.07</td></tr><tr><td>2.001</td><td>S8109 Jelson</td><td>48</td><td>100.217</td><td>-0.222</td><td>0.000</td><td>0.15</td></tr><tr><td>2.002</td><td>S8110 Jelson</td><td>48</td><td>100.068</td><td>-0.218</td><td>0.000</td><td>0.37</td></tr><tr><td>3.000</td><td>S8115 Jelson</td><td>48</td><td>100.064</td><td>-0.486</td><td>0.000</td><td>0.02</td></tr><tr><td>3.001</td><td>S8116 Jelson</td><td>48</td><td>99.884</td><td>-0.459</td><td>0.000</td><td>0.03</td></tr><tr><td>2.003</td><td>S8111 Jelson</td><td>48</td><td>99.821</td><td>-0.438</td><td>0.000</td><td>0.06</td></tr><tr><td>2.004</td><td>S8112 Jelson</td><td>48</td><td>99.670</td><td>-0.380</td><td>0.000</td><td>0.12</td></tr><tr><td>2.005</td><td>S8113 Jelson</td><td>48</td><td>99.642</td><td>-0.336</td><td>0.000</td><td>0.27</td></tr><tr><td>2.006</td><td>S8022 Jelson Connection</td><td>48</td><td>99.565</td><td>-0.386</td><td>0.000</td><td>0.14</td></tr><tr><td>1.009</td><td>S8023</td><td>48</td><td>99.518</td><td>-0.307</td><td>0.000</td><td>0.36</td></tr><tr><td>1.010</td><td>S8025</td><td>49</td><td>99.341</td><td>-0.409</td><td>0.000</td><td>0.22</td></tr><tr><td>1.011</td><td>S8026</td><td>50</td><td>99.166</td><td>-0.474</td><td>0.000</td><td>0.10</td></tr></table>					PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Overflow Cap. (l/s)	1.000	S8104 Jelson	48	102.164	-0.252	0.000	0.06	1.001	S8172 Jelson	48	101.846	-0.243	0.000	0.08	1.002	S8105 Jelson	48	101.598	-0.238	0.000	0.09	1.003	S8107 Jelson	48	101.127	-0.394	0.000	0.04	1.004	S8171 Jelson	48	100.873	-0.383	0.000	0.05	1.005	S8170 Jelson	48	100.296	-0.370	0.000	0.07	1.006	S8009 - Jelson Connection	48	99.959	-0.449	0.000	0.05	1.007	S8010	48	99.679	-0.416	0.000	0.09	1.008	S8011	48	99.566	-0.419	0.000	0.08	2.000	S8108 Jelson	48	100.606	-0.249	0.000	0.07	2.001	S8109 Jelson	48	100.217	-0.222	0.000	0.15	2.002	S8110 Jelson	48	100.068	-0.218	0.000	0.37	3.000	S8115 Jelson	48	100.064	-0.486	0.000	0.02	3.001	S8116 Jelson	48	99.884	-0.459	0.000	0.03	2.003	S8111 Jelson	48	99.821	-0.438	0.000	0.06	2.004	S8112 Jelson	48	99.670	-0.380	0.000	0.12	2.005	S8113 Jelson	48	99.642	-0.336	0.000	0.27	2.006	S8022 Jelson Connection	48	99.565	-0.386	0.000	0.14	1.009	S8023	48	99.518	-0.307	0.000	0.36	1.010	S8025	49	99.341	-0.409	0.000	0.22	1.011	S8026	50	99.166	-0.474	0.000	0.10
PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Overflow Cap. (l/s)																																																																																																																																																								
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Dean Court 85 Adllington Road Wilmslow SK9 1BT				
Date 11/08/2025 14:06 File PH7A - STORM. 11.08.25.MDX		Designed by d_southa Checked by		
Elstree Computing Ltd		Network 2020.1.3		
<u>Summary Wizard of 240 minute 1 year Summer I+0% for Surface Network 8</u>				
		Half Drain	Pipe	
	US/MH	Time	Flow	
PN	Name	(mins)	(l/s)	Status
1.000	S8104 Jelson		6.3	OK
1.001	S8172 Jelson		9.4	OK
1.002	S8105 Jelson		10.6	OK
1.003	S8107 Jelson		11.0	OK
1.004	S8171 Jelson		20.7	OK
1.005	S8170 Jelson		20.7	OK
1.006	S8009 - Jelson Connection		20.7	OK
1.007	S8010		23.0	OK
1.008	S8011		23.6	OK
2.000	S8108 Jelson		7.0	OK
2.001	S8109 Jelson		11.5	OK
2.002	S8110 Jelson		14.7	OK
3.000	S8115 Jelson	24	4.4	OK
3.001	S8116 Jelson		7.5	OK
2.003	S8111 Jelson		22.4	OK
2.004	S8112 Jelson		27.7	OK
2.005	S8113 Jelson		32.7	OK
2.006	S8022 Jelson Connection		38.0	OK
1.009	S8023		63.8	OK
1.010	S8025		71.3	OK
1.011	S8026		73.0	OK
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Dean Court 85 Adlington Road Wilmslow SK9 1BT																																																																																																																																																																					
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<u>Summary Wizard of 360 minute 1 year Summer I+0% for Surface Network 8</u>																																																																																																																																																																					
<u>Simulation Criteria</u>																																																																																																																																																																					
Areal Reduction Factor		1.000		Additional Flow - % of Total Flow		0.000																																																																																																																																																															
Hot Start (mins)		0		MADD Factor * 10m³/ha Storage		0.000																																																																																																																																																															
Hot Start Level (mm)		0		Inlet 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		2																																																																																																																																																															
Number of Online Controls		1		Number of Time/Area Diagrams		0																																																																																																																																																															
Number of Offline Controls		0		Number of Real Time Controls		0																																																																																																																																																															
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Rainfall Model		FSR		Ratio R		0.404																																																																																																																																																															
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Margin for Flood Risk Warning (mm)		300.0		DVD Status		OFF																																																																																																																																																															
Analysis Timestep		Fine		Inertia Status		OFF																																																																																																																																																															
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Return Period(s) (years)		1, 30, 100																																																																																																																																																																			
Climate Change (%)		0, 0, 40																																																																																																																																																																			
<table><tr><th rowspan="2">PN</th><th rowspan="2">US/MH Name</th><th rowspan="2">Storm Rank</th><th>Water Level</th><th>Surcharged Depth</th><th>Flooded Volume</th><th>Flow / Overflow</th></tr><tr><th>(m)</th><th>(m)</th><th>(m³)</th><th>Cap. (l/s)</th></tr><tr><td>1.000</td><td>S8104 Jelson</td><td>55</td><td>102.157</td><td>-0.259</td><td>0.000</td><td>0.05</td></tr><tr><td>1.001</td><td>S8172 Jelson</td><td>55</td><td>101.837</td><td>-0.252</td><td>0.000</td><td>0.06</td></tr><tr><td>1.002</td><td>S8105 Jelson</td><td>55</td><td>101.588</td><td>-0.248</td><td>0.000</td><td>0.07</td></tr><tr><td>1.003</td><td>S8107 Jelson</td><td>55</td><td>101.121</td><td>-0.400</td><td>0.000</td><td>0.03</td></tr><tr><td>1.004</td><td>S8171 Jelson</td><td>55</td><td>100.864</td><td>-0.392</td><td>0.000</td><td>0.04</td></tr><tr><td>1.005</td><td>S8170 Jelson</td><td>55</td><td>100.283</td><td>-0.383</td><td>0.000</td><td>0.05</td></tr><tr><td>1.006</td><td>S8009 - Jelson Connection</td><td>55</td><td>99.948</td><td>-0.459</td><td>0.000</td><td>0.04</td></tr><tr><td>1.007</td><td>S8010</td><td>55</td><td>99.662</td><td>-0.433</td><td>0.000</td><td>0.07</td></tr><tr><td>1.008</td><td>S8011</td><td>55</td><td>99.545</td><td>-0.440</td><td>0.000</td><td>0.06</td></tr><tr><td>2.000</td><td>S8108 Jelson</td><td>55</td><td>100.598</td><td>-0.257</td><td>0.000</td><td>0.05</td></tr><tr><td>2.001</td><td>S8109 Jelson</td><td>55</td><td>100.206</td><td>-0.233</td><td>0.000</td><td>0.11</td></tr><tr><td>2.002</td><td>S8110 Jelson</td><td>55</td><td>100.045</td><td>-0.241</td><td>0.000</td><td>0.28</td></tr><tr><td>3.000</td><td>S8115 Jelson</td><td>55</td><td>100.054</td><td>-0.496</td><td>0.000</td><td>0.01</td></tr><tr><td>3.001</td><td>S8116 Jelson</td><td>55</td><td>99.876</td><td>-0.467</td><td>0.000</td><td>0.02</td></tr><tr><td>2.003</td><td>S8111 Jelson</td><td>55</td><td>99.808</td><td>-0.451</td><td>0.000</td><td>0.05</td></tr><tr><td>2.004</td><td>S8112 Jelson</td><td>55</td><td>99.646</td><td>-0.404</td><td>0.000</td><td>0.09</td></tr><tr><td>2.005</td><td>S8113 Jelson</td><td>55</td><td>99.615</td><td>-0.363</td><td>0.000</td><td>0.21</td></tr><tr><td>2.006</td><td>S8022 Jelson Connection</td><td>55</td><td>99.541</td><td>-0.410</td><td>0.000</td><td>0.11</td></tr><tr><td>1.009</td><td>S8023</td><td>55</td><td>99.485</td><td>-0.340</td><td>0.000</td><td>0.27</td></tr><tr><td>1.010</td><td>S8025</td><td>55</td><td>99.315</td><td>-0.435</td><td>0.000</td><td>0.17</td></tr><tr><td>1.011</td><td>S8026</td><td>55</td><td>99.148</td><td>-0.492</td><td>0.000</td><td>0.07</td></tr></table>								PN	US/MH Name	Storm Rank	Water Level	Surcharged Depth	Flooded Volume	Flow / Overflow	(m)	(m)	(m³)	Cap. (l/s)	1.000	S8104 Jelson	55	102.157	-0.259	0.000	0.05	1.001	S8172 Jelson	55	101.837	-0.252	0.000	0.06	1.002	S8105 Jelson	55	101.588	-0.248	0.000	0.07	1.003	S8107 Jelson	55	101.121	-0.400	0.000	0.03	1.004	S8171 Jelson	55	100.864	-0.392	0.000	0.04	1.005	S8170 Jelson	55	100.283	-0.383	0.000	0.05	1.006	S8009 - Jelson Connection	55	99.948	-0.459	0.000	0.04	1.007	S8010	55	99.662	-0.433	0.000	0.07	1.008	S8011	55	99.545	-0.440	0.000	0.06	2.000	S8108 Jelson	55	100.598	-0.257	0.000	0.05	2.001	S8109 Jelson	55	100.206	-0.233	0.000	0.11	2.002	S8110 Jelson	55	100.045	-0.241	0.000	0.28	3.000	S8115 Jelson	55	100.054	-0.496	0.000	0.01	3.001	S8116 Jelson	55	99.876	-0.467	0.000	0.02	2.003	S8111 Jelson	55	99.808	-0.451	0.000	0.05	2.004	S8112 Jelson	55	99.646	-0.404	0.000	0.09	2.005	S8113 Jelson	55	99.615	-0.363	0.000	0.21	2.006	S8022 Jelson Connection	55	99.541	-0.410	0.000	0.11	1.009	S8023	55	99.485	-0.340	0.000	0.27	1.010	S8025	55	99.315	-0.435	0.000	0.17	1.011	S8026	55	99.148	-0.492	0.000	0.07
PN	US/MH Name	Storm Rank	Water Level	Surcharged Depth	Flooded Volume	Flow / Overflow																																																																																																																																																															
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1.002	S8105 Jelson	55	101.588	-0.248	0.000	0.07																																																																																																																																																															
1.003	S8107 Jelson	55	101.121	-0.400	0.000	0.03																																																																																																																																																															
1.004	S8171 Jelson	55	100.864	-0.392	0.000	0.04																																																																																																																																																															
1.005	S8170 Jelson	55	100.283	-0.383	0.000	0.05																																																																																																																																																															
1.006	S8009 - Jelson Connection	55	99.948	-0.459	0.000	0.04																																																																																																																																																															
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Dean Court 85 Adllington Road Wilmslow SK9 1BT		
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Elstree Computing Ltd		Network 2020.1.3

Summary Wizard of 360 minute 1 year Summer I+0% for Surface Network 8

PN	US/MH Name	Half Drain Time (mins)	Pipe Flow (l/s)	Status
1.000	S8104 Jelson		4.8	OK
1.001	S8172 Jelson		7.1	OK
1.002	S8105 Jelson		8.0	OK
1.003	S8107 Jelson		8.3	OK
1.004	S8171 Jelson		15.6	OK
1.005	S8170 Jelson		15.6	OK
1.006	S8009 - Jelson Connection		15.5	OK
1.007	S8010		17.4	OK
1.008	S8011		18.0	OK
2.000	S8108 Jelson		5.2	OK
2.001	S8109 Jelson		8.6	OK
2.002	S8110 Jelson		11.1	OK
3.000	S8115 Jelson	36	3.3	OK
3.001	S8116 Jelson		5.6	OK
2.003	S8111 Jelson		16.9	OK
2.004	S8112 Jelson		21.0	OK
2.005	S8113 Jelson		24.8	OK
2.006	S8022 Jelson Connection		29.0	OK
1.009	S8023		48.0	OK
1.010	S8025		53.7	OK
1.011	S8026		54.8	OK

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Elstree Computing Ltd		Network 2020.1.3		
<u>Summary Wizard of 480 minute 1 year Summer I+0% for Surface Network 8</u>				
		Half Drain	Pipe	
	US/MH	Time	Flow	
PN	Name	(mins)	(l/s)	Status
1.000	S8104 Jelson		3.8	OK
1.001	S8172 Jelson		5.7	OK
1.002	S8105 Jelson		6.5	OK
1.003	S8107 Jelson		6.7	OK
1.004	S8171 Jelson		12.6	OK
1.005	S8170 Jelson		12.6	OK
1.006	S8009 - Jelson Connection		12.6	OK
1.007	S8010		14.1	OK
1.008	S8011		14.7	OK
2.000	S8108 Jelson		4.2	OK
2.001	S8109 Jelson		7.0	OK
2.002	S8110 Jelson		9.0	OK
3.000	S8115 Jelson	48	2.6	OK
3.001	S8116 Jelson		4.6	OK
2.003	S8111 Jelson		13.8	OK
2.004	S8112 Jelson		17.0	OK
2.005	S8113 Jelson		20.2	OK
2.006	S8022 Jelson Connection		23.6	OK
1.009	S8023		39.3	OK
1.010	S8025		44.0	OK
1.011	S8026		45.0	OK
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Summary Wizard of 600 minute 1 year Summer I+0% for Surface Network 8

PN	US/MH Name	Half Drain Time (mins)	Pipe Flow (l/s)	Status
1.000	S8104 Jelson		3.3	OK
1.001	S8172 Jelson		4.9	OK
1.002	S8105 Jelson		5.5	OK
1.003	S8107 Jelson		5.7	OK
1.004	S8171 Jelson		10.7	OK
1.005	S8170 Jelson		10.7	OK
1.006	S8009 - Jelson Connection		10.7	OK
1.007	S8010		12.0	OK
1.008	S8011		12.5	OK
2.000	S8108 Jelson		3.6	OK
2.001	S8109 Jelson		5.9	OK
2.002	S8110 Jelson		7.7	OK
3.000	S8115 Jelson	60	2.2	OK
3.001	S8116 Jelson		3.9	OK
2.003	S8111 Jelson		11.7	OK
2.004	S8112 Jelson		14.5	OK
2.005	S8113 Jelson		17.2	OK
2.006	S8022 Jelson Connection		20.1	OK
1.009	S8023		33.4	OK
1.010	S8025		37.4	OK
1.011	S8026		38.3	OK

JS Bloor (Wilmslow) Ltd			Page 32																																																																																																																																																																		
Dean Court 85 Adlington Road Wilmslow SK9 1BT																																																																																																																																																																					
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<u>Simulation Criteria</u>																																																																																																																																																																					
Areal Reduction Factor 1.000		Additional Flow - % of Total Flow 0.000																																																																																																																																																																			
Hot Start (mins) 0		MADD Factor * 10m³/ha Storage 0.000																																																																																																																																																																			
Hot Start Level (mm) 0		Inlet 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 2																																																																																																																																																																					
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Number of Offline Controls 0 Number of Real Time Controls 0																																																																																																																																																																					
<u>Synthetic Rainfall Details</u>																																																																																																																																																																					
Rainfall Model		FSR	Ratio R 0.404																																																																																																																																																																		
Region England and Wales		Cv (Summer)	0.750																																																																																																																																																																		
M5-60 (mm)		19.900	Cv (Winter) 0.840																																																																																																																																																																		
Margin for Flood Risk Warning (mm) 300.0		DVD Status OFF																																																																																																																																																																			
Analysis Timestep		Fine Inertia Status OFF																																																																																																																																																																			
DTS Status		ON																																																																																																																																																																			
Profile(s) Summer and Winter																																																																																																																																																																					
Duration(s) (mins)		15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440																																																																																																																																																																			
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1.002	S8105 Jelson	65	101.576	-0.260	0.000	0.04																																																																																																																																																															
1.003	S8107 Jelson	65	101.108	-0.413	0.000	0.02																																																																																																																																																															
1.004	S8171 Jelson	65	100.853	-0.403	0.000	0.02																																																																																																																																																															
1.005	S8170 Jelson	65	100.269	-0.397	0.000	0.03																																																																																																																																																															
1.006	S8009 - Jelson Connection	65	99.937	-0.471	0.000	0.02																																																																																																																																																															
1.007	S8010	65	99.640	-0.455	0.000	0.04																																																																																																																																																															
1.008	S8011	65	99.524	-0.461	0.000	0.04																																																																																																																																																															
2.000	S8108 Jelson	65	100.589	-0.266	0.000	0.03																																																																																																																																																															
2.001	S8109 Jelson	65	100.190	-0.249	0.000	0.07																																																																																																																																																															
2.002	S8110 Jelson	65	100.013	-0.273	0.000	0.17																																																																																																																																																															
3.000	S8115 Jelson	65	100.042	-0.508	0.000	0.01																																																																																																																																																															
3.001	S8116 Jelson	65	99.860	-0.483	0.000	0.01																																																																																																																																																															
2.003	S8111 Jelson	65	99.793	-0.466	0.000	0.03																																																																																																																																																															
2.004	S8112 Jelson	65	99.613	-0.437	0.000	0.05																																																																																																																																																															
2.005	S8113 Jelson	65	99.576	-0.402	0.000	0.13																																																																																																																																																															
2.006	S8022 Jelson Connection	65	99.512	-0.439	0.000	0.06																																																																																																																																																															
1.009	S8023	65	99.441	-0.384	0.000	0.16																																																																																																																																																															
1.010	S8025	65	99.277	-0.472	0.000	0.10																																																																																																																																																															
1.011	S8026	65	99.122	-0.518	0.000	0.05																																																																																																																																																															
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Summary Wizard of 720 minute 1 year Summer I+0% for Surface Network 8

PN	US/MH Name	Half Drain Time (mins)	Pipe Flow (l/s)	Status
1.000	S8104 Jelson		2.9	OK
1.001	S8172 Jelson		4.2	OK
1.002	S8105 Jelson		4.8	OK
1.003	S8107 Jelson		5.0	OK
1.004	S8171 Jelson		9.4	OK
1.005	S8170 Jelson		9.4	OK
1.006	S8009 - Jelson Connection		9.4	OK
1.007	S8010		10.5	OK
1.008	S8011		10.9	OK
2.000	S8108 Jelson		3.1	OK
2.001	S8109 Jelson		5.2	OK
2.002	S8110 Jelson		6.7	OK
3.000	S8115 Jelson	60	2.0	OK
3.001	S8116 Jelson		3.4	OK
2.003	S8111 Jelson		10.2	OK
2.004	S8112 Jelson		12.6	OK
2.005	S8113 Jelson		15.0	OK
2.006	S8022 Jelson Connection		17.5	OK
1.009	S8023		29.3	OK
1.010	S8025		32.8	OK
1.011	S8026		33.6	OK

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<u>Summary Wizard of 960 minute 1 year Summer I+0% for Surface Network 8</u>				
PN	US/MH Name	Half Drain Time (mins)	Pipe Flow (l/s)	Status
1.000	S8104 Jelson		2.3	OK
1.001	S8172 Jelson		3.4	OK
1.002	S8105 Jelson		3.9	OK
1.003	S8107 Jelson		4.0	OK
1.004	S8171 Jelson		7.6	OK
1.005	S8170 Jelson		7.6	OK
1.006	S8009 - Jelson Connection		7.6	OK
1.007	S8010		8.5	OK
1.008	S8011		8.8	OK
2.000	S8108 Jelson		2.6	OK
2.001	S8109 Jelson		4.2	OK
2.002	S8110 Jelson		5.4	OK
3.000	S8115 Jelson	80	1.6	OK
3.001	S8116 Jelson		2.7	OK
2.003	S8111 Jelson		8.3	OK
2.004	S8112 Jelson		10.2	OK
2.005	S8113 Jelson		12.2	OK
2.006	S8022 Jelson Connection		14.2	OK
1.009	S8023		23.7	OK
1.010	S8025		26.6	OK
1.011	S8026		27.2	OK
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Summary Wizard of 1440 minute 1 year Summer I+0% for Surface Network 8

PN	US/MH Name	Half Drain Time (mins)	Pipe	Status
			Flow (l/s)	
1.000	S8104	Jelson	1.7	OK
1.001	S8172	Jelson	2.6	OK
1.002	S8105	Jelson	2.9	OK
1.003	S8107	Jelson	3.0	OK
1.004	S8171	Jelson	5.6	OK
1.005	S8170	Jelson	5.6	OK
1.006	S8009 -	Jelson Connection	5.6	OK
1.007		S8010	6.3	OK
1.008		S8011	6.6	OK
2.000	S8108	Jelson	1.9	OK
2.001	S8109	Jelson	3.1	OK
2.002	S8110	Jelson	4.0	OK
3.000	S8115	Jelson	120 1.2	OK
3.001	S8116	Jelson	2.0	OK
2.003	S8111	Jelson	6.1	OK
2.004	S8112	Jelson	7.6	OK
2.005	S8113	Jelson	9.0	OK
2.006	S8022	Jelson Connection	10.6	OK
1.009		S8023	17.6	OK
1.010		S8025	19.8	OK
1.011		S8026	20.2	OK

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<u>Simulation Criteria</u>																																																																																																																																																														
Areal Reduction Factor 1.000		Additional Flow - % of Total Flow 0.000																																																																																																																																																												
Hot Start (mins) 0		MADD Factor * 10m³/ha Storage 0.000																																																																																																																																																												
Hot Start Level (mm) 0		Inlet 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 2																																																																																																																																																												
Number of Online Controls 1		Number of Time/Area Diagrams 0																																																																																																																																																												
Number of Offline Controls 0		Number of Real Time Controls 0																																																																																																																																																												
<u>Synthetic Rainfall Details</u>																																																																																																																																																														
Rainfall Model FSR		Ratio R 0.404																																																																																																																																																												
Region England and Wales Cv (Summer) 0.750																																																																																																																																																														
M5-60 (mm) 19.900		Cv (Winter) 0.840																																																																																																																																																												
Margin for Flood Risk Warning (mm) 300.0		DVD Status OFF																																																																																																																																																												
Analysis Timestep Fine		Inertia Status OFF																																																																																																																																																												
DTS Status ON																																																																																																																																																														
Profile(s)		Summer and Winter																																																																																																																																																												
Duration(s) (mins)		15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440																																																																																																																																																												
Return Period(s) (years)		1, 30, 100																																																																																																																																																												
Climate Change (%)		0, 0, 40																																																																																																																																																												
<table><tr><th>PN</th><th>US/MH Name</th><th>Storm Rank</th><th>Water Level (m)</th><th>Surcharged Depth (m)</th><th>Flooded Volume (m³)</th><th>Flow / Overflow Cap. (l/s)</th></tr><tr><td>1.000</td><td>S8104 Jelson</td><td>7</td><td>102.271</td><td>-0.145</td><td>0.000</td><td>0.52</td></tr><tr><td>1.001</td><td>S8172 Jelson</td><td>7</td><td>101.980</td><td>-0.109</td><td>0.000</td><td>0.72</td></tr><tr><td>1.002</td><td>S8105 Jelson</td><td>7</td><td>101.749</td><td>-0.087</td><td>0.000</td><td>0.83</td></tr><tr><td>1.003</td><td>S8107 Jelson</td><td>7</td><td>101.252</td><td>-0.269</td><td>0.000</td><td>0.33</td></tr><tr><td>1.004</td><td>S8171 Jelson</td><td>7</td><td>101.030</td><td>-0.226</td><td>0.000</td><td>0.48</td></tr><tr><td>1.005</td><td>S8170 Jelson</td><td>8</td><td>100.486</td><td>-0.180</td><td>0.000</td><td>0.65</td></tr><tr><td>1.006</td><td>S8009 - Jelson Connection</td><td>8</td><td>100.362</td><td>-0.045</td><td>0.000</td><td>0.42</td></tr><tr><td>1.007</td><td>S8010</td><td>8</td><td>100.322</td><td>0.227</td><td>0.000</td><td>0.75</td></tr><tr><td>1.008</td><td>S8011</td><td>8</td><td>100.261</td><td>0.276</td><td>0.000</td><td>0.61</td></tr><tr><td>2.000</td><td>S8108 Jelson</td><td>8</td><td>100.793</td><td>-0.062</td><td>0.000</td><td>0.57</td></tr><tr><td>2.001</td><td>S8109 Jelson</td><td>8</td><td>100.673</td><td>0.234</td><td>0.000</td><td>1.21</td></tr><tr><td>2.002</td><td>S8110 Jelson</td><td>8</td><td>100.489</td><td>0.203</td><td>0.000</td><td>2.87</td></tr><tr><td>3.000</td><td>S8115 Jelson</td><td>9</td><td>100.375</td><td>-0.175</td><td>0.000</td><td>0.12</td></tr><tr><td>3.001</td><td>S8116 Jelson</td><td>8</td><td>100.381</td><td>0.038</td><td>0.000</td><td>0.31</td></tr><tr><td>2.003</td><td>S8111 Jelson</td><td>8</td><td>100.381</td><td>0.122</td><td>0.000</td><td>0.49</td></tr><tr><td>2.004</td><td>S8112 Jelson</td><td>8</td><td>100.353</td><td>0.303</td><td>0.000</td><td>0.79</td></tr><tr><td>2.005</td><td>S8113 Jelson</td><td>8</td><td>100.314</td><td>0.336</td><td>0.000</td><td>1.66</td></tr><tr><td>2.006</td><td>S8022 Jelson Connection</td><td>8</td><td>100.272</td><td>0.321</td><td>0.000</td><td>0.77</td></tr><tr><td>1.009</td><td>S8023</td><td>8</td><td>100.212</td><td>0.387</td><td>0.000</td><td>2.19</td></tr><tr><td>1.010</td><td>S8025</td><td>9</td><td>99.814</td><td>0.065</td><td>0.000</td><td>1.32</td></tr><tr><td>1.011</td><td>S8026</td><td>9</td><td>99.371</td><td>-0.269</td><td>0.000</td><td>0.58</td></tr></table>					PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Overflow Cap. (l/s)	1.000	S8104 Jelson	7	102.271	-0.145	0.000	0.52	1.001	S8172 Jelson	7	101.980	-0.109	0.000	0.72	1.002	S8105 Jelson	7	101.749	-0.087	0.000	0.83	1.003	S8107 Jelson	7	101.252	-0.269	0.000	0.33	1.004	S8171 Jelson	7	101.030	-0.226	0.000	0.48	1.005	S8170 Jelson	8	100.486	-0.180	0.000	0.65	1.006	S8009 - Jelson Connection	8	100.362	-0.045	0.000	0.42	1.007	S8010	8	100.322	0.227	0.000	0.75	1.008	S8011	8	100.261	0.276	0.000	0.61	2.000	S8108 Jelson	8	100.793	-0.062	0.000	0.57	2.001	S8109 Jelson	8	100.673	0.234	0.000	1.21	2.002	S8110 Jelson	8	100.489	0.203	0.000	2.87	3.000	S8115 Jelson	9	100.375	-0.175	0.000	0.12	3.001	S8116 Jelson	8	100.381	0.038	0.000	0.31	2.003	S8111 Jelson	8	100.381	0.122	0.000	0.49	2.004	S8112 Jelson	8	100.353	0.303	0.000	0.79	2.005	S8113 Jelson	8	100.314	0.336	0.000	1.66	2.006	S8022 Jelson Connection	8	100.272	0.321	0.000	0.77	1.009	S8023	8	100.212	0.387	0.000	2.19	1.010	S8025	9	99.814	0.065	0.000	1.32	1.011	S8026	9	99.371	-0.269	0.000	0.58
PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Overflow Cap. (l/s)																																																																																																																																																								
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1.007	S8010	8	100.322	0.227	0.000	0.75																																																																																																																																																								
1.008	S8011	8	100.261	0.276	0.000	0.61																																																																																																																																																								
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3.000	S8115 Jelson	9	100.375	-0.175	0.000	0.12																																																																																																																																																								
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2.003	S8111 Jelson	8	100.381	0.122	0.000	0.49																																																																																																																																																								
2.004	S8112 Jelson	8	100.353	0.303	0.000	0.79																																																																																																																																																								
2.005	S8113 Jelson	8	100.314	0.336	0.000	1.66																																																																																																																																																								
2.006	S8022 Jelson Connection	8	100.272	0.321	0.000	0.77																																																																																																																																																								
1.009	S8023	8	100.212	0.387	0.000	2.19																																																																																																																																																								
1.010	S8025	9	99.814	0.065	0.000	1.32																																																																																																																																																								
1.011	S8026	9	99.371	-0.269	0.000	0.58																																																																																																																																																								
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<u>Summary Wizard of 15 minute 30 year Summer I+0% for Surface Network 8</u>				
		Half Drain	Pipe	
	US/MH	Time	Flow	
PN	Name	(mins)	(l/s)	Status
1.000	S8104 Jelson		53.9	OK
1.001	S8172 Jelson		82.7	OK
1.002	S8105 Jelson		93.5	OK
1.003	S8107 Jelson		96.5	OK
1.004	S8171 Jelson		188.4	OK
1.005	S8170 Jelson		185.8	OK
1.006	S8009 - Jelson Connection		173.0	OK
1.007	S8010		183.0	SURCHARGED
1.008	S8011		188.4	SURCHARGED
2.000	S8108 Jelson		58.0	OK
2.001	S8109 Jelson		91.9	SURCHARGED
2.002	S8110 Jelson		116.0	SURCHARGED
3.000	S8115 Jelson	2	34.3	OK
3.001	S8116 Jelson		70.7	SURCHARGED
2.003	S8111 Jelson		172.5	SURCHARGED
2.004	S8112 Jelson		186.4	SURCHARGED
2.005	S8113 Jelson		197.0	SURCHARGED
2.006	S8022 Jelson Connection		209.9	SURCHARGED
1.009	S8023		391.0	SURCHARGED
1.010	S8025		422.8	SURCHARGED
1.011	S8026		430.7	OK
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<u>Summary Wizard of 30 minute 30 year Summer I+0% for Surface Network 8</u>				
		Half Drain	Pipe	
	US/MH	Time	Flow	
PN	Name	(mins)	(l/s)	Status
1.000	S8104 Jelson		48.9	OK
1.001	S8172 Jelson		73.4	OK
1.002	S8105 Jelson		83.3	OK
1.003	S8107 Jelson		86.7	OK
1.004	S8171 Jelson		164.1	OK
1.005	S8170 Jelson		164.5	OK
1.006	S8009 - Jelson Connection		154.9	OK
1.007	S8010		165.2	SURCHARGED
1.008	S8011		169.2	SURCHARGED
2.000	S8108 Jelson		53.6	OK
2.001	S8109 Jelson		84.4	SURCHARGED
2.002	S8110 Jelson		105.8	SURCHARGED
3.000	S8115 Jelson	3	31.3	OK
3.001	S8116 Jelson		58.1	OK
2.003	S8111 Jelson		157.9	SURCHARGED
2.004	S8112 Jelson		175.9	SURCHARGED
2.005	S8113 Jelson		191.8	SURCHARGED
2.006	S8022 Jelson Connection		208.6	SURCHARGED
1.009	S8023		376.6	SURCHARGED
1.010	S8025		409.8	SURCHARGED
1.011	S8026		417.2	OK
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<u>Simulation Criteria</u>																																																																																																																																																																					
Areal Reduction Factor 1.000		Additional Flow - % of Total Flow 0.000																																																																																																																																																																			
Hot Start (mins) 0		MADD Factor * 10m³/ha Storage 0.000																																																																																																																																																																			
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Profile(s)		Summer and Winter																																																																																																																																																																			
Duration(s) (mins)		15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440																																																																																																																																																																			
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JS Bloor (Wilmslow) Ltd			Page 48	
Dean Court 85 Adllington Road Wilmslow SK9 1BT				
Date 11/08/2025 14:06 File PH7A - STORM. 11.08.25.MDX		Designed by d_southa Checked by		
Elstree Computing Ltd		Network 2020.1.3		
<u>Summary Wizard of 60 minute 30 year Summer I+0% for Surface Network 8</u>				
PN	US/MH Name	Half Drain Time (mins)	Pipe Flow (l/s)	Status
1.000	S8104 Jelson		34.8	OK
1.001	S8172 Jelson		51.9	OK
1.002	S8105 Jelson		58.1	OK
1.003	S8107 Jelson		60.4	OK
1.004	S8171 Jelson		115.8	OK
1.005	S8170 Jelson		114.1	OK
1.006	S8009 - Jelson Connection		114.8	OK
1.007	S8010		126.4	OK
1.008	S8011		128.4	SURCHARGED
2.000	S8108 Jelson		37.8	OK
2.001	S8109 Jelson		63.4	OK
2.002	S8110 Jelson		81.8	SURCHARGED
3.000	S8115 Jelson	8	23.3	OK
3.001	S8116 Jelson		38.9	OK
2.003	S8111 Jelson		114.2	OK
2.004	S8112 Jelson		136.0	SURCHARGED
2.005	S8113 Jelson		156.9	SURCHARGED
2.006	S8022 Jelson Connection		180.0	SURCHARGED
1.009	S8023		311.8	SURCHARGED
1.010	S8025		342.3	SURCHARGED
1.011	S8026		346.8	OK
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JS Bloor (Wilmslow) Ltd			Page 50																																																																																																																																																											
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<u>Simulation Criteria</u>																																																																																																																																																														
Areal Reduction Factor		1.000	Additional Flow - % of Total Flow 0.000																																																																																																																																																											
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2.002	S8110 Jelson	21	100.286	0.000	0.000	1.31																																																																																																																																																								
3.000	S8115 Jelson	19	100.104	-0.446	0.000	0.06																																																																																																																																																								
3.001	S8116 Jelson	18	99.986	-0.357	0.000	0.11																																																																																																																																																								
2.003	S8111 Jelson	18	99.963	-0.296	0.000	0.22																																																																																																																																																								
2.004	S8112 Jelson	18	99.944	-0.106	0.000	0.39																																																																																																																																																								
2.005	S8113 Jelson	18	99.919	-0.059	0.000	0.91																																																																																																																																																								
2.006	S8022 Jelson Connection	18	99.877	-0.074	0.000	0.46																																																																																																																																																								
1.009	S8023	18	99.843	0.018	0.000	1.20																																																																																																																																																								
1.010	S8025	18	99.548	-0.202	0.000	0.75																																																																																																																																																								
1.011	S8026	18	99.280	-0.360	0.000	0.33																																																																																																																																																								
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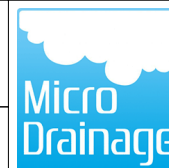
Micro Drainage

Summary Wizard of 120 minute 30 year Summer I+0% for Surface Network 8

PN	US/MH Name	Half Drain Time (mins)	Pipe Flow (l/s)	Status
1.000	S8104 Jelson		22.6	OK
1.001	S8172 Jelson		33.6	OK
1.002	S8105 Jelson		37.8	OK
1.003	S8107 Jelson		39.3	OK
1.004	S8171 Jelson		74.2	OK
1.005	S8170 Jelson		74.1	OK
1.006	S8009 - Jelson Connection		74.0	OK
1.007	S8010		81.4	OK
1.008	S8011		80.4	OK
2.000	S8108 Jelson		24.9	OK
2.001	S8109 Jelson		41.1	OK
2.002	S8110 Jelson		52.9	OK
3.000	S8115 Jelson	20	15.5	OK
3.001	S8116 Jelson		25.1	OK
2.003	S8111 Jelson		75.8	OK
2.004	S8112 Jelson		92.6	OK
2.005	S8113 Jelson		108.1	OK
2.006	S8022 Jelson Connection		125.8	OK
1.009	S8023		213.9	SURCHARGED
1.010	S8025		240.9	OK
1.011	S8026		246.9	OK

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Summary Wizard of 120 minute 30 year Summer I+0% for Surface Network 8

PN	US/MH Name	Storm Rank	Water		Surcharged	Flooded	Flow / Cap.	Overflow (l/s)	Half Drain
			Level (m)		Depth (m)	Volume (m³)			Time (mins)
4.000		S8068	19	99.139	-0.201	0.000	0.24		
1.012		S8028	18	98.899	-0.195	0.000	0.78		
1.013		S8029	18	98.662	-0.308	0.000	0.48		
1.014		S8030	18	98.395	-0.225	0.000	0.72		
1.015		S8031	18	98.158	-0.302	0.000	0.50		
1.016		S8034	24	97.715	-0.365	0.000	0.33		
1.017		S8037	45	96.980	0.000	0.000	1.28		
1.018	S8039 - Headwall	48	96.920		0.062	0.000	0.64		
1.019	S8051 - Headwall	48	96.920		0.020	0.000	0.89		
1.020	S8052 Control Chamber	41	96.919		0.119	0.000	0.02		

PN	US/MH Name	Pipe Flow (1/s)	Status
4.000		S8068 16.2	OK
1.012		S8028 276.5	OK
1.013		S8029 282.9	OK
1.014		S8030 288.5	OK
1.015		S8031 291.2	OK
1.016		S8034 300.9	OK
1.017		S8037 309.5	OK
1.018	S8039 - Headwall	305.9	SURCHARGED*
1.019	S8051 - Headwall	310.0	SURCHARGED*
1.020	S8052 Control Chamber	11.3	SURCHARGED

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Summary Wizard of 180 minute 30 year Summer I+0% for Surface Network 8

Simulation Criteria

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

Number of Input Hydrographs	0	Number of Storage Structures	2
Number of Online Controls	1	Number of Time/Area Diagrams	0
Number of Offline Controls	0	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.404
Region England and Wales Cv (Summer)	0.750		
M5-60 (mm)	19.900	Cv (Winter)	0.840

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

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

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Overflow Cap. (l/s)
1.000	S8104 Jelson	25	102.199	-0.217	0.000	0.17
1.001	S8172 Jelson	24	101.886	-0.203	0.000	0.23
1.002	S8105 Jelson	24	101.641	-0.195	0.000	0.26
1.003	S8107 Jelson	24	101.169	-0.352	0.000	0.11
1.004	S8171 Jelson	24	100.922	-0.334	0.000	0.15
1.005	S8170 Jelson	24	100.354	-0.312	0.000	0.20
1.006	S8009 - Jelson Connection	24	100.014	-0.393	0.000	0.14
1.007	S8010	23	99.787	-0.308	0.000	0.26
1.008	S8011	23	99.729	-0.256	0.000	0.21
2.000	S8108 Jelson	25	100.644	-0.211	0.000	0.19
2.001	S8109 Jelson	25	100.284	-0.155	0.000	0.42
2.002	S8110 Jelson	25	100.234	-0.052	0.000	1.00
3.000	S8115 Jelson	25	100.095	-0.455	0.000	0.04
3.001	S8116 Jelson	24	99.937	-0.406	0.000	0.09
2.003	S8111 Jelson	24	99.882	-0.377	0.000	0.18
2.004	S8112 Jelson	23	99.820	-0.230	0.000	0.32
2.005	S8113 Jelson	23	99.800	-0.178	0.000	0.76
2.006	S8022 Jelson Connection	23	99.739	-0.212	0.000	0.38
1.009	S8023	23	99.712	-0.113	0.000	0.98
1.010	S8025	22	99.488	-0.261	0.000	0.60
1.011	S8026	22	99.251	-0.389	0.000	0.27

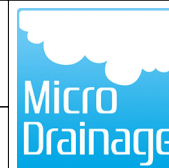
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<u>Summary Wizard of 180 minute 30 year Summer I+0% for Surface Network 8</u>				
PN	US/MH Name	Half Drain Time (mins)	Pipe Flow (l/s)	Status
1.000	S8104 Jelson		17.8	OK
1.001	S8172 Jelson		26.3	OK
1.002	S8105 Jelson		29.6	OK
1.003	S8107 Jelson		30.6	OK
1.004	S8171 Jelson		57.9	OK
1.005	S8170 Jelson		57.6	OK
1.006	S8009 - Jelson Connection		57.3	OK
1.007	S8010		63.6	OK
1.008	S8011		66.0	OK
2.000	S8108 Jelson		19.6	OK
2.001	S8109 Jelson		32.0	OK
2.002	S8110 Jelson		40.4	OK
3.000	S8115 Jelson	27	12.2	OK
3.001	S8116 Jelson		20.8	OK
2.003	S8111 Jelson		61.4	OK
2.004	S8112 Jelson		75.9	OK
2.005	S8113 Jelson		90.1	OK
2.006	S8022 Jelson Connection		104.7	OK
1.009	S8023		174.6	OK
1.010	S8025		193.4	OK
1.011	S8026		196.7	OK
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Summary Wizard of 180 minute 30 year Summer I+0% for Surface Network 8

PN	US/MH Name	Storm Rank	Water		Surcharged	Flooded	Flow / Cap.	Overflow (1/s)	Half Drain
			Level (m)	Depth (m)	Volume (m³)	Time (mins)			
4.000		S8068	25	99.128	-0.212	0.000	0.19		
1.012		S8028	22	98.842	-0.252	0.000	0.63		
1.013		S8029	22	98.628	-0.342	0.000	0.38		
1.014		S8030	22	98.349	-0.271	0.000	0.58		
1.015		S8031	22	98.125	-0.335	0.000	0.40		
1.016		S8034	28	97.690	-0.390	0.000	0.27		
1.017		S8037	46	96.980	0.000	0.000	1.02		
1.018	S8039 - Headwall	45	96.963		0.105	0.000	0.51		
1.019	S8051 - Headwall	44	96.962		0.062	0.000	0.72		
1.020	S8052 Control Chamber	39	96.962		0.162	0.000	0.02		

PN	US/MH Name	Pipe Flow (l/s)	Status
4.000		S8068 12.7	OK
1.012		S8028 221.0	OK
1.013		S8029 226.1	OK
1.014		S8030 231.7	OK
1.015		S8031 235.0	OK
1.016		S8034 244.2	OK
1.017		S8037 247.5	OK
1.018	S8039 - Headwall	245.8	SURCHARGED*
1.019	S8051 - Headwall	249.7	SURCHARGED*
1.020	S8052 Control Chamber	11.3	SURCHARGED

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<u>Summary Wizard of 240 minute 30 year Summer I+0% for Surface Network 8</u>				
PN	US/MH Name	Half Drain Time (mins)	Pipe Flow (l/s)	Status
1.000	S8104 Jelson		14.3	OK
1.001	S8172 Jelson		21.3	OK
1.002	S8105 Jelson		24.0	OK
1.003	S8107 Jelson		24.9	OK
1.004	S8171 Jelson		47.0	OK
1.005	S8170 Jelson		47.0	OK
1.006	S8009 - Jelson Connection		47.0	OK
1.007	S8010		52.5	OK
1.008	S8011		53.7	OK
2.000	S8108 Jelson		15.8	OK
2.001	S8109 Jelson		26.0	OK
2.002	S8110 Jelson		33.5	OK
3.000	S8115 Jelson	32	9.8	OK
3.001	S8116 Jelson		16.9	OK
2.003	S8111 Jelson		50.9	OK
2.004	S8112 Jelson		62.9	OK
2.005	S8113 Jelson		74.4	OK
2.006	S8022 Jelson Connection		86.5	OK
1.009	S8023		143.2	OK
1.010	S8025		160.2	OK
1.011	S8026		164.0	OK
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Summary Wizard of 360 minute 30 year Summer I+0% for Surface Network 8

PN	US/MH Name	Half Drain Time (mins)	Pipe Flow (l/s)	Status
1.000	S8104 Jelson		10.5	OK
1.001	S8172 Jelson		15.6	OK
1.002	S8105 Jelson		17.6	OK
1.003	S8107 Jelson		18.3	OK
1.004	S8171 Jelson		34.4	OK
1.005	S8170 Jelson		34.4	OK
1.006	S8009 - Jelson Connection		34.4	OK
1.007	S8010		38.5	OK
1.008	S8011		39.9	OK
2.000	S8108 Jelson		11.6	OK
2.001	S8109 Jelson		19.1	OK
2.002	S8110 Jelson		24.6	OK
3.000	S8115 Jelson	36	7.2	OK
3.001	S8116 Jelson		12.4	OK
2.003	S8111 Jelson		37.5	OK
2.004	S8112 Jelson		46.4	OK
2.005	S8113 Jelson		55.1	OK
2.006	S8022 Jelson Connection		64.3	OK
1.009	S8023		106.8	OK
1.010	S8025		119.3	OK
1.011	S8026		122.0	OK

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Summary Wizard of 360 minute 30 year Summer I+0% for Surface Network 8

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Overflow Cap. (l/s)	Half Drain Time (mins)
4.000		S8068 37	99.106	-0.234	0.000	0.11	
1.012		S8028 37	98.755	-0.339	0.000	0.39	
1.013		S8029 37	98.569	-0.401	0.000	0.24	
1.014		S8030 37	98.270	-0.350	0.000	0.36	
1.015		S8031 37	98.064	-0.396	0.000	0.25	
1.016		S8034 41	97.644	-0.436	0.000	0.16	
1.017		S8037 40	97.009	0.029	0.000	0.64	
1.018	S8039 - Headwall	38	97.007	0.149	0.000	0.32	
1.019	S8051 - Headwall	37	97.007	0.107	0.000	0.44	
1.020	S8052 Control Chamber	32	97.006	0.206	0.000	0.02	

PN	US/MH Name	Pipe Flow (l/s)	Status
4.000		S8068 7.6	OK
1.012		S8028 138.0	OK
1.013		S8029 140.3	OK
1.014		S8030 143.4	OK
1.015		S8031 144.4	OK
1.016		S8034 150.5	OK
1.017		S8037 155.6	SURCHARGED
1.018	S8039 - Headwall	154.8	SURCHARGED*
1.019	S8051 - Headwall	153.5	SURCHARGED*
1.020	S8052 Control Chamber	11.3	SURCHARGED

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<u>Simulation Criteria</u>																																																																																																																																																														
Areal Reduction Factor 1.000		Additional Flow - % of Total Flow 0.000																																																																																																																																																												
Hot Start (mins) 0		MADD Factor * 10m³/ha Storage 0.000																																																																																																																																																												
Hot Start Level (mm) 0		Inlet 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																																																																																																																																																														
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Number of Offline Controls 0 Number of Real Time Controls 0																																																																																																																																																														
<u>Synthetic Rainfall Details</u>																																																																																																																																																														
Rainfall Model		FSR	Ratio R 0.404																																																																																																																																																											
Region England and Wales Cv (Summer)		0.750																																																																																																																																																												
M5-60 (mm)		19.900	Cv (Winter) 0.840																																																																																																																																																											
Margin for Flood Risk Warning (mm) 300.0		DVD Status OFF																																																																																																																																																												
Analysis Timestep		Fine	Inertia Status OFF																																																																																																																																																											
DTS Status		ON																																																																																																																																																												
Profile(s) Summer and Winter																																																																																																																																																														
Duration(s) (mins)		15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440																																																																																																																																																												
Return Period(s) (years)		1, 30, 100																																																																																																																																																												
Climate Change (%)		0, 0, 40																																																																																																																																																												
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JS Bloor (Wilmslow) Ltd		Page 64
Dean Court 85 Adlington Road Wilmslow SK9 1BT		
Date 11/08/2025 14:06 File PH7A - STORM. 11.08.25.MDX	Designed by d_southa Checked by	
Elstree Computing Ltd		Network 2020.1.3

Summary Wizard of 480 minute 30 year Summer I+0% for Surface Network 8

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Overflow Cap. (l/s)	Half Drain Time (mins)
4.000		S8068 41	99.100	-0.240	0.000	0.09	
1.012		S8028 41	98.725	-0.369	0.000	0.32	
1.013		S8029 41	98.547	-0.423	0.000	0.19	
1.014		S8030 41	98.240	-0.380	0.000	0.29	
1.015		S8031 41	98.043	-0.417	0.000	0.20	
1.016		S8034 44	97.626	-0.454	0.000	0.13	
1.017		S8037 38	97.013	0.033	0.000	0.52	
1.018	S8039 - Headwall	36	97.011	0.153	0.000	0.26	
1.019	S8051 - Headwall	35	97.011	0.111	0.000	0.35	
1.020	S8052 Control Chamber	30	97.010	0.210	0.000	0.02	

PN	US/MH Name	Pipe Flow (l/s)	Status
4.000		S8068 6.1	OK
1.012		S8028 111.2	OK
1.013		S8029 113.3	OK
1.014		S8030 115.9	OK
1.015		S8031 116.8	OK
1.016		S8034 121.5	OK
1.017		S8037 124.9	SURCHARGED
1.018	S8039 - Headwall	123.4	SURCHARGED*
1.019	S8051 - Headwall	122.6	SURCHARGED*
1.020	S8052 Control Chamber	11.3	SURCHARGED

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<u>Simulation Criteria</u>																																																																																																																																																																					
Areal Reduction Factor		1.000		Additional Flow - % of Total Flow		0.000																																																																																																																																																															
Hot Start (mins)		0		MADD Factor * 10m³/ha Storage		0.000																																																																																																																																																															
Hot Start Level (mm)		0		Inlet 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		2																																																																																																																																																															
Number of Online Controls		1		Number of Time/Area Diagrams		0																																																																																																																																																															
Number of Offline Controls		0		Number of Real Time Controls		0																																																																																																																																																															
<u>Synthetic Rainfall Details</u>																																																																																																																																																																					
Rainfall Model		FSR		Ratio R		0.404																																																																																																																																																															
Region England and Wales Cv (Summer)		0.750																																																																																																																																																																			
M5-60 (mm)		19.900		Cv (Winter)		0.840																																																																																																																																																															
Margin for Flood Risk Warning (mm)		300.0		DVD Status		OFF																																																																																																																																																															
Analysis Timestep		Fine		Inertia Status		OFF																																																																																																																																																															
DTS Status		ON																																																																																																																																																																			
Profile(s)		Summer and Winter																																																																																																																																																																			
Duration(s) (mins)		15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440																																																																																																																																																																			
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Date 11/08/2025 14:06 File PH7A - STORM. 11.08.25.MDX		Designed by d_southa Checked by		
Elstree Computing Ltd		Network 2020.1.3		
<u>Summary Wizard of 600 minute 30 year Summer I+0% for Surface Network 8</u>				
PN	US/MH Name	Half Drain Time (mins)	Pipe Flow (l/s)	Status
1.000	S8104 Jelson		7.0	OK
1.001	S8172 Jelson		10.5	OK
1.002	S8105 Jelson		11.8	OK
1.003	S8107 Jelson		12.3	OK
1.004	S8171 Jelson		23.1	OK
1.005	S8170 Jelson		23.1	OK
1.006	S8009 - Jelson Connection		23.1	OK
1.007	S8010		25.9	OK
1.008	S8011		26.9	OK
2.000	S8108 Jelson		7.8	OK
2.001	S8109 Jelson		12.8	OK
2.002	S8110 Jelson		16.5	OK
3.000	S8115 Jelson	50	4.9	OK
3.001	S8116 Jelson		8.4	OK
2.003	S8111 Jelson		25.2	OK
2.004	S8112 Jelson		31.2	OK
2.005	S8113 Jelson		37.0	OK
2.006	S8022 Jelson Connection		43.2	OK
1.009	S8023		72.1	OK
1.010	S8025		80.9	OK
1.011	S8026		82.8	OK
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Summary Wizard of 600 minute 30 year Summer I+0% for Surface Network 8

PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded	Half Drain	
			Level (m)	Depth (m)	Volume (m³)	Flow / Cap.	Overflow (l/s)
4.000		S8068	46	99.094	-0.246	0.000	0.07
1.012		S8028	46	98.703	-0.391	0.000	0.27
1.013		S8029	46	98.530	-0.440	0.000	0.16
1.014		S8030	46	98.220	-0.400	0.000	0.24
1.015		S8031	46	98.025	-0.435	0.000	0.17
1.016		S8034	48	97.614	-0.466	0.000	0.11
1.017		S8037	42	97.003	0.023	0.000	0.44
1.018	S8039 - Headwall	39	97.001		0.143	0.000	0.22
1.019	S8051 - Headwall	39	97.000		0.100	0.000	0.30
1.020	S8052 Control Chamber	33	96.999		0.199	0.000	0.02

PN	US/MH Name	Pipe Flow (l/s)	Status
4.000		S8068 5.1	OK
1.012		S8028 93.8	OK
1.013		S8029 95.8	OK
1.014		S8030 98.1	OK
1.015		S8031 99.5	OK
1.016		S8034 103.9	OK
1.017		S8037 107.1	SURCHARGED
1.018	S8039 - Headwall	106.1	SURCHARGED*
1.019	S8051 - Headwall	105.7	SURCHARGED*
1.020	S8052 Control Chamber	11.3	SURCHARGED

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Summary Wizard of 720 minute 30 year Summer I+0% for Surface Network 8

PN	US/MH Name	Half Drain	Pipe	Status
		Time (mins)	Flow (l/s)	
1.000	S8104	Jelson	6.1	OK
1.001	S8172	Jelson	9.1	OK
1.002	S8105	Jelson	10.2	OK
1.003	S8107	Jelson	10.6	OK
1.004	S8171	Jelson	20.0	OK
1.005	S8170	Jelson	20.0	OK
1.006	S8009 -	Jelson Connection	20.0	OK
1.007		S8010	22.5	OK
1.008		S8011	23.3	OK
2.000	S8108	Jelson	6.7	OK
2.001	S8109	Jelson	11.1	OK
2.002	S8110	Jelson	14.3	OK
3.000	S8115	Jelson	72 4.2	OK
3.001	S8116	Jelson	7.2	OK
2.003	S8111	Jelson	21.8	OK
2.004	S8112	Jelson	27.0	OK
2.005	S8113	Jelson	32.1	OK
2.006	S8022	Jelson Connection	37.5	OK
1.009		S8023	62.5	OK
1.010		S8025	70.1	OK
1.011		S8026	71.8	OK



Micro
Drainage

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PN	US/MH	Storm Rank	Water Level	Surcharged Depth	Flooded Volume	Flow / Overflow		Half Drain Time
	Name		(m)	(m)	(m ³)	Cap.	(l/s)	(mins)

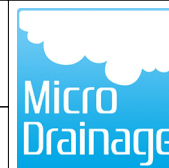
PN	US/MH Name	Storm Rank	Water		Surcharged	Flooded	Flow / Cap.	Overflow (l/s)	Half Drain
			Level (m)	Depth (m)	Volume (m³)	Time (mins)			
4.000		S8068	51	99.089	-0.251	0.000	0.06		
1.012		S8028	51	98.688	-0.406	0.000	0.23		
1.013		S8029	51	98.519	-0.451	0.000	0.14		
1.014		S8030	51	98.207	-0.413	0.000	0.21		
1.015		S8031	51	98.013	-0.447	0.000	0.15		
1.016		S8034	52	97.605	-0.475	0.000	0.10		
1.017		S8037	43	96.993	0.013	0.000	0.38		
1.018	S8039 - Headwall	41	96.991		0.133	0.000	0.19		
1.019	S8051 - Headwall	41	96.991		0.091	0.000	0.26		
1.020	S8052 Control Chamber	35	96.990		0.190	0.000	0.02		

PN	US/MH Name	Pipe Flow (1/s)	Status
4.000	S8068	4.4	OK
1.012	S8028	81.3	OK
1.013	S8029	83.1	OK
1.014	S8030	85.1	OK
1.015	S8031	86.3	OK
1.016	S8034	90.1	OK
1.017	S8037	92.9	SURCHARGED
1.018	S8039 - Headwall	92.1	SURCHARGED*
1.019	S8051 - Headwall	91.8	SURCHARGED*
1.020	S8052 Control Chamber	11.3	SURCHARGED

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Areal Reduction Factor 1.000		Additional Flow - % of Total Flow 0.000																																																																																																																																																																			
Hot Start (mins) 0		MADD Factor * 10m³/ha Storage 0.000																																																																																																																																																																			
Hot Start Level (mm) 0		Inlet Coefficient 0.800																																																																																																																																																																			
Manhole Headloss Coeff (Global) 0.500		Flow per Person per Day (l/per/day) 0.000																																																																																																																																																																			
Foul Sewage per hectare (l/s) 0.000																																																																																																																																																																					
Number of Input Hydrographs 0 Number of Storage Structures 2																																																																																																																																																																					
Number of Online Controls 1 Number of Time/Area Diagrams 0																																																																																																																																																																					
Number of Offline Controls 0 Number of Real Time Controls 0																																																																																																																																																																					
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Rainfall Model		FSR	Ratio R	0.404																																																																																																																																																																	
Region England and Wales Cv (Summer)		0.750																																																																																																																																																																			
M5-60 (mm)		19.900	Cv (Winter)	0.840																																																																																																																																																																	
Margin for Flood Risk Warning (mm) 300.0		DVD Status OFF																																																																																																																																																																			
Analysis Timestep		Fine	Inertia Status	OFF																																																																																																																																																																	
DTS Status		ON																																																																																																																																																																			
Profile(s)		Summer and Winter																																																																																																																																																																			
Duration(s) (mins)		15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440																																																																																																																																																																			
Return Period(s) (years)		1, 30, 100																																																																																																																																																																			
Climate Change (%)		0, 0, 40																																																																																																																																																																			
<table><thead><tr><th></th><th></th><th></th><th>Water Level</th><th>Surcharged Depth</th><th>Flooded Volume</th><th>Flow / Overflow</th></tr><tr><th>PN</th><th>US/MH Name</th><th>Storm Rank</th><th>(m)</th><th>(m)</th><th>(m³)</th><th>Cap. (l/s)</th></tr></thead><tbody><tr><td>1.000</td><td>S8104 Jelson</td><td>54</td><td>102.157</td><td>-0.259</td><td>0.000</td><td>0.05</td></tr><tr><td>1.001</td><td>S8172 Jelson</td><td>54</td><td>101.837</td><td>-0.252</td><td>0.000</td><td>0.06</td></tr><tr><td>1.002</td><td>S8105 Jelson</td><td>54</td><td>101.589</td><td>-0.247</td><td>0.000</td><td>0.07</td></tr><tr><td>1.003</td><td>S8107 Jelson</td><td>54</td><td>101.121</td><td>-0.400</td><td>0.000</td><td>0.03</td></tr><tr><td>1.004</td><td>S8171 Jelson</td><td>54</td><td>100.864</td><td>-0.392</td><td>0.000</td><td>0.04</td></tr><tr><td>1.005</td><td>S8170 Jelson</td><td>54</td><td>100.284</td><td>-0.382</td><td>0.000</td><td>0.06</td></tr><tr><td>1.006</td><td>S8009 - Jelson Connection</td><td>54</td><td>99.949</td><td>-0.458</td><td>0.000</td><td>0.04</td></tr><tr><td>1.007</td><td>S8010</td><td>54</td><td>99.663</td><td>-0.432</td><td>0.000</td><td>0.07</td></tr><tr><td>1.008</td><td>S8011</td><td>54</td><td>99.546</td><td>-0.439</td><td>0.000</td><td>0.06</td></tr><tr><td>2.000</td><td>S8108 Jelson</td><td>54</td><td>100.599</td><td>-0.256</td><td>0.000</td><td>0.05</td></tr><tr><td>2.001</td><td>S8109 Jelson</td><td>54</td><td>100.207</td><td>-0.232</td><td>0.000</td><td>0.12</td></tr><tr><td>2.002</td><td>S8110 Jelson</td><td>54</td><td>100.046</td><td>-0.240</td><td>0.000</td><td>0.28</td></tr><tr><td>3.000</td><td>S8115 Jelson</td><td>54</td><td>100.055</td><td>-0.495</td><td>0.000</td><td>0.01</td></tr><tr><td>3.001</td><td>S8116 Jelson</td><td>54</td><td>99.876</td><td>-0.467</td><td>0.000</td><td>0.03</td></tr><tr><td>2.003</td><td>S8111 Jelson</td><td>54</td><td>99.809</td><td>-0.450</td><td>0.000</td><td>0.05</td></tr><tr><td>2.004</td><td>S8112 Jelson</td><td>54</td><td>99.648</td><td>-0.402</td><td>0.000</td><td>0.09</td></tr><tr><td>2.005</td><td>S8113 Jelson</td><td>54</td><td>99.617</td><td>-0.361</td><td>0.000</td><td>0.22</td></tr><tr><td>2.006</td><td>S8022 Jelson Connection</td><td>54</td><td>99.543</td><td>-0.408</td><td>0.000</td><td>0.11</td></tr><tr><td>1.009</td><td>S8023</td><td>54</td><td>99.488</td><td>-0.337</td><td>0.000</td><td>0.28</td></tr><tr><td>1.010</td><td>S8025</td><td>54</td><td>99.317</td><td>-0.432</td><td>0.000</td><td>0.17</td></tr><tr><td>1.011</td><td>S8026</td><td>54</td><td>99.150</td><td>-0.490</td><td>0.000</td><td>0.08</td></tr></tbody></table>								Water Level	Surcharged Depth	Flooded Volume	Flow / Overflow	PN	US/MH Name	Storm Rank	(m)	(m)	(m³)	Cap. (l/s)	1.000	S8104 Jelson	54	102.157	-0.259	0.000	0.05	1.001	S8172 Jelson	54	101.837	-0.252	0.000	0.06	1.002	S8105 Jelson	54	101.589	-0.247	0.000	0.07	1.003	S8107 Jelson	54	101.121	-0.400	0.000	0.03	1.004	S8171 Jelson	54	100.864	-0.392	0.000	0.04	1.005	S8170 Jelson	54	100.284	-0.382	0.000	0.06	1.006	S8009 - Jelson Connection	54	99.949	-0.458	0.000	0.04	1.007	S8010	54	99.663	-0.432	0.000	0.07	1.008	S8011	54	99.546	-0.439	0.000	0.06	2.000	S8108 Jelson	54	100.599	-0.256	0.000	0.05	2.001	S8109 Jelson	54	100.207	-0.232	0.000	0.12	2.002	S8110 Jelson	54	100.046	-0.240	0.000	0.28	3.000	S8115 Jelson	54	100.055	-0.495	0.000	0.01	3.001	S8116 Jelson	54	99.876	-0.467	0.000	0.03	2.003	S8111 Jelson	54	99.809	-0.450	0.000	0.05	2.004	S8112 Jelson	54	99.648	-0.402	0.000	0.09	2.005	S8113 Jelson	54	99.617	-0.361	0.000	0.22	2.006	S8022 Jelson Connection	54	99.543	-0.408	0.000	0.11	1.009	S8023	54	99.488	-0.337	0.000	0.28	1.010	S8025	54	99.317	-0.432	0.000	0.17	1.011	S8026	54	99.150	-0.490	0.000	0.08
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PN	US/MH Name	Half Drain Time (mins)	Pipe Flow (l/s)	Status
1.000	S8104 Jelson		4.9	OK
1.001	S8172 Jelson		7.2	OK
1.002	S8105 Jelson		8.2	OK
1.003	S8107 Jelson		8.5	OK
1.004	S8171 Jelson		16.0	OK
1.005	S8170 Jelson		16.0	OK
1.006	S8009 - Jelson Connection		16.0	OK
1.007	S8010		17.9	OK
1.008	S8011		18.6	OK
2.000	S8108 Jelson		5.4	OK
2.001	S8109 Jelson		8.9	OK
2.002	S8110 Jelson		11.4	OK
3.000	S8115 Jelson	80	3.4	OK
3.001	S8116 Jelson		5.8	OK
2.003	S8111 Jelson		17.4	OK
2.004	S8112 Jelson		21.6	OK
2.005	S8113 Jelson		25.6	OK
2.006	S8022 Jelson Connection		29.9	OK
1.009	S8023		49.9	OK
1.010	S8025		56.0	OK
1.011	S8026		57.3	OK
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Summary Wizard of 960 minute 30 year Summer I+0% for Surface Network 8

PN	US/MH Name	Storm Rank	Water		Surcharged	Flooded	Flow / Cap.	Overflow (l/s)	Half Drain
			Level (m)	Depth (m)	Volume (m³)	Time (mins)			
4.000		S8068	54	99.084	-0.256	0.000	0.05		
1.012		S8028	54	98.667	-0.427	0.000	0.18		
1.013		S8029	54	98.503	-0.467	0.000	0.11		
1.014		S8030	54	98.185	-0.435	0.000	0.17		
1.015		S8031	54	97.996	-0.464	0.000	0.12		
1.016		S8034	55	97.591	-0.489	0.000	0.08		
1.017		S8037	47	96.971	-0.009	0.000	0.31		
1.018	S8039 - Headwall	44	96.967		0.109	0.000	0.15		
1.019	S8051 - Headwall	43	96.966		0.066	0.000	0.21		
1.020	S8052 Control Chamber	38	96.965		0.165	0.000	0.02		

PN	US/MH Name	Pipe Flow (1/s)	Status
4.000	S8068	3.5	OK
1.012	S8028	64.9	OK
1.013	S8029	66.3	OK
1.014	S8030	67.9	OK
1.015	S8031	68.9	OK
1.016	S8034	71.9	OK
1.017	S8037	74.2	OK
1.018	S8039 - Headwall	73.5	SURCHARGED*
1.019	S8051 - Headwall	73.4	SURCHARGED*
1.020	S8052 Control Chamber	11.3	SURCHARGED

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<u>Simulation Criteria</u>																																																																																																																																																																					
Areal Reduction Factor		1.000		Additional Flow - % of Total Flow		0.000																																																																																																																																																															
Hot Start (mins)		0		MADD Factor * 10m³/ha Storage		0.000																																																																																																																																																															
Hot Start Level (mm)		0		Inlet 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		2																																																																																																																																																															
Number of Online Controls		1		Number of Time/Area Diagrams		0																																																																																																																																																															
Number of Offline Controls		0		Number of Real Time Controls		0																																																																																																																																																															
<u>Synthetic Rainfall Details</u>																																																																																																																																																																					
Rainfall Model		FSR		Ratio R		0.404																																																																																																																																																															
Region England and Wales Cv (Summer)		0.750																																																																																																																																																																			
M5-60 (mm)		19.900		Cv (Winter)		0.840																																																																																																																																																															
Margin for Flood Risk Warning (mm)		300.0		DVD Status		OFF																																																																																																																																																															
Analysis Timestep		Fine		Inertia Status		OFF																																																																																																																																																															
DTS Status		ON																																																																																																																																																																			
Profile(s)		Summer and Winter																																																																																																																																																																			
Duration(s) (mins)		15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440																																																																																																																																																																			
Return Period(s) (years)		1, 30, 100																																																																																																																																																																			
Climate Change (%)		0, 0, 40																																																																																																																																																																			
<table><tr><th rowspan="2">PN</th><th rowspan="2">US/MH Name</th><th rowspan="2">Storm Rank</th><th>Water Level</th><th>Surcharged Depth</th><th>Flooded Volume</th><th>Flow / Overflow</th></tr><tr><th>(m)</th><th>(m)</th><th>(m³)</th><th>Cap. (l/s)</th></tr><tr><td>1.000</td><td>S8104 Jelson</td><td>61</td><td>102.152</td><td>-0.264</td><td>0.000</td><td>0.03</td></tr><tr><td>1.001</td><td>S8172 Jelson</td><td>61</td><td>101.830</td><td>-0.259</td><td>0.000</td><td>0.05</td></tr><tr><td>1.002</td><td>S8105 Jelson</td><td>61</td><td>101.580</td><td>-0.256</td><td>0.000</td><td>0.05</td></tr><tr><td>1.003</td><td>S8107 Jelson</td><td>61</td><td>101.116</td><td>-0.405</td><td>0.000</td><td>0.02</td></tr><tr><td>1.004</td><td>S8171 Jelson</td><td>61</td><td>100.857</td><td>-0.399</td><td>0.000</td><td>0.03</td></tr><tr><td>1.005</td><td>S8170 Jelson</td><td>61</td><td>100.274</td><td>-0.392</td><td>0.000</td><td>0.04</td></tr><tr><td>1.006</td><td>S8009 - Jelson Connection</td><td>61</td><td>99.941</td><td>-0.467</td><td>0.000</td><td>0.03</td></tr><tr><td>1.007</td><td>S8010</td><td>61</td><td>99.648</td><td>-0.447</td><td>0.000</td><td>0.05</td></tr><tr><td>1.008</td><td>S8011</td><td>61</td><td>99.530</td><td>-0.455</td><td>0.000</td><td>0.04</td></tr><tr><td>2.000</td><td>S8108 Jelson</td><td>61</td><td>100.593</td><td>-0.262</td><td>0.000</td><td>0.04</td></tr><tr><td>2.001</td><td>S8109 Jelson</td><td>61</td><td>100.197</td><td>-0.242</td><td>0.000</td><td>0.08</td></tr><tr><td>2.002</td><td>S8110 Jelson</td><td>61</td><td>100.026</td><td>-0.260</td><td>0.000</td><td>0.21</td></tr><tr><td>3.000</td><td>S8115 Jelson</td><td>61</td><td>100.047</td><td>-0.503</td><td>0.000</td><td>0.01</td></tr><tr><td>3.001</td><td>S8116 Jelson</td><td>61</td><td>99.869</td><td>-0.474</td><td>0.000</td><td>0.02</td></tr><tr><td>2.003</td><td>S8111 Jelson</td><td>61</td><td>99.798</td><td>-0.461</td><td>0.000</td><td>0.04</td></tr><tr><td>2.004</td><td>S8112 Jelson</td><td>61</td><td>99.626</td><td>-0.424</td><td>0.000</td><td>0.07</td></tr><tr><td>2.005</td><td>S8113 Jelson</td><td>61</td><td>99.591</td><td>-0.387</td><td>0.000</td><td>0.16</td></tr><tr><td>2.006</td><td>S8022 Jelson Connection</td><td>61</td><td>99.524</td><td>-0.427</td><td>0.000</td><td>0.08</td></tr><tr><td>1.009</td><td>S8023</td><td>61</td><td>99.460</td><td>-0.365</td><td>0.000</td><td>0.20</td></tr><tr><td>1.010</td><td>S8025</td><td>61</td><td>99.291</td><td>-0.459</td><td>0.000</td><td>0.13</td></tr><tr><td>1.011</td><td>S8026</td><td>61</td><td>99.131</td><td>-0.509</td><td>0.000</td><td>0.06</td></tr></table>								PN	US/MH Name	Storm Rank	Water Level	Surcharged Depth	Flooded Volume	Flow / Overflow	(m)	(m)	(m³)	Cap. (l/s)	1.000	S8104 Jelson	61	102.152	-0.264	0.000	0.03	1.001	S8172 Jelson	61	101.830	-0.259	0.000	0.05	1.002	S8105 Jelson	61	101.580	-0.256	0.000	0.05	1.003	S8107 Jelson	61	101.116	-0.405	0.000	0.02	1.004	S8171 Jelson	61	100.857	-0.399	0.000	0.03	1.005	S8170 Jelson	61	100.274	-0.392	0.000	0.04	1.006	S8009 - Jelson Connection	61	99.941	-0.467	0.000	0.03	1.007	S8010	61	99.648	-0.447	0.000	0.05	1.008	S8011	61	99.530	-0.455	0.000	0.04	2.000	S8108 Jelson	61	100.593	-0.262	0.000	0.04	2.001	S8109 Jelson	61	100.197	-0.242	0.000	0.08	2.002	S8110 Jelson	61	100.026	-0.260	0.000	0.21	3.000	S8115 Jelson	61	100.047	-0.503	0.000	0.01	3.001	S8116 Jelson	61	99.869	-0.474	0.000	0.02	2.003	S8111 Jelson	61	99.798	-0.461	0.000	0.04	2.004	S8112 Jelson	61	99.626	-0.424	0.000	0.07	2.005	S8113 Jelson	61	99.591	-0.387	0.000	0.16	2.006	S8022 Jelson Connection	61	99.524	-0.427	0.000	0.08	1.009	S8023	61	99.460	-0.365	0.000	0.20	1.010	S8025	61	99.291	-0.459	0.000	0.13	1.011	S8026	61	99.131	-0.509	0.000	0.06
PN	US/MH Name	Storm Rank	Water Level	Surcharged Depth	Flooded Volume	Flow / Overflow																																																																																																																																																															
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1.004	S8171 Jelson	61	100.857	-0.399	0.000	0.03																																																																																																																																																															
1.005	S8170 Jelson	61	100.274	-0.392	0.000	0.04																																																																																																																																																															
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Summary Wizard of 1440 minute 30 year Summer I+0% for Surface Network 8

PN	US/MH Name	Half Drain Time (mins)	Pipe Flow (l/s)	Status
1.000	S8104 Jelson		3.5	OK
1.001	S8172 Jelson		5.3	OK
1.002	S8105 Jelson		5.9	OK
1.003	S8107 Jelson		6.2	OK
1.004	S8171 Jelson		11.6	OK
1.005	S8170 Jelson		11.6	OK
1.006	S8009 - Jelson Connection		11.6	OK
1.007	S8010		13.0	OK
1.008	S8011		13.5	OK
2.000	S8108 Jelson		3.9	OK
2.001	S8109 Jelson		6.5	OK
2.002	S8110 Jelson		8.3	OK
3.000	S8115 Jelson	120	2.4	OK
3.001	S8116 Jelson		4.2	OK
2.003	S8111 Jelson		12.7	OK
2.004	S8112 Jelson		15.7	OK
2.005	S8113 Jelson		18.6	OK
2.006	S8022 Jelson Connection		21.7	OK
1.009	S8023		36.3	OK
1.010	S8025		40.7	OK
1.011	S8026		41.7	OK



Micro
Drainage

Designed by d southa

Checked by

Network 2020.1.3

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Half Drain	
						Flow / Cap.	Overflow (l/s) Time (mins)
4.000	S8068	61	99.077	-0.263	0.000	0.04	
4.012	S8028	61	98.639	-0.455	0.000	0.13	
4.013	S8029	61	98.484	-0.486	0.000	0.08	
4.014	S8030	61	98.159	-0.461	0.000	0.12	
4.015	S8031	61	97.978	-0.482	0.000	0.09	
4.016	S8034	61	97.572	-0.508	0.000	0.06	
4.017	S8037	48	96.925	-0.055	0.000	0.22	
4.018	S8039 - Headwall	47	96.924	0.066	0.000	0.11	
4.019	S8051 - Headwall	47	96.923	0.023	0.000	0.15	
4.020	S8052 Control Chamber	40	96.922	0.122	0.000	0.02	

PN	US/MH Name	Pipe Flow (1/s)	Status
4.000	S8068	2.6	OK
1.012	S8028	47.2	OK
1.013	S8029	48.2	OK
1.014	S8030	49.4	OK
1.015	S8031	50.1	OK
1.016	S8034	52.3	OK
1.017	S8037	54.0	OK
1.018	S8039 - Headwall	53.5	SURCHARGED*
1.019	S8051 - Headwall	53.5	SURCHARGED*
1.020	S8052 Control Chamber	11.3	SURCHARGED

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Summary Wizard of 15 minute 100 year Summer I+40% for Surface Network 8

Simulation Criteria

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

Number of Input Hydrographs 0 Number of Storage Structures 2
 Number of Online Controls 1 Number of Time/Area Diagrams 0
 Number of Offline Controls 0 Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model FSR Ratio R 0.404
 Region England and Wales Cv (Summer) 0.750
 M5-60 (mm) 19.900 Cv (Winter) 0.840

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

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

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

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Overflow Cap. (l/s)
1.000	S8104 Jelson	2	103.165	0.749	0.000	0.87
1.001	S8172 Jelson	2	102.949	0.860	0.000	1.14
1.002	S8105 Jelson	2	102.676	0.840	0.000	1.28
1.003	S8107 Jelson	2	102.252	0.731	0.000	0.52
1.004	S8171 Jelson	2	102.207	0.951	0.000	0.72
1.005	S8170 Jelson	2	101.953	1.287	0.000	0.84
1.006	S8009 - Jelson Connection	2	101.762	1.354	0.000	0.60
1.007	S8010	2	101.695	1.600	0.000	1.10
1.008	S8011	2	101.574	1.589	0.000	0.93
2.000	S8108 Jelson	2	102.561	1.706	1.590	0.95
2.001	S8109 Jelson	2	102.300	1.861	0.216	2.02
2.002	S8110 Jelson	2	101.823	1.537	0.000	4.82
3.000	S8115 Jelson	4	101.122	0.572	0.000	0.69
3.001	S8116 Jelson	2	101.335	0.992	0.000	0.92
2.003	S8111 Jelson	2	101.508	1.249	0.000	0.70
2.004	S8112 Jelson	2	101.543	1.493	0.000	1.05
2.005	S8113 Jelson	2	101.542	1.564	0.000	2.14
2.006	S8022 Jelson Connection	2	101.524	1.573	0.000	1.18

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<u>Summary Wizard of 15 minute 100 year Summer I+40% for Surface Network 8</u>				
PN	US/MH Name	Half Drain Time (mins)	Pipe Flow (l/s)	Status
1.000	S8104 Jelson		90.1	SURCHARGED
1.001	S8172 Jelson		131.9	SURCHARGED
1.002	S8105 Jelson		143.9	SURCHARGED
1.003	S8107 Jelson		151.9	SURCHARGED
1.004	S8171 Jelson		280.6	SURCHARGED
1.005	S8170 Jelson		240.5	FLOOD RISK
1.006	S8009 - Jelson Connection		243.6	FLOOD RISK
1.007	S8010		268.3	FLOOD RISK
1.008	S8011		283.9	SURCHARGED
2.000	S8108 Jelson		97.5	FLOOD
2.001	S8109 Jelson		153.5	FLOOD
2.002	S8110 Jelson		194.5	SURCHARGED
3.000	S8115 Jelson	6	195.6	FLOOD RISK
3.001	S8116 Jelson		207.5	SURCHARGED
2.003	S8111 Jelson		245.4	SURCHARGED
2.004	S8112 Jelson		249.4	SURCHARGED
2.005	S8113 Jelson		254.4	SURCHARGED
2.006	S8022 Jelson Connection		321.0	SURCHARGED
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Summary Wizard of 15 minute 100 year Summer I+40% for Surface Network 8								
PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)
1.009		S8023	2 101.483	1.658	0.000	2.89		
1.010		S8025	2 101.034	1.284	0.000	1.88		
1.011		S8026	3 100.663	1.023	0.000	0.81		
4.000		S8068	3 100.480	1.140	0.000	0.85		
1.012		S8028	4 100.341	1.247	0.000	1.96		
1.013		S8029	4 99.927	0.957	0.000	1.20		
1.014		S8030	4 99.488	0.868	0.000	1.81		
1.015		S8031	4 99.022	0.562	0.000	1.24		
1.016		S8034	4 98.471	0.391	0.000	0.79		
1.017		S8037	4 97.844	0.864	0.000	2.93		
1.018	S8039 - Headwall	24	97.330	0.472	0.000	1.48		
1.019	S8051 - Headwall	24	97.282	0.382	0.000	2.06		
1.020	S8052 Control Chamber	42	96.913	0.113	0.000	0.02		
	PN	US/MH Name	Pipe Flow (l/s)	Status				
	1.009	S8023	517.0	SURCHARGED				
	1.010	S8025	602.6	SURCHARGED				
	1.011	S8026	595.4	SURCHARGED				
	4.000	S8068	57.7	FLOOD RISK				
	1.012	S8028	692.9	SURCHARGED				
	1.013	S8029	710.9	SURCHARGED				
	1.014	S8030	725.4	SURCHARGED				
	1.015	S8031	720.8	SURCHARGED				
	1.016	S8034	720.1	SURCHARGED				
	1.017	S8037	710.4	SURCHARGED				
	1.018	S8039 - Headwall	706.1	SURCHARGED*				
	1.019	S8051 - Headwall	715.1	SURCHARGED*				
	1.020	S8052 Control Chamber	11.3	SURCHARGED				

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<u>Summary Wizard of 30 minute 100 year Summer I+40% for Surface Network 8</u>				
		Half Drain	Pipe	
	US/MH	Time	Flow	
PN	Name	(mins)	(l/s)	Status
1.000	S8104 Jelson		85.9	SURCHARGED
1.001	S8172 Jelson		120.7	SURCHARGED
1.002	S8105 Jelson		132.2	SURCHARGED
1.003	S8107 Jelson		142.8	SURCHARGED
1.004	S8171 Jelson		247.8	SURCHARGED
1.005	S8170 Jelson		224.0	SURCHARGED
1.006	S8009 - Jelson Connection		227.4	FLOOD RISK
1.007	S8010		249.9	FLOOD RISK
1.008	S8011		263.7	SURCHARGED
2.000	S8108 Jelson		89.4	FLOOD RISK
2.001	S8109 Jelson		143.5	FLOOD RISK
2.002	S8110 Jelson		180.8	SURCHARGED
3.000	S8115 Jelson	7	175.5	FLOOD RISK
3.001	S8116 Jelson		184.9	SURCHARGED
2.003	S8111 Jelson		237.0	SURCHARGED
2.004	S8112 Jelson		251.5	SURCHARGED
2.005	S8113 Jelson		265.5	SURCHARGED
2.006	S8022 Jelson Connection		295.4	SURCHARGED
1.009	S8023		500.1	SURCHARGED
1.010	S8025		577.9	SURCHARGED
1.011	S8026		587.0	SURCHARGED
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JS Bloor (Wilmslow) Ltd				Page 83																																																																																																																																																																		
Dean Court 85 Adlington Road Wilmslow SK9 1BT																																																																																																																																																																						
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Areal Reduction Factor		1.000	Additional Flow - % of Total Flow		0.000																																																																																																																																																																	
Hot Start (mins)		0	MADD Factor * 10m³/ha Storage		0.000																																																																																																																																																																	
Hot Start Level (mm)		0	Inlet Coefficient		0.800																																																																																																																																																																	
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Region England and Wales Cv (Summer)		0.750																																																																																																																																																																				
M5-60 (mm)		19.900 Cv (Winter)		0.840																																																																																																																																																																		
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Profile(s)		Summer and Winter																																																																																																																																																																				
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Climate Change (%)		0, 0, 40																																																																																																																																																																				
<table><thead><tr><th></th><th></th><th>Water</th><th>Surcharged</th><th>Flooded</th><th></th><th></th></tr><tr><th>PN</th><th>US/MH Name</th><th>Storm Rank</th><th>Level (m)</th><th>Depth (m)</th><th>Volume (m³)</th><th>Flow / Overflow Cap. (l/s)</th></tr></thead><tbody><tr><td>1.000</td><td>S8104 Jelson</td><td>5</td><td>102.289</td><td>-0.127</td><td>0.000</td><td>0.62</td></tr><tr><td>1.001</td><td>S8172 Jelson</td><td>5</td><td>102.004</td><td>-0.085</td><td>0.000</td><td>0.83</td></tr><tr><td>1.002</td><td>S8105 Jelson</td><td>5</td><td>101.782</td><td>-0.054</td><td>0.000</td><td>0.95</td></tr><tr><td>1.003</td><td>S8107 Jelson</td><td>5</td><td>101.286</td><td>-0.235</td><td>0.000</td><td>0.38</td></tr><tr><td>1.004</td><td>S8171 Jelson</td><td>5</td><td>101.250</td><td>-0.006</td><td>0.000</td><td>0.55</td></tr><tr><td>1.005</td><td>S8170 Jelson</td><td>5</td><td>101.114</td><td>0.448</td><td>0.000</td><td>0.65</td></tr><tr><td>1.006</td><td>S8009 - Jelson Connection</td><td>5</td><td>101.013</td><td>0.606</td><td>0.000</td><td>0.46</td></tr><tr><td>1.007</td><td>S8010</td><td>5</td><td>100.970</td><td>0.875</td><td>0.000</td><td>0.84</td></tr><tr><td>1.008</td><td>S8011</td><td>5</td><td>100.900</td><td>0.915</td><td>0.000</td><td>0.69</td></tr><tr><td>2.000</td><td>S8108 Jelson</td><td>5</td><td>101.628</td><td>0.773</td><td>0.000</td><td>0.65</td></tr><tr><td>2.001</td><td>S8109 Jelson</td><td>5</td><td>101.450</td><td>1.011</td><td>0.000</td><td>1.43</td></tr><tr><td>2.002</td><td>S8110 Jelson</td><td>5</td><td>101.141</td><td>0.855</td><td>0.000</td><td>3.44</td></tr><tr><td>3.000</td><td>S8115 Jelson</td><td>5</td><td>100.892</td><td>0.342</td><td>0.000</td><td>0.46</td></tr><tr><td>3.001</td><td>S8116 Jelson</td><td>5</td><td>100.919</td><td>0.576</td><td>0.000</td><td>0.65</td></tr><tr><td>2.003</td><td>S8111 Jelson</td><td>5</td><td>100.972</td><td>0.713</td><td>0.000</td><td>0.61</td></tr><tr><td>2.004</td><td>S8112 Jelson</td><td>5</td><td>100.960</td><td>0.910</td><td>0.000</td><td>0.98</td></tr><tr><td>2.005</td><td>S8113 Jelson</td><td>5</td><td>100.935</td><td>0.957</td><td>0.000</td><td>2.10</td></tr><tr><td>2.006</td><td>S8022 Jelson Connection</td><td>5</td><td>100.900</td><td>0.949</td><td>0.000</td><td>0.98</td></tr><tr><td>1.009</td><td>S8023</td><td>5</td><td>100.845</td><td>1.020</td><td>0.000</td><td>2.57</td></tr><tr><td>1.010</td><td>S8025</td><td>5</td><td>100.413</td><td>0.663</td><td>0.000</td><td>1.66</td></tr><tr><td>1.011</td><td>S8026</td><td>5</td><td>100.132</td><td>0.492</td><td>0.000</td><td>0.73</td></tr></tbody></table>								Water	Surcharged	Flooded			PN	US/MH Name	Storm Rank	Level (m)	Depth (m)	Volume (m³)	Flow / Overflow Cap. (l/s)	1.000	S8104 Jelson	5	102.289	-0.127	0.000	0.62	1.001	S8172 Jelson	5	102.004	-0.085	0.000	0.83	1.002	S8105 Jelson	5	101.782	-0.054	0.000	0.95	1.003	S8107 Jelson	5	101.286	-0.235	0.000	0.38	1.004	S8171 Jelson	5	101.250	-0.006	0.000	0.55	1.005	S8170 Jelson	5	101.114	0.448	0.000	0.65	1.006	S8009 - Jelson Connection	5	101.013	0.606	0.000	0.46	1.007	S8010	5	100.970	0.875	0.000	0.84	1.008	S8011	5	100.900	0.915	0.000	0.69	2.000	S8108 Jelson	5	101.628	0.773	0.000	0.65	2.001	S8109 Jelson	5	101.450	1.011	0.000	1.43	2.002	S8110 Jelson	5	101.141	0.855	0.000	3.44	3.000	S8115 Jelson	5	100.892	0.342	0.000	0.46	3.001	S8116 Jelson	5	100.919	0.576	0.000	0.65	2.003	S8111 Jelson	5	100.972	0.713	0.000	0.61	2.004	S8112 Jelson	5	100.960	0.910	0.000	0.98	2.005	S8113 Jelson	5	100.935	0.957	0.000	2.10	2.006	S8022 Jelson Connection	5	100.900	0.949	0.000	0.98	1.009	S8023	5	100.845	1.020	0.000	2.57	1.010	S8025	5	100.413	0.663	0.000	1.66	1.011	S8026	5	100.132	0.492	0.000	0.73
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Elstree Computing Ltd		Network 2020.1.3		
<u>Summary Wizard of 60 minute 100 year Summer I+40% for Surface Network 8</u>				
		Half Drain	Pipe	
	US/MH	Time	Flow	
PN	Name	(mins)	(l/s)	Status
1.000	S8104 Jelson		64.1	OK
1.001	S8172 Jelson		95.5	OK
1.002	S8105 Jelson		106.8	OK
1.003	S8107 Jelson		111.5	OK
1.004	S8171 Jelson		212.3	OK
1.005	S8170 Jelson		185.8	SURCHARGED
1.006	S8009 - Jelson Connection		186.5	SURCHARGED
1.007	S8010		205.2	SURCHARGED
1.008	S8011		212.2	SURCHARGED
2.000	S8108 Jelson		66.7	SURCHARGED
2.001	S8109 Jelson		109.1	SURCHARGED
2.002	S8110 Jelson		138.8	SURCHARGED
3.000	S8115 Jelson	8	129.1	SURCHARGED
3.001	S8116 Jelson		146.0	SURCHARGED
2.003	S8111 Jelson		213.4	SURCHARGED
2.004	S8112 Jelson		232.0	SURCHARGED
2.005	S8113 Jelson		249.8	SURCHARGED
2.006	S8022 Jelson Connection		267.8	SURCHARGED
1.009	S8023		459.3	SURCHARGED
1.010	S8025		531.0	SURCHARGED
1.011	S8026		535.7	SURCHARGED
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1.001	S8172 Jelson	11	101.946	-0.143	0.000	0.53																																																																																																																																																															
1.002	S8105 Jelson	11	101.708	-0.128	0.000	0.62																																																																																																																																																															
1.003	S8107 Jelson	11	101.223	-0.298	0.000	0.25																																																																																																																																																															
1.004	S8171 Jelson	11	100.990	-0.266	0.000	0.35																																																																																																																																																															
1.005	S8170 Jelson	11	100.435	-0.231	0.000	0.48																																																																																																																																																															
1.006	S8009 - Jelson Connection	9	100.305	-0.103	0.000	0.33																																																																																																																																																															
1.007	S8010	9	100.272	0.177	0.000	0.60																																																																																																																																																															
1.008	S8011	9	100.227	0.242	0.000	0.49																																																																																																																																																															
2.000	S8108 Jelson	11	100.696	-0.159	0.000	0.45																																																																																																																																																															
2.001	S8109 Jelson	9	100.584	0.145	0.000	0.94																																																																																																																																																															
2.002	S8110 Jelson	9	100.447	0.161	0.000	2.28																																																																																																																																																															
3.000	S8115 Jelson	8	100.380	-0.170	0.000	0.11																																																																																																																																																															
3.001	S8116 Jelson	9	100.377	0.034	0.000	0.23																																																																																																																																																															
2.003	S8111 Jelson	9	100.369	0.110	0.000	0.40																																																																																																																																																															
2.004	S8112 Jelson	9	100.339	0.289	0.000	0.71																																																																																																																																																															
2.005	S8113 Jelson	9	100.298	0.320	0.000	1.62																																																																																																																																																															
2.006	S8022 Jelson Connection	9	100.254	0.303	0.000	0.81																																																																																																																																																															
1.009	S8023	9	100.187	0.362	0.000	2.13																																																																																																																																																															
1.010	S8025	8	99.816	0.066	0.000	1.32																																																																																																																																																															
1.011	S8026	8	99.403	-0.237	0.000	0.59																																																																																																																																																															
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Elstree Computing Ltd	Network 2020.1.3	

Summary Wizard of 120 minute 100 year Summer I+40% for Surface Network 8

PN	US/MH Name	Half Drain Pipe		Status
		Time (mins)	Flow (l/s)	
1.000	S8104 Jelson		41.6	OK
1.001	S8172 Jelson		61.8	OK
1.002	S8105 Jelson		69.6	OK
1.003	S8107 Jelson		72.3	OK
1.004	S8171 Jelson		136.5	OK
1.005	S8170 Jelson		136.3	OK
1.006	S8009 - Jelson Connection		133.2	OK
1.007	S8010		146.5	SURCHARGED
1.008	S8011		150.7	SURCHARGED
2.000	S8108 Jelson		45.8	OK
2.001	S8109 Jelson		71.8	SURCHARGED
2.002	S8110 Jelson		92.2	SURCHARGED
3.000	S8115 Jelson	8	30.0	OK
3.001	S8116 Jelson		51.2	SURCHARGED
2.003	S8111 Jelson		140.5	SURCHARGED
2.004	S8112 Jelson		167.4	SURCHARGED
2.005	S8113 Jelson		193.1	SURCHARGED
2.006	S8022 Jelson Connection		221.6	SURCHARGED
1.009	S8023		380.3	SURCHARGED
1.010	S8025		423.6	SURCHARGED
1.011	S8026		436.5	OK

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Summary Wizard of 180 minute 100 year Summer I+40% for Surface Network 8

Simulation Criteria

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

Number of Input Hydrographs 0 Number of Storage Structures 2
 Number of Online Controls 1 Number of Time/Area Diagrams 0
 Number of Offline Controls 0 Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model FSR Ratio R 0.404
 Region England and Wales Cv (Summer) 0.750
 M5-60 (mm) 19.900 Cv (Winter) 0.840

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

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

PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded	Flow / Cap.	Overflow (l/s)
			Level (m)	Depth (m)	Volume (m³)		
1.000	S8104 Jelson	14	102.231	-0.185	0.000	0.31	
1.001	S8172 Jelson	14	101.925	-0.164	0.000	0.42	
1.002	S8105 Jelson	14	101.684	-0.152	0.000	0.48	
1.003	S8107 Jelson	14	101.206	-0.315	0.000	0.19	
1.004	S8171 Jelson	14	100.967	-0.289	0.000	0.27	
1.005	S8170 Jelson	13	100.407	-0.259	0.000	0.37	
1.006	S8009 - Jelson Connection	14	100.081	-0.327	0.000	0.26	
1.007	S8010	14	100.042	-0.053	0.000	0.48	
1.008	S8011	14	100.007	0.022	0.000	0.39	
2.000	S8108 Jelson	14	100.678	-0.177	0.000	0.35	
2.001	S8109 Jelson	14	100.388	-0.051	0.000	0.77	
2.002	S8110 Jelson	14	100.293	0.007	0.000	1.86	
3.000	S8115 Jelson	14	100.160	-0.390	0.000	0.08	
3.001	S8116 Jelson	14	100.131	-0.212	0.000	0.16	
2.003	S8111 Jelson	14	100.121	-0.138	0.000	0.31	
2.004	S8112 Jelson	14	100.094	0.044	0.000	0.56	
2.005	S8113 Jelson	14	100.060	0.082	0.000	1.31	
2.006	S8022 Jelson Connection	14	100.024	0.073	0.000	0.67	
1.009	S8023	14	99.977	0.152	0.000	1.73	
1.010	S8025	14	99.750	0.000	0.000	1.08	
1.011	S8026	13	99.334	-0.306	0.000	0.48	

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Summary Wizard of 180 minute 100 year Summer I+40% for Surface Network 8

PN	US/MH Name	Half Drain Pipe		Status
		Time (mins)	Flow (l/s)	
1.000	S8104 Jelson		32.6	OK
1.001	S8172 Jelson		48.3	OK
1.002	S8105 Jelson		54.2	OK
1.003	S8107 Jelson		56.1	OK
1.004	S8171 Jelson		106.2	OK
1.005	S8170 Jelson		105.6	OK
1.006	S8009 - Jelson Connection		104.9	OK
1.007	S8010		116.0	OK
1.008	S8011		120.3	SURCHARGED
2.000	S8108 Jelson		35.9	OK
2.001	S8109 Jelson		58.7	OK
2.002	S8110 Jelson		75.3	SURCHARGED
3.000	S8115 Jelson	15	22.2	OK
3.001	S8116 Jelson		36.6	OK
2.003	S8111 Jelson		108.2	OK
2.004	S8112 Jelson		132.4	SURCHARGED
2.005	S8113 Jelson		156.2	SURCHARGED
2.006	S8022 Jelson Connection		182.0	SURCHARGED
1.009	S8023		309.6	SURCHARGED
1.010	S8025		345.9	OK
1.011	S8026		352.2	OK

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Network 2020.1.3		

Summary Wizard of 180 minute 100 year Summer I+40% for Surface Network 8

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)
4.000		S8068 14	99.165	-0.175	0.000	0.34		
1.012		S8028 13	99.101	0.007	0.000	1.12		
1.013		S8029 13	98.788	-0.182	0.000	0.68		
1.014		S8030 13	98.620	0.000	0.000	1.03		
1.015		S8031 13	98.232	-0.228	0.000	0.72		
1.016		S8034 16	97.768	-0.312	0.000	0.47		
1.017		S8037 24	97.493	0.513	0.000	1.81		
1.018	S8039 - Headwall	17	97.488	0.630	0.000	0.91		
1.019	S8051 - Headwall	17	97.487	0.587	0.000	1.28		
1.020	S8052 Control Chamber	17	97.486	0.686	0.000	0.02		

PN	US/MH Name	Pipe Flow (l/s)	Status
4.000		S8068 23.3	OK
1.012		S8028 395.7	SURCHARGED
1.013		S8029 403.2	OK
1.014		S8030 412.5	OK
1.015		S8031 417.3	OK
1.016		S8034 432.9	OK
1.017		S8037 438.9	SURCHARGED
1.018	S8039 - Headwall	436.1	SURCHARGED*
1.019	S8051 - Headwall	445.3	SURCHARGED*
1.020	S8052 Control Chamber	11.3	SURCHARGED

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Hot Start (mins) 0		MADD Factor * 10m³/ha Storage 0.000																																																																																																																																																																			
Hot Start Level (mm) 0		Inlet Coefficient 0.800																																																																																																																																																																			
Manhole Headloss Coeff (Global) 0.500		Flow per Person per Day (l/per/day) 0.000																																																																																																																																																																			
Foul Sewage per hectare (l/s) 0.000																																																																																																																																																																					
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Rainfall Model		FSR		Ratio R 0.404																																																																																																																																																																	
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Return Period(s) (years)		1, 30, 100																																																																																																																																																																			
Climate Change (%)		0, 0, 40																																																																																																																																																																			
<table><thead><tr><th></th><th></th><th>Water</th><th>Surcharged</th><th>Flooded</th><th></th><th></th></tr><tr><th>PN</th><th>US/MH Name</th><th>Storm Rank</th><th>Level (m)</th><th>Depth (m)</th><th>Volume (m³)</th><th>Flow / Overflow Cap. (l/s)</th></tr></thead><tbody><tr><td>1.000</td><td>S8104 Jelson</td><td>16</td><td>102.218</td><td>-0.198</td><td>0.000</td><td>0.25</td></tr><tr><td>1.001</td><td>S8172 Jelson</td><td>16</td><td>101.909</td><td>-0.180</td><td>0.000</td><td>0.34</td></tr><tr><td>1.002</td><td>S8105 Jelson</td><td>16</td><td>101.666</td><td>-0.170</td><td>0.000</td><td>0.39</td></tr><tr><td>1.003</td><td>S8107 Jelson</td><td>16</td><td>101.190</td><td>-0.331</td><td>0.000</td><td>0.16</td></tr><tr><td>1.004</td><td>S8171 Jelson</td><td>16</td><td>100.949</td><td>-0.307</td><td>0.000</td><td>0.22</td></tr><tr><td>1.005</td><td>S8170 Jelson</td><td>16</td><td>100.384</td><td>-0.282</td><td>0.000</td><td>0.30</td></tr><tr><td>1.006</td><td>S8009 - Jelson Connection</td><td>16</td><td>100.045</td><td>-0.362</td><td>0.000</td><td>0.21</td></tr><tr><td>1.007</td><td>S8010</td><td>16</td><td>99.947</td><td>-0.148</td><td>0.000</td><td>0.39</td></tr><tr><td>1.008</td><td>S8011</td><td>16</td><td>99.918</td><td>-0.067</td><td>0.000</td><td>0.32</td></tr><tr><td>2.000</td><td>S8108 Jelson</td><td>16</td><td>100.663</td><td>-0.192</td><td>0.000</td><td>0.28</td></tr><tr><td>2.001</td><td>S8109 Jelson</td><td>16</td><td>100.346</td><td>-0.093</td><td>0.000</td><td>0.63</td></tr><tr><td>2.002</td><td>S8110 Jelson</td><td>19</td><td>100.286</td><td>0.000</td><td>0.000</td><td>1.52</td></tr><tr><td>3.000</td><td>S8115 Jelson</td><td>16</td><td>100.121</td><td>-0.429</td><td>0.000</td><td>0.06</td></tr><tr><td>3.001</td><td>S8116 Jelson</td><td>16</td><td>100.042</td><td>-0.301</td><td>0.000</td><td>0.13</td></tr><tr><td>2.003</td><td>S8111 Jelson</td><td>16</td><td>100.030</td><td>-0.229</td><td>0.000</td><td>0.26</td></tr><tr><td>2.004</td><td>S8112 Jelson</td><td>16</td><td>100.007</td><td>-0.043</td><td>0.000</td><td>0.48</td></tr><tr><td>2.005</td><td>S8113 Jelson</td><td>17</td><td>99.978</td><td>0.000</td><td>0.000</td><td>1.12</td></tr><tr><td>2.006</td><td>S8022 Jelson Connection</td><td>16</td><td>99.932</td><td>-0.019</td><td>0.000</td><td>0.57</td></tr><tr><td>1.009</td><td>S8023</td><td>16</td><td>99.891</td><td>0.066</td><td>0.000</td><td>1.45</td></tr><tr><td>1.010</td><td>S8025</td><td>16</td><td>99.602</td><td>-0.148</td><td>0.000</td><td>0.91</td></tr><tr><td>1.011</td><td>S8026</td><td>16</td><td>99.306</td><td>-0.334</td><td>0.000</td><td>0.40</td></tr></tbody></table>							Water	Surcharged	Flooded			PN	US/MH Name	Storm Rank	Level (m)	Depth (m)	Volume (m³)	Flow / Overflow Cap. (l/s)	1.000	S8104 Jelson	16	102.218	-0.198	0.000	0.25	1.001	S8172 Jelson	16	101.909	-0.180	0.000	0.34	1.002	S8105 Jelson	16	101.666	-0.170	0.000	0.39	1.003	S8107 Jelson	16	101.190	-0.331	0.000	0.16	1.004	S8171 Jelson	16	100.949	-0.307	0.000	0.22	1.005	S8170 Jelson	16	100.384	-0.282	0.000	0.30	1.006	S8009 - Jelson Connection	16	100.045	-0.362	0.000	0.21	1.007	S8010	16	99.947	-0.148	0.000	0.39	1.008	S8011	16	99.918	-0.067	0.000	0.32	2.000	S8108 Jelson	16	100.663	-0.192	0.000	0.28	2.001	S8109 Jelson	16	100.346	-0.093	0.000	0.63	2.002	S8110 Jelson	19	100.286	0.000	0.000	1.52	3.000	S8115 Jelson	16	100.121	-0.429	0.000	0.06	3.001	S8116 Jelson	16	100.042	-0.301	0.000	0.13	2.003	S8111 Jelson	16	100.030	-0.229	0.000	0.26	2.004	S8112 Jelson	16	100.007	-0.043	0.000	0.48	2.005	S8113 Jelson	17	99.978	0.000	0.000	1.12	2.006	S8022 Jelson Connection	16	99.932	-0.019	0.000	0.57	1.009	S8023	16	99.891	0.066	0.000	1.45	1.010	S8025	16	99.602	-0.148	0.000	0.91	1.011	S8026	16	99.306	-0.334	0.000	0.40
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3.000	S8115 Jelson	16	100.121	-0.429	0.000	0.06																																																																																																																																																															
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Elstree Computing Ltd		Network 2020.1.3		
<u>Summary Wizard of 240 minute 100 year Summer I+40% for Surface Network 8</u>				
PN	US/MH Name	Half Drain Time (mins)	Pipe Flow (l/s)	Status
1.000	S8104 Jelson		26.2	OK
1.001	S8172 Jelson		38.9	OK
1.002	S8105 Jelson		43.8	OK
1.003	S8107 Jelson		45.5	OK
1.004	S8171 Jelson		85.9	OK
1.005	S8170 Jelson		85.8	OK
1.006	S8009 - Jelson Connection		85.8	OK
1.007	S8010		95.1	OK
1.008	S8011		97.1	OK
2.000	S8108 Jelson		28.8	OK
2.001	S8109 Jelson		47.6	OK
2.002	S8110 Jelson		61.3	OK
3.000	S8115 Jelson	36	17.9	OK
3.001	S8116 Jelson		30.0	OK
2.003	S8111 Jelson		91.8	OK
2.004	S8112 Jelson		113.4	OK
2.005	S8113 Jelson		133.5	OK
2.006	S8022 Jelson Connection		154.8	OK
1.009	S8023		258.6	SURCHARGED
1.010	S8025		290.7	OK
1.011	S8026		297.9	OK
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Elstree Computing Ltd		Network 2020.1.3		
<u>Summary Wizard of 360 minute 100 year Summer I+40% for Surface Network 8</u>				
PN	US/MH Name	Half Drain Time (mins)	Pipe Flow (l/s)	Status
1.000	S8104 Jelson		19.0	OK
1.001	S8172 Jelson		28.3	OK
1.002	S8105 Jelson		31.9	OK
1.003	S8107 Jelson		33.2	OK
1.004	S8171 Jelson		62.5	OK
1.005	S8170 Jelson		62.5	OK
1.006	S8009 - Jelson Connection		62.5	OK
1.007	S8010		69.1	OK
1.008	S8011		68.4	OK
2.000	S8108 Jelson		21.0	OK
2.001	S8109 Jelson		34.7	OK
2.002	S8110 Jelson		44.7	OK
3.000	S8115 Jelson	48	13.1	OK
3.001	S8116 Jelson		21.9	OK
2.003	S8111 Jelson		66.2	OK
2.004	S8112 Jelson		80.9	OK
2.005	S8113 Jelson		94.9	OK
2.006	S8022 Jelson Connection		110.1	OK
1.009	S8023		183.6	OK
1.010	S8025		205.1	OK
1.011	S8026		210.0	OK
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Summary Wizard of 480 minute 100 year Summer I+40% for Surface Network 8

Simulation Criteria

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

Number of Input Hydrographs 0 Number of Storage Structures 2
 Number of Online Controls 1 Number of Time/Area Diagrams 0
 Number of Offline Controls 0 Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model FSR Ratio R 0.404
 Region England and Wales Cv (Summer) 0.750
 M5-60 (mm) 19.900 Cv (Winter) 0.840

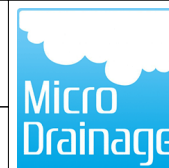
Margin for Flood Risk Warning (mm) 300.0 DVD Status OFF
 Analysis Timestep Fine Inertia Status OFF
 DTS Status ON

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

PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded	Flow / Cap.	Overflow (l/s)
			Level (m)	Depth (m)	Volume (m³)		
1.000	S8104 Jelson	27	102.192	-0.224	0.000	0.15	
1.001	S8172 Jelson	27	101.878	-0.211	0.000	0.19	
1.002	S8105 Jelson	27	101.632	-0.204	0.000	0.23	
1.003	S8107 Jelson	27	101.162	-0.359	0.000	0.09	
1.004	S8171 Jelson	27	100.912	-0.344	0.000	0.13	
1.005	S8170 Jelson	27	100.341	-0.325	0.000	0.17	
1.006	S8009 - Jelson Connection	27	100.004	-0.404	0.000	0.12	
1.007	S8010	27	99.760	-0.335	0.000	0.23	
1.008	S8011	27	99.694	-0.291	0.000	0.19	
2.000	S8108 Jelson	27	100.636	-0.219	0.000	0.16	
2.001	S8109 Jelson	27	100.264	-0.175	0.000	0.36	
2.002	S8110 Jelson	27	100.184	-0.102	0.000	0.88	
3.000	S8115 Jelson	27	100.090	-0.460	0.000	0.04	
3.001	S8116 Jelson	27	99.927	-0.416	0.000	0.08	
2.003	S8111 Jelson	27	99.871	-0.388	0.000	0.15	
2.004	S8112 Jelson	27	99.786	-0.264	0.000	0.28	
2.005	S8113 Jelson	27	99.768	-0.210	0.000	0.67	
2.006	S8022 Jelson Connection	27	99.702	-0.249	0.000	0.34	
1.009	S8023	27	99.679	-0.146	0.000	0.87	
1.010	S8025	27	99.465	-0.285	0.000	0.54	
1.011	S8026	27	99.239	-0.401	0.000	0.24	

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<u>Summary Wizard of 480 minute 100 year Summer I+40% for Surface Network 8</u>				
PN	US/MH Name	Half Drain Time (mins)	Pipe Flow (l/s)	Status
1.000	S8104 Jelson		15.2	OK
1.001	S8172 Jelson		22.5	OK
1.002	S8105 Jelson		25.4	OK
1.003	S8107 Jelson		26.4	OK
1.004	S8171 Jelson		49.8	OK
1.005	S8170 Jelson		49.8	OK
1.006	S8009 - Jelson Connection		49.8	OK
1.007	S8010		55.7	OK
1.008	S8011		57.8	OK
2.000	S8108 Jelson		16.7	OK
2.001	S8109 Jelson		27.6	OK
2.002	S8110 Jelson		35.6	OK
3.000	S8115 Jelson	72	10.4	OK
3.001	S8116 Jelson		18.0	OK
2.003	S8111 Jelson		54.2	OK
2.004	S8112 Jelson		67.1	OK
2.005	S8113 Jelson		79.7	OK
2.006	S8022 Jelson Connection		93.1	OK
1.009	S8023		154.7	OK
1.010	S8025		173.4	OK
1.011	S8026		177.3	OK
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85 Adllington Road
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Elstree Computing Ltd

Network 2020.1.3

Summary Wizard of 480 minute 100 year Summer I+40% for Surface Network 8

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m ³)	Flow / Cap.	Overflow (l/s)	Half Drain
								Time (mins)
4.000		S8068	27	99.120	-0.220	0.000	0.16	
1.012		S8028	24	98.819	-0.275	0.000	0.57	
1.013		S8029	24	98.614	-0.356	0.000	0.34	
1.014		S8030	24	98.329	-0.291	0.000	0.52	
1.015		S8031	24	98.111	-0.349	0.000	0.36	
1.016		S8034	30	97.680	-0.400	0.000	0.24	
1.017		S8037	17	97.609	0.629	0.000	0.92	
1.018	S8039 -	Headwall	12	97.606	0.748	0.000	0.47	
1.019	S8051 -	Headwall	12	97.606	0.706	0.000	0.66	
1.020	S8052	Control Chamber	12	97.605	0.805	0.000	0.02	

PN	US/MH Name	Pipe Flow (1/s)	Status
4.000	S8068	11.0	OK
1.012	S8028	200.5	OK
1.013	S8029	204.1	OK
1.014	S8030	208.8	OK
1.015	S8031	210.3	OK
1.016	S8034	218.9	OK
1.017	S8037	223.5	SURCHARGED
1.018	S8039 - Headwall	223.6	SURCHARGED*
1.019	S8051 - Headwall	228.9	SURCHARGED*
1.020	S8052 Control Chamber	11.3	SURCHARGED

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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																																																																																																																																																																		
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Return Period(s) (years)		1, 30, 100																																																																																																																																																																
Climate Change (%)		0, 0, 40																																																																																																																																																																
<table><tr><th rowspan="2">PN</th><th rowspan="2">US/MH Name</th><th rowspan="2">Storm Rank</th><th>Water</th><th>Surcharged</th><th>Flooded</th><th rowspan="2">Flow / Overflow</th></tr><tr><th>Level (m)</th><th>Depth (m)</th><th>Volume (m³)</th><th>Cap. (l/s)</th></tr><tr><td>1.000</td><td>S8104 Jelson</td><td>32</td><td>102.185</td><td>-0.231</td><td>0.000</td><td>0.12</td></tr><tr><td>1.001</td><td>S8172 Jelson</td><td>32</td><td>101.870</td><td>-0.219</td><td>0.000</td><td>0.16</td></tr><tr><td>1.002</td><td>S8105 Jelson</td><td>32</td><td>101.624</td><td>-0.212</td><td>0.000</td><td>0.19</td></tr><tr><td>1.003</td><td>S8107 Jelson</td><td>32</td><td>101.153</td><td>-0.368</td><td>0.000</td><td>0.08</td></tr><tr><td>1.004</td><td>S8171 Jelson</td><td>32</td><td>100.904</td><td>-0.352</td><td>0.000</td><td>0.11</td></tr><tr><td>1.005</td><td>S8170 Jelson</td><td>32</td><td>100.330</td><td>-0.336</td><td>0.000</td><td>0.15</td></tr><tr><td>1.006</td><td>S8009 - Jelson Connection</td><td>32</td><td>99.994</td><td>-0.414</td><td>0.000</td><td>0.10</td></tr><tr><td>1.007</td><td>S8010</td><td>32</td><td>99.734</td><td>-0.361</td><td>0.000</td><td>0.19</td></tr><tr><td>1.008</td><td>S8011</td><td>32</td><td>99.653</td><td>-0.332</td><td>0.000</td><td>0.16</td></tr><tr><td>2.000</td><td>S8108 Jelson</td><td>32</td><td>100.628</td><td>-0.227</td><td>0.000</td><td>0.14</td></tr><tr><td>2.001</td><td>S8109 Jelson</td><td>32</td><td>100.252</td><td>-0.187</td><td>0.000</td><td>0.30</td></tr><tr><td>2.002</td><td>S8110 Jelson</td><td>32</td><td>100.152</td><td>-0.134</td><td>0.000</td><td>0.74</td></tr><tr><td>3.000</td><td>S8115 Jelson</td><td>32</td><td>100.085</td><td>-0.465</td><td>0.000</td><td>0.03</td></tr><tr><td>3.001</td><td>S8116 Jelson</td><td>32</td><td>99.917</td><td>-0.426</td><td>0.000</td><td>0.07</td></tr><tr><td>2.003</td><td>S8111 Jelson</td><td>32</td><td>99.859</td><td>-0.400</td><td>0.000</td><td>0.13</td></tr><tr><td>2.004</td><td>S8112 Jelson</td><td>32</td><td>99.755</td><td>-0.295</td><td>0.000</td><td>0.24</td></tr><tr><td>2.005</td><td>S8113 Jelson</td><td>32</td><td>99.734</td><td>-0.244</td><td>0.000</td><td>0.56</td></tr><tr><td>2.006</td><td>S8022 Jelson Connection</td><td>32</td><td>99.661</td><td>-0.290</td><td>0.000</td><td>0.29</td></tr><tr><td>1.009</td><td>S8023</td><td>32</td><td>99.633</td><td>-0.192</td><td>0.000</td><td>0.73</td></tr><tr><td>1.010</td><td>S8025</td><td>32</td><td>99.433</td><td>-0.317</td><td>0.000</td><td>0.45</td></tr><tr><td>1.011</td><td>S8026</td><td>32</td><td>99.222</td><td>-0.418</td><td>0.000</td><td>0.20</td></tr></table>					PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded	Flow / Overflow	Level (m)	Depth (m)	Volume (m³)	Cap. (l/s)	1.000	S8104 Jelson	32	102.185	-0.231	0.000	0.12	1.001	S8172 Jelson	32	101.870	-0.219	0.000	0.16	1.002	S8105 Jelson	32	101.624	-0.212	0.000	0.19	1.003	S8107 Jelson	32	101.153	-0.368	0.000	0.08	1.004	S8171 Jelson	32	100.904	-0.352	0.000	0.11	1.005	S8170 Jelson	32	100.330	-0.336	0.000	0.15	1.006	S8009 - Jelson Connection	32	99.994	-0.414	0.000	0.10	1.007	S8010	32	99.734	-0.361	0.000	0.19	1.008	S8011	32	99.653	-0.332	0.000	0.16	2.000	S8108 Jelson	32	100.628	-0.227	0.000	0.14	2.001	S8109 Jelson	32	100.252	-0.187	0.000	0.30	2.002	S8110 Jelson	32	100.152	-0.134	0.000	0.74	3.000	S8115 Jelson	32	100.085	-0.465	0.000	0.03	3.001	S8116 Jelson	32	99.917	-0.426	0.000	0.07	2.003	S8111 Jelson	32	99.859	-0.400	0.000	0.13	2.004	S8112 Jelson	32	99.755	-0.295	0.000	0.24	2.005	S8113 Jelson	32	99.734	-0.244	0.000	0.56	2.006	S8022 Jelson Connection	32	99.661	-0.290	0.000	0.29	1.009	S8023	32	99.633	-0.192	0.000	0.73	1.010	S8025	32	99.433	-0.317	0.000	0.45	1.011	S8026	32	99.222	-0.418	0.000	0.20
PN	US/MH Name	Storm Rank	Water	Surcharged				Flooded	Flow / Overflow																																																																																																																																																									
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Elstree Computing Ltd		Network 2020.1.3

Summary Wizard of 600 minute 100 year Summer I+40% for Surface Network 8

PN	US/MH Name	Half Drain Time (mins)	Pipe Flow (l/s)	Status
1.000	S8104 Jelson		12.7	OK
1.001	S8172 Jelson		18.9	OK
1.002	S8105 Jelson		21.3	OK
1.003	S8107 Jelson		22.1	OK
1.004	S8171 Jelson		41.7	OK
1.005	S8170 Jelson		41.7	OK
1.006	S8009 - Jelson Connection		41.7	OK
1.007	S8010		46.7	OK
1.008	S8011		48.4	OK
2.000	S8108 Jelson		14.0	OK
2.001	S8109 Jelson		23.1	OK
2.002	S8110 Jelson		29.8	OK
3.000	S8115 Jelson	70	8.7	OK
3.001	S8116 Jelson		15.1	OK
2.003	S8111 Jelson		45.4	OK
2.004	S8112 Jelson		56.2	OK
2.005	S8113 Jelson		66.7	OK
2.006	S8022 Jelson Connection		78.0	OK
1.009	S8023		130.0	OK
1.010	S8025		145.8	OK
1.011	S8026		149.4	OK

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Summary Wizard of 600 minute 100 year Summer I+40% for Surface Network 8

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Overflow Cap. (l/s)	Half Drain Time (mins)
4.000		S8068 32	99.113	-0.227	0.000	0.13	
1.012		S8028 32	98.786	-0.308	0.000	0.48	
1.013		S8029 31	98.590	-0.380	0.000	0.29	
1.014		S8030 31	98.298	-0.322	0.000	0.44	
1.015		S8031 31	98.087	-0.373	0.000	0.31	
1.016		S8034 36	97.663	-0.417	0.000	0.20	
1.017		S8037 16	97.617	0.637	0.000	0.79	
1.018	S8039 - Headwall	9	97.615	0.757	0.000	0.40	
1.019	S8051 - Headwall	9	97.614	0.714	0.000	0.57	
1.020	S8052 Control Chamber	9	97.613	0.813	0.000	0.02	

PN	US/MH Name	Pipe Flow (l/s)	Status
4.000		S8068 9.2	OK
1.012		S8028 169.0	OK
1.013		S8029 172.8	OK
1.014		S8030 176.8	OK
1.015		S8031 179.3	OK
1.016		S8034 187.2	OK
1.017		S8037 191.8	SURCHARGED
1.018	S8039 - Headwall	191.2	SURCHARGED*
1.019	S8051 - Headwall	196.3	SURCHARGED*
1.020	S8052 Control Chamber	11.4	SURCHARGED

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Areal Reduction Factor 1.000		Additional Flow - % of Total Flow 0.000																																																																																																																																																																																					
Hot Start (mins) 0		MADD Factor * 10m³/ha Storage 0.000																																																																																																																																																																																					
Hot Start Level (mm) 0		Inlet Coefficient 0.800																																																																																																																																																																																					
Manhole Headloss Coeff (Global) 0.500		Flow per Person per Day (l/per/day) 0.000																																																																																																																																																																																					
Foul Sewage per hectare (l/s) 0.000																																																																																																																																																																																							
Number of Input Hydrographs 0 Number of Storage Structures 2																																																																																																																																																																																							
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<u>Synthetic Rainfall Details</u>																																																																																																																																																																																							
Rainfall Model		FSR	Ratio R 0.404																																																																																																																																																																																				
Region England and Wales		Cv (Summer)	0.750																																																																																																																																																																																				
M5-60 (mm)		19.900	Cv (Winter) 0.840																																																																																																																																																																																				
Margin for Flood Risk Warning (mm) 300.0		DVD Status OFF																																																																																																																																																																																					
Analysis Timestep		Fine	Inertia Status OFF																																																																																																																																																																																				
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Profile(s) Summer and Winter																																																																																																																																																																																							
Duration(s) (mins)		15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440																																																																																																																																																																																					
Return Period(s) (years)		1, 30, 100																																																																																																																																																																																					
Climate Change (%)		0, 0, 40																																																																																																																																																																																					
<table><tr><th rowspan="2">PN</th><th rowspan="2">US/MH Name</th><th rowspan="2">Storm Rank</th><th>Water</th><th>Surcharged</th><th>Flooded</th><th rowspan="2">Flow / Cap.</th><th rowspan="2">Overflow (l/s)</th></tr><tr><th>Level (m)</th><th>Depth (m)</th><th>Volume (m³)</th></tr><tr><td>1.000</td><td>S8104 Jelson</td><td>35</td><td>102.181</td><td>-0.235</td><td>0.000</td><td>0.11</td><td></td></tr><tr><td>1.001</td><td>S8172 Jelson</td><td>35</td><td>101.864</td><td>-0.225</td><td>0.000</td><td>0.14</td><td></td></tr><tr><td>1.002</td><td>S8105 Jelson</td><td>35</td><td>101.617</td><td>-0.219</td><td>0.000</td><td>0.16</td><td></td></tr><tr><td>1.003</td><td>S8107 Jelson</td><td>35</td><td>101.146</td><td>-0.375</td><td>0.000</td><td>0.07</td><td></td></tr><tr><td>1.004</td><td>S8171 Jelson</td><td>35</td><td>100.898</td><td>-0.358</td><td>0.000</td><td>0.09</td><td></td></tr><tr><td>1.005</td><td>S8170 Jelson</td><td>35</td><td>100.321</td><td>-0.345</td><td>0.000</td><td>0.13</td><td></td></tr><tr><td>1.006</td><td>S8009 - Jelson Connection</td><td>35</td><td>99.987</td><td>-0.420</td><td>0.000</td><td>0.09</td><td></td></tr><tr><td>1.007</td><td>S8010</td><td>35</td><td>99.717</td><td>-0.378</td><td>0.000</td><td>0.17</td><td></td></tr><tr><td>1.008</td><td>S8011</td><td>35</td><td>99.627</td><td>-0.358</td><td>0.000</td><td>0.14</td><td></td></tr><tr><td>2.000</td><td>S8108 Jelson</td><td>35</td><td>100.623</td><td>-0.232</td><td>0.000</td><td>0.12</td><td></td></tr><tr><td>2.001</td><td>S8109 Jelson</td><td>35</td><td>100.243</td><td>-0.196</td><td>0.000</td><td>0.26</td><td></td></tr><tr><td>2.002</td><td>S8110 Jelson</td><td>35</td><td>100.129</td><td>-0.157</td><td>0.000</td><td>0.64</td><td></td></tr><tr><td>3.000</td><td>S8115 Jelson</td><td>35</td><td>100.082</td><td>-0.468</td><td>0.000</td><td>0.03</td><td></td></tr><tr><td>3.001</td><td>S8116 Jelson</td><td>35</td><td>99.908</td><td>-0.435</td><td>0.000</td><td>0.06</td><td></td></tr><tr><td>2.003</td><td>S8111 Jelson</td><td>35</td><td>99.850</td><td>-0.409</td><td>0.000</td><td>0.11</td><td></td></tr><tr><td>2.004</td><td>S8112 Jelson</td><td>35</td><td>99.733</td><td>-0.317</td><td>0.000</td><td>0.21</td><td></td></tr><tr><td>2.005</td><td>S8113 Jelson</td><td>35</td><td>99.711</td><td>-0.267</td><td>0.000</td><td>0.49</td><td></td></tr><tr><td>2.006</td><td>S8022 Jelson Connection</td><td>35</td><td>99.634</td><td>-0.317</td><td>0.000</td><td>0.25</td><td></td></tr><tr><td>1.009</td><td>S8023</td><td>35</td><td>99.602</td><td>-0.223</td><td>0.000</td><td>0.63</td><td></td></tr><tr><td>1.010</td><td>S8025</td><td>35</td><td>99.410</td><td>-0.340</td><td>0.000</td><td>0.39</td><td></td></tr><tr><td>1.011</td><td>S8026</td><td>35</td><td>99.208</td><td>-0.432</td><td>0.000</td><td>0.17</td><td></td></tr></table>					PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded	Flow / Cap.	Overflow (l/s)	Level (m)	Depth (m)	Volume (m³)	1.000	S8104 Jelson	35	102.181	-0.235	0.000	0.11		1.001	S8172 Jelson	35	101.864	-0.225	0.000	0.14		1.002	S8105 Jelson	35	101.617	-0.219	0.000	0.16		1.003	S8107 Jelson	35	101.146	-0.375	0.000	0.07		1.004	S8171 Jelson	35	100.898	-0.358	0.000	0.09		1.005	S8170 Jelson	35	100.321	-0.345	0.000	0.13		1.006	S8009 - Jelson Connection	35	99.987	-0.420	0.000	0.09		1.007	S8010	35	99.717	-0.378	0.000	0.17		1.008	S8011	35	99.627	-0.358	0.000	0.14		2.000	S8108 Jelson	35	100.623	-0.232	0.000	0.12		2.001	S8109 Jelson	35	100.243	-0.196	0.000	0.26		2.002	S8110 Jelson	35	100.129	-0.157	0.000	0.64		3.000	S8115 Jelson	35	100.082	-0.468	0.000	0.03		3.001	S8116 Jelson	35	99.908	-0.435	0.000	0.06		2.003	S8111 Jelson	35	99.850	-0.409	0.000	0.11		2.004	S8112 Jelson	35	99.733	-0.317	0.000	0.21		2.005	S8113 Jelson	35	99.711	-0.267	0.000	0.49		2.006	S8022 Jelson Connection	35	99.634	-0.317	0.000	0.25		1.009	S8023	35	99.602	-0.223	0.000	0.63		1.010	S8025	35	99.410	-0.340	0.000	0.39		1.011	S8026	35	99.208	-0.432	0.000	0.17	
PN	US/MH Name	Storm Rank	Water	Surcharged				Flooded	Flow / Cap.	Overflow (l/s)																																																																																																																																																																													
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1.005	S8170 Jelson	35	100.321	-0.345	0.000	0.13																																																																																																																																																																																	
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2.000	S8108 Jelson	35	100.623	-0.232	0.000	0.12																																																																																																																																																																																	
2.001	S8109 Jelson	35	100.243	-0.196	0.000	0.26																																																																																																																																																																																	
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3.000	S8115 Jelson	35	100.082	-0.468	0.000	0.03																																																																																																																																																																																	
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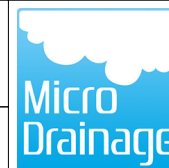
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Summary Wizard of 720 minute 100 year Summer I+40% for Surface Network 8

PN	US/MH Name	Half Drain Time (mins)	Pipe Flow (l/s)	Status
1.000	S8104 Jelson		11.0	OK
1.001	S8172 Jelson		16.3	OK
1.002	S8105 Jelson		18.4	OK
1.003	S8107 Jelson		19.1	OK
1.004	S8171 Jelson		36.0	OK
1.005	S8170 Jelson		36.0	OK
1.006	S8009 - Jelson Connection		36.0	OK
1.007	S8010		40.4	OK
1.008	S8011		41.9	OK
2.000	S8108 Jelson		12.1	OK
2.001	S8109 Jelson		20.0	OK
2.002	S8110 Jelson		25.8	OK
3.000	S8115 Jelson	84	7.6	OK
3.001	S8116 Jelson		13.0	OK
2.003	S8111 Jelson		39.3	OK
2.004	S8112 Jelson		48.6	OK
2.005	S8113 Jelson		57.7	OK
2.006	S8022 Jelson Connection		67.4	OK
1.009	S8023		112.4	OK
1.010	S8025		126.1	OK
1.011	S8026		129.2	OK

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Network 2020.1.3

Summary Wizard of 720 minute 100 year Summer I+40% for Surface Network 8

PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded	Half Drain		
			Level (m)	Depth (m)	Volume (m³)	Flow / Cap.	Overflow (l/s)	Time (mins)
4.000		S8068	35	99.108	-0.232	0.000	0.12	
1.012		S8028	35	98.762	-0.332	0.000	0.41	
1.013		S8029	35	98.573	-0.397	0.000	0.25	
1.014		S8030	35	98.276	-0.344	0.000	0.38	
1.015		S8031	35	98.069	-0.391	0.000	0.27	
1.016		S8034	39	97.649	-0.431	0.000	0.18	
1.017		S8037	14	97.619	0.639	0.000	0.69	
1.018	S8039 - Headwall	8	97.617	0.759	0.000	0.35		
1.019	S8051 - Headwall	8	97.616	0.716	0.000	0.49		
1.020	S8052 Control Chamber	8	97.616	0.816	0.000	0.02		

PN	US/MH Name	Pipe Flow (l/s)	Status
4.000		S8068 8.0	OK
1.012		S8028 146.2	OK
1.013		S8029 149.5	OK
1.014		S8030 153.0	OK
1.015		S8031 155.2	OK
1.016		S8034 162.0	OK
1.017		S8037 166.1	SURCHARGED
1.018	S8039 - Headwall	165.8	SURCHARGED*
1.019	S8051 - Headwall	170.3	SURCHARGED*
1.020	S8052 Control Chamber	11.4	SURCHARGED

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Summary Wizard of 960 minute 100 year Summer I+40% for Surface Network 8

Simulation Criteria

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

Number of Input Hydrographs 0 Number of Storage Structures 2
 Number of Online Controls 1 Number of Time/Area Diagrams 0
 Number of Offline Controls 0 Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model FSR Ratio R 0.404
 Region England and Wales Cv (Summer) 0.750
 M5-60 (mm) 19.900 Cv (Winter) 0.840

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

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

PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded	Flow / Cap.	Overflow (l/s)
			Level (m)	Depth (m)	Volume (m³)		
1.000	S8104 Jelson	40	102.174	-0.242	0.000	0.08	
1.001	S8172 Jelson	40	101.856	-0.233	0.000	0.11	
1.002	S8105 Jelson	40	101.608	-0.228	0.000	0.13	
1.003	S8107 Jelson	40	101.137	-0.384	0.000	0.05	
1.004	S8171 Jelson	40	100.886	-0.370	0.000	0.07	
1.005	S8170 Jelson	40	100.311	-0.355	0.000	0.10	
1.006	S8009 - Jelson Connection	40	99.973	-0.434	0.000	0.07	
1.007	S8010	40	99.696	-0.399	0.000	0.13	
1.008	S8011	40	99.596	-0.389	0.000	0.11	
2.000	S8108 Jelson	40	100.617	-0.238	0.000	0.09	
2.001	S8109 Jelson	40	100.232	-0.207	0.000	0.21	
2.002	S8110 Jelson	40	100.100	-0.186	0.000	0.51	
3.000	S8115 Jelson	40	100.078	-0.472	0.000	0.02	
3.001	S8116 Jelson	40	99.897	-0.446	0.000	0.05	
2.003	S8111 Jelson	40	99.839	-0.420	0.000	0.09	
2.004	S8112 Jelson	40	99.703	-0.347	0.000	0.16	
2.005	S8113 Jelson	40	99.678	-0.300	0.000	0.39	
2.006	S8022 Jelson Connection	40	99.600	-0.351	0.000	0.20	
1.009	S8023	40	99.563	-0.262	0.000	0.50	
1.010	S8025	40	99.379	-0.371	0.000	0.31	
1.011	S8026	40	99.188	-0.452	0.000	0.14	

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Summary Wizard of 960 minute 100 year Summer I+40% for Surface Network 8

PN	US/MH Name	Half Drain Time (mins)	Pipe Flow (l/s)	Status
1.000	S8104 Jelson		8.7	OK
1.001	S8172 Jelson		13.0	OK
1.002	S8105 Jelson		14.6	OK
1.003	S8107 Jelson		15.2	OK
1.004	S8171 Jelson		28.6	OK
1.005	S8170 Jelson		28.6	OK
1.006	S8009 - Jelson Connection		28.6	OK
1.007	S8010		32.1	OK
1.008	S8011		33.3	OK
2.000	S8108 Jelson		9.6	OK
2.001	S8109 Jelson		15.9	OK
2.002	S8110 Jelson		20.5	OK
3.000	S8115 Jelson	96	6.0	OK
3.001	S8116 Jelson		10.3	OK
2.003	S8111 Jelson		31.2	OK
2.004	S8112 Jelson		38.6	OK
2.005	S8113 Jelson		45.8	OK
2.006	S8022 Jelson Connection		53.6	OK
1.009	S8023		89.3	OK
1.010	S8025		100.2	OK
1.011	S8026		102.7	OK

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Elstree Computing Ltd		Network 2020.1.3

Summary Wizard of 960 minute 100 year Summer I+40% for Surface Network 8

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)
4.000		S8068	40 99.101	-0.239	0.000	0.09		
1.012		S8028	40 98.730	-0.364	0.000	0.33		
1.013		S8029	40 98.551	-0.419	0.000	0.20		
1.014		S8030	40 98.245	-0.375	0.000	0.30		
1.015		S8031	40 98.046	-0.414	0.000	0.21		
1.016		S8034	43 97.629	-0.451	0.000	0.14		
1.017		S8037	18 97.608	0.628	0.000	0.55		
1.018	S8039 - Headwall	11 97.606		0.748	0.000	0.28		
1.019	S8051 - Headwall	11 97.606		0.706	0.000	0.39		
1.020	S8052 Control Chamber	11 97.605		0.805	0.000	0.02		

PN	US/MH Name	Pipe Flow (l/s)	Status
4.000		S8068 6.3	OK
1.012		S8028 116.2	OK
1.013		S8029 118.8	OK
1.014		S8030 121.6	OK
1.015		S8031 123.3	OK
1.016		S8034 128.8	OK
1.017		S8037 132.1	SURCHARGED
1.018	S8039 - Headwall	131.8	SURCHARGED*
1.019	S8051 - Headwall	135.5	SURCHARGED*
1.020	S8052 Control Chamber	11.3	SURCHARGED

JS Bloor (Wilmslow) Ltd			Page 110																																																																																																																																																																																									
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Climate Change (%)		0, 0, 40																																																																																																																																																																																										
<table><thead><tr><th></th><th></th><th></th><th>Water</th><th>Surcharged</th><th>Flooded</th><th></th><th></th></tr><tr><th>PN</th><th>US/MH Name</th><th>Storm Rank</th><th>Level (m)</th><th>Depth (m)</th><th>Volume (m³)</th><th>Flow / Cap.</th><th>Overflow (l/s)</th></tr></thead><tbody><tr><td>1.000</td><td>S8104 Jelson</td><td>49</td><td>102.164</td><td>-0.252</td><td>0.000</td><td>0.06</td><td></td></tr><tr><td>1.001</td><td>S8172 Jelson</td><td>49</td><td>101.846</td><td>-0.243</td><td>0.000</td><td>0.08</td><td></td></tr><tr><td>1.002</td><td>S8105 Jelson</td><td>49</td><td>101.598</td><td>-0.238</td><td>0.000</td><td>0.09</td><td></td></tr><tr><td>1.003</td><td>S8107 Jelson</td><td>49</td><td>101.127</td><td>-0.394</td><td>0.000</td><td>0.04</td><td></td></tr><tr><td>1.004</td><td>S8171 Jelson</td><td>49</td><td>100.872</td><td>-0.384</td><td>0.000</td><td>0.05</td><td></td></tr><tr><td>1.005</td><td>S8170 Jelson</td><td>49</td><td>100.295</td><td>-0.371</td><td>0.000</td><td>0.07</td><td></td></tr><tr><td>1.006</td><td>S8009 - Jelson Connection</td><td>49</td><td>99.958</td><td>-0.450</td><td>0.000</td><td>0.05</td><td></td></tr><tr><td>1.007</td><td>S8010</td><td>49</td><td>99.678</td><td>-0.417</td><td>0.000</td><td>0.10</td><td></td></tr><tr><td>1.008</td><td>S8011</td><td>49</td><td>99.566</td><td>-0.419</td><td>0.000</td><td>0.08</td><td></td></tr><tr><td>2.000</td><td>S8108 Jelson</td><td>49</td><td>100.606</td><td>-0.249</td><td>0.000</td><td>0.07</td><td></td></tr><tr><td>2.001</td><td>S8109 Jelson</td><td>49</td><td>100.216</td><td>-0.223</td><td>0.000</td><td>0.15</td><td></td></tr><tr><td>2.002</td><td>S8110 Jelson</td><td>49</td><td>100.068</td><td>-0.218</td><td>0.000</td><td>0.37</td><td></td></tr><tr><td>3.000</td><td>S8115 Jelson</td><td>49</td><td>100.063</td><td>-0.487</td><td>0.000</td><td>0.02</td><td></td></tr><tr><td>3.001</td><td>S8116 Jelson</td><td>49</td><td>99.884</td><td>-0.459</td><td>0.000</td><td>0.03</td><td></td></tr><tr><td>2.003</td><td>S8111 Jelson</td><td>49</td><td>99.820</td><td>-0.439</td><td>0.000</td><td>0.06</td><td></td></tr><tr><td>2.004</td><td>S8112 Jelson</td><td>49</td><td>99.669</td><td>-0.381</td><td>0.000</td><td>0.12</td><td></td></tr><tr><td>2.005</td><td>S8113 Jelson</td><td>49</td><td>99.641</td><td>-0.337</td><td>0.000</td><td>0.28</td><td></td></tr><tr><td>2.006</td><td>S8022 Jelson Connection</td><td>49</td><td>99.564</td><td>-0.387</td><td>0.000</td><td>0.14</td><td></td></tr><tr><td>1.009</td><td>S8023</td><td>49</td><td>99.518</td><td>-0.307</td><td>0.000</td><td>0.36</td><td></td></tr><tr><td>1.010</td><td>S8025</td><td>48</td><td>99.342</td><td>-0.408</td><td>0.000</td><td>0.23</td><td></td></tr><tr><td>1.011</td><td>S8026</td><td>48</td><td>99.167</td><td>-0.473</td><td>0.000</td><td>0.10</td><td></td></tr></tbody></table>								Water	Surcharged	Flooded			PN	US/MH Name	Storm Rank	Level (m)	Depth (m)	Volume (m³)	Flow / Cap.	Overflow (l/s)	1.000	S8104 Jelson	49	102.164	-0.252	0.000	0.06		1.001	S8172 Jelson	49	101.846	-0.243	0.000	0.08		1.002	S8105 Jelson	49	101.598	-0.238	0.000	0.09		1.003	S8107 Jelson	49	101.127	-0.394	0.000	0.04		1.004	S8171 Jelson	49	100.872	-0.384	0.000	0.05		1.005	S8170 Jelson	49	100.295	-0.371	0.000	0.07		1.006	S8009 - Jelson Connection	49	99.958	-0.450	0.000	0.05		1.007	S8010	49	99.678	-0.417	0.000	0.10		1.008	S8011	49	99.566	-0.419	0.000	0.08		2.000	S8108 Jelson	49	100.606	-0.249	0.000	0.07		2.001	S8109 Jelson	49	100.216	-0.223	0.000	0.15		2.002	S8110 Jelson	49	100.068	-0.218	0.000	0.37		3.000	S8115 Jelson	49	100.063	-0.487	0.000	0.02		3.001	S8116 Jelson	49	99.884	-0.459	0.000	0.03		2.003	S8111 Jelson	49	99.820	-0.439	0.000	0.06		2.004	S8112 Jelson	49	99.669	-0.381	0.000	0.12		2.005	S8113 Jelson	49	99.641	-0.337	0.000	0.28		2.006	S8022 Jelson Connection	49	99.564	-0.387	0.000	0.14		1.009	S8023	49	99.518	-0.307	0.000	0.36		1.010	S8025	48	99.342	-0.408	0.000	0.23		1.011	S8026	48	99.167	-0.473	0.000	0.10	
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Dean Court 85 Adllington Road Wilmslow SK9 1BT		
Date 11/08/2025 14:06 File PH7A - STORM. 11.08.25.MDX	Designed by d_southa Checked by	
Elstree Computing Ltd	Network 2020.1.3	

Summary Wizard of 1440 minute 100 year Summer I+40% for Surface Network 8

PN	US/MH Name	Half Drain Time (mins)	Pipe Flow (l/s)	Status
1.000	S8104 Jelson		6.3	OK
1.001	S8172 Jelson		9.4	OK
1.002	S8105 Jelson		10.6	OK
1.003	S8107 Jelson		11.0	OK
1.004	S8171 Jelson		20.7	OK
1.005	S8170 Jelson		20.7	OK
1.006	S8009 - Jelson Connection		20.7	OK
1.007	S8010		23.2	OK
1.008	S8011		24.0	OK
2.000	S8108 Jelson		6.9	OK
2.001	S8109 Jelson		11.5	OK
2.002	S8110 Jelson		14.8	OK
3.000	S8115 Jelson	120	4.3	OK
3.001	S8116 Jelson		7.5	OK
2.003	S8111 Jelson		22.5	OK
2.004	S8112 Jelson		27.9	OK
2.005	S8113 Jelson		33.1	OK
2.006	S8022 Jelson Connection		38.7	OK
1.009	S8023		64.5	OK
1.010	S8025		72.4	OK
1.011	S8026		74.1	OK

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<table><thead><tr><th></th><th></th><th>Water</th><th>Surcharged</th><th>Flooded</th><th></th><th></th></tr><tr><th>PN</th><th>US/MH Name</th><th>Storm Rank</th><th>Level (m)</th><th>Depth (m)</th><th>Volume (m³)</th><th>Flow / Overflow Cap. (l/s)</th></tr></thead><tbody><tr><td>1.000</td><td>S8104 Jelson</td><td>18</td><td>102.212</td><td>-0.204</td><td>0.000</td><td>0.22</td></tr><tr><td>1.001</td><td>S8172 Jelson</td><td>19</td><td>101.898</td><td>-0.191</td><td>0.000</td><td>0.28</td></tr><tr><td>1.002</td><td>S8105 Jelson</td><td>19</td><td>101.654</td><td>-0.182</td><td>0.000</td><td>0.32</td></tr><tr><td>1.003</td><td>S8107 Jelson</td><td>19</td><td>101.179</td><td>-0.342</td><td>0.000</td><td>0.13</td></tr><tr><td>1.004</td><td>S8171 Jelson</td><td>19</td><td>100.932</td><td>-0.324</td><td>0.000</td><td>0.17</td></tr><tr><td>1.005</td><td>S8170 Jelson</td><td>19</td><td>100.364</td><td>-0.302</td><td>0.000</td><td>0.24</td></tr><tr><td>1.006</td><td>S8009 - Jelson Connection</td><td>19</td><td>100.025</td><td>-0.383</td><td>0.000</td><td>0.17</td></tr><tr><td>1.007</td><td>S8010</td><td>22</td><td>99.794</td><td>-0.301</td><td>0.000</td><td>0.30</td></tr><tr><td>1.008</td><td>S8011</td><td>21</td><td>99.746</td><td>-0.239</td><td>0.000</td><td>0.22</td></tr><tr><td>2.000</td><td>S8108 Jelson</td><td>18</td><td>100.657</td><td>-0.198</td><td>0.000</td><td>0.24</td></tr><tr><td>2.001</td><td>S8109 Jelson</td><td>19</td><td>100.330</td><td>-0.109</td><td>0.000</td><td>0.48</td></tr><tr><td>2.002</td><td>S8110 Jelson</td><td>16</td><td>100.286</td><td>0.000</td><td>0.000</td><td>1.14</td></tr><tr><td>3.000</td><td>S8115 Jelson</td><td>18</td><td>100.106</td><td>-0.444</td><td>0.000</td><td>0.06</td></tr><tr><td>3.001</td><td>S8116 Jelson</td><td>21</td><td>99.945</td><td>-0.398</td><td>0.000</td><td>0.11</td></tr><tr><td>2.003</td><td>S8111 Jelson</td><td>21</td><td>99.893</td><td>-0.366</td><td>0.000</td><td>0.20</td></tr><tr><td>2.004</td><td>S8112 Jelson</td><td>21</td><td>99.834</td><td>-0.216</td><td>0.000</td><td>0.35</td></tr><tr><td>2.005</td><td>S8113 Jelson</td><td>21</td><td>99.813</td><td>-0.165</td><td>0.000</td><td>0.81</td></tr><tr><td>2.006</td><td>S8022 Jelson Connection</td><td>21</td><td>99.756</td><td>-0.195</td><td>0.000</td><td>0.40</td></tr><tr><td>1.009</td><td>S8023</td><td>21</td><td>99.728</td><td>-0.097</td><td>0.000</td><td>0.99</td></tr><tr><td>1.010</td><td>S8025</td><td>23</td><td>99.486</td><td>-0.264</td><td>0.000</td><td>0.60</td></tr><tr><td>1.011</td><td>S8026</td><td>23</td><td>99.248</td><td>-0.392</td><td>0.000</td><td>0.26</td></tr></tbody></table>							Water	Surcharged	Flooded			PN	US/MH Name	Storm Rank	Level (m)	Depth (m)	Volume (m³)	Flow / Overflow Cap. (l/s)	1.000	S8104 Jelson	18	102.212	-0.204	0.000	0.22	1.001	S8172 Jelson	19	101.898	-0.191	0.000	0.28	1.002	S8105 Jelson	19	101.654	-0.182	0.000	0.32	1.003	S8107 Jelson	19	101.179	-0.342	0.000	0.13	1.004	S8171 Jelson	19	100.932	-0.324	0.000	0.17	1.005	S8170 Jelson	19	100.364	-0.302	0.000	0.24	1.006	S8009 - Jelson Connection	19	100.025	-0.383	0.000	0.17	1.007	S8010	22	99.794	-0.301	0.000	0.30	1.008	S8011	21	99.746	-0.239	0.000	0.22	2.000	S8108 Jelson	18	100.657	-0.198	0.000	0.24	2.001	S8109 Jelson	19	100.330	-0.109	0.000	0.48	2.002	S8110 Jelson	16	100.286	0.000	0.000	1.14	3.000	S8115 Jelson	18	100.106	-0.444	0.000	0.06	3.001	S8116 Jelson	21	99.945	-0.398	0.000	0.11	2.003	S8111 Jelson	21	99.893	-0.366	0.000	0.20	2.004	S8112 Jelson	21	99.834	-0.216	0.000	0.35	2.005	S8113 Jelson	21	99.813	-0.165	0.000	0.81	2.006	S8022 Jelson Connection	21	99.756	-0.195	0.000	0.40	1.009	S8023	21	99.728	-0.097	0.000	0.99	1.010	S8025	23	99.486	-0.264	0.000	0.60	1.011	S8026	23	99.248	-0.392	0.000	0.26
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1.005	S8170 Jelson	19	100.364	-0.302	0.000	0.24																																																																																																																																																															
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©1982-2020 Innovyze																																																																																																																																																																					

JS Bloor (Wilmslow) Ltd		Page 114
Dean Court 85 Adllington Road Wilmslow SK9 1BT		
Date 11/08/2025 14:06 File PH7A - STORM. 11.08.25.MDX	Designed by d_southa Checked by	
Elstree Computing Ltd	Network 2020.1.3	

Summary Wizard of 15 minute 1 year Winter I+0% for Surface Network 8

PN	US/MH Name	Half Drain Time (mins)	Pipe Flow (l/s)	Status
1.000	S8104 Jelson		23.0	OK
1.001	S8172 Jelson		32.3	OK
1.002	S8105 Jelson		36.4	OK
1.003	S8107 Jelson		37.8	OK
1.004	S8171 Jelson		67.7	OK
1.005	S8170 Jelson		67.7	OK
1.006	S8009 - Jelson Connection		67.5	OK
1.007	S8010		73.1	OK
1.008	S8011		69.0	OK
2.000	S8108 Jelson		25.0	OK
2.001	S8109 Jelson		36.8	OK
2.002	S8110 Jelson		45.9	OK
3.000	S8115 Jelson	6	15.6	OK
3.001	S8116 Jelson		24.4	OK
2.003	S8111 Jelson		69.0	OK
2.004	S8112 Jelson		83.1	OK
2.005	S8113 Jelson		96.1	OK
2.006	S8022 Jelson Connection		108.1	OK
1.009	S8023		176.6	OK
1.010	S8025		191.8	OK
1.011	S8026		194.8	OK

JS Bloor (Wilmslow) Ltd			Page 116																																																																																																																																																																																				
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Areal Reduction Factor 1.000		Additional Flow - % of Total Flow 0.000																																																																																																																																																																																					
Hot Start (mins) 0		MADD Factor * 10m³/ha Storage 0.000																																																																																																																																																																																					
Hot Start Level (mm) 0		Inlet Coefficient 0.800																																																																																																																																																																																					
Manhole Headloss Coeff (Global) 0.500		Flow per Person per Day (l/per/day) 0.000																																																																																																																																																																																					
Foul Sewage per hectare (l/s) 0.000																																																																																																																																																																																							
Number of Input Hydrographs 0 Number of Storage Structures 2																																																																																																																																																																																							
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Number of Offline Controls 0 Number of Real Time Controls 0																																																																																																																																																																																							
<u>Synthetic Rainfall Details</u>																																																																																																																																																																																							
Rainfall Model		FSR	Ratio R 0.404																																																																																																																																																																																				
Region England and Wales Cv (Summer)		0.750																																																																																																																																																																																					
M5-60 (mm)		19.900	Cv (Winter) 0.840																																																																																																																																																																																				
Margin for Flood Risk Warning (mm) 300.0		DVD Status OFF																																																																																																																																																																																					
Analysis Timestep		Fine	Inertia Status OFF																																																																																																																																																																																				
DTS Status		ON																																																																																																																																																																																					
Profile(s) Summer and Winter																																																																																																																																																																																							
Duration(s) (mins)		15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440																																																																																																																																																																																					
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1.009	S8023	26	99.692	-0.133	0.000	0.90																																																																																																																																																																																	
1.010	S8025	25	99.468	-0.282	0.000	0.55																																																																																																																																																																																	
1.011	S8026	25	99.240	-0.400	0.000	0.24																																																																																																																																																																																	
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Elstree Computing Ltd	Network 2020.1.3	

Summary Wizard of 30 minute 1 year Winter I+0% for Surface Network 8

PN	US/MH Name	Half Drain Time (mins)	Pipe Flow (l/s)	Status
1.000	S8104 Jelson		18.1	OK
1.001	S8172 Jelson		26.1	OK
1.002	S8105 Jelson		29.3	OK
1.003	S8107 Jelson		30.4	OK
1.004	S8171 Jelson		56.0	OK
1.005	S8170 Jelson		56.1	OK
1.006	S8009 - Jelson Connection		56.2	OK
1.007	S8010		61.8	OK
1.008	S8011		60.7	OK
2.000	S8108 Jelson		19.8	OK
2.001	S8109 Jelson		31.6	OK
2.002	S8110 Jelson		40.0	OK
3.000	S8115 Jelson	8	12.3	OK
3.001	S8116 Jelson		20.3	OK
2.003	S8111 Jelson		60.7	OK
2.004	S8112 Jelson		73.5	OK
2.005	S8113 Jelson		85.7	OK
2.006	S8022 Jelson Connection		98.2	OK
1.009	S8023		161.1	OK
1.010	S8025		175.6	OK
1.011	S8026		179.1	OK

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Dean Court 85 Adllington Road Wilmslow SK9 1BT																																																																																																																																																																					
Date 11/08/2025 14:06 File PH7A - STORM. 11.08.25.MDX		Designed by d_southa Checked by																																																																																																																																																																			
Elstree Computing Ltd		Network 2020.1.3																																																																																																																																																																			
<u>Summary Wizard of 60 minute 1 year Winter I+0% for Surface Network 8</u>																																																																																																																																																																					
<u>Simulation Criteria</u>																																																																																																																																																																					
Areal Reduction Factor 1.000		Additional Flow - % of Total Flow 0.000																																																																																																																																																																			
Hot Start (mins) 0		MADD Factor * 10m³/ha Storage 0.000																																																																																																																																																																			
Hot Start Level (mm) 0		Inlet Coeffiecient 0.800																																																																																																																																																																			
Manhole Headloss Coeff (Global) 0.500		Flow per Person per Day (l/per/day) 0.000																																																																																																																																																																			
Foul Sewage per hectare (l/s) 0.000																																																																																																																																																																					
Number of Input Hydrographs 0		Number of Storage Structures 2																																																																																																																																																																			
Number of Online Controls 1		Number of Time/Area Diagrams 0																																																																																																																																																																			
Number of Offline Controls 0		Number of Real Time Controls 0																																																																																																																																																																			
<u>Synthetic Rainfall Details</u>																																																																																																																																																																					
Rainfall Model		FSR	Ratio R 0.404																																																																																																																																																																		
Region England and Wales Cv (Summer)		0.750																																																																																																																																																																			
M5-60 (mm)		19.900	Cv (Winter) 0.840																																																																																																																																																																		
Margin for Flood Risk Warning (mm) 300.0		DVD Status OFF																																																																																																																																																																			
Analysis Timestep		Fine	Inertia Status OFF																																																																																																																																																																		
DTS Status		ON																																																																																																																																																																			
Profile(s)		Summer and Winter																																																																																																																																																																			
Duration(s) (mins)		15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440																																																																																																																																																																			
Return Period(s) (years)		1, 30, 100																																																																																																																																																																			
Climate Change (%)		0, 0, 40																																																																																																																																																																			
<table><tr><th></th><th></th><th></th><th>Water</th><th>Surcharged</th><th>Flooded</th><th></th></tr><tr><th>PN</th><th>US/MH Name</th><th>Storm Rank</th><th>Level (m)</th><th>Depth (m)</th><th>Volume (m³)</th><th>Flow / Overflow Cap. (l/s)</th></tr><tr><td>1.000</td><td>S8104 Jelson</td><td>33</td><td>102.184</td><td>-0.232</td><td>0.000</td><td>0.11</td></tr><tr><td>1.001</td><td>S8172 Jelson</td><td>33</td><td>101.867</td><td>-0.222</td><td>0.000</td><td>0.15</td></tr><tr><td>1.002</td><td>S8105 Jelson</td><td>33</td><td>101.621</td><td>-0.215</td><td>0.000</td><td>0.18</td></tr><tr><td>1.003</td><td>S8107 Jelson</td><td>33</td><td>101.150</td><td>-0.371</td><td>0.000</td><td>0.07</td></tr><tr><td>1.004</td><td>S8171 Jelson</td><td>33</td><td>100.901</td><td>-0.355</td><td>0.000</td><td>0.10</td></tr><tr><td>1.005</td><td>S8170 Jelson</td><td>33</td><td>100.326</td><td>-0.340</td><td>0.000</td><td>0.14</td></tr><tr><td>1.006</td><td>S8009 - Jelson Connection</td><td>33</td><td>99.991</td><td>-0.417</td><td>0.000</td><td>0.10</td></tr><tr><td>1.007</td><td>S8010</td><td>33</td><td>99.725</td><td>-0.370</td><td>0.000</td><td>0.18</td></tr><tr><td>1.008</td><td>S8011</td><td>33</td><td>99.636</td><td>-0.349</td><td>0.000</td><td>0.14</td></tr><tr><td>2.000</td><td>S8108 Jelson</td><td>33</td><td>100.627</td><td>-0.228</td><td>0.000</td><td>0.13</td></tr><tr><td>2.001</td><td>S8109 Jelson</td><td>33</td><td>100.248</td><td>-0.191</td><td>0.000</td><td>0.28</td></tr><tr><td>2.002</td><td>S8110 Jelson</td><td>33</td><td>100.140</td><td>-0.146</td><td>0.000</td><td>0.68</td></tr><tr><td>3.000</td><td>S8115 Jelson</td><td>33</td><td>100.084</td><td>-0.466</td><td>0.000</td><td>0.03</td></tr><tr><td>3.001</td><td>S8116 Jelson</td><td>33</td><td>99.913</td><td>-0.430</td><td>0.000</td><td>0.06</td></tr><tr><td>2.003</td><td>S8111 Jelson</td><td>33</td><td>99.855</td><td>-0.404</td><td>0.000</td><td>0.12</td></tr><tr><td>2.004</td><td>S8112 Jelson</td><td>33</td><td>99.743</td><td>-0.307</td><td>0.000</td><td>0.22</td></tr><tr><td>2.005</td><td>S8113 Jelson</td><td>33</td><td>99.722</td><td>-0.256</td><td>0.000</td><td>0.52</td></tr><tr><td>2.006</td><td>S8022 Jelson Connection</td><td>33</td><td>99.643</td><td>-0.308</td><td>0.000</td><td>0.26</td></tr><tr><td>1.009</td><td>S8023</td><td>33</td><td>99.613</td><td>-0.212</td><td>0.000</td><td>0.66</td></tr><tr><td>1.010</td><td>S8025</td><td>33</td><td>99.418</td><td>-0.332</td><td>0.000</td><td>0.41</td></tr><tr><td>1.011</td><td>S8026</td><td>33</td><td>99.212</td><td>-0.428</td><td>0.000</td><td>0.18</td></tr></table>								Water	Surcharged	Flooded		PN	US/MH Name	Storm Rank	Level (m)	Depth (m)	Volume (m³)	Flow / Overflow Cap. (l/s)	1.000	S8104 Jelson	33	102.184	-0.232	0.000	0.11	1.001	S8172 Jelson	33	101.867	-0.222	0.000	0.15	1.002	S8105 Jelson	33	101.621	-0.215	0.000	0.18	1.003	S8107 Jelson	33	101.150	-0.371	0.000	0.07	1.004	S8171 Jelson	33	100.901	-0.355	0.000	0.10	1.005	S8170 Jelson	33	100.326	-0.340	0.000	0.14	1.006	S8009 - Jelson Connection	33	99.991	-0.417	0.000	0.10	1.007	S8010	33	99.725	-0.370	0.000	0.18	1.008	S8011	33	99.636	-0.349	0.000	0.14	2.000	S8108 Jelson	33	100.627	-0.228	0.000	0.13	2.001	S8109 Jelson	33	100.248	-0.191	0.000	0.28	2.002	S8110 Jelson	33	100.140	-0.146	0.000	0.68	3.000	S8115 Jelson	33	100.084	-0.466	0.000	0.03	3.001	S8116 Jelson	33	99.913	-0.430	0.000	0.06	2.003	S8111 Jelson	33	99.855	-0.404	0.000	0.12	2.004	S8112 Jelson	33	99.743	-0.307	0.000	0.22	2.005	S8113 Jelson	33	99.722	-0.256	0.000	0.52	2.006	S8022 Jelson Connection	33	99.643	-0.308	0.000	0.26	1.009	S8023	33	99.613	-0.212	0.000	0.66	1.010	S8025	33	99.418	-0.332	0.000	0.41	1.011	S8026	33	99.212	-0.428	0.000	0.18
			Water	Surcharged	Flooded																																																																																																																																																																
PN	US/MH Name	Storm Rank	Level (m)	Depth (m)	Volume (m³)	Flow / Overflow Cap. (l/s)																																																																																																																																																															
1.000	S8104 Jelson	33	102.184	-0.232	0.000	0.11																																																																																																																																																															
1.001	S8172 Jelson	33	101.867	-0.222	0.000	0.15																																																																																																																																																															
1.002	S8105 Jelson	33	101.621	-0.215	0.000	0.18																																																																																																																																																															
1.003	S8107 Jelson	33	101.150	-0.371	0.000	0.07																																																																																																																																																															
1.004	S8171 Jelson	33	100.901	-0.355	0.000	0.10																																																																																																																																																															
1.005	S8170 Jelson	33	100.326	-0.340	0.000	0.14																																																																																																																																																															
1.006	S8009 - Jelson Connection	33	99.991	-0.417	0.000	0.10																																																																																																																																																															
1.007	S8010	33	99.725	-0.370	0.000	0.18																																																																																																																																																															
1.008	S8011	33	99.636	-0.349	0.000	0.14																																																																																																																																																															
2.000	S8108 Jelson	33	100.627	-0.228	0.000	0.13																																																																																																																																																															
2.001	S8109 Jelson	33	100.248	-0.191	0.000	0.28																																																																																																																																																															
2.002	S8110 Jelson	33	100.140	-0.146	0.000	0.68																																																																																																																																																															
3.000	S8115 Jelson	33	100.084	-0.466	0.000	0.03																																																																																																																																																															
3.001	S8116 Jelson	33	99.913	-0.430	0.000	0.06																																																																																																																																																															
2.003	S8111 Jelson	33	99.855	-0.404	0.000	0.12																																																																																																																																																															
2.004	S8112 Jelson	33	99.743	-0.307	0.000	0.22																																																																																																																																																															
2.005	S8113 Jelson	33	99.722	-0.256	0.000	0.52																																																																																																																																																															
2.006	S8022 Jelson Connection	33	99.643	-0.308	0.000	0.26																																																																																																																																																															
1.009	S8023	33	99.613	-0.212	0.000	0.66																																																																																																																																																															
1.010	S8025	33	99.418	-0.332	0.000	0.41																																																																																																																																																															
1.011	S8026	33	99.212	-0.428	0.000	0.18																																																																																																																																																															
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Summary Wizard of 60 minute 1 year Winter I+0% for Surface Network 8

PN	US/MH Name	Half Drain Time (mins)	Pipe Flow (l/s)	Status
1.000	S8104 Jelson		12.0	OK
1.001	S8172 Jelson		17.7	OK
1.002	S8105 Jelson		20.0	OK
1.003	S8107 Jelson		20.8	OK
1.004	S8171 Jelson		38.9	OK
1.005	S8170 Jelson		38.9	OK
1.006	S8009 - Jelson Connection		38.9	OK
1.007	S8010		43.3	OK
1.008	S8011		44.5	OK
2.000	S8108 Jelson		13.2	OK
2.001	S8109 Jelson		21.7	OK
2.002	S8110 Jelson		27.6	OK
3.000	S8115 Jelson	14	8.2	OK
3.001	S8116 Jelson		14.1	OK
2.003	S8111 Jelson		42.0	OK
2.004	S8112 Jelson		51.8	OK
2.005	S8113 Jelson		61.4	OK
2.006	S8022 Jelson Connection		71.4	OK
1.009	S8023		118.0	OK
1.010	S8025		131.3	OK
1.011	S8026		134.5	OK

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Summary Wizard of 120 minute 1 year Winter I+0% for Surface Network 8

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Overflow Cap. (l/s)	Half Drain Time (mins)
4.000		S8068 45	99.097	-0.243	0.000	0.08	
1.012		S8028 44	98.710	-0.384	0.000	0.28	
1.013		S8029 44	98.536	-0.434	0.000	0.17	
1.014		S8030 44	98.226	-0.394	0.000	0.26	
1.015		S8031 44	98.031	-0.429	0.000	0.18	
1.016		S8034 46	97.617	-0.463	0.000	0.12	
1.017		S8037 56	96.669	-0.311	0.000	0.47	
1.018	S8039 - Headwall	56	96.592	-0.266	0.000	0.24	
1.019	S8051 - Headwall	62	96.560	-0.340	0.000	0.33	
1.020	S8052 Control Chamber	55	96.559	-0.241	0.000	0.02	

PN	US/MH Name	Pipe Flow (l/s)	Status
4.000		S8068 5.5	OK
1.012		S8028 99.4	OK
1.013		S8029 101.6	OK
1.014		S8030 103.9	OK
1.015		S8031 105.2	OK
1.016		S8034 109.6	OK
1.017		S8037 113.5	OK
1.018	S8039 - Headwall	112.9	OK
1.019	S8051 - Headwall	115.6	OK*
1.020	S8052 Control Chamber	11.3	OK

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<u>Summary Wizard of 180 minute 1 year Winter I+0% for Surface Network 8</u>															
<u>Simulation Criteria</u>															
Areal Reduction Factor 1.000		Additional Flow - % of Total Flow 0.000													
Hot Start (mins) 0		MADD Factor * 10m³/ha Storage 0.000													
Hot Start Level (mm) 0		Inlet 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 2													
Number of Online Controls 1		Number of Time/Area Diagrams 0													
Number of Offline Controls 0		Number of Real Time Controls 0													
<u>Synthetic Rainfall Details</u>															
Rainfall Model		FSR	Ratio R 0.404												
Region England and Wales		Cv (Summer)	0.750												
M5-60 (mm)		19.900	Cv (Winter) 0.840												
Margin for Flood Risk Warning (mm) 300.0		DVD Status OFF													
Analysis Timestep		Fine	Inertia Status OFF												
DTS Status		ON													
Profile(s)		Summer and Winter													
Duration(s) (mins)		15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440													
Return Period(s) (years)		1, 30, 100													
Climate Change (%)		0, 0, 40													
<table><tr><th rowspan="2">PN</th><th rowspan="2">US/MH Name</th><th rowspan="2">Storm Rank</th><th>Water</th><th>Surcharged</th><th>Flooded</th><th rowspan="2">Flow / Cap.</th><th rowspan="2">Overflow (l/s)</th></tr><tr><th>Level (m)</th><th>Depth (m)</th><th>Volume (m³)</th></tr></table>					PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded	Flow / Cap.	Overflow (l/s)	Level (m)	Depth (m)	Volume (m³)
PN	US/MH Name	Storm Rank	Water	Surcharged				Flooded	Flow / Cap.	Overflow (l/s)					
			Level (m)	Depth (m)	Volume (m³)										
1.000	S8104 Jelson	52	102.161	-0.255	0.000	0.06									
1.001	S8172 Jelson	52	101.843	-0.246	0.000	0.07									
1.002	S8105 Jelson	52	101.595	-0.241	0.000	0.09									
1.003	S8107 Jelson	52	101.125	-0.396	0.000	0.03									
1.004	S8171 Jelson	52	100.870	-0.386	0.000	0.05									
1.005	S8170 Jelson	52	100.291	-0.375	0.000	0.07									
1.006	S8009 - Jelson Connection	52	99.955	-0.453	0.000	0.05									
1.007	S8010	52	99.674	-0.421	0.000	0.09									
1.008	S8011	52	99.559	-0.426	0.000	0.07									
2.000	S8108 Jelson	52	100.603	-0.252	0.000	0.06									
2.001	S8109 Jelson	52	100.213	-0.226	0.000	0.14									
2.002	S8110 Jelson	52	100.061	-0.225	0.000	0.33									
3.000	S8115 Jelson	52	100.060	-0.490	0.000	0.01									
3.001	S8116 Jelson	52	99.881	-0.462	0.000	0.03									
2.003	S8111 Jelson	52	99.816	-0.443	0.000	0.06									
2.004	S8112 Jelson	52	99.661	-0.389	0.000	0.11									
2.005	S8113 Jelson	52	99.632	-0.346	0.000	0.25									
2.006	S8022 Jelson Connection	52	99.556	-0.395	0.000	0.13									
1.009	S8023	52	99.507	-0.318	0.000	0.33									
1.010	S8025	52	99.334	-0.416	0.000	0.21									
1.011	S8026	52	99.162	-0.478	0.000	0.09									

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Summary Wizard of 180 minute 1 year Winter I+0% for Surface Network 8

PN	US/MH Name	Half Drain Time (mins)	Pipe Flow (l/s)	Status
1.000	S8104 Jelson		5.8	OK
1.001	S8172 Jelson		8.6	OK
1.002	S8105 Jelson		9.7	OK
1.003	S8107 Jelson		10.0	OK
1.004	S8171 Jelson		18.9	OK
1.005	S8170 Jelson		18.9	OK
1.006	S8009 - Jelson Connection		18.9	OK
1.007	S8010		21.2	OK
1.008	S8011		22.0	OK
2.000	S8108 Jelson		6.4	OK
2.001	S8109 Jelson		10.5	OK
2.002	S8110 Jelson		13.5	OK
3.000	S8115 Jelson	30	4.0	OK
3.001	S8116 Jelson		6.8	OK
2.003	S8111 Jelson		20.6	OK
2.004	S8112 Jelson		25.5	OK
2.005	S8113 Jelson		30.3	OK
2.006	S8022 Jelson Connection		35.3	OK
1.009	S8023		58.7	OK
1.010	S8025		65.8	OK
1.011	S8026		67.5	OK

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Elstree Computing Ltd		Network 2020.1.3													
<u>Summary Wizard of 240 minute 1 year Winter I+0% for Surface Network 8</u>															
<u>Simulation Criteria</u>															
Areal Reduction Factor 1.000		Additional Flow - % of Total Flow 0.000													
Hot Start (mins) 0		MADD Factor * 10m³/ha Storage 0.000													
Hot Start Level (mm) 0		Inlet 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 2													
Number of Online Controls 1		Number of Time/Area Diagrams 0													
Number of Offline Controls 0		Number of Real Time Controls 0													
<u>Synthetic Rainfall Details</u>															
Rainfall Model		FSR	Ratio R 0.404												
Region England and Wales		Cv (Summer)	0.750												
M5-60 (mm)		19.900	Cv (Winter) 0.840												
Margin for Flood Risk Warning (mm) 300.0		DVD Status OFF													
Analysis Timestep		Fine	Inertia Status OFF												
DTS Status		ON													
Profile(s)		Summer and Winter													
Duration(s) (mins)		15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440													
Return Period(s) (years)		1, 30, 100													
Climate Change (%)		0, 0, 40													
<table><tr><th rowspan="2">PN</th><th rowspan="2">US/MH Name</th><th rowspan="2">Storm Rank</th><th>Water</th><th>Surcharged</th><th>Flooded</th><th rowspan="2">Flow / Cap.</th><th rowspan="2">Overflow (l/s)</th></tr><tr><th>Level (m)</th><th>Depth (m)</th><th>Volume (m³)</th></tr></table>					PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded	Flow / Cap.	Overflow (l/s)	Level (m)	Depth (m)	Volume (m³)
PN	US/MH Name	Storm Rank	Water	Surcharged				Flooded	Flow / Cap.	Overflow (l/s)					
			Level (m)	Depth (m)	Volume (m³)										
1.000	S8104 Jelson	56	102.157	-0.259	0.000	0.05									
1.001	S8172 Jelson	56	101.837	-0.252	0.000	0.06									
1.002	S8105 Jelson	56	101.588	-0.248	0.000	0.07									
1.003	S8107 Jelson	56	101.121	-0.400	0.000	0.03									
1.004	S8171 Jelson	56	100.864	-0.392	0.000	0.04									
1.005	S8170 Jelson	56	100.283	-0.383	0.000	0.05									
1.006	S8009 - Jelson Connection	56	99.948	-0.459	0.000	0.04									
1.007	S8010	56	99.662	-0.433	0.000	0.07									
1.008	S8011	56	99.544	-0.441	0.000	0.06									
2.000	S8108 Jelson	56	100.598	-0.257	0.000	0.05									
2.001	S8109 Jelson	56	100.206	-0.233	0.000	0.11									
2.002	S8110 Jelson	56	100.044	-0.242	0.000	0.27									
3.000	S8115 Jelson	56	100.054	-0.496	0.000	0.01									
3.001	S8116 Jelson	56	99.876	-0.467	0.000	0.02									
2.003	S8111 Jelson	56	99.808	-0.451	0.000	0.05									
2.004	S8112 Jelson	56	99.646	-0.404	0.000	0.09									
2.005	S8113 Jelson	56	99.615	-0.363	0.000	0.21									
2.006	S8022 Jelson Connection	56	99.541	-0.410	0.000	0.11									
1.009	S8023	56	99.485	-0.340	0.000	0.27									
1.010	S8025	56	99.314	-0.436	0.000	0.17									
1.011	S8026	56	99.148	-0.492	0.000	0.08									

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Summary Wizard of 240 minute 1 year Winter I+0% for Surface Network 8

PN	US/MH Name	Half Drain Time (mins)	Pipe Flow (l/s)	Status
1.000	S8104 Jelson		4.7	OK
1.001	S8172 Jelson		7.0	OK
1.002	S8105 Jelson		7.9	OK
1.003	S8107 Jelson		8.2	OK
1.004	S8171 Jelson		15.5	OK
1.005	S8170 Jelson		15.5	OK
1.006	S8009 - Jelson Connection		15.5	OK
1.007	S8010		17.3	OK
1.008	S8011		18.0	OK
2.000	S8108 Jelson		5.2	OK
2.001	S8109 Jelson		8.6	OK
2.002	S8110 Jelson		11.1	OK
3.000	S8115 Jelson	36	3.3	OK
3.001	S8116 Jelson		5.6	OK
2.003	S8111 Jelson		16.9	OK
2.004	S8112 Jelson		20.9	OK
2.005	S8113 Jelson		24.7	OK
2.006	S8022 Jelson Connection		28.9	OK
1.009	S8023		48.3	OK
1.010	S8025		54.1	OK
1.011	S8026		55.4	OK

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Dean Court 85 Adlington Road Wilmslow SK9 1BT																																																																																																																																																														
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PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Overflow Cap. (l/s)																																																																																																																																																								
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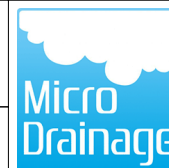
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Summary Wizard of 360 minute 1 year Winter I+0% for Surface Network 8

PN	US/MH Name	Half Drain Time (mins)	Pipe Flow (l/s)	Status
1.000	S8104 Jelson		3.5	OK
1.001	S8172 Jelson		5.3	OK
1.002	S8105 Jelson		5.9	OK
1.003	S8107 Jelson		6.2	OK
1.004	S8171 Jelson		11.6	OK
1.005	S8170 Jelson		11.6	OK
1.006	S8009 - Jelson Connection		11.6	OK
1.007	S8010		13.0	OK
1.008	S8011		13.5	OK
2.000	S8108 Jelson		3.9	OK
2.001	S8109 Jelson		6.4	OK
2.002	S8110 Jelson		8.3	OK
3.000	S8115 Jelson	54	2.4	OK
3.001	S8116 Jelson		4.2	OK
2.003	S8111 Jelson		12.6	OK
2.004	S8112 Jelson		15.6	OK
2.005	S8113 Jelson		18.5	OK
2.006	S8022 Jelson Connection		21.7	OK
1.009	S8023		36.0	OK
1.010	S8025		40.4	OK
1.011	S8026		41.4	OK

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Network 2020.1.3

Summary Wizard of 480 minute 1 year Winter I+0% for Surface Network 8

PN	US/MH Name	Storm Rank	Water		Surcharged	Flooded	Flow / Cap.	Overflow (l/s)	Half Drain
			Level (m)	Depth (m)	Volume (m³)	Time (mins)			
4.000		S8068	64	99.074	-0.266	0.000	0.03		
1.012		S8028	64	98.625	-0.469	0.000	0.11		
1.013		S8029	64	98.470	-0.500	0.000	0.07		
1.014		S8030	64	98.146	-0.474	0.000	0.10		
1.015		S8031	64	97.963	-0.497	0.000	0.07		
1.016		S8034	64	97.562	-0.518	0.000	0.05		
1.017		S8037	63	96.590	-0.390	0.000	0.18		
1.018	S8039 - Headwall	59	96.588	-0.270	0.000	0.09			
1.019	S8051 - Headwall	57	96.588	-0.312	0.000	0.13			
1.020	S8052 Control Chamber	51	96.587	-0.213	0.000	0.02			

PN	US/MH Name	Pipe Flow (l/s)	Status
4.000	S8068	2.1	OK
1.012	S8028	38.1	OK
1.013	S8029	38.9	OK
1.014	S8030	39.7	OK
1.015	S8031	40.2	OK
1.016	S8034	42.0	OK
1.017	S8037	43.6	OK
1.018	S8039 - Headwall	43.5	OK
1.019	S8051 - Headwall	44.1	OK*
1.020	S8052 Control Chamber	11.3	OK

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Summary Wizard of 600 minute 1 year Winter I+0% for Surface Network 8

PN	US/MH Name	Half Drain Time (mins)	Pipe Flow (l/s)	Status
1.000	S8104 Jelson		2.4	OK
1.001	S8172 Jelson		3.6	OK
1.002	S8105 Jelson		4.1	OK
1.003	S8107 Jelson		4.2	OK
1.004	S8171 Jelson		8.0	OK
1.005	S8170 Jelson		8.0	OK
1.006	S8009 - Jelson Connection		8.0	OK
1.007	S8010		8.9	OK
1.008	S8011		9.3	OK
2.000	S8108 Jelson		2.7	OK
2.001	S8109 Jelson		4.4	OK
2.002	S8110 Jelson		5.7	OK
3.000	S8115 Jelson	90	1.7	OK
3.001	S8116 Jelson		2.9	OK
2.003	S8111 Jelson		8.7	OK
2.004	S8112 Jelson		10.8	OK
2.005	S8113 Jelson		12.8	OK
2.006	S8022 Jelson Connection		14.9	OK
1.009	S8023		24.9	OK
1.010	S8025		27.9	OK
1.011	S8026		28.6	OK

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Summary Wizard of 720 minute 1 year Winter I+0% for Surface Network 8

PN	US/MH Name	Half Drain Time (mins)	Pipe Flow (l/s)	Status
1.000	S8104 Jelson		2.1	OK
1.001	S8172 Jelson		3.2	OK
1.002	S8105 Jelson		3.6	OK
1.003	S8107 Jelson		3.7	OK
1.004	S8171 Jelson		7.0	OK
1.005	S8170 Jelson		7.0	OK
1.006	S8009 - Jelson Connection		7.0	OK
1.007	S8010		7.8	OK
1.008	S8011		8.1	OK
2.000	S8108 Jelson		2.3	OK
2.001	S8109 Jelson		3.9	OK
2.002	S8110 Jelson		5.0	OK
3.000	S8115 Jelson	108	1.5	OK
3.001	S8116 Jelson		2.5	OK
2.003	S8111 Jelson		7.6	OK
2.004	S8112 Jelson		9.4	OK
2.005	S8113 Jelson		11.2	OK
2.006	S8022 Jelson Connection		13.1	OK
1.009	S8023		21.8	OK
1.010	S8025		24.4	OK
1.011	S8026		25.0	OK

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Elstree Computing Ltd		Network 2020.1.3												
<u>Summary Wizard of 960 minute 1 year Winter I+0% for Surface Network 8</u>														
<u>Simulation Criteria</u>														
Areal Reduction Factor 1.000		Additional Flow - % of Total Flow 0.000												
Hot Start (mins) 0		MADD Factor * 10m³/ha Storage 0.000												
Hot Start Level (mm) 0		Inlet 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 2												
Number of Online Controls 1		Number of Time/Area Diagrams 0												
Number of Offline Controls 0		Number of Real Time Controls 0												
<u>Synthetic Rainfall Details</u>														
Rainfall Model		FSR	Ratio R 0.404											
Region England and Wales		Cv (Summer)	0.750											
M5-60 (mm)		19.900	Cv (Winter) 0.840											
Margin for Flood Risk Warning (mm) 300.0		DVD Status OFF												
Analysis Timestep		Fine	Inertia Status OFF											
DTS Status		ON												
Profile(s)		Summer and Winter												
Duration(s) (mins)		15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440												
Return Period(s) (years)		1, 30, 100												
Climate Change (%)		0, 0, 40												
<table><tr><th rowspan="2">PN</th><th rowspan="2">US/MH Name</th><th rowspan="2">Storm Rank</th><th>Water Level</th><th>Surcharged</th><th>Flooded</th><th rowspan="2">Flow / Overflow</th></tr><tr><th>(m)</th><th>Depth (m)</th><th>Volume (m³)</th></tr></table>					PN	US/MH Name	Storm Rank	Water Level	Surcharged	Flooded	Flow / Overflow	(m)	Depth (m)	Volume (m³)
PN	US/MH Name	Storm Rank	Water Level	Surcharged				Flooded	Flow / Overflow					
			(m)	Depth (m)	Volume (m³)									
1.000	S8104 Jelson	70	102.139	-0.277	0.000	0.02								
1.001	S8172 Jelson	70	101.819	-0.270	0.000	0.02								
1.002	S8105 Jelson	70	101.568	-0.268	0.000	0.03								
1.003	S8107 Jelson	70	101.093	-0.428	0.000	0.01								
1.004	S8171 Jelson	70	100.837	-0.419	0.000	0.01								
1.005	S8170 Jelson	70	100.258	-0.408	0.000	0.02								
1.006	S8009 - Jelson Connection	70	99.917	-0.491	0.000	0.01								
1.007	S8010	70	99.626	-0.469	0.000	0.03								
1.008	S8011	70	99.513	-0.472	0.000	0.02								
2.000	S8108 Jelson	70	100.581	-0.274	0.000	0.02								
2.001	S8109 Jelson	70	100.178	-0.261	0.000	0.04								
2.002	S8110 Jelson	70	99.990	-0.296	0.000	0.10								
3.000	S8115 Jelson	70	100.035	-0.515	0.000	0.00								
3.001	S8116 Jelson	70	99.844	-0.499	0.000	0.01								
2.003	S8111 Jelson	70	99.778	-0.481	0.000	0.02								
2.004	S8112 Jelson	70	99.590	-0.460	0.000	0.03								
2.005	S8113 Jelson	70	99.548	-0.430	0.000	0.08								
2.006	S8022 Jelson Connection	70	99.492	-0.459	0.000	0.04								
1.009	S8023	70	99.410	-0.415	0.000	0.10								
1.010	S8025	70	99.246	-0.504	0.000	0.06								
1.011	S8026	70	99.106	-0.534	0.000	0.03								

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Summary Wizard of 960 minute 1 year Winter I+0% for Surface Network 8

PN	US/MH Name	Half Drain Time (mins)	Pipe Flow (l/s)	Status
1.000	S8104 Jelson		1.7	OK
1.001	S8172 Jelson		2.6	OK
1.002	S8105 Jelson		2.9	OK
1.003	S8107 Jelson		3.0	OK
1.004	S8171 Jelson		5.7	OK
1.005	S8170 Jelson		5.7	OK
1.006	S8009 - Jelson Connection		5.7	OK
1.007	S8010		6.3	OK
1.008	S8011		6.6	OK
2.000	S8108 Jelson		1.9	OK
2.001	S8109 Jelson		3.1	OK
2.002	S8110 Jelson		4.0	OK
3.000	S8115 Jelson	128	1.2	OK
3.001	S8116 Jelson		2.0	OK
2.003	S8111 Jelson		6.2	OK
2.004	S8112 Jelson		7.6	OK
2.005	S8113 Jelson		9.1	OK
2.006	S8022 Jelson Connection		10.6	OK
1.009	S8023		17.6	OK
1.010	S8025		19.8	OK
1.011	S8026		20.3	OK

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Summary Wizard of 960 minute 1 year Winter I+0% for Surface Network 8

PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)
			Level (m)	Depth (m)	Volume (m³)			
4.000		S8068	70 99.066	-0.274	0.000	0.02		
1.012		S8028	70 98.593	-0.501	0.000	0.06		
1.013		S8029	70 98.446	-0.524	0.000	0.04		
1.014		S8030	70 98.115	-0.505	0.000	0.06		
1.015		S8031	70 97.938	-0.522	0.000	0.04		
1.016		S8034	70 97.546	-0.534	0.000	0.03		
1.017		S8037	68 96.552	-0.428	0.000	0.11		
1.018	S8039 - Headwall	66	96.548	-0.310	0.000	0.05		
1.019	S8051 - Headwall	64	96.547	-0.353	0.000	0.08		
1.020	S8052 Control Chamber	57	96.546	-0.254	0.000	0.02		

PN	US/MH Name	Pipe Flow	
		(l/s)	Status
4.000		S8068 1.2	OK
1.012		S8028 22.9	OK
1.013		S8029 23.4	OK
1.014		S8030 24.0	OK
1.015		S8031 24.3	OK
1.016		S8034 25.3	OK
1.017		S8037 26.2	OK
1.018	S8039 - Headwall	26.1	OK
1.019	S8051 - Headwall	26.6	OK*
1.020	S8052 Control Chamber	11.2	OK

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<u>Simulation Criteria</u>																																																																																																																																																																																												
Areal Reduction Factor		1.000		Additional Flow - % of Total Flow		0.000																																																																																																																																																																																						
Hot Start (mins)		0		MADD Factor * 10m³/ha Storage		0.000																																																																																																																																																																																						
Hot Start Level (mm)		0		Inlet 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		2																																																																																																																																																																																						
Number of Online Controls		1		Number of Time/Area Diagrams		0																																																																																																																																																																																						
Number of Offline Controls		0		Number of Real Time Controls		0																																																																																																																																																																																						
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PN	US/MH Name	Storm Rank	Water Level	Surcharged Depth	Flooded Volume	Flow /	Overflow																																																																																																																																																																																					
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Summary Wizard of 1440 minute 1 year Winter I+0% for Surface Network 8

PN	US/MH Name	Half Drain Time (mins)	Pipe Flow (l/s)	Status
1.000	S8104 Jelson		1.3	OK
1.001	S8172 Jelson		1.9	OK
1.002	S8105 Jelson		2.1	OK
1.003	S8107 Jelson		2.2	OK
1.004	S8171 Jelson		4.2	OK
1.005	S8170 Jelson		4.2	OK
1.006	S8009 - Jelson Connection		4.2	OK
1.007	S8010		4.7	OK
1.008	S8011		4.9	OK
2.000	S8108 Jelson		1.4	OK
2.001	S8109 Jelson		2.3	OK
2.002	S8110 Jelson		3.0	OK
3.000	S8115 Jelson	168	0.9	OK
3.001	S8116 Jelson		1.5	OK
2.003	S8111 Jelson		4.6	OK
2.004	S8112 Jelson		5.7	OK
2.005	S8113 Jelson		6.7	OK
2.006	S8022 Jelson Connection		7.9	OK
1.009	S8023		13.1	OK
1.010	S8025		14.7	OK
1.011	S8026		15.1	OK

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Elstree Computing Ltd	Network 2020.1.3	

Summary Wizard of 15 minute 30 year Winter I+0% for Surface Network 8

PN	US/MH Name	Half Drain Pipe		Status
		Time (mins)	Flow (l/s)	
1.000	S8104 Jelson		56.4	OK
1.001	S8172 Jelson		85.0	OK
1.002	S8105 Jelson		95.6	OK
1.003	S8107 Jelson		99.5	OK
1.004	S8171 Jelson		190.4	OK
1.005	S8170 Jelson		187.9	OK
1.006	S8009 - Jelson Connection		173.6	SURCHARGED
1.007	S8010		186.4	SURCHARGED
1.008	S8011		192.5	SURCHARGED
2.000	S8108 Jelson		60.0	SURCHARGED
2.001	S8109 Jelson		90.8	SURCHARGED
2.002	S8110 Jelson		115.6	SURCHARGED
3.000	S8115 Jelson	3	49.7	OK
3.001	S8116 Jelson		82.3	SURCHARGED
2.003	S8111 Jelson		178.9	SURCHARGED
2.004	S8112 Jelson		193.8	SURCHARGED
2.005	S8113 Jelson		206.8	SURCHARGED
2.006	S8022 Jelson Connection		221.0	SURCHARGED
1.009	S8023		412.9	SURCHARGED
1.010	S8025		452.6	SURCHARGED
1.011	S8026		453.2	OK

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Summary Wizard of 15 minute 30 year Winter I+0% for Surface Network 8

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Overflow Cap. (l/s)	Half Drain Time (mins)
4.000		S8068	7 99.257	-0.083	0.000	0.58	
1.012		S8028	7 99.217	0.123	0.000	1.42	
1.013		S8029	7 98.958	-0.012	0.000	0.86	
1.014		S8030	7 98.697	0.077	0.000	1.29	
1.015		S8031	8 98.302	-0.158	0.000	0.89	
1.016		S8034	8 97.810	-0.270	0.000	0.58	
1.017		S8037	25 97.364	0.384	0.000	2.19	
1.018	S8039 - Headwall	29	97.088	0.230	0.000	1.10	
1.019	S8051 - Headwall	31	97.053	0.153	0.000	1.53	
1.020	S8052 Control Chamber	47	96.672	-0.128	0.000	0.02	

PN	US/MH Name	Pipe Flow (l/s)	Status
4.000		S8068 39.4	OK
1.012		S8028 500.8	SURCHARGED
1.013		S8029 508.2	OK
1.014		S8030 516.0	SURCHARGED
1.015		S8031 520.1	OK
1.016		S8034 532.1	OK
1.017		S8037 530.4	SURCHARGED
1.018	S8039 - Headwall	525.7	SURCHARGED*
1.019	S8051 - Headwall	530.2	SURCHARGED*
1.020	S8052 Control Chamber	11.3	OK

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Summary Wizard of 30 minute 30 year Winter I+0% for Surface Network 8

PN	US/MH Name	Half Drain Pipe		Status
		Time (mins)	Flow (l/s)	
1.000	S8104 Jelson		44.2	OK
1.001	S8172 Jelson		65.9	OK
1.002	S8105 Jelson		74.5	OK
1.003	S8107 Jelson		77.5	OK
1.004	S8171 Jelson		146.0	OK
1.005	S8170 Jelson		146.1	OK
1.006	S8009 - Jelson Connection		139.6	OK
1.007	S8010		151.9	SURCHARGED
1.008	S8011		155.9	SURCHARGED
2.000	S8108 Jelson		48.6	OK
2.001	S8109 Jelson		77.8	SURCHARGED
2.002	S8110 Jelson		99.0	SURCHARGED
3.000	S8115 Jelson	3	28.6	OK
3.001	S8116 Jelson		53.7	OK
2.003	S8111 Jelson		147.2	SURCHARGED
2.004	S8112 Jelson		167.6	SURCHARGED
2.005	S8113 Jelson		188.0	SURCHARGED
2.006	S8022 Jelson Connection		211.6	SURCHARGED
1.009	S8023		370.7	SURCHARGED
1.010	S8025		409.5	SURCHARGED
1.011	S8026		418.4	OK

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Dean Court 85 Adlington Road Wilmslow SK9 1BT																																																																																																																																																														
Date 11/08/2025 14:06		Designed by d_southa																																																																																																																																																												
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<u>Summary Wizard of 60 minute 30 year Winter I+0% for Surface Network 8</u>																																																																																																																																																														
<u>Simulation Criteria</u>																																																																																																																																																														
Areal Reduction Factor 1.000		Additional Flow - % of Total Flow 0.000																																																																																																																																																												
Hot Start (mins) 0		MADD Factor * 10m³/ha Storage 0.000																																																																																																																																																												
Hot Start Level (mm) 0		Inlet 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 2																																																																																																																																																														
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<u>Synthetic Rainfall Details</u>																																																																																																																																																														
Rainfall Model FSR		Ratio R 0.404																																																																																																																																																												
Region England and Wales Cv (Summer) 0.750																																																																																																																																																														
M5-60 (mm) 19.900		Cv (Winter) 0.840																																																																																																																																																												
Margin for Flood Risk Warning (mm) 300.0		DVD Status OFF																																																																																																																																																												
Analysis Timestep		Fine Inertia Status OFF																																																																																																																																																												
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Profile(s) Summer and Winter																																																																																																																																																														
Duration(s) (mins)		15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440																																																																																																																																																												
Return Period(s) (years)		1, 30, 100																																																																																																																																																												
Climate Change (%)		0, 0, 40																																																																																																																																																												
<table><tr><th>PN</th><th>US/MH Name</th><th>Storm Rank</th><th>Water Level (m)</th><th>Surcharged Depth (m)</th><th>Flooded Volume (m³)</th><th>Flow / Overflow Cap. (l/s)</th></tr><tr><td>1.000</td><td>S8104 Jelson</td><td>15</td><td>102.224</td><td>-0.192</td><td>0.000</td><td>0.28</td></tr><tr><td>1.001</td><td>S8172 Jelson</td><td>15</td><td>101.916</td><td>-0.173</td><td>0.000</td><td>0.37</td></tr><tr><td>1.002</td><td>S8105 Jelson</td><td>15</td><td>101.674</td><td>-0.162</td><td>0.000</td><td>0.43</td></tr><tr><td>1.003</td><td>S8107 Jelson</td><td>15</td><td>101.197</td><td>-0.324</td><td>0.000</td><td>0.17</td></tr><tr><td>1.004</td><td>S8171 Jelson</td><td>15</td><td>100.958</td><td>-0.298</td><td>0.000</td><td>0.24</td></tr><tr><td>1.005</td><td>S8170 Jelson</td><td>15</td><td>100.396</td><td>-0.270</td><td>0.000</td><td>0.33</td></tr><tr><td>1.006</td><td>S8009 - Jelson Connection</td><td>15</td><td>100.055</td><td>-0.353</td><td>0.000</td><td>0.23</td></tr><tr><td>1.007</td><td>S8010</td><td>15</td><td>99.977</td><td>-0.118</td><td>0.000</td><td>0.43</td></tr><tr><td>1.008</td><td>S8011</td><td>15</td><td>99.946</td><td>-0.039</td><td>0.000</td><td>0.35</td></tr><tr><td>2.000</td><td>S8108 Jelson</td><td>15</td><td>100.670</td><td>-0.185</td><td>0.000</td><td>0.31</td></tr><tr><td>2.001</td><td>S8109 Jelson</td><td>15</td><td>100.361</td><td>-0.078</td><td>0.000</td><td>0.69</td></tr><tr><td>2.002</td><td>S8110 Jelson</td><td>15</td><td>100.286</td><td>0.000</td><td>0.000</td><td>1.68</td></tr><tr><td>3.000</td><td>S8115 Jelson</td><td>15</td><td>100.130</td><td>-0.420</td><td>0.000</td><td>0.07</td></tr><tr><td>3.001</td><td>S8116 Jelson</td><td>15</td><td>100.058</td><td>-0.285</td><td>0.000</td><td>0.15</td></tr><tr><td>2.003</td><td>S8111 Jelson</td><td>15</td><td>100.049</td><td>-0.210</td><td>0.000</td><td>0.29</td></tr><tr><td>2.004</td><td>S8112 Jelson</td><td>15</td><td>100.025</td><td>-0.025</td><td>0.000</td><td>0.52</td></tr><tr><td>2.005</td><td>S8113 Jelson</td><td>15</td><td>99.993</td><td>0.015</td><td>0.000</td><td>1.22</td></tr><tr><td>2.006</td><td>S8022 Jelson Connection</td><td>15</td><td>99.960</td><td>0.009</td><td>0.000</td><td>0.62</td></tr><tr><td>1.009</td><td>S8023</td><td>15</td><td>99.917</td><td>0.092</td><td>0.000</td><td>1.59</td></tr><tr><td>1.010</td><td>S8025</td><td>15</td><td>99.624</td><td>-0.126</td><td>0.000</td><td>0.98</td></tr><tr><td>1.011</td><td>S8026</td><td>15</td><td>99.317</td><td>-0.323</td><td>0.000</td><td>0.43</td></tr></table>					PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Overflow Cap. (l/s)	1.000	S8104 Jelson	15	102.224	-0.192	0.000	0.28	1.001	S8172 Jelson	15	101.916	-0.173	0.000	0.37	1.002	S8105 Jelson	15	101.674	-0.162	0.000	0.43	1.003	S8107 Jelson	15	101.197	-0.324	0.000	0.17	1.004	S8171 Jelson	15	100.958	-0.298	0.000	0.24	1.005	S8170 Jelson	15	100.396	-0.270	0.000	0.33	1.006	S8009 - Jelson Connection	15	100.055	-0.353	0.000	0.23	1.007	S8010	15	99.977	-0.118	0.000	0.43	1.008	S8011	15	99.946	-0.039	0.000	0.35	2.000	S8108 Jelson	15	100.670	-0.185	0.000	0.31	2.001	S8109 Jelson	15	100.361	-0.078	0.000	0.69	2.002	S8110 Jelson	15	100.286	0.000	0.000	1.68	3.000	S8115 Jelson	15	100.130	-0.420	0.000	0.07	3.001	S8116 Jelson	15	100.058	-0.285	0.000	0.15	2.003	S8111 Jelson	15	100.049	-0.210	0.000	0.29	2.004	S8112 Jelson	15	100.025	-0.025	0.000	0.52	2.005	S8113 Jelson	15	99.993	0.015	0.000	1.22	2.006	S8022 Jelson Connection	15	99.960	0.009	0.000	0.62	1.009	S8023	15	99.917	0.092	0.000	1.59	1.010	S8025	15	99.624	-0.126	0.000	0.98	1.011	S8026	15	99.317	-0.323	0.000	0.43
PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Overflow Cap. (l/s)																																																																																																																																																								
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3.000	S8115 Jelson	15	100.130	-0.420	0.000	0.07																																																																																																																																																								
3.001	S8116 Jelson	15	100.058	-0.285	0.000	0.15																																																																																																																																																								
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2.004	S8112 Jelson	15	100.025	-0.025	0.000	0.52																																																																																																																																																								
2.005	S8113 Jelson	15	99.993	0.015	0.000	1.22																																																																																																																																																								
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<u>Summary Wizard of 60 minute 30 year Winter I+0% for Surface Network 8</u>				
PN	US/MH Name	Half Drain Time (mins)	Pipe Flow (l/s)	Status
1.000	S8104 Jelson		28.8	OK
1.001	S8172 Jelson		42.9	OK
1.002	S8105 Jelson		48.3	OK
1.003	S8107 Jelson		50.3	OK
1.004	S8171 Jelson		95.0	OK
1.005	S8170 Jelson		94.8	OK
1.006	S8009 - Jelson Connection		95.1	OK
1.007	S8010		105.0	OK
1.008	S8011		107.3	OK
2.000	S8108 Jelson		31.7	OK
2.001	S8109 Jelson		52.6	OK
2.002	S8110 Jelson		67.9	SURCHARGED
3.000	S8115 Jelson	14	19.8	OK
3.001	S8116 Jelson		33.0	OK
2.003	S8111 Jelson		100.8	OK
2.004	S8112 Jelson		123.3	OK
2.005	S8113 Jelson		145.0	SURCHARGED
2.006	S8022 Jelson Connection		169.0	SURCHARGED
1.009	S8023		283.8	SURCHARGED
1.010	S8025		315.0	OK
1.011	S8026		321.3	OK
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Summary Wizard of 60 minute 30 year Winter I+0% for Surface Network 8

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)
4.000		S8068	15 99.154	-0.186	0.000	0.31		
1.012		S8028	15 99.022	-0.072	0.000	1.00		
1.013		S8029	15 98.708	-0.262	0.000	0.61		
1.014		S8030	15 98.471	-0.149	0.000	0.92		
1.015		S8031	15 98.210	-0.250	0.000	0.64		
1.016		S8034	19 97.752	-0.328	0.000	0.42		
1.017		S8037	31 97.118	0.138	0.000	1.64		
1.018	S8039 - Headwall	46	96.961	0.103	0.000	0.83		
1.019	S8051 - Headwall	46	96.934	0.034	0.000	1.16		
1.020	S8052 Control Chamber	43	96.896	0.096	0.000	0.02		

PN	US/MH Name	Pipe Flow (l/s)	Status
4.000		S8068 20.8	OK
1.012		S8028 353.0	OK
1.013		S8029 360.3	OK
1.014		S8030 367.6	OK
1.015		S8031 371.7	OK
1.016		S8034 386.1	OK
1.017		S8037 397.4	SURCHARGED
1.018	S8039 - Headwall	394.8	SURCHARGED*
1.019	S8051 - Headwall	403.5	SURCHARGED*
1.020	S8052 Control Chamber	11.3	SURCHARGED

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Elstree Computing Ltd		Network 2020.1.3																
<u>Summary Wizard of 120 minute 30 year Winter I+0% for Surface Network 8</u>																		
<u>Simulation Criteria</u>																		
Areal Reduction Factor		1.000		Additional Flow - % of Total Flow		0.000												
Hot Start (mins)		0		MADD Factor * 10m³/ha Storage		0.000												
Hot Start Level (mm)		0		Inlet 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		2												
Number of Online Controls		1		Number of Time/Area Diagrams		0												
Number of Offline Controls		0		Number of Real Time Controls		0												
<u>Synthetic Rainfall Details</u>																		
Rainfall Model		FSR		Ratio R		0.404												
Region England and Wales Cv (Summer)		0.750																
M5-60 (mm)		19.900		Cv (Winter)		0.840												
Margin for Flood Risk Warning (mm)		300.0		DVD Status		OFF												
Analysis Timestep		Fine		Inertia Status		OFF												
DTS Status		ON																
Profile(s)				Summer and Winter														
Duration(s) (mins)		15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440																
Return Period(s) (years)		1, 30, 100																
Climate Change (%)		0, 0, 40																
<table><tr><th rowspan="2">PN</th><th rowspan="2">US/MH Name</th><th rowspan="2">Storm Rank</th><th>Water</th><th>Surcharged</th><th>Flooded</th><th rowspan="2">Flow / Cap.</th><th rowspan="2">Overflow (l/s)</th></tr><tr><th>Level (m)</th><th>Depth (m)</th><th>Volume (m³)</th></tr></table>								PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded	Flow / Cap.	Overflow (l/s)	Level (m)	Depth (m)	Volume (m³)
PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded	Flow / Cap.	Overflow (l/s)											
			Level (m)	Depth (m)	Volume (m³)													
1.000	S8104 Jelson	26	102.199	-0.217	0.000	0.17												
1.001	S8172 Jelson	25	101.886	-0.203	0.000	0.23												
1.002	S8105 Jelson	25	101.641	-0.195	0.000	0.27												
1.003	S8107 Jelson	25	101.169	-0.352	0.000	0.11												
1.004	S8171 Jelson	25	100.922	-0.334	0.000	0.15												
1.005	S8170 Jelson	25	100.353	-0.313	0.000	0.20												
1.006	S8009 - Jelson Connection	25	100.014	-0.393	0.000	0.14												
1.007	S8010	21	99.795	-0.300	0.000	0.27												
1.008	S8011	22	99.745	-0.240	0.000	0.22												
2.000	S8108 Jelson	26	100.644	-0.211	0.000	0.19												
2.001	S8109 Jelson	23	100.301	-0.138	0.000	0.42												
2.002	S8110 Jelson	23	100.265	-0.021	0.000	1.00												
3.000	S8115 Jelson	26	100.095	-0.455	0.000	0.04												
3.001	S8116 Jelson	25	99.937	-0.406	0.000	0.09												
2.003	S8111 Jelson	25	99.882	-0.377	0.000	0.18												
2.004	S8112 Jelson	22	99.821	-0.229	0.000	0.33												
2.005	S8113 Jelson	22	99.802	-0.176	0.000	0.77												
2.006	S8022 Jelson Connection	22	99.755	-0.196	0.000	0.39												
1.009	S8023	22	99.727	-0.098	0.000	1.00												
1.010	S8025	21	99.494	-0.256	0.000	0.62												
1.011	S8026	21	99.255	-0.385	0.000	0.28												

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<u>Summary Wizard of 120 minute 30 year Winter I+0% for Surface Network 8</u>				
PN	US/MH Name	Half Drain Time (mins)	Pipe Flow (l/s)	Status
1.000	S8104 Jelson		17.8	OK
1.001	S8172 Jelson		26.5	OK
1.002	S8105 Jelson		29.9	OK
1.003	S8107 Jelson		31.1	OK
1.004	S8171 Jelson		58.5	OK
1.005	S8170 Jelson		58.5	OK
1.006	S8009 - Jelson Connection		58.5	OK
1.007	S8010		65.3	OK
1.008	S8011		66.7	OK
2.000	S8108 Jelson		19.6	OK
2.001	S8109 Jelson		32.1	OK
2.002	S8110 Jelson		40.4	OK
3.000	S8115 Jelson	28	12.3	OK
3.001	S8116 Jelson		21.1	OK
2.003	S8111 Jelson		62.2	OK
2.004	S8112 Jelson		77.3	OK
2.005	S8113 Jelson		91.9	OK
2.006	S8022 Jelson Connection		107.2	OK
1.009	S8023		178.4	OK
1.010	S8025		199.4	OK
1.011	S8026		204.1	OK
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Dean Court 85 Adllington Road Wilmslow SK9 1BT								
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Elstree Computing Ltd			Network 2020.1.3					
<u>Summary Wizard of 120 minute 30 year Winter I+0% for Surface Network 8</u>								

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Climate Change (%)		0, 0, 40																																																																																																																																																																
<table><tr><th rowspan="2">PN</th><th rowspan="2">US/MH Name</th><th rowspan="2">Storm Rank</th><th>Water Level</th><th>Surcharged Depth</th><th>Flooded Volume</th><th>Flow / Overflow</th></tr><tr><th>(m)</th><th>(m)</th><th>(m³)</th><th>Cap. (l/s)</th></tr><tr><td>1.000</td><td>S8104 Jelson</td><td>31</td><td>102.187</td><td>-0.229</td><td>0.000</td><td>0.13</td></tr><tr><td>1.001</td><td>S8172 Jelson</td><td>31</td><td>101.872</td><td>-0.217</td><td>0.000</td><td>0.17</td></tr><tr><td>1.002</td><td>S8105 Jelson</td><td>31</td><td>101.626</td><td>-0.210</td><td>0.000</td><td>0.20</td></tr><tr><td>1.003</td><td>S8107 Jelson</td><td>31</td><td>101.155</td><td>-0.366</td><td>0.000</td><td>0.08</td></tr><tr><td>1.004</td><td>S8171 Jelson</td><td>31</td><td>100.906</td><td>-0.350</td><td>0.000</td><td>0.11</td></tr><tr><td>1.005</td><td>S8170 Jelson</td><td>31</td><td>100.333</td><td>-0.333</td><td>0.000</td><td>0.15</td></tr><tr><td>1.006</td><td>S8009 - Jelson Connection</td><td>31</td><td>99.997</td><td>-0.411</td><td>0.000</td><td>0.11</td></tr><tr><td>1.007</td><td>S8010</td><td>31</td><td>99.740</td><td>-0.355</td><td>0.000</td><td>0.20</td></tr><tr><td>1.008</td><td>S8011</td><td>30</td><td>99.661</td><td>-0.324</td><td>0.000</td><td>0.16</td></tr><tr><td>2.000</td><td>S8108 Jelson</td><td>31</td><td>100.630</td><td>-0.225</td><td>0.000</td><td>0.14</td></tr><tr><td>2.001</td><td>S8109 Jelson</td><td>31</td><td>100.255</td><td>-0.184</td><td>0.000</td><td>0.32</td></tr><tr><td>2.002</td><td>S8110 Jelson</td><td>31</td><td>100.160</td><td>-0.126</td><td>0.000</td><td>0.77</td></tr><tr><td>3.000</td><td>S8115 Jelson</td><td>31</td><td>100.086</td><td>-0.464</td><td>0.000</td><td>0.03</td></tr><tr><td>3.001</td><td>S8116 Jelson</td><td>31</td><td>99.920</td><td>-0.423</td><td>0.000</td><td>0.07</td></tr><tr><td>2.003</td><td>S8111 Jelson</td><td>31</td><td>99.862</td><td>-0.397</td><td>0.000</td><td>0.14</td></tr><tr><td>2.004</td><td>S8112 Jelson</td><td>31</td><td>99.762</td><td>-0.288</td><td>0.000</td><td>0.25</td></tr><tr><td>2.005</td><td>S8113 Jelson</td><td>31</td><td>99.742</td><td>-0.236</td><td>0.000</td><td>0.58</td></tr><tr><td>2.006</td><td>S8022 Jelson Connection</td><td>31</td><td>99.669</td><td>-0.282</td><td>0.000</td><td>0.30</td></tr><tr><td>1.009</td><td>S8023</td><td>30</td><td>99.643</td><td>-0.182</td><td>0.000</td><td>0.76</td></tr><tr><td>1.010</td><td>S8025</td><td>30</td><td>99.440</td><td>-0.310</td><td>0.000</td><td>0.47</td></tr><tr><td>1.011</td><td>S8026</td><td>30</td><td>99.226</td><td>-0.414</td><td>0.000</td><td>0.21</td></tr></table>					PN	US/MH Name	Storm Rank	Water Level	Surcharged Depth	Flooded Volume	Flow / Overflow	(m)	(m)	(m³)	Cap. (l/s)	1.000	S8104 Jelson	31	102.187	-0.229	0.000	0.13	1.001	S8172 Jelson	31	101.872	-0.217	0.000	0.17	1.002	S8105 Jelson	31	101.626	-0.210	0.000	0.20	1.003	S8107 Jelson	31	101.155	-0.366	0.000	0.08	1.004	S8171 Jelson	31	100.906	-0.350	0.000	0.11	1.005	S8170 Jelson	31	100.333	-0.333	0.000	0.15	1.006	S8009 - Jelson Connection	31	99.997	-0.411	0.000	0.11	1.007	S8010	31	99.740	-0.355	0.000	0.20	1.008	S8011	30	99.661	-0.324	0.000	0.16	2.000	S8108 Jelson	31	100.630	-0.225	0.000	0.14	2.001	S8109 Jelson	31	100.255	-0.184	0.000	0.32	2.002	S8110 Jelson	31	100.160	-0.126	0.000	0.77	3.000	S8115 Jelson	31	100.086	-0.464	0.000	0.03	3.001	S8116 Jelson	31	99.920	-0.423	0.000	0.07	2.003	S8111 Jelson	31	99.862	-0.397	0.000	0.14	2.004	S8112 Jelson	31	99.762	-0.288	0.000	0.25	2.005	S8113 Jelson	31	99.742	-0.236	0.000	0.58	2.006	S8022 Jelson Connection	31	99.669	-0.282	0.000	0.30	1.009	S8023	30	99.643	-0.182	0.000	0.76	1.010	S8025	30	99.440	-0.310	0.000	0.47	1.011	S8026	30	99.226	-0.414	0.000	0.21
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Elstree Computing Ltd		
Network 2020.1.3		

Summary Wizard of 180 minute 30 year Winter I+0% for Surface Network 8

PN	US/MH Name	Half Drain Time (mins)	Pipe Flow (l/s)	Status
1.000	S8104 Jelson		13.3	OK
1.001	S8172 Jelson		19.8	OK
1.002	S8105 Jelson		22.3	OK
1.003	S8107 Jelson		23.2	OK
1.004	S8171 Jelson		43.6	OK
1.005	S8170 Jelson		43.6	OK
1.006	S8009 - Jelson Connection		43.6	OK
1.007	S8010		48.7	OK
1.008	S8011		50.5	OK
2.000	S8108 Jelson		14.7	OK
2.001	S8109 Jelson		24.2	OK
2.002	S8110 Jelson		31.1	OK
3.000	S8115 Jelson	39	9.2	OK
3.001	S8116 Jelson		15.7	OK
2.003	S8111 Jelson		47.4	OK
2.004	S8112 Jelson		58.7	OK
2.005	S8113 Jelson		69.6	OK
2.006	S8022 Jelson Connection		81.2	OK
1.009	S8023		135.3	OK
1.010	S8025		151.3	OK
1.011	S8026		154.7	OK

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Return Period(s) (years)		1, 30, 100																																																																																																																																																																																		
Climate Change (%)		0, 0, 40																																																																																																																																																																																		
<table><tr><th>PN</th><th>US/MH Name</th><th>Storm Rank</th><th>Water Level (m)</th><th>Surcharged Depth (m)</th><th>Flooded Volume (m³)</th><th>Flow / Cap.</th><th>Overflow (l/s)</th></tr><tr><td>1.000</td><td>S8104 Jelson</td><td>36</td><td>102.180</td><td>-0.236</td><td>0.000</td><td>0.10</td><td></td></tr><tr><td>1.001</td><td>S8172 Jelson</td><td>36</td><td>101.862</td><td>-0.227</td><td>0.000</td><td>0.14</td><td></td></tr><tr><td>1.002</td><td>S8105 Jelson</td><td>36</td><td>101.616</td><td>-0.220</td><td>0.000</td><td>0.16</td><td></td></tr><tr><td>1.003</td><td>S8107 Jelson</td><td>36</td><td>101.145</td><td>-0.376</td><td>0.000</td><td>0.06</td><td></td></tr><tr><td>1.004</td><td>S8171 Jelson</td><td>36</td><td>100.897</td><td>-0.359</td><td>0.000</td><td>0.09</td><td></td></tr><tr><td>1.005</td><td>S8170 Jelson</td><td>36</td><td>100.320</td><td>-0.346</td><td>0.000</td><td>0.12</td><td></td></tr><tr><td>1.006</td><td>S8009 - Jelson Connection</td><td>36</td><td>99.986</td><td>-0.422</td><td>0.000</td><td>0.09</td><td></td></tr><tr><td>1.007</td><td>S8010</td><td>36</td><td>99.715</td><td>-0.380</td><td>0.000</td><td>0.16</td><td></td></tr><tr><td>1.008</td><td>S8011</td><td>36</td><td>99.623</td><td>-0.362</td><td>0.000</td><td>0.13</td><td></td></tr><tr><td>2.000</td><td>S8108 Jelson</td><td>36</td><td>100.622</td><td>-0.233</td><td>0.000</td><td>0.12</td><td></td></tr><tr><td>2.001</td><td>S8109 Jelson</td><td>36</td><td>100.242</td><td>-0.197</td><td>0.000</td><td>0.26</td><td></td></tr><tr><td>2.002</td><td>S8110 Jelson</td><td>36</td><td>100.125</td><td>-0.161</td><td>0.000</td><td>0.62</td><td></td></tr><tr><td>3.000</td><td>S8115 Jelson</td><td>36</td><td>100.081</td><td>-0.469</td><td>0.000</td><td>0.03</td><td></td></tr><tr><td>3.001</td><td>S8116 Jelson</td><td>36</td><td>99.907</td><td>-0.436</td><td>0.000</td><td>0.06</td><td></td></tr><tr><td>2.003</td><td>S8111 Jelson</td><td>36</td><td>99.849</td><td>-0.410</td><td>0.000</td><td>0.11</td><td></td></tr><tr><td>2.004</td><td>S8112 Jelson</td><td>36</td><td>99.729</td><td>-0.321</td><td>0.000</td><td>0.20</td><td></td></tr><tr><td>2.005</td><td>S8113 Jelson</td><td>36</td><td>99.706</td><td>-0.272</td><td>0.000</td><td>0.47</td><td></td></tr><tr><td>2.006</td><td>S8022 Jelson Connection</td><td>36</td><td>99.629</td><td>-0.322</td><td>0.000</td><td>0.24</td><td></td></tr><tr><td>1.009</td><td>S8023</td><td>36</td><td>99.597</td><td>-0.228</td><td>0.000</td><td>0.61</td><td></td></tr><tr><td>1.010</td><td>S8025</td><td>36</td><td>99.406</td><td>-0.344</td><td>0.000</td><td>0.38</td><td></td></tr><tr><td>1.011</td><td>S8026</td><td>36</td><td>99.205</td><td>-0.435</td><td>0.000</td><td>0.17</td><td></td></tr></table>					PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	1.000	S8104 Jelson	36	102.180	-0.236	0.000	0.10		1.001	S8172 Jelson	36	101.862	-0.227	0.000	0.14		1.002	S8105 Jelson	36	101.616	-0.220	0.000	0.16		1.003	S8107 Jelson	36	101.145	-0.376	0.000	0.06		1.004	S8171 Jelson	36	100.897	-0.359	0.000	0.09		1.005	S8170 Jelson	36	100.320	-0.346	0.000	0.12		1.006	S8009 - Jelson Connection	36	99.986	-0.422	0.000	0.09		1.007	S8010	36	99.715	-0.380	0.000	0.16		1.008	S8011	36	99.623	-0.362	0.000	0.13		2.000	S8108 Jelson	36	100.622	-0.233	0.000	0.12		2.001	S8109 Jelson	36	100.242	-0.197	0.000	0.26		2.002	S8110 Jelson	36	100.125	-0.161	0.000	0.62		3.000	S8115 Jelson	36	100.081	-0.469	0.000	0.03		3.001	S8116 Jelson	36	99.907	-0.436	0.000	0.06		2.003	S8111 Jelson	36	99.849	-0.410	0.000	0.11		2.004	S8112 Jelson	36	99.729	-0.321	0.000	0.20		2.005	S8113 Jelson	36	99.706	-0.272	0.000	0.47		2.006	S8022 Jelson Connection	36	99.629	-0.322	0.000	0.24		1.009	S8023	36	99.597	-0.228	0.000	0.61		1.010	S8025	36	99.406	-0.344	0.000	0.38		1.011	S8026	36	99.205	-0.435	0.000	0.17	
PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)																																																																																																																																																																													
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2.000	S8108 Jelson	36	100.622	-0.233	0.000	0.12																																																																																																																																																																														
2.001	S8109 Jelson	36	100.242	-0.197	0.000	0.26																																																																																																																																																																														
2.002	S8110 Jelson	36	100.125	-0.161	0.000	0.62																																																																																																																																																																														
3.000	S8115 Jelson	36	100.081	-0.469	0.000	0.03																																																																																																																																																																														
3.001	S8116 Jelson	36	99.907	-0.436	0.000	0.06																																																																																																																																																																														
2.003	S8111 Jelson	36	99.849	-0.410	0.000	0.11																																																																																																																																																																														
2.004	S8112 Jelson	36	99.729	-0.321	0.000	0.20																																																																																																																																																																														
2.005	S8113 Jelson	36	99.706	-0.272	0.000	0.47																																																																																																																																																																														
2.006	S8022 Jelson Connection	36	99.629	-0.322	0.000	0.24																																																																																																																																																																														
1.009	S8023	36	99.597	-0.228	0.000	0.61																																																																																																																																																																														
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Summary Wizard of 240 minute 30 year Winter I+0% for Surface Network 8

PN	US/MH Name	Half Drain	Pipe	Status
		Time (mins)	Flow (l/s)	
1.000	S8104	Jelson	10.7	OK
1.001	S8172	Jelson	15.9	OK
1.002	S8105	Jelson	17.9	OK
1.003	S8107	Jelson	18.6	OK
1.004	S8171	Jelson	35.1	OK
1.005	S8170	Jelson	35.1	OK
1.006	S8009 -	Jelson Connection	35.1	OK
1.007		S8010	39.3	OK
1.008		S8011	40.7	OK
2.000	S8108	Jelson	11.8	OK
2.001	S8109	Jelson	19.5	OK
2.002	S8110	Jelson	25.1	OK
3.000	S8115	Jelson	44 7.4	OK
3.001	S8116	Jelson	12.7	OK
2.003	S8111	Jelson	38.2	OK
2.004	S8112	Jelson	47.2	OK
2.005	S8113	Jelson	56.0	OK
2.006	S8022	Jelson Connection	65.4	OK
1.009		S8023	108.8	OK
1.010		S8025	122.0	OK
1.011		S8026	125.0	OK

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<u>Summary Wizard of 360 minute 30 year Winter I+0% for Surface Network 8</u>							
<u>Simulation Criteria</u>							
Areal Reduction Factor		1.000	Additional Flow - % of Total Flow		0.000		
Hot Start (mins)		0	MADD Factor * 10m³/ha Storage		0.000		
Hot Start Level (mm)		0	Inlet 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		2		
Number of Online Controls		1	Number of Time/Area Diagrams		0		
Number of Offline Controls		0	Number of Real Time Controls		0		
<u>Synthetic Rainfall Details</u>							
Rainfall Model		FSR	Ratio R		0.404		
Region England and Wales Cv (Summer)		0.750					
M5-60 (mm)		19.900	Cv (Winter)		0.840		
Margin for Flood Risk Warning (mm)		300.0	DVD Status		OFF		
Analysis Timestep		Fine	Inertia Status		OFF		
DTS Status		ON					
Profile(s)		Summer and Winter					
Duration(s) (mins)		15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440					
Return Period(s) (years)		1, 30, 100					
Climate Change (%)		0, 0, 40					
			<u>Water</u>	<u>Surcharged</u>	<u>Flooded</u>		
PN	US/MH Name	Storm Rank	Level (m)	Depth (m)	Volume (m³)	Flow / Cap.	Overflow (l/s)
1.000	S8104 Jelson	43	102.170	-0.246	0.000	0.07	
1.001	S8172 Jelson	43	101.852	-0.237	0.000	0.10	
1.002	S8105 Jelson	43	101.604	-0.232	0.000	0.12	
1.003	S8107 Jelson	43	101.133	-0.388	0.000	0.05	
1.004	S8171 Jelson	43	100.881	-0.375	0.000	0.07	
1.005	S8170 Jelson	43	100.306	-0.360	0.000	0.09	
1.006	S8009 - Jelson Connection	43	99.968	-0.440	0.000	0.06	
1.007	S8010	43	99.689	-0.406	0.000	0.12	
1.008	S8011	43	99.584	-0.401	0.000	0.10	
2.000	S8108 Jelson	43	100.613	-0.242	0.000	0.08	
2.001	S8109 Jelson	43	100.226	-0.213	0.000	0.19	
2.002	S8110 Jelson	43	100.088	-0.198	0.000	0.45	
3.000	S8115 Jelson	43	100.072	-0.478	0.000	0.02	
3.001	S8116 Jelson	43	99.892	-0.451	0.000	0.04	
2.003	S8111 Jelson	43	99.832	-0.427	0.000	0.08	
2.004	S8112 Jelson	43	99.691	-0.359	0.000	0.15	
2.005	S8113 Jelson	43	99.665	-0.313	0.000	0.34	
2.006	S8022 Jelson Connection	43	99.587	-0.364	0.000	0.18	
1.009	S8023	43	99.545	-0.280	0.000	0.45	
1.010	S8025	43	99.365	-0.385	0.000	0.28	
1.011	S8026	43	99.180	-0.460	0.000	0.12	
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Summary Wizard of 360 minute 30 year Winter I+0% for Surface Network 8

PN	US/MH Name	Half Drain Time (mins)	Pipe Flow (l/s)	Status
1.000	S8104 Jelson		7.8	OK
1.001	S8172 Jelson		11.6	OK
1.002	S8105 Jelson		13.1	OK
1.003	S8107 Jelson		13.6	OK
1.004	S8171 Jelson		25.6	OK
1.005	S8170 Jelson		25.6	OK
1.006	S8009 - Jelson Connection		25.6	OK
1.007	S8010		28.7	OK
1.008	S8011		29.8	OK
2.000	S8108 Jelson		8.6	OK
2.001	S8109 Jelson		14.2	OK
2.002	S8110 Jelson		18.3	OK
3.000	S8115 Jelson	66	5.4	OK
3.001	S8116 Jelson		9.3	OK
2.003	S8111 Jelson		27.9	OK
2.004	S8112 Jelson		34.5	OK
2.005	S8113 Jelson		41.0	OK
2.006	S8022 Jelson Connection		47.9	OK
1.009	S8023		79.8	OK
1.010	S8025		89.5	OK
1.011	S8026		91.6	OK

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Summary Wizard of 360 minute 30 year Winter I+0% for Surface Network 8

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)
4.000		S8068	43 99.098	-0.242	0.000	0.08		
1.012		S8028	43 98.716	-0.379	0.000	0.29		
1.013		S8029	43 98.540	-0.430	0.000	0.18		
1.014		S8030	43 98.232	-0.388	0.000	0.27		
1.015		S8031	43 98.036	-0.424	0.000	0.19		
1.016		S8034	45 97.621	-0.459	0.000	0.12		
1.017		S8037	34 97.107	0.127	0.000	0.49		
1.018	S8039 - Headwall	28	97.104	0.246	0.000	0.24		
1.019	S8051 - Headwall	28	97.104	0.204	0.000	0.33		
1.020	S8052 Control Chamber	25	97.103	0.303	0.000	0.02		

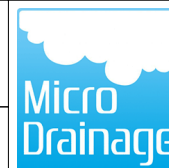
PN	US/MH Name	Pipe Flow (l/s)	Status
4.000		S8068 5.6	OK
1.012		S8028 103.7	OK
1.013		S8029 105.8	OK
1.014		S8030 108.3	OK
1.015		S8031 109.7	OK
1.016		S8034 114.5	OK
1.017		S8037 118.1	SURCHARGED
1.018	S8039 - Headwall	117.0	SURCHARGED*
1.019	S8051 - Headwall	116.0	SURCHARGED*
1.020	S8052 Control Chamber	11.3	SURCHARGED

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Summary Wizard of 480 minute 30 year Winter I+0% for Surface Network 8

PN	US/MH Name	Half Drain Time (mins)	Pipe Flow (l/s)	Status
1.000	S8104 Jelson		6.2	OK
1.001	S8172 Jelson		9.3	OK
1.002	S8105 Jelson		10.5	OK
1.003	S8107 Jelson		10.9	OK
1.004	S8171 Jelson		20.5	OK
1.005	S8170 Jelson		20.5	OK
1.006	S8009 - Jelson Connection		20.5	OK
1.007	S8010		22.9	OK
1.008	S8011		23.8	OK
2.000	S8108 Jelson		6.9	OK
2.001	S8109 Jelson		11.4	OK
2.002	S8110 Jelson		14.7	OK
3.000	S8115 Jelson	80	4.3	OK
3.001	S8116 Jelson		7.4	OK
2.003	S8111 Jelson		22.3	OK
2.004	S8112 Jelson		27.6	OK
2.005	S8113 Jelson		32.8	OK
2.006	S8022 Jelson Connection		38.3	OK
1.009	S8023		63.9	OK
1.010	S8025		71.6	OK
1.011	S8026		73.4	OK

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Summary Wizard of 480 minute 30 year Winter I+0% for Surface Network 8

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m ³)	Flow / Cap.	Overflow (l/s)	Half Drain
								Time (mins)
4.000		S8068	50	99.090	-0.250	0.000	0.07	
1.012		S8028	49	98.690	-0.404	0.000	0.24	
1.013		S8029	49	98.520	-0.450	0.000	0.14	
1.014		S8030	49	98.208	-0.412	0.000	0.22	
1.015		S8031	49	98.015	-0.445	0.000	0.15	
1.016		S8034	50	97.607	-0.473	0.000	0.10	
1.017		S8037	30	97.118	0.138	0.000	0.39	
1.018	S8039 -	Headwall	25	97.116	0.258	0.000	0.20	
1.019	S8051 -	Headwall	25	97.115	0.215	0.000	0.27	
1.020	S8052	Control Chamber	22	97.115	0.315	0.000	0.02	

PN	US/MH Name	Pipe Flow (1/s)	Status
4.000	S8068	4.5	OK
1.012	S8028	83.0	OK
1.013	S8029	84.8	OK
1.014	S8030	86.8	OK
1.015	S8031	88.0	OK
1.016	S8034	91.8	OK
1.017	S8037	94.5	SURCHARGED
1.018	S8039 - Headwall	93.5	SURCHARGED*
1.019	S8051 - Headwall	92.9	SURCHARGED*
1.020	S8052 Control Chamber	11.3	SURCHARGED

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Summary Wizard of 600 minute 30 year Winter I+0% for Surface Network 8

PN	US/MH Name	Half Drain Time (mins)	Pipe Flow (l/s)	Status
1.000	S8104 Jelson		5.2	OK
1.001	S8172 Jelson		7.8	OK
1.002	S8105 Jelson		8.8	OK
1.003	S8107 Jelson		9.1	OK
1.004	S8171 Jelson		17.2	OK
1.005	S8170 Jelson		17.2	OK
1.006	S8009 - Jelson Connection		17.2	OK
1.007	S8010		19.3	OK
1.008	S8011		20.0	OK
2.000	S8108 Jelson		5.8	OK
2.001	S8109 Jelson		9.5	OK
2.002	S8110 Jelson		12.3	OK
3.000	S8115 Jelson	90	3.6	OK
3.001	S8116 Jelson		6.2	OK
2.003	S8111 Jelson		18.7	OK
2.004	S8112 Jelson		23.2	OK
2.005	S8113 Jelson		27.5	OK
2.006	S8022 Jelson Connection		32.2	OK
1.009	S8023		53.7	OK
1.010	S8025		60.2	OK
1.011	S8026		61.7	OK

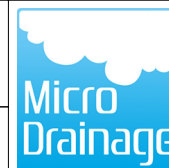
JS Bloor (Wilmslow) Ltd			Page 176																																																																																																																																																																		
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Hot Start (mins) 0		MADD Factor * 10m³/ha Storage 0.000																																																																																																																																																																			
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Profile(s)		Summer and Winter																																																																																																																																																																			
Duration(s) (mins)		15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440																																																																																																																																																																			
Return Period(s) (years)		1, 30, 100																																																																																																																																																																			
Climate Change (%)		0, 0, 40																																																																																																																																																																			
<table><thead><tr><th></th><th></th><th>Water</th><th>Surcharged</th><th>Flooded</th><th></th><th></th></tr><tr><th>PN</th><th>US/MH Name</th><th>Storm Rank</th><th>Level (m)</th><th>Depth (m)</th><th>Volume (m³)</th><th>Flow / Overflow Cap. (l/s)</th></tr></thead><tbody><tr><td>1.000</td><td>S8104 Jelson</td><td>58</td><td>102.156</td><td>-0.260</td><td>0.000</td><td>0.04</td></tr><tr><td>1.001</td><td>S8172 Jelson</td><td>58</td><td>101.836</td><td>-0.253</td><td>0.000</td><td>0.06</td></tr><tr><td>1.002</td><td>S8105 Jelson</td><td>58</td><td>101.587</td><td>-0.249</td><td>0.000</td><td>0.07</td></tr><tr><td>1.003</td><td>S8107 Jelson</td><td>58</td><td>101.120</td><td>-0.401</td><td>0.000</td><td>0.03</td></tr><tr><td>1.004</td><td>S8171 Jelson</td><td>58</td><td>100.863</td><td>-0.393</td><td>0.000</td><td>0.04</td></tr><tr><td>1.005</td><td>S8170 Jelson</td><td>58</td><td>100.282</td><td>-0.384</td><td>0.000</td><td>0.05</td></tr><tr><td>1.006</td><td>S8009 - Jelson Connection</td><td>58</td><td>99.947</td><td>-0.461</td><td>0.000</td><td>0.04</td></tr><tr><td>1.007</td><td>S8010</td><td>58</td><td>99.660</td><td>-0.435</td><td>0.000</td><td>0.07</td></tr><tr><td>1.008</td><td>S8011</td><td>58</td><td>99.542</td><td>-0.443</td><td>0.000</td><td>0.06</td></tr><tr><td>2.000</td><td>S8108 Jelson</td><td>58</td><td>100.597</td><td>-0.258</td><td>0.000</td><td>0.05</td></tr><tr><td>2.001</td><td>S8109 Jelson</td><td>58</td><td>100.205</td><td>-0.234</td><td>0.000</td><td>0.11</td></tr><tr><td>2.002</td><td>S8110 Jelson</td><td>58</td><td>100.041</td><td>-0.245</td><td>0.000</td><td>0.26</td></tr><tr><td>3.000</td><td>S8115 Jelson</td><td>58</td><td>100.053</td><td>-0.497</td><td>0.000</td><td>0.01</td></tr><tr><td>3.001</td><td>S8116 Jelson</td><td>58</td><td>99.875</td><td>-0.468</td><td>0.000</td><td>0.02</td></tr><tr><td>2.003</td><td>S8111 Jelson</td><td>58</td><td>99.806</td><td>-0.453</td><td>0.000</td><td>0.05</td></tr><tr><td>2.004</td><td>S8112 Jelson</td><td>58</td><td>99.643</td><td>-0.407</td><td>0.000</td><td>0.09</td></tr><tr><td>2.005</td><td>S8113 Jelson</td><td>58</td><td>99.612</td><td>-0.366</td><td>0.000</td><td>0.20</td></tr><tr><td>2.006</td><td>S8022 Jelson Connection</td><td>58</td><td>99.538</td><td>-0.413</td><td>0.000</td><td>0.10</td></tr><tr><td>1.009</td><td>S8023</td><td>58</td><td>99.481</td><td>-0.344</td><td>0.000</td><td>0.26</td></tr><tr><td>1.010</td><td>S8025</td><td>58</td><td>99.311</td><td>-0.439</td><td>0.000</td><td>0.16</td></tr><tr><td>1.011</td><td>S8026</td><td>58</td><td>99.146</td><td>-0.494</td><td>0.000</td><td>0.07</td></tr></tbody></table>							Water	Surcharged	Flooded			PN	US/MH Name	Storm Rank	Level (m)	Depth (m)	Volume (m³)	Flow / Overflow Cap. (l/s)	1.000	S8104 Jelson	58	102.156	-0.260	0.000	0.04	1.001	S8172 Jelson	58	101.836	-0.253	0.000	0.06	1.002	S8105 Jelson	58	101.587	-0.249	0.000	0.07	1.003	S8107 Jelson	58	101.120	-0.401	0.000	0.03	1.004	S8171 Jelson	58	100.863	-0.393	0.000	0.04	1.005	S8170 Jelson	58	100.282	-0.384	0.000	0.05	1.006	S8009 - Jelson Connection	58	99.947	-0.461	0.000	0.04	1.007	S8010	58	99.660	-0.435	0.000	0.07	1.008	S8011	58	99.542	-0.443	0.000	0.06	2.000	S8108 Jelson	58	100.597	-0.258	0.000	0.05	2.001	S8109 Jelson	58	100.205	-0.234	0.000	0.11	2.002	S8110 Jelson	58	100.041	-0.245	0.000	0.26	3.000	S8115 Jelson	58	100.053	-0.497	0.000	0.01	3.001	S8116 Jelson	58	99.875	-0.468	0.000	0.02	2.003	S8111 Jelson	58	99.806	-0.453	0.000	0.05	2.004	S8112 Jelson	58	99.643	-0.407	0.000	0.09	2.005	S8113 Jelson	58	99.612	-0.366	0.000	0.20	2.006	S8022 Jelson Connection	58	99.538	-0.413	0.000	0.10	1.009	S8023	58	99.481	-0.344	0.000	0.26	1.010	S8025	58	99.311	-0.439	0.000	0.16	1.011	S8026	58	99.146	-0.494	0.000	0.07
		Water	Surcharged	Flooded																																																																																																																																																																	
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1.005	S8170 Jelson	58	100.282	-0.384	0.000	0.05																																																																																																																																																															
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3.000	S8115 Jelson	58	100.053	-0.497	0.000	0.01																																																																																																																																																															
3.001	S8116 Jelson	58	99.875	-0.468	0.000	0.02																																																																																																																																																															
2.003	S8111 Jelson	58	99.806	-0.453	0.000	0.05																																																																																																																																																															
2.004	S8112 Jelson	58	99.643	-0.407	0.000	0.09																																																																																																																																																															
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Elstree Computing Ltd	Network 2020.1.3	

Summary Wizard of 720 minute 30 year Winter I+0% for Surface Network 8

PN	US/MH Name	Half Drain Time (mins)	Pipe Flow (l/s)	Status
1.000	S8104 Jelson		4.5	OK
1.001	S8172 Jelson		6.8	OK
1.002	S8105 Jelson		7.6	OK
1.003	S8107 Jelson		7.9	OK
1.004	S8171 Jelson		14.9	OK
1.005	S8170 Jelson		14.9	OK
1.006	S8009 - Jelson Connection		14.9	OK
1.007	S8010		16.7	OK
1.008	S8011		17.3	OK
2.000	S8108 Jelson		5.0	OK
2.001	S8109 Jelson		8.3	OK
2.002	S8110 Jelson		10.7	OK
3.000	S8115 Jelson	108	3.1	OK
3.001	S8116 Jelson		5.4	OK
2.003	S8111 Jelson		16.3	OK
2.004	S8112 Jelson		20.1	OK
2.005	S8113 Jelson		23.9	OK
2.006	S8022 Jelson Connection		27.9	OK
1.009	S8023		46.5	OK
1.010	S8025		52.2	OK
1.011	S8026		53.5	OK

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Summary Wizard of 720 minute 30 year Winter I+0% for Surface Network 8

PN	US/MH Name	Storm Rank	Water		Surcharged	Flooded	Flow / Cap.	Overflow (l/s)	Half Drain
			Level (m)	Depth (m)	Volume (m³)	Time (mins)			
4.000		S8068	58	99.082	-0.258	0.000	0.05		
1.012		S8028	58	98.660	-0.434	0.000	0.17		
1.013		S8029	58	98.499	-0.471	0.000	0.10		
1.014		S8030	58	98.178	-0.442	0.000	0.16		
1.015		S8031	58	97.992	-0.468	0.000	0.11		
1.016		S8034	58	97.586	-0.494	0.000	0.07		
1.017		S8037	33	97.109	0.129	0.000	0.28		
1.018	S8039 - Headwall	27	97.108		0.250	0.000	0.14		
1.019	S8051 - Headwall	27	97.107		0.207	0.000	0.20		
1.020	S8052 Control Chamber	24	97.106		0.306	0.000	0.02		

PN	US/MH Name	Pipe Flow (l/s)	Status
4.000	S8068	3.3	OK
1.012	S8028	60.5	OK
1.013	S8029	61.9	OK
1.014	S8030	63.3	OK
1.015	S8031	64.2	OK
1.016	S8034	67.1	OK
1.017	S8037	69.1	SURCHARGED
1.018	S8039 - Headwall	68.4	SURCHARGED*
1.019	S8051 - Headwall	68.0	SURCHARGED*
1.020	S8052 Control Chamber	11.3	SURCHARGED

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Network 2020.1.3

Summary Wizard of 960 minute 30 year Winter I+0% for Surface Network 8

PN	US/MH Name	Half Drain Time (mins)	Pipe	Status
			Flow (l/s)	
1.000	S8104	Jelson	3.6	OK
1.001	S8172	Jelson	5.4	OK
1.002	S8105	Jelson	6.1	OK
1.003	S8107	Jelson	6.3	OK
1.004	S8171	Jelson	11.9	OK
1.005	S8170	Jelson	11.9	OK
1.006	S8009 -	Jelson Connection	11.9	OK
1.007		S8010	13.3	OK
1.008		S8011	13.8	OK
2.000	S8108	Jelson	4.0	OK
2.001	S8109	Jelson	6.6	OK
2.002	S8110	Jelson	8.5	OK
3.000	S8115	Jelson	144 2.5	OK
3.001	S8116	Jelson	4.3	OK
2.003	S8111	Jelson	13.0	OK
2.004	S8112	Jelson	16.1	OK
2.005	S8113	Jelson	19.1	OK
2.006	S8022	Jelson Connection	22.3	OK
1.009		S8023	37.1	OK
1.010		S8025	41.7	OK
1.011		S8026	42.7	OK

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Summary Wizard of 960 minute 30 year Winter I+0% for Surface Network 8

PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded	Half Drain	
			Level (m)	Depth (m)	Volume (m³)	Flow / Cap.	Overflow (l/s)
4.000		S8068	60	99.078	-0.262	0.000	0.04
1.012		S8028	60	98.641	-0.453	0.000	0.14
1.013		S8029	60	98.485	-0.485	0.000	0.08
1.014		S8030	60	98.161	-0.459	0.000	0.13
1.015		S8031	60	97.979	-0.481	0.000	0.09
1.016		S8034	60	97.573	-0.507	0.000	0.06
1.017		S8037	35	97.081	0.101	0.000	0.23
1.018	S8039 - Headwall	30	97.079	0.221	0.000	0.11	
1.019	S8051 - Headwall	29	97.079	0.179	0.000	0.16	
1.020	S8052 Control Chamber	27	97.078	0.278	0.000	0.02	

PN	US/MH Name	Pipe Flow (l/s)	Status
4.000		S8068 2.6	OK
1.012		S8028 48.3	OK
1.013		S8029 49.4	OK
1.014		S8030 50.6	OK
1.015		S8031 51.3	OK
1.016		S8034 53.5	OK
1.017		S8037 55.1	SURCHARGED
1.018	S8039 - Headwall	54.6	SURCHARGED*
1.019	S8051 - Headwall	54.4	SURCHARGED*
1.020	S8052 Control Chamber	11.3	SURCHARGED

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Summary Wizard of 1440 minute 30 year Winter I+0% for Surface Network 8

PN	US/MH Name	Half Drain Time (mins)	Pipe Flow (l/s)	Status
1.000	S8104 Jelson		2.6	OK
1.001	S8172 Jelson		3.9	OK
1.002	S8105 Jelson		4.4	OK
1.003	S8107 Jelson		4.6	OK
1.004	S8171 Jelson		8.7	OK
1.005	S8170 Jelson		8.7	OK
1.006	S8009 - Jelson Connection		8.7	OK
1.007	S8010		9.7	OK
1.008	S8011		10.1	OK
2.000	S8108 Jelson		2.9	OK
2.001	S8109 Jelson		4.8	OK
2.002	S8110 Jelson		6.2	OK
3.000	S8115 Jelson	192	1.8	OK
3.001	S8116 Jelson		3.1	OK
2.003	S8111 Jelson		9.4	OK
2.004	S8112 Jelson		11.7	OK
2.005	S8113 Jelson		13.9	OK
2.006	S8022 Jelson Connection		16.2	OK
1.009	S8023		27.0	OK
1.010	S8025		30.3	OK
1.011	S8026		31.0	OK

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Summary Wizard of 15 minute 100 year Winter I+40% for Surface Network 8

Simulation Criteria

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

Number of Input Hydrographs 0 Number of Storage Structures 2
 Number of Online Controls 1 Number of Time/Area Diagrams 0
 Number of Offline Controls 0 Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model FSR Ratio R 0.404
 Region England and Wales Cv (Summer) 0.750
 M5-60 (mm) 19.900 Cv (Winter) 0.840

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

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

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

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Overflow Cap. (l/s)
1.000	S8104 Jelson	1	103.499	1.083	0.000	0.89
1.001	S8172 Jelson	1	103.262	1.173	0.000	1.15
1.002	S8105 Jelson	1	102.959	1.123	0.000	1.27
1.003	S8107 Jelson	1	102.480	0.959	0.000	0.50
1.004	S8171 Jelson	1	102.430	1.174	0.000	0.69
1.005	S8170 Jelson	1	102.121	1.455	0.000	0.91
1.006	S8009 - Jelson Connection	1	101.885	1.477	1.808	0.64
1.007	S8010	1	101.815	1.720	2.692	1.25
1.008	S8011	1	101.746	1.761	0.000	1.02
2.000	S8108 Jelson	1	102.563	1.708	3.383	1.00
2.001	S8109 Jelson	1	102.302	1.863	1.810	1.98
2.002	S8110 Jelson	1	101.921	1.635	0.000	4.73
3.000	S8115 Jelson	1	101.266	0.716	0.000	0.80
3.001	S8116 Jelson	1	101.450	1.107	0.000	1.01
2.003	S8111 Jelson	1	101.647	1.388	0.000	0.74
2.004	S8112 Jelson	1	101.707	1.657	0.000	1.10
2.005	S8113 Jelson	1	101.725	1.747	0.000	2.22
2.006	S8022 Jelson Connection	1	101.714	1.763	0.000	1.12

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<u>Summary Wizard of 15 minute 100 year Winter I+40% for Surface Network 8</u>				
PN	US/MH Name	Half Drain Time (mins)	Pipe Flow (l/s)	Status
1.000	S8104 Jelson		92.1	FLOOD RISK
1.001	S8172 Jelson		133.4	FLOOD RISK
1.002	S8105 Jelson		143.2	SURCHARGED
1.003	S8107 Jelson		145.9	SURCHARGED
1.004	S8171 Jelson		267.4	SURCHARGED
1.005	S8170 Jelson		261.6	FLOOD RISK
1.006	S8009 - Jelson Connection		261.2	FLOOD
1.007	S8010		303.0	FLOOD
1.008	S8011		312.2	FLOOD RISK
2.000	S8108 Jelson		101.8	FLOOD
2.001	S8109 Jelson		150.5	FLOOD
2.002	S8110 Jelson		191.1	SURCHARGED
3.000	S8115 Jelson	7	225.4	FLOOD RISK
3.001	S8116 Jelson		228.3	SURCHARGED
2.003	S8111 Jelson		258.2	SURCHARGED
2.004	S8112 Jelson		261.3	SURCHARGED
2.005	S8113 Jelson		264.5	SURCHARGED
2.006	S8022 Jelson Connection		306.1	SURCHARGED
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Summary Wizard of 15 minute 100 year Winter I+40% for Surface Network 8

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap. (l/s)	Half Drain Time (mins)
1.009	S8023	1	101.677	1.852	0.000	2.86	
1.010	S8025	1	101.252	1.502	0.000	1.89	
1.011	S8026	1	100.981	1.341	0.000	0.83	
4.000	S8068	1	100.753	1.413	0.931	0.87	
1.012	S8028	1	100.690	1.596	0.000	2.04	
1.013	S8029	1	100.272	1.302	0.000	1.22	
1.014	S8030	1	99.814	1.194	0.000	1.82	
1.015	S8031	1	99.319	0.859	0.000	1.26	
1.016	S8034	1	98.738	0.658	0.000	0.82	
1.017	S8037	1	98.004	1.024	0.000	3.20	
1.018	S8039 - Headwall	19	97.434	0.576	0.000	1.58	
1.019	S8051 - Headwall	20	97.380	0.480	0.000	2.23	
1.020	S8052 Control Chamber	37	96.984	0.184	0.000	0.02	

PN	US/MH Name	Pipe Flow (l/s)	Status
1.009	S8023	510.9	FLOOD RISK
1.010	S8025	604.8	SURCHARGED
1.011	S8026	615.7	SURCHARGED
4.000	S8068	59.3	FLOOD
1.012	S8028	718.5	SURCHARGED
1.013	S8029	722.2	SURCHARGED
1.014	S8030	728.3	SURCHARGED
1.015	S8031	735.6	SURCHARGED
1.016	S8034	748.5	SURCHARGED
1.017	S8037	775.0	FLOOD RISK
1.018	S8039 - Headwall	756.0	SURCHARGED*
1.019	S8051 - Headwall	773.1	SURCHARGED*
1.020	S8052 Control Chamber	11.3	SURCHARGED

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<u>Summary Wizard of 30 minute 100 year Winter I+40% for Surface Network 8</u>				
PN	US/MH Name	Half Drain Time (mins)	Pipe Flow (l/s)	Status
1.000	S8104 Jelson		79.4	SURCHARGED
1.001	S8172 Jelson		110.5	SURCHARGED
1.002	S8105 Jelson		121.5	SURCHARGED
1.003	S8107 Jelson		133.1	SURCHARGED
1.004	S8171 Jelson		237.6	SURCHARGED
1.005	S8170 Jelson		215.6	SURCHARGED
1.006	S8009 - Jelson Connection		217.8	FLOOD RISK
1.007	S8010		242.5	FLOOD RISK
1.008	S8011		253.0	SURCHARGED
2.000	S8108 Jelson		82.7	FLOOD RISK
2.001	S8109 Jelson		134.0	FLOOD RISK
2.002	S8110 Jelson		169.1	SURCHARGED
3.000	S8115 Jelson	8	183.4	FLOOD RISK
3.001	S8116 Jelson		193.2	SURCHARGED
2.003	S8111 Jelson		244.7	SURCHARGED
2.004	S8112 Jelson		259.7	SURCHARGED
2.005	S8113 Jelson		274.6	SURCHARGED
2.006	S8022 Jelson Connection		290.1	SURCHARGED
1.009	S8023		481.8	SURCHARGED
1.010	S8025		561.0	SURCHARGED
1.011	S8026		572.2	SURCHARGED
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Hot Start (mins) 0		MADD Factor * 10m³/ha Storage 0.000																																																																																																																																																																																					
Hot Start Level (mm) 0		Inlet Coeffiecient 0.800																																																																																																																																																																																					
Manhole Headloss Coeff (Global) 0.500		Flow per Person per Day (l/per/day) 0.000																																																																																																																																																																																					
Foul Sewage per hectare (l/s) 0.000																																																																																																																																																																																							
Number of Input Hydrographs 0		Number of Storage Structures 2																																																																																																																																																																																					
Number of Online Controls 1		Number of Time/Area Diagrams 0																																																																																																																																																																																					
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Rainfall Model		FSR		Ratio R 0.404																																																																																																																																																																																			
Region England and Wales Cv (Summer)		0.750																																																																																																																																																																																					
M5-60 (mm)		19.900 Cv (Winter)		0.840																																																																																																																																																																																			
Margin for Flood Risk Warning (mm) 300.0		DVD Status OFF																																																																																																																																																																																					
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DTS Status		ON																																																																																																																																																																																					
Profile(s)		Summer and Winter																																																																																																																																																																																					
Duration(s) (mins)		15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440																																																																																																																																																																																					
Return Period(s) (years)		1, 30, 100																																																																																																																																																																																					
Climate Change (%)		0, 0, 40																																																																																																																																																																																					
<table><tr><th rowspan="2">PN</th><th rowspan="2">US/MH Name</th><th rowspan="2">Storm Rank</th><th>Water</th><th>Surcharged</th><th>Flooded</th><th rowspan="2">Flow / Overflow Cap.</th><th rowspan="2">(l/s)</th></tr><tr><th>Level (m)</th><th>Depth (m)</th><th>Volume (m³)</th></tr><tr><td>1.000</td><td>S8104 Jelson</td><td>8</td><td>102.269</td><td>-0.147</td><td>0.000</td><td>0.51</td><td></td></tr><tr><td>1.001</td><td>S8172 Jelson</td><td>8</td><td>101.973</td><td>-0.116</td><td>0.000</td><td>0.68</td><td></td></tr><tr><td>1.002</td><td>S8105 Jelson</td><td>8</td><td>101.741</td><td>-0.095</td><td>0.000</td><td>0.79</td><td></td></tr><tr><td>1.003</td><td>S8107 Jelson</td><td>8</td><td>101.247</td><td>-0.274</td><td>0.000</td><td>0.32</td><td></td></tr><tr><td>1.004</td><td>S8171 Jelson</td><td>8</td><td>101.019</td><td>-0.237</td><td>0.000</td><td>0.45</td><td></td></tr><tr><td>1.005</td><td>S8170 Jelson</td><td>6</td><td>100.772</td><td>0.106</td><td>0.000</td><td>0.58</td><td></td></tr><tr><td>1.006</td><td>S8009 - Jelson Connection</td><td>6</td><td>100.716</td><td>0.309</td><td>0.000</td><td>0.39</td><td></td></tr><tr><td>1.007</td><td>S8010</td><td>6</td><td>100.679</td><td>0.584</td><td>0.000</td><td>0.74</td><td></td></tr><tr><td>1.008</td><td>S8011</td><td>6</td><td>100.623</td><td>0.638</td><td>0.000</td><td>0.61</td><td></td></tr><tr><td>2.000</td><td>S8108 Jelson</td><td>6</td><td>101.202</td><td>0.347</td><td>0.000</td><td>0.55</td><td></td></tr><tr><td>2.001</td><td>S8109 Jelson</td><td>6</td><td>101.078</td><td>0.639</td><td>0.000</td><td>1.22</td><td></td></tr><tr><td>2.002</td><td>S8110 Jelson</td><td>6</td><td>100.870</td><td>0.584</td><td>0.000</td><td>2.94</td><td></td></tr><tr><td>3.000</td><td>S8115 Jelson</td><td>6</td><td>100.757</td><td>0.207</td><td>0.000</td><td>0.32</td><td></td></tr><tr><td>3.001</td><td>S8116 Jelson</td><td>6</td><td>100.764</td><td>0.421</td><td>0.000</td><td>0.51</td><td></td></tr><tr><td>2.003</td><td>S8111 Jelson</td><td>6</td><td>100.761</td><td>0.502</td><td>0.000</td><td>0.55</td><td></td></tr><tr><td>2.004</td><td>S8112 Jelson</td><td>6</td><td>100.731</td><td>0.681</td><td>0.000</td><td>0.90</td><td></td></tr><tr><td>2.005</td><td>S8113 Jelson</td><td>6</td><td>100.691</td><td>0.713</td><td>0.000</td><td>1.96</td><td></td></tr><tr><td>2.006</td><td>S8022 Jelson Connection</td><td>6</td><td>100.646</td><td>0.695</td><td>0.000</td><td>0.94</td><td></td></tr><tr><td>1.009</td><td>S8023</td><td>6</td><td>100.576</td><td>0.751</td><td>0.000</td><td>2.49</td><td></td></tr><tr><td>1.010</td><td>S8025</td><td>6</td><td>100.144</td><td>0.394</td><td>0.000</td><td>1.58</td><td></td></tr><tr><td>1.011</td><td>S8026</td><td>6</td><td>99.893</td><td>0.253</td><td>0.000</td><td>0.69</td><td></td></tr></table>					PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded	Flow / Overflow Cap.	(l/s)	Level (m)	Depth (m)	Volume (m³)	1.000	S8104 Jelson	8	102.269	-0.147	0.000	0.51		1.001	S8172 Jelson	8	101.973	-0.116	0.000	0.68		1.002	S8105 Jelson	8	101.741	-0.095	0.000	0.79		1.003	S8107 Jelson	8	101.247	-0.274	0.000	0.32		1.004	S8171 Jelson	8	101.019	-0.237	0.000	0.45		1.005	S8170 Jelson	6	100.772	0.106	0.000	0.58		1.006	S8009 - Jelson Connection	6	100.716	0.309	0.000	0.39		1.007	S8010	6	100.679	0.584	0.000	0.74		1.008	S8011	6	100.623	0.638	0.000	0.61		2.000	S8108 Jelson	6	101.202	0.347	0.000	0.55		2.001	S8109 Jelson	6	101.078	0.639	0.000	1.22		2.002	S8110 Jelson	6	100.870	0.584	0.000	2.94		3.000	S8115 Jelson	6	100.757	0.207	0.000	0.32		3.001	S8116 Jelson	6	100.764	0.421	0.000	0.51		2.003	S8111 Jelson	6	100.761	0.502	0.000	0.55		2.004	S8112 Jelson	6	100.731	0.681	0.000	0.90		2.005	S8113 Jelson	6	100.691	0.713	0.000	1.96		2.006	S8022 Jelson Connection	6	100.646	0.695	0.000	0.94		1.009	S8023	6	100.576	0.751	0.000	2.49		1.010	S8025	6	100.144	0.394	0.000	1.58		1.011	S8026	6	99.893	0.253	0.000	0.69	
PN	US/MH Name	Storm Rank	Water	Surcharged				Flooded	Flow / Overflow Cap.	(l/s)																																																																																																																																																																													
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1.009	S8023	6	100.576	0.751	0.000	2.49																																																																																																																																																																																	
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<u>Summary Wizard of 60 minute 100 year Winter I+40% for Surface Network 8</u>				
PN	US/MH Name	Half Drain Time (mins)	Pipe Flow (l/s)	Status
1.000	S8104 Jelson		53.1	OK
1.001	S8172 Jelson		78.9	OK
1.002	S8105 Jelson		88.9	OK
1.003	S8107 Jelson		92.6	OK
1.004	S8171 Jelson		174.8	OK
1.005	S8170 Jelson		166.6	SURCHARGED
1.006	S8009 - Jelson Connection		161.1	SURCHARGED
1.007	S8010		180.6	SURCHARGED
1.008	S8011		185.8	SURCHARGED
2.000	S8108 Jelson		56.6	SURCHARGED
2.001	S8109 Jelson		92.9	SURCHARGED
2.002	S8110 Jelson		118.6	SURCHARGED
3.000	S8115 Jelson	6	90.4	SURCHARGED
3.001	S8116 Jelson		114.8	SURCHARGED
2.003	S8111 Jelson		191.2	SURCHARGED
2.004	S8112 Jelson		212.6	SURCHARGED
2.005	S8113 Jelson		233.4	SURCHARGED
2.006	S8022 Jelson Connection		256.1	SURCHARGED
1.009	S8023		444.5	SURCHARGED
1.010	S8025		505.7	SURCHARGED
1.011	S8026		506.8	SURCHARGED
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Summary Wizard of 60 minute 100 year Winter I+40% for Surface Network 8

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Overflow Cap. (l/s)	Half Drain Time (mins)
4.000		S8068	6 99.706	0.366	0.000	0.51	
1.012		S8028	6 99.645	0.551	0.000	1.64	
1.013		S8029	6 99.321	0.351	0.000	1.00	
1.014		S8030	6 98.981	0.361	0.000	1.51	
1.015		S8031	6 98.623	0.163	0.000	1.05	
1.016		S8034	6 98.226	0.146	0.000	0.68	
1.017		S8037	9 97.747	0.767	0.000	2.67	
1.018	S8039 - Headwall	18	97.454	0.596	0.000	1.35	
1.019	S8051 - Headwall	18	97.420	0.520	0.000	1.91	
1.020	S8052 Control Chamber	19	97.365	0.565	0.000	0.02	

PN	US/MH Name	Pipe Flow (l/s)	Status
4.000		S8068 34.9	SURCHARGED
1.012		S8028 578.5	SURCHARGED
1.013		S8029 592.4	SURCHARGED
1.014		S8030 605.9	SURCHARGED
1.015		S8031 611.8	SURCHARGED
1.016		S8034 625.8	SURCHARGED
1.017		S8037 646.2	SURCHARGED
1.018	S8039 - Headwall	645.8	SURCHARGED*
1.019	S8051 - Headwall	662.9	SURCHARGED*
1.020	S8052 Control Chamber	11.3	SURCHARGED

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<u>Simulation Criteria</u>																																																																																																																																																																					
Areal Reduction Factor 1.000		Additional Flow - % of Total Flow 0.000																																																																																																																																																																			
Hot Start (mins) 0		MADD Factor * 10m³/ha Storage 0.000																																																																																																																																																																			
Hot Start Level (mm) 0		Inlet Coefficient 0.800																																																																																																																																																																			
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Dean Court 85 Adlington Road Wilmslow SK9 1BT		
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Elstree Computing Ltd	Network 2020.1.3	

Summary Wizard of 120 minute 100 year Winter I+40% for Surface Network 8

PN	US/MH Name	Half Drain Pipe		Status
		Time (mins)	Flow (l/s)	
1.000	S8104 Jelson		32.8	OK
1.001	S8172 Jelson		48.8	OK
1.002	S8105 Jelson		55.0	OK
1.003	S8107 Jelson		57.1	OK
1.004	S8171 Jelson		107.7	OK
1.005	S8170 Jelson		107.7	OK
1.006	S8009 - Jelson Connection		107.4	OK
1.007	S8010		119.1	OK
1.008	S8011		122.7	SURCHARGED
2.000	S8108 Jelson		36.2	OK
2.001	S8109 Jelson		59.7	OK
2.002	S8110 Jelson		76.9	SURCHARGED
3.000	S8115 Jelson	20	22.3	OK
3.001	S8116 Jelson		38.4	OK
2.003	S8111 Jelson		114.9	OK
2.004	S8112 Jelson		141.2	SURCHARGED
2.005	S8113 Jelson		166.4	SURCHARGED
2.006	S8022 Jelson Connection		193.5	SURCHARGED
1.009	S8023		325.1	SURCHARGED
1.010	S8025		363.6	SURCHARGED
1.011	S8026		372.4	OK

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Summary Wizard of 180 minute 100 year Winter I+40% for Surface Network 8

PN	US/MH Name	Half Drain Pipe		Status
		Time (mins)	Flow (l/s)	
1.000	S8104 Jelson		24.4	OK
1.001	S8172 Jelson		36.3	OK
1.002	S8105 Jelson		40.9	OK
1.003	S8107 Jelson		42.5	OK
1.004	S8171 Jelson		80.1	OK
1.005	S8170 Jelson		80.0	OK
1.006	S8009 - Jelson Connection		79.9	OK
1.007	S8010		89.2	OK
1.008	S8011		92.1	OK
2.000	S8108 Jelson		26.9	OK
2.001	S8109 Jelson		44.4	OK
2.002	S8110 Jelson		57.2	OK
3.000	S8115 Jelson	42	16.7	OK
3.001	S8116 Jelson		28.6	OK
2.003	S8111 Jelson		86.4	OK
2.004	S8112 Jelson		106.8	OK
2.005	S8113 Jelson		126.4	OK
2.006	S8022 Jelson Connection		147.0	OK
1.009	S8023		244.9	SURCHARGED
1.010	S8025		274.7	OK
1.011	S8026		281.5	OK

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Summary Wizard of 180 minute 100 year Winter I+40% for Surface Network 8

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Overflow Cap. (l/s)	Half Drain Time (mins)
4.000		S8068 17	99.143	-0.197	0.000	0.26	
1.012		S8028 17	98.938	-0.156	0.000	0.90	
1.013		S8029 17	98.686	-0.284	0.000	0.55	
1.014		S8030 17	98.438	-0.182	0.000	0.83	
1.015		S8031 17	98.187	-0.273	0.000	0.58	
1.016		S8034 21	97.737	-0.343	0.000	0.38	
1.017		S8037 15	97.618	0.638	0.000	1.48	
1.018	S8039 - Headwall	10	97.612	0.754	0.000	0.75	
1.019	S8051 - Headwall	10	97.611	0.711	0.000	1.06	
1.020	S8052 Control Chamber	10	97.609	0.809	0.000	0.02	

PN	US/MH Name	Pipe Flow (l/s)	Status
4.000		S8068 17.6	OK
1.012		S8028 317.8	OK
1.013		S8029 324.6	OK
1.014		S8030 331.7	OK
1.015		S8031 335.9	OK
1.016		S8034 350.0	OK
1.017		S8037 357.9	SURCHARGED
1.018	S8039 - Headwall	357.8	SURCHARGED*
1.019	S8051 - Headwall	367.4	SURCHARGED*
1.020	S8052 Control Chamber	11.3	SURCHARGED

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Areal Reduction Factor 1.000		Additional Flow - % of Total Flow 0.000																																																																																																																																																												
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<table><tr><th>PN</th><th>US/MH Name</th><th>Storm Rank</th><th>Water Level (m)</th><th>Surcharged Depth (m)</th><th>Flooded Volume (m³)</th><th>Flow / Overflow Cap. (l/s)</th></tr><tr><td>1.000</td><td>S8104 Jelson</td><td>22</td><td>102.203</td><td>-0.213</td><td>0.000</td><td>0.19</td></tr><tr><td>1.001</td><td>S8172 Jelson</td><td>21</td><td>101.890</td><td>-0.199</td><td>0.000</td><td>0.25</td></tr><tr><td>1.002</td><td>S8105 Jelson</td><td>21</td><td>101.646</td><td>-0.190</td><td>0.000</td><td>0.29</td></tr><tr><td>1.003</td><td>S8107 Jelson</td><td>21</td><td>101.173</td><td>-0.348</td><td>0.000</td><td>0.12</td></tr><tr><td>1.004</td><td>S8171 Jelson</td><td>21</td><td>100.928</td><td>-0.328</td><td>0.000</td><td>0.16</td></tr><tr><td>1.005</td><td>S8170 Jelson</td><td>21</td><td>100.360</td><td>-0.306</td><td>0.000</td><td>0.22</td></tr><tr><td>1.006</td><td>S8009 - Jelson Connection</td><td>21</td><td>100.021</td><td>-0.387</td><td>0.000</td><td>0.16</td></tr><tr><td>1.007</td><td>S8010</td><td>19</td><td>99.868</td><td>-0.227</td><td>0.000</td><td>0.29</td></tr><tr><td>1.008</td><td>S8011</td><td>19</td><td>99.845</td><td>-0.140</td><td>0.000</td><td>0.24</td></tr><tr><td>2.000</td><td>S8108 Jelson</td><td>22</td><td>100.648</td><td>-0.207</td><td>0.000</td><td>0.21</td></tr><tr><td>2.001</td><td>S8109 Jelson</td><td>20</td><td>100.327</td><td>-0.112</td><td>0.000</td><td>0.47</td></tr><tr><td>2.002</td><td>S8110 Jelson</td><td>20</td><td>100.286</td><td>0.000</td><td>0.000</td><td>1.14</td></tr><tr><td>3.000</td><td>S8115 Jelson</td><td>22</td><td>100.098</td><td>-0.452</td><td>0.000</td><td>0.05</td></tr><tr><td>3.001</td><td>S8116 Jelson</td><td>19</td><td>99.963</td><td>-0.380</td><td>0.000</td><td>0.10</td></tr><tr><td>2.003</td><td>S8111 Jelson</td><td>19</td><td>99.932</td><td>-0.327</td><td>0.000</td><td>0.20</td></tr><tr><td>2.004</td><td>S8112 Jelson</td><td>19</td><td>99.911</td><td>-0.139</td><td>0.000</td><td>0.36</td></tr><tr><td>2.005</td><td>S8113 Jelson</td><td>19</td><td>99.889</td><td>-0.089</td><td>0.000</td><td>0.85</td></tr><tr><td>2.006</td><td>S8022 Jelson Connection</td><td>19</td><td>99.855</td><td>-0.096</td><td>0.000</td><td>0.43</td></tr><tr><td>1.009</td><td>S8023</td><td>19</td><td>99.825</td><td>0.000</td><td>0.000</td><td>1.11</td></tr><tr><td>1.010</td><td>S8025</td><td>19</td><td>99.519</td><td>-0.230</td><td>0.000</td><td>0.69</td></tr><tr><td>1.011</td><td>S8026</td><td>19</td><td>99.268</td><td>-0.372</td><td>0.000</td><td>0.31</td></tr></table>					PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Overflow Cap. (l/s)	1.000	S8104 Jelson	22	102.203	-0.213	0.000	0.19	1.001	S8172 Jelson	21	101.890	-0.199	0.000	0.25	1.002	S8105 Jelson	21	101.646	-0.190	0.000	0.29	1.003	S8107 Jelson	21	101.173	-0.348	0.000	0.12	1.004	S8171 Jelson	21	100.928	-0.328	0.000	0.16	1.005	S8170 Jelson	21	100.360	-0.306	0.000	0.22	1.006	S8009 - Jelson Connection	21	100.021	-0.387	0.000	0.16	1.007	S8010	19	99.868	-0.227	0.000	0.29	1.008	S8011	19	99.845	-0.140	0.000	0.24	2.000	S8108 Jelson	22	100.648	-0.207	0.000	0.21	2.001	S8109 Jelson	20	100.327	-0.112	0.000	0.47	2.002	S8110 Jelson	20	100.286	0.000	0.000	1.14	3.000	S8115 Jelson	22	100.098	-0.452	0.000	0.05	3.001	S8116 Jelson	19	99.963	-0.380	0.000	0.10	2.003	S8111 Jelson	19	99.932	-0.327	0.000	0.20	2.004	S8112 Jelson	19	99.911	-0.139	0.000	0.36	2.005	S8113 Jelson	19	99.889	-0.089	0.000	0.85	2.006	S8022 Jelson Connection	19	99.855	-0.096	0.000	0.43	1.009	S8023	19	99.825	0.000	0.000	1.11	1.010	S8025	19	99.519	-0.230	0.000	0.69	1.011	S8026	19	99.268	-0.372	0.000	0.31
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JS Bloor (Wilmslow) Ltd		Page 201
Dean Court 85 Adlington Road Wilmslow SK9 1BT		
Date 11/08/2025 14:06 File PH7A - STORM. 11.08.25.MDX	Designed by d_southa Checked by	
Elstree Computing Ltd	Network 2020.1.3	

Summary Wizard of 240 minute 100 year Winter I+40% for Surface Network 8

PN	US/MH Name	Half Drain Time (mins)	Pipe Flow (l/s)	Status
1.000	S8104 Jelson		19.5	OK
1.001	S8172 Jelson		29.0	OK
1.002	S8105 Jelson		32.7	OK
1.003	S8107 Jelson		34.0	OK
1.004	S8171 Jelson		64.1	OK
1.005	S8170 Jelson		64.1	OK
1.006	S8009 - Jelson Connection		64.1	OK
1.007	S8010		71.7	OK
1.008	S8011		74.3	OK
2.000	S8108 Jelson		21.5	OK
2.001	S8109 Jelson		35.5	OK
2.002	S8110 Jelson		45.8	OK
3.000	S8115 Jelson	56	13.4	OK
3.001	S8116 Jelson		22.9	OK
2.003	S8111 Jelson		69.1	OK
2.004	S8112 Jelson		85.4	OK
2.005	S8113 Jelson		101.2	OK
2.006	S8022 Jelson Connection		118.3	OK
1.009	S8023		198.0	OK
1.010	S8025		222.3	OK
1.011	S8026		227.8	OK

JS Bloor (Wilmslow) Ltd							Page 202	
Dean Court 85 Adllington Road Wilmslow SK9 1BT								
Date 11/08/2025 14:06				Designed by d_southa				
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Elstree Computing Ltd				Network 2020.1.3				
Summary Wizard of 240 minute 100 year Winter I+40% for Surface Network 8								
PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Overflow Cap. (l/s)	Half Drain Time (mins)	
4.000	S8068	22	99.132	-0.208	0.000	0.21		
1.012	S8028	19	98.876	-0.218	0.000	0.73		
1.013	S8029	19	98.649	-0.321	0.000	0.44		
1.014	S8030	19	98.380	-0.240	0.000	0.67		
1.015	S8031	19	98.148	-0.312	0.000	0.47		
1.016	S8034	25	97.708	-0.372	0.000	0.31		
1.017	S8037	13	97.665	0.685	0.000	1.20		
1.018	S8039 - Headwall	7	97.660	0.802	0.000	0.61		
1.019	S8051 - Headwall	7	97.659	0.759	0.000	0.86		
1.020	S8052 Control Chamber	7	97.658	0.858	0.000	0.02		
	PN	US/MH Name		Pipe Flow (l/s)		Status		
	4.000			S8068 14.1		OK		
	1.012			S8028 257.6		OK		
	1.013			S8029 263.3		OK		
	1.014			S8030 269.4		OK		
	1.015			S8031 272.6		OK		
	1.016			S8034 284.0		OK		
	1.017			S8037 290.1		SURCHARGED		
	1.018	S8039 - Headwall		289.6		SURCHARGED*		
	1.019	S8051 - Headwall		297.1		SURCHARGED*		
	1.020	S8052 Control Chamber		11.5		SURCHARGED		

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<u>Summary Wizard of 360 minute 100 year Winter I+40% for Surface Network 8</u>																																																																																																																																																																																							
<u>Simulation Criteria</u>																																																																																																																																																																																							
Areal Reduction Factor 1.000		Additional Flow - % of Total Flow 0.000																																																																																																																																																																																					
Hot Start (mins) 0		MADD Factor * 10m³/ha Storage 0.000																																																																																																																																																																																					
Hot Start Level (mm) 0		Inlet 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 2																																																																																																																																																																																							
Number of Online Controls 1 Number of Time/Area Diagrams 0																																																																																																																																																																																							
Number of Offline Controls 0 Number of Real Time Controls 0																																																																																																																																																																																							
<u>Synthetic Rainfall Details</u>																																																																																																																																																																																							
Rainfall Model		FSR	Ratio R	0.404																																																																																																																																																																																			
Region England and Wales Cv (Summer)		0.750																																																																																																																																																																																					
M5-60 (mm)		19.900	Cv (Winter)	0.840																																																																																																																																																																																			
Margin for Flood Risk Warning (mm) 300.0		DVD Status OFF																																																																																																																																																																																					
Analysis Timestep		Fine	Inertia Status	OFF																																																																																																																																																																																			
DTS Status		ON																																																																																																																																																																																					
Profile(s) Summer and Winter																																																																																																																																																																																							
Duration(s) (mins)		15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440																																																																																																																																																																																					
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1.007	S8010	29	99.749	-0.346	0.000	0.21																																																																																																																																																																																	
1.008	S8011	29	99.676	-0.309	0.000	0.18																																																																																																																																																																																	
2.000	S8108 Jelson	30	100.633	-0.222	0.000	0.15																																																																																																																																																																																	
2.001	S8109 Jelson	30	100.259	-0.180	0.000	0.34																																																																																																																																																																																	
2.002	S8110 Jelson	29	100.171	-0.115	0.000	0.82																																																																																																																																																																																	
3.000	S8115 Jelson	30	100.088	-0.462	0.000	0.03																																																																																																																																																																																	
3.001	S8116 Jelson	29	99.924	-0.419	0.000	0.07																																																																																																																																																																																	
2.003	S8111 Jelson	29	99.866	-0.393	0.000	0.14																																																																																																																																																																																	
2.004	S8112 Jelson	29	99.774	-0.276	0.000	0.27																																																																																																																																																																																	
2.005	S8113 Jelson	29	99.754	-0.224	0.000	0.63																																																																																																																																																																																	
2.006	S8022 Jelson Connection	29	99.685	-0.266	0.000	0.32																																																																																																																																																																																	
1.009	S8023	29	99.661	-0.164	0.000	0.81																																																																																																																																																																																	
1.010	S8025	28	99.452	-0.297	0.000	0.51																																																																																																																																																																																	
1.011	S8026	28	99.232	-0.408	0.000	0.22																																																																																																																																																																																	
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Network 2020.1.3		

Summary Wizard of 360 minute 100 year Winter I+40% for Surface Network 8

PN	US/MH Name	Half Drain Time (mins)	Pipe Flow (l/s)	Status
1.000	S8104 Jelson		14.2	OK
1.001	S8172 Jelson		21.1	OK
1.002	S8105 Jelson		23.8	OK
1.003	S8107 Jelson		24.7	OK
1.004	S8171 Jelson		46.5	OK
1.005	S8170 Jelson		46.5	OK
1.006	S8009 - Jelson Connection		46.5	OK
1.007	S8010		52.1	OK
1.008	S8011		54.0	OK
2.000	S8108 Jelson		15.6	OK
2.001	S8109 Jelson		25.8	OK
2.002	S8110 Jelson		33.3	OK
3.000	S8115 Jelson	72	9.8	OK
3.001	S8116 Jelson		16.8	OK
2.003	S8111 Jelson		50.7	OK
2.004	S8112 Jelson		62.7	OK
2.005	S8113 Jelson		74.5	OK
2.006	S8022 Jelson Connection		87.0	OK
1.009	S8023		144.8	OK
1.010	S8025		162.3	OK
1.011	S8026		166.2	OK

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Summary Wizard of 360 minute 100 year Winter I+40% for Surface Network 8

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Overflow Cap. (l/s)	Half Drain Time (mins)
4.000		S8068 30	99.117	-0.223	0.000	0.15	
1.012		S8028 28	98.806	-0.288	0.000	0.53	
1.013		S8029 28	98.605	-0.365	0.000	0.32	
1.014		S8030 28	98.317	-0.303	0.000	0.49	
1.015		S8031 28	98.102	-0.358	0.000	0.34	
1.016		S8034 23	97.726	-0.354	0.000	0.23	
1.017		S8037 12	97.721	0.741	0.000	0.88	
1.018	S8039 - Headwall	6	97.717	0.859	0.000	0.45	
1.019	S8051 - Headwall	6	97.716	0.816	0.000	0.63	
1.020	S8052 Control Chamber	6	97.715	0.915	0.000	0.02	

PN	US/MH Name	Pipe Flow (l/s)	Status
4.000		S8068 10.3	OK
1.012		S8028 188.0	OK
1.013		S8029 192.0	OK
1.014		S8030 196.5	OK
1.015		S8031 199.2	OK
1.016		S8034 207.8	OK
1.017		S8037 213.3	SURCHARGED
1.018	S8039 - Headwall	213.2	FLOOD RISK*
1.019	S8051 - Headwall	219.1	FLOOD RISK*
1.020	S8052 Control Chamber	11.7	SURCHARGED

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Areal Reduction Factor 1.000		Additional Flow - % of Total Flow 0.000																																																																																																																																																																			
Hot Start (mins) 0		MADD Factor * 10m³/ha Storage 0.000																																																																																																																																																																			
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Manhole Headloss Coeff (Global) 0.500		Flow per Person per Day (l/per/day) 0.000																																																																																																																																																																			
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Number of Input Hydrographs 0		Number of Storage Structures 2																																																																																																																																																																			
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Region England and Wales Cv (Summer)		0.750																																																																																																																																																																			
M5-60 (mm)		19.900	Cv (Winter) 0.840																																																																																																																																																																		
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Profile(s)		Summer and Winter																																																																																																																																																																			
Duration(s) (mins)		15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440																																																																																																																																																																			
Return Period(s) (years)		1, 30, 100																																																																																																																																																																			
Climate Change (%)		0, 0, 40																																																																																																																																																																			
<table><thead><tr><th></th><th></th><th></th><th>Water Level</th><th>Surcharged Depth</th><th>Flooded Volume</th><th>Flow / Overflow</th></tr><tr><th>PN</th><th>US/MH Name</th><th>Storm Rank</th><th>(m)</th><th>(m)</th><th>(m³)</th><th>Cap. (l/s)</th></tr></thead><tbody><tr><td>1.000</td><td>S8104 Jelson</td><td>34</td><td>102.182</td><td>-0.234</td><td>0.000</td><td>0.11</td></tr><tr><td>1.001</td><td>S8172 Jelson</td><td>34</td><td>101.865</td><td>-0.224</td><td>0.000</td><td>0.14</td></tr><tr><td>1.002</td><td>S8105 Jelson</td><td>34</td><td>101.618</td><td>-0.218</td><td>0.000</td><td>0.17</td></tr><tr><td>1.003</td><td>S8107 Jelson</td><td>34</td><td>101.147</td><td>-0.374</td><td>0.000</td><td>0.07</td></tr><tr><td>1.004</td><td>S8171 Jelson</td><td>34</td><td>100.899</td><td>-0.357</td><td>0.000</td><td>0.10</td></tr><tr><td>1.005</td><td>S8170 Jelson</td><td>34</td><td>100.323</td><td>-0.343</td><td>0.000</td><td>0.13</td></tr><tr><td>1.006</td><td>S8009 - Jelson Connection</td><td>34</td><td>99.989</td><td>-0.419</td><td>0.000</td><td>0.09</td></tr><tr><td>1.007</td><td>S8010</td><td>34</td><td>99.720</td><td>-0.375</td><td>0.000</td><td>0.17</td></tr><tr><td>1.008</td><td>S8011</td><td>34</td><td>99.631</td><td>-0.354</td><td>0.000</td><td>0.14</td></tr><tr><td>2.000</td><td>S8108 Jelson</td><td>34</td><td>100.624</td><td>-0.231</td><td>0.000</td><td>0.12</td></tr><tr><td>2.001</td><td>S8109 Jelson</td><td>34</td><td>100.245</td><td>-0.194</td><td>0.000</td><td>0.27</td></tr><tr><td>2.002</td><td>S8110 Jelson</td><td>34</td><td>100.133</td><td>-0.153</td><td>0.000</td><td>0.66</td></tr><tr><td>3.000</td><td>S8115 Jelson</td><td>34</td><td>100.083</td><td>-0.467</td><td>0.000</td><td>0.03</td></tr><tr><td>3.001</td><td>S8116 Jelson</td><td>34</td><td>99.910</td><td>-0.433</td><td>0.000</td><td>0.06</td></tr><tr><td>2.003</td><td>S8111 Jelson</td><td>34</td><td>99.852</td><td>-0.407</td><td>0.000</td><td>0.12</td></tr><tr><td>2.004</td><td>S8112 Jelson</td><td>34</td><td>99.737</td><td>-0.313</td><td>0.000</td><td>0.21</td></tr><tr><td>2.005</td><td>S8113 Jelson</td><td>34</td><td>99.715</td><td>-0.263</td><td>0.000</td><td>0.50</td></tr><tr><td>2.006</td><td>S8022 Jelson Connection</td><td>34</td><td>99.639</td><td>-0.312</td><td>0.000</td><td>0.25</td></tr><tr><td>1.009</td><td>S8023</td><td>34</td><td>99.608</td><td>-0.217</td><td>0.000</td><td>0.65</td></tr><tr><td>1.010</td><td>S8025</td><td>34</td><td>99.414</td><td>-0.335</td><td>0.000</td><td>0.40</td></tr><tr><td>1.011</td><td>S8026</td><td>34</td><td>99.210</td><td>-0.430</td><td>0.000</td><td>0.18</td></tr></tbody></table>								Water Level	Surcharged Depth	Flooded Volume	Flow / Overflow	PN	US/MH Name	Storm Rank	(m)	(m)	(m³)	Cap. (l/s)	1.000	S8104 Jelson	34	102.182	-0.234	0.000	0.11	1.001	S8172 Jelson	34	101.865	-0.224	0.000	0.14	1.002	S8105 Jelson	34	101.618	-0.218	0.000	0.17	1.003	S8107 Jelson	34	101.147	-0.374	0.000	0.07	1.004	S8171 Jelson	34	100.899	-0.357	0.000	0.10	1.005	S8170 Jelson	34	100.323	-0.343	0.000	0.13	1.006	S8009 - Jelson Connection	34	99.989	-0.419	0.000	0.09	1.007	S8010	34	99.720	-0.375	0.000	0.17	1.008	S8011	34	99.631	-0.354	0.000	0.14	2.000	S8108 Jelson	34	100.624	-0.231	0.000	0.12	2.001	S8109 Jelson	34	100.245	-0.194	0.000	0.27	2.002	S8110 Jelson	34	100.133	-0.153	0.000	0.66	3.000	S8115 Jelson	34	100.083	-0.467	0.000	0.03	3.001	S8116 Jelson	34	99.910	-0.433	0.000	0.06	2.003	S8111 Jelson	34	99.852	-0.407	0.000	0.12	2.004	S8112 Jelson	34	99.737	-0.313	0.000	0.21	2.005	S8113 Jelson	34	99.715	-0.263	0.000	0.50	2.006	S8022 Jelson Connection	34	99.639	-0.312	0.000	0.25	1.009	S8023	34	99.608	-0.217	0.000	0.65	1.010	S8025	34	99.414	-0.335	0.000	0.40	1.011	S8026	34	99.210	-0.430	0.000	0.18
			Water Level	Surcharged Depth	Flooded Volume	Flow / Overflow																																																																																																																																																															
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Summary Wizard of 480 minute 100 year Winter I+40% for Surface Network 8

PN	US/MH Name	Half Drain Time (mins)	Pipe Flow (l/s)	Status
1.000	S8104 Jelson		11.3	OK
1.001	S8172 Jelson		16.8	OK
1.002	S8105 Jelson		18.9	OK
1.003	S8107 Jelson		19.7	OK
1.004	S8171 Jelson		37.1	OK
1.005	S8170 Jelson		37.1	OK
1.006	S8009 - Jelson Connection		37.1	OK
1.007	S8010		41.5	OK
1.008	S8011		43.1	OK
2.000	S8108 Jelson		12.4	OK
2.001	S8109 Jelson		20.6	OK
2.002	S8110 Jelson		26.5	OK
3.000	S8115 Jelson	96	7.8	OK
3.001	S8116 Jelson		13.4	OK
2.003	S8111 Jelson		40.4	OK
2.004	S8112 Jelson		50.0	OK
2.005	S8113 Jelson		59.3	OK
2.006	S8022 Jelson Connection		69.3	OK
1.009	S8023		115.5	OK
1.010	S8025		129.6	OK
1.011	S8026		132.7	OK



Micro
Drainage

Designed by d southa

Checked by

Network 2020.1.3

Summary Wizard of 480 minute 100 year Winter I+40% for Surface Network 8

PN	US/MH Name	Storm Rank	Water		Surcharged	Flooded	Flow / Cap.	Overflow (l/s)	Half Drain
			Level (m)	Depth (m)	Volume (m³)	Time (mins)			
4.000		S8068	34	99.109	-0.231	0.000	0.12		
1.012		S8028	34	98.767	-0.327	0.000	0.43		
1.013		S8029	34	98.576	-0.394	0.000	0.26		
1.014		S8030	34	98.280	-0.340	0.000	0.39		
1.015		S8031	34	98.073	-0.387	0.000	0.27		
1.016		S8034	18	97.756	-0.324	0.000	0.18		
1.017		S8037	8	97.751	0.771	0.000	0.70		
1.018	S8039 -	Headwall	4	97.748	0.890	0.000	0.36		
1.019	S8051 -	Headwall	4	97.747	0.847	0.000	0.50		
1.020	S8052	Control Chamber	4	97.747	0.947	0.000	0.02		

PN	US/MH Name	Pipe		Status
		Flow (1/s)		
4.000		S8068	8.2	OK
1.012		S8028	150.2	OK
1.013		S8029	153.4	OK
1.014		S8030	157.0	OK
1.015		S8031	159.0	OK
1.016		S8034	165.9	OK
1.017		S8037	170.0	SURCHARGED
1.018	S8039 - Headwall		169.9	FLOOD RISK*
1.019	S8051 - Headwall		174.5	FLOOD RISK*
1.020	S8052 Control Chamber		11.8	SURCHARGED

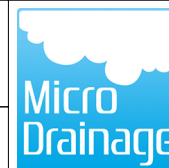
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Profile(s) Summer and Winter																																																																																																																																																																					
Duration(s) (mins)		15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440																																																																																																																																																																			
Return Period(s) (years)		1, 30, 100																																																																																																																																																																			
Climate Change (%)		0, 0, 40																																																																																																																																																																			
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1.005	S8170 Jelson	39	100.314	-0.352	0.000	0.11																																																																																																																																																															
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©1982-2020 Innovyze																																																																																																																																																																					

JS Bloor (Wilmslow) Ltd		Page 210
Dean Court 85 Adlington Road Wilmslow SK9 1BT		
Date 11/08/2025 14:06 File PH7A - STORM. 11.08.25.MDX	Designed by d_southa Checked by	
Elstree Computing Ltd		Network 2020.1.3

Summary Wizard of 600 minute 100 year Winter I+40% for Surface Network 8

PN	US/MH Name	Half Drain Time (mins)	Pipe Flow (l/s)	Status
1.000	S8104 Jelson		9.5	OK
1.001	S8172 Jelson		14.0	OK
1.002	S8105 Jelson		15.9	OK
1.003	S8107 Jelson		16.5	OK
1.004	S8171 Jelson		31.0	OK
1.005	S8170 Jelson		31.0	OK
1.006	S8009 - Jelson Connection		31.0	OK
1.007	S8010		34.8	OK
1.008	S8011		36.1	OK
2.000	S8108 Jelson		10.4	OK
2.001	S8109 Jelson		17.2	OK
2.002	S8110 Jelson		22.2	OK
3.000	S8115 Jelson	100	6.5	OK
3.001	S8116 Jelson		11.2	OK
2.003	S8111 Jelson		33.8	OK
2.004	S8112 Jelson		41.9	OK
2.005	S8113 Jelson		49.7	OK
2.006	S8022 Jelson Connection		58.0	OK
1.009	S8023		96.8	OK
1.010	S8025		108.6	OK
1.011	S8026		111.2	OK

Dean Court
85 Adllington Road
Wilmslow SK9 1BT



Date 11/08/2025 14:06

Designed by d southa

File PH7A - STORM. 11.08.25.MDX

Checked by

Elstree Computing Ltd

Network 2020.1.3

Summary Wizard of 600 minute 100 year Winter I+40% for Surface Network 8

PN	US/MH Name	Storm Rank	Water		Surcharged	Flooded	Flow / Cap.	Overflow (l/s)	Half Drain
			Level (m)	Depth (m)	Volume (m³)	Time (mins)			
4.000		S8068	39	99.103	-0.237	0.000	0.10		
1.012		S8028	38	98.741	-0.353	0.000	0.36		
1.013		S8029	38	98.559	-0.411	0.000	0.22		
1.014		S8030	38	98.256	-0.364	0.000	0.33		
1.015		S8031	38	98.054	-0.406	0.000	0.23		
1.016		S8034	14	97.772	-0.308	0.000	0.15		
1.017		S8037	7	97.769	0.789	0.000	0.59		
1.018	S8039 -	Headwall	3	97.766	0.908	0.000	0.30		
1.019	S8051 -	Headwall	3	97.765	0.865	0.000	0.42		
1.020	S8052	Control Chamber	3	97.764	0.964	0.000	0.02		

PN	US/MH Name	Pipe Flow (1/s)	Status
4.000		S8068 6.8	OK
1.012		S8028 125.9	OK
1.013		S8029 128.7	OK
1.014		S8030 131.7	OK
1.015		S8031 133.6	OK
1.016		S8034 139.5	OK
1.017		S8037 143.1	SURCHARGED
1.018	S8039 - Headwall	143.0	FLOOD RISK*
1.019	S8051 - Headwall	147.0	FLOOD RISK*
1.020	S8052 Control Chamber	11.9	SURCHARGED

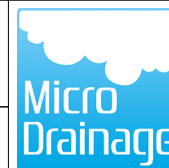
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<u>Simulation Criteria</u>																																																																																																																																																																					
Areal Reduction Factor 1.000		Additional Flow - % of Total Flow 0.000																																																																																																																																																																			
Hot Start (mins) 0		MADD Factor * 10m³/ha Storage 0.000																																																																																																																																																																			
Hot Start Level (mm) 0		Inlet 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 2																																																																																																																																																																			
Number of Online Controls 1		Number of Time/Area Diagrams 0																																																																																																																																																																			
Number of Offline Controls 0		Number of Real Time Controls 0																																																																																																																																																																			
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Rainfall Model		FSR	Ratio R 0.404																																																																																																																																																																		
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1.003	S8107 Jelson	42	101.135	-0.386	0.000	0.05																																																																																																																																																															
1.004	S8171 Jelson	42	100.883	-0.373	0.000	0.07																																																																																																																																																															
1.005	S8170 Jelson	42	100.308	-0.358	0.000	0.09																																																																																																																																																															
1.006	S8009 - Jelson Connection	42	99.970	-0.438	0.000	0.07																																																																																																																																																															
1.007	S8010	42	99.692	-0.403	0.000	0.12																																																																																																																																																															
1.008	S8011	42	99.588	-0.397	0.000	0.10																																																																																																																																																															
2.000	S8108 Jelson	42	100.615	-0.240	0.000	0.09																																																																																																																																																															
2.001	S8109 Jelson	42	100.229	-0.210	0.000	0.20																																																																																																																																																															
2.002	S8110 Jelson	42	100.093	-0.193	0.000	0.48																																																																																																																																																															
3.000	S8115 Jelson	42	100.075	-0.475	0.000	0.02																																																																																																																																																															
3.001	S8116 Jelson	42	99.894	-0.449	0.000	0.04																																																																																																																																																															
2.003	S8111 Jelson	42	99.835	-0.424	0.000	0.08																																																																																																																																																															
2.004	S8112 Jelson	42	99.695	-0.355	0.000	0.15																																																																																																																																																															
2.005	S8113 Jelson	42	99.670	-0.308	0.000	0.36																																																																																																																																																															
2.006	S8022 Jelson Connection	42	99.592	-0.359	0.000	0.18																																																																																																																																																															
1.009	S8023	42	99.552	-0.273	0.000	0.47																																																																																																																																																															
1.010	S8025	42	99.370	-0.379	0.000	0.29																																																																																																																																																															
1.011	S8026	42	99.183	-0.457	0.000	0.13																																																																																																																																																															
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Elstree Computing Ltd	Network 2020.1.3	

Summary Wizard of 720 minute 100 year Winter I+40% for Surface Network 8

PN	US/MH Name	Half Drain Time (mins)	Pipe Flow (l/s)	Status
1.000	S8104 Jelson		8.2	OK
1.001	S8172 Jelson		12.1	OK
1.002	S8105 Jelson		13.7	OK
1.003	S8107 Jelson		14.3	OK
1.004	S8171 Jelson		26.8	OK
1.005	S8170 Jelson		26.8	OK
1.006	S8009 - Jelson Connection		26.8	OK
1.007	S8010		30.1	OK
1.008	S8011		31.2	OK
2.000	S8108 Jelson		9.0	OK
2.001	S8109 Jelson		14.9	OK
2.002	S8110 Jelson		19.2	OK
3.000	S8115 Jelson	132	5.6	OK
3.001	S8116 Jelson		9.7	OK
2.003	S8111 Jelson		29.2	OK
2.004	S8112 Jelson		36.2	OK
2.005	S8113 Jelson		43.0	OK
2.006	S8022 Jelson Connection		50.2	OK
1.009	S8023		83.7	OK
1.010	S8025		93.9	OK
1.011	S8026		96.2	OK

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Network 2020.1.3

Summary Wizard of 720 minute 100 year Winter I+40% for Surface Network 8

PN	US/MH Name	Storm Rank	Water		Surcharged	Flooded	Flow / Cap.	Overflow (l/s)	Half Drain
			Level (m)	Depth (m)	Volume (m³)	Time (mins)			
4.000		S8068	42	99.099	-0.241	0.000	0.09		
1.012		S8028	42	98.721	-0.373	0.000	0.31		
1.013		S8029	42	98.545	-0.425	0.000	0.19		
1.014		S8030	42	98.237	-0.383	0.000	0.28		
1.015		S8031	42	98.040	-0.420	0.000	0.20		
1.016		S8034	13	97.780	-0.300	0.000	0.13		
1.017		S8037	5	97.777	0.797	0.000	0.51		
1.018	S8039 -	Headwall	1	97.775	0.917	0.000	0.26		
1.019	S8051 -	Headwall	1	97.774	0.874	0.000	0.37		
1.020	S8052	Control Chamber	1	97.773	0.973	0.000	0.02		

PN	US/MH Name	Pipe Flow (1/s)	Status
4.000		S8068 5.9	OK
1.012		S8028 108.9	OK
1.013		S8029 111.3	OK
1.014		S8030 113.9	OK
1.015		S8031 115.5	OK
1.016		S8034 120.7	OK
1.017		S8037 123.8	SURCHARGED
1.018	S8039 - Headwall	123.7	FLOOD RISK*
1.019	S8051 - Headwall	127.2	FLOOD RISK*
1.020	S8052 Control Chamber	11.9	SURCHARGED

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<u>Summary Wizard of 960 minute 100 year Winter I+40% for Surface Network 8</u>																																																																																																																																																																																												
<u>Simulation Criteria</u>																																																																																																																																																																																												
Areal Reduction Factor 1.000		Additional Flow - % of Total Flow 0.000																																																																																																																																																																																										
Hot Start (mins) 0		MADD Factor * 10m³/ha Storage 0.000																																																																																																																																																																																										
Hot Start Level (mm) 0		Inlet 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 2																																																																																																																																																																																										
Number of Online Controls 1		Number of Time/Area Diagrams 0																																																																																																																																																																																										
Number of Offline Controls 0		Number of Real Time Controls 0																																																																																																																																																																																										
<u>Synthetic Rainfall Details</u>																																																																																																																																																																																												
Rainfall Model		FSR	Ratio R 0.404																																																																																																																																																																																									
Region England and Wales		Cv (Summer)	0.750																																																																																																																																																																																									
M5-60 (mm)		19.900	Cv (Winter) 0.840																																																																																																																																																																																									
Margin for Flood Risk Warning (mm) 300.0		DVD Status OFF																																																																																																																																																																																										
Analysis Timestep		Fine	Inertia Status OFF																																																																																																																																																																																									
DTS Status		ON																																																																																																																																																																																										
Profile(s)		Summer and Winter																																																																																																																																																																																										
Duration(s) (mins)		15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440																																																																																																																																																																																										
Return Period(s) (years)		1, 30, 100																																																																																																																																																																																										
Climate Change (%)		0, 0, 40																																																																																																																																																																																										
<table><thead><tr><th></th><th></th><th></th><th>Water</th><th>Surcharged</th><th>Flooded</th><th></th><th></th></tr><tr><th>PN</th><th>US/MH Name</th><th>Storm Rank</th><th>Level (m)</th><th>Depth (m)</th><th>Volume (m³)</th><th>Flow / Cap.</th><th>Overflow (l/s)</th></tr></thead><tbody><tr><td>1.000</td><td>S8104 Jelson</td><td>47</td><td>102.164</td><td>-0.252</td><td>0.000</td><td>0.06</td><td></td></tr><tr><td>1.001</td><td>S8172 Jelson</td><td>47</td><td>101.847</td><td>-0.242</td><td>0.000</td><td>0.08</td><td></td></tr><tr><td>1.002</td><td>S8105 Jelson</td><td>47</td><td>101.598</td><td>-0.238</td><td>0.000</td><td>0.10</td><td></td></tr><tr><td>1.003</td><td>S8107 Jelson</td><td>47</td><td>101.128</td><td>-0.393</td><td>0.000</td><td>0.04</td><td></td></tr><tr><td>1.004</td><td>S8171 Jelson</td><td>47</td><td>100.874</td><td>-0.382</td><td>0.000</td><td>0.05</td><td></td></tr><tr><td>1.005</td><td>S8170 Jelson</td><td>47</td><td>100.297</td><td>-0.369</td><td>0.000</td><td>0.07</td><td></td></tr><tr><td>1.006</td><td>S8009 - Jelson Connection</td><td>47</td><td>99.959</td><td>-0.448</td><td>0.000</td><td>0.05</td><td></td></tr><tr><td>1.007</td><td>S8010</td><td>47</td><td>99.680</td><td>-0.415</td><td>0.000</td><td>0.10</td><td></td></tr><tr><td>1.008</td><td>S8011</td><td>47</td><td>99.568</td><td>-0.417</td><td>0.000</td><td>0.08</td><td></td></tr><tr><td>2.000</td><td>S8108 Jelson</td><td>47</td><td>100.607</td><td>-0.248</td><td>0.000</td><td>0.07</td><td></td></tr><tr><td>2.001</td><td>S8109 Jelson</td><td>47</td><td>100.218</td><td>-0.221</td><td>0.000</td><td>0.16</td><td></td></tr><tr><td>2.002</td><td>S8110 Jelson</td><td>47</td><td>100.070</td><td>-0.216</td><td>0.000</td><td>0.38</td><td></td></tr><tr><td>3.000</td><td>S8115 Jelson</td><td>47</td><td>100.064</td><td>-0.486</td><td>0.000</td><td>0.02</td><td></td></tr><tr><td>3.001</td><td>S8116 Jelson</td><td>47</td><td>99.885</td><td>-0.458</td><td>0.000</td><td>0.03</td><td></td></tr><tr><td>2.003</td><td>S8111 Jelson</td><td>47</td><td>99.822</td><td>-0.437</td><td>0.000</td><td>0.07</td><td></td></tr><tr><td>2.004</td><td>S8112 Jelson</td><td>47</td><td>99.672</td><td>-0.378</td><td>0.000</td><td>0.12</td><td></td></tr><tr><td>2.005</td><td>S8113 Jelson</td><td>47</td><td>99.644</td><td>-0.334</td><td>0.000</td><td>0.29</td><td></td></tr><tr><td>2.006</td><td>S8022 Jelson Connection</td><td>47</td><td>99.567</td><td>-0.384</td><td>0.000</td><td>0.15</td><td></td></tr><tr><td>1.009</td><td>S8023</td><td>47</td><td>99.521</td><td>-0.304</td><td>0.000</td><td>0.37</td><td></td></tr><tr><td>1.010</td><td>S8025</td><td>47</td><td>99.345</td><td>-0.405</td><td>0.000</td><td>0.23</td><td></td></tr><tr><td>1.011</td><td>S8026</td><td>47</td><td>99.168</td><td>-0.472</td><td>0.000</td><td>0.10</td><td></td></tr></tbody></table>								Water	Surcharged	Flooded			PN	US/MH Name	Storm Rank	Level (m)	Depth (m)	Volume (m³)	Flow / Cap.	Overflow (l/s)	1.000	S8104 Jelson	47	102.164	-0.252	0.000	0.06		1.001	S8172 Jelson	47	101.847	-0.242	0.000	0.08		1.002	S8105 Jelson	47	101.598	-0.238	0.000	0.10		1.003	S8107 Jelson	47	101.128	-0.393	0.000	0.04		1.004	S8171 Jelson	47	100.874	-0.382	0.000	0.05		1.005	S8170 Jelson	47	100.297	-0.369	0.000	0.07		1.006	S8009 - Jelson Connection	47	99.959	-0.448	0.000	0.05		1.007	S8010	47	99.680	-0.415	0.000	0.10		1.008	S8011	47	99.568	-0.417	0.000	0.08		2.000	S8108 Jelson	47	100.607	-0.248	0.000	0.07		2.001	S8109 Jelson	47	100.218	-0.221	0.000	0.16		2.002	S8110 Jelson	47	100.070	-0.216	0.000	0.38		3.000	S8115 Jelson	47	100.064	-0.486	0.000	0.02		3.001	S8116 Jelson	47	99.885	-0.458	0.000	0.03		2.003	S8111 Jelson	47	99.822	-0.437	0.000	0.07		2.004	S8112 Jelson	47	99.672	-0.378	0.000	0.12		2.005	S8113 Jelson	47	99.644	-0.334	0.000	0.29		2.006	S8022 Jelson Connection	47	99.567	-0.384	0.000	0.15		1.009	S8023	47	99.521	-0.304	0.000	0.37		1.010	S8025	47	99.345	-0.405	0.000	0.23		1.011	S8026	47	99.168	-0.472	0.000	0.10	
			Water	Surcharged	Flooded																																																																																																																																																																																							
PN	US/MH Name	Storm Rank	Level (m)	Depth (m)	Volume (m³)	Flow / Cap.	Overflow (l/s)																																																																																																																																																																																					
1.000	S8104 Jelson	47	102.164	-0.252	0.000	0.06																																																																																																																																																																																						
1.001	S8172 Jelson	47	101.847	-0.242	0.000	0.08																																																																																																																																																																																						
1.002	S8105 Jelson	47	101.598	-0.238	0.000	0.10																																																																																																																																																																																						
1.003	S8107 Jelson	47	101.128	-0.393	0.000	0.04																																																																																																																																																																																						
1.004	S8171 Jelson	47	100.874	-0.382	0.000	0.05																																																																																																																																																																																						
1.005	S8170 Jelson	47	100.297	-0.369	0.000	0.07																																																																																																																																																																																						
1.006	S8009 - Jelson Connection	47	99.959	-0.448	0.000	0.05																																																																																																																																																																																						
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3.000	S8115 Jelson	47	100.064	-0.486	0.000	0.02																																																																																																																																																																																						
3.001	S8116 Jelson	47	99.885	-0.458	0.000	0.03																																																																																																																																																																																						
2.003	S8111 Jelson	47	99.822	-0.437	0.000	0.07																																																																																																																																																																																						
2.004	S8112 Jelson	47	99.672	-0.378	0.000	0.12																																																																																																																																																																																						
2.005	S8113 Jelson	47	99.644	-0.334	0.000	0.29																																																																																																																																																																																						
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1.010	S8025	47	99.345	-0.405	0.000	0.23																																																																																																																																																																																						
1.011	S8026	47	99.168	-0.472	0.000	0.10																																																																																																																																																																																						
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Network 2020.1.3		

Summary Wizard of 960 minute 100 year Winter I+40% for Surface Network 8

PN	US/MH Name	Half Drain Time (mins)	Pipe Flow (l/s)	Status
1.000	S8104 Jelson		6.5	OK
1.001	S8172 Jelson		9.7	OK
1.002	S8105 Jelson		10.9	OK
1.003	S8107 Jelson		11.3	OK
1.004	S8171 Jelson		21.3	OK
1.005	S8170 Jelson		21.3	OK
1.006	S8009 - Jelson Connection		21.3	OK
1.007	S8010		23.9	OK
1.008	S8011		24.8	OK
2.000	S8108 Jelson		7.2	OK
2.001	S8109 Jelson		11.8	OK
2.002	S8110 Jelson		15.3	OK
3.000	S8115 Jelson	160	4.5	OK
3.001	S8116 Jelson		7.7	OK
2.003	S8111 Jelson		23.2	OK
2.004	S8112 Jelson		28.8	OK
2.005	S8113 Jelson		34.1	OK
2.006	S8022 Jelson Connection		39.9	OK
1.009	S8023		66.5	OK
1.010	S8025		74.6	OK
1.011	S8026		76.4	OK

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<u>Summary Wizard of 1440 minute 100 year Winter I+40% for Surface Network 8</u>							
<u>Simulation Criteria</u>							
Areal Reduction Factor 1.000		Additional Flow - % of Total Flow 0.000					
Hot Start (mins) 0		MADD Factor * 10m³/ha Storage 0.000					
Hot Start Level (mm) 0		Inlet 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 2					
Number of Online Controls 1		Number of Time/Area Diagrams 0					
Number of Offline Controls 0		Number of Real Time Controls 0					
<u>Synthetic Rainfall Details</u>							
Rainfall Model		FSR	Ratio R 0.404				
Region England and Wales		Cv (Summer)	0.750				
M5-60 (mm)		19.900	Cv (Winter) 0.840				
Margin for Flood Risk Warning (mm) 300.0		DVD Status OFF					
Analysis Timestep		Fine	Inertia Status OFF				
DTS Status		ON					
Profile(s)		Summer and Winter					
Duration(s) (mins)		15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440					
Return Period(s) (years)		1, 30, 100					
Climate Change (%)		0, 0, 40					
			<u>Water</u>	<u>Surcharged</u>	<u>Flooded</u>		
	<u>US/MH</u>	<u>Storm</u>	<u>Level</u>	<u>Depth</u>	<u>Volume</u>	<u>Flow /</u>	<u>Overflow</u>
<u>PN</u>	<u>Name</u>	<u>Rank</u>	<u>(m)</u>	<u>(m)</u>	<u>(m³)</u>	<u>Cap.</u>	<u>(l/s)</u>
1.000	S8104 Jelson	57	102.157	-0.259	0.000	0.05	
1.001	S8172 Jelson	57	101.836	-0.253	0.000	0.06	
1.002	S8105 Jelson	57	101.588	-0.248	0.000	0.07	
1.003	S8107 Jelson	57	101.121	-0.400	0.000	0.03	
1.004	S8171 Jelson	57	100.863	-0.393	0.000	0.04	
1.005	S8170 Jelson	57	100.283	-0.383	0.000	0.05	
1.006	S8009 - Jelson Connection	57	99.948	-0.460	0.000	0.04	
1.007	S8010	57	99.661	-0.434	0.000	0.07	
1.008	S8011	57	99.544	-0.441	0.000	0.06	
2.000	S8108 Jelson	57	100.598	-0.257	0.000	0.05	
2.001	S8109 Jelson	57	100.206	-0.233	0.000	0.11	
2.002	S8110 Jelson	57	100.044	-0.242	0.000	0.27	
3.000	S8115 Jelson	57	100.053	-0.497	0.000	0.01	
3.001	S8116 Jelson	57	99.875	-0.468	0.000	0.02	
2.003	S8111 Jelson	57	99.807	-0.452	0.000	0.05	
2.004	S8112 Jelson	57	99.645	-0.405	0.000	0.09	
2.005	S8113 Jelson	57	99.614	-0.364	0.000	0.21	
2.006	S8022 Jelson Connection	57	99.540	-0.411	0.000	0.11	
1.009	S8023	57	99.484	-0.341	0.000	0.27	
1.010	S8025	57	99.314	-0.436	0.000	0.17	
1.011	S8026	57	99.148	-0.492	0.000	0.07	
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Elstree Computing Ltd

Network 2020.1.3

Summary Wizard of 1440 minute 100 year Winter I+40% for Surface Network 8

PN	US/MH Name	Half Drain Time (mins)	Pipe	Status
			Flow (l/s)	
1.000	S8104	Jelson	4.7	OK
1.001	S8172	Jelson	7.0	OK
1.002	S8105	Jelson	7.9	OK
1.003	S8107	Jelson	8.2	OK
1.004	S8171	Jelson	15.4	OK
1.005	S8170	Jelson	15.4	OK
1.006	S8009 -	Jelson Connection	15.4	OK
1.007		S8010	17.2	OK
1.008		S8011	17.9	OK
2.000	S8108	Jelson	5.2	OK
2.001	S8109	Jelson	8.5	OK
2.002	S8110	Jelson	11.0	OK
3.000	S8115	Jelson	216 3.2	OK
3.001	S8116	Jelson	5.6	OK
2.003	S8111	Jelson	16.8	OK
2.004	S8112	Jelson	20.8	OK
2.005	S8113	Jelson	24.6	OK
2.006	S8022	Jelson Connection	28.8	OK
1.009		S8023	48.0	OK
1.010		S8025	53.9	OK
1.011		S8026	55.2	OK

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Elstree Computing Ltd		
Network 2020.1.3		

Summary Wizard of 1440 minute 100 year Winter I+40% for Surface Network 8

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Overflow Cap. (l/s)	Half Drain Time (mins)
4.000		S8068	57 99.083	-0.257	0.000	0.05	
1.012		S8028	57 98.663	-0.431	0.000	0.18	
1.013		S8029	57 98.501	-0.469	0.000	0.11	
1.014		S8030	57 98.181	-0.439	0.000	0.16	
1.015		S8031	57 97.994	-0.466	0.000	0.11	
1.016		S8034	22 97.731	-0.349	0.000	0.08	
1.017		S8037	11 97.728	0.748	0.000	0.29	
1.018	S8039 - Headwall	5	97.726	0.868	0.000	0.15	
1.019	S8051 - Headwall	5	97.726	0.826	0.000	0.21	
1.020	S8052 Control Chamber	5	97.725	0.925	0.000	0.02	

PN	US/MH Name	Pipe Flow (l/s)	Status
4.000		S8068 3.4	OK
1.012		S8028 62.5	OK
1.013		S8029 63.8	OK
1.014		S8030 65.4	OK
1.015		S8031 66.3	OK
1.016		S8034 69.2	OK
1.017		S8037 71.1	SURCHARGED
1.018	S8039 - Headwall	71.0	FLOOD RISK*
1.019	S8051 - Headwall	73.0	FLOOD RISK*
1.020	S8052 Control Chamber	11.8	SURCHARGED