



**Drainage Calculations
&
Simulation Results
For**

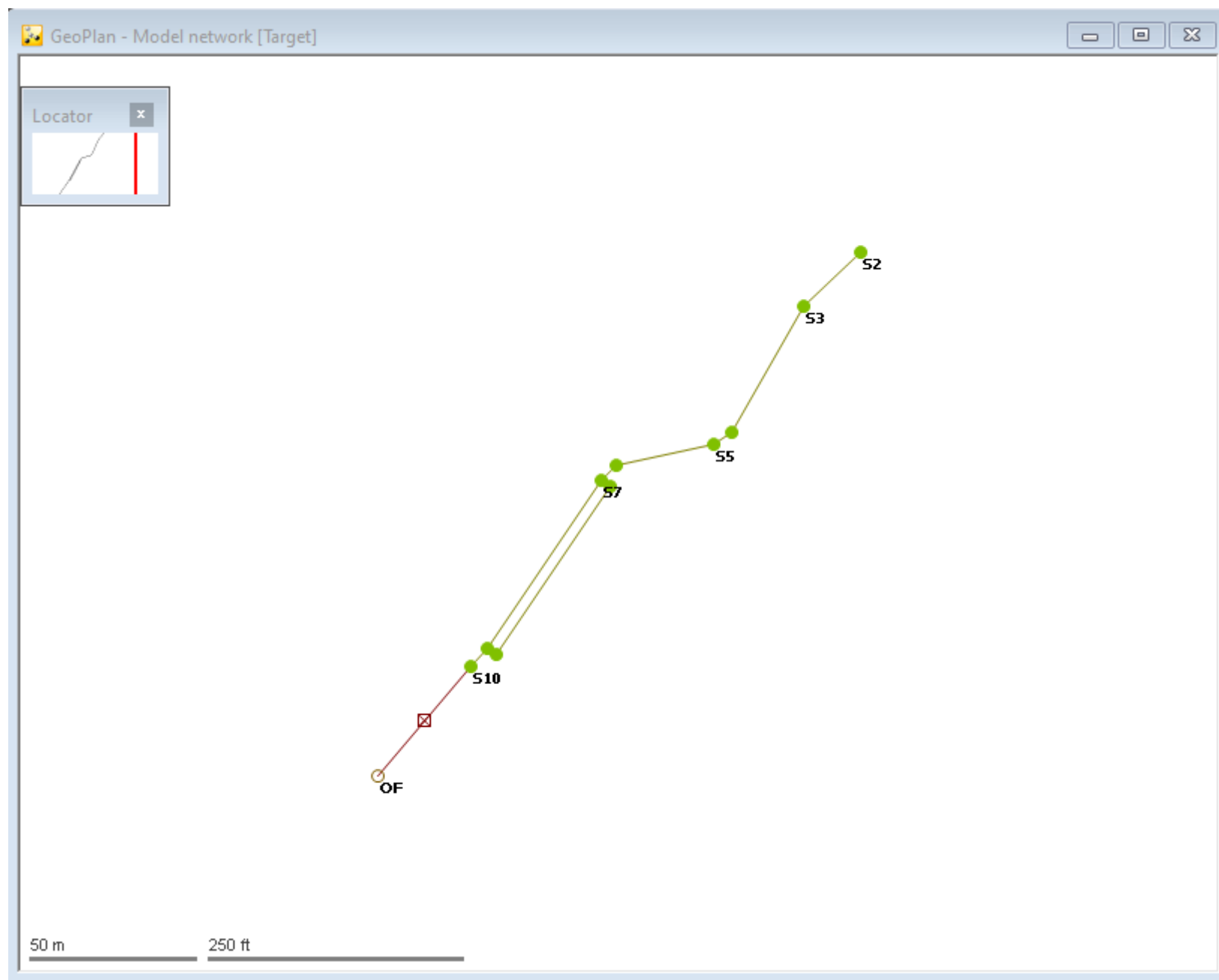
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Netherton

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**Ref : P19-00650 Rev 4/AK
Date : Feb 21**



PLAN

Grid [Node] - Model network														
	Node ID	Node type	System type	Connection type	x (m)	y (m)	Ground level (m AD)	Flood level (m AD)	Chamber floor level (m AD)	Chamber roof level (m AD)	Chamber plan area (m2)	Shaft plan area (m2)	Benching method	Flood type
	OF	Outfall	storm	Lost	412171.8	412774.1	141.500	141.500	138.879	138.899	0.5	0.5	Full Benching	Stored
	S10	Manhole	storm	Lost	412198.8	412805.9	141.700	141.700	139.521	140.139	3.5	3.5	Full Benching	Lost
	S9	Manhole	storm	Lost	412203.8	412811.3	141.594	141.594	139.591	140.225	3.5	3.5	Full Benching	Lost
	S7	Manhole	storm	Lost	412237.2	412860.3	142.211	142.211	139.740	140.640	3.5	3.5	Full Benching	Lost
	S6	Manhole	storm	Lost	412241.6	412865.0	142.360	142.360	140.421	140.721	1.1	1.1	Full Benching	Lost
	S5	Manhole	storm	Lost	412269.9	412871.2	144.525	144.525	142.803	143.103	1.1	1.1	Full Benching	Lost
	S4	Manhole	storm	Lost	412275.1	412874.4	145.192	145.192	143.412	143.712	1.1	1.1	Full Benching	Lost
	S3	Manhole	storm	Lost	412296.2	412911.6	149.507	149.507	147.764	147.989	1.1	1.1	Full Benching	Lost
	S2	Manhole	storm	Lost	412312.9	412927.1	151.724	151.724	150.117	150.267	1.1	1.1	Full Benching	Lost
	S7A	Manhole	storm	Lost	412239.5	412858.7	142.141	142.141	139.750	140.650	3.5	3.5	Full Benching	Lost
	S9A	Manhole	Other	Lost	412206.1	412809.6	141.594	141.594	139.600	140.500	3.5	3.5	Full Benching	Lost
*														

MANHOLES

Grid [Conduit] - Model network

	US node ID	Link suffix	DS node ID	System type	Number of barrels	Length (m)	Shape ID	Width (mm)	Height (mm)	Roughness type	Bottom roughness Colebrook-White (mm)	Top roughness Colebrook-White (mm)	US invert level (m AD)	DS invert level (m AD)	Assessment
	S2	1	S3	storm	1	22.8	CIRC	150	150	CW	0.600	0.600	150.117	147.839	
	S3	1	S4	storm	1	42.8	CIRC	225	225	CW	0.600	0.600	147.764	143.487	
	S4	1	S5	storm	1	6.1	CIRC	300	300	CW	0.600	0.600	143.412	142.803	
	S5	1	S6	storm	1	27.5	CIRC	300	300	CW	0.600	0.600	142.803	140.421	
	S6	1	S7	storm	1	8.5	CIRC	300	300	CW	0.600	0.600	140.421	140.340	
	S7	1	S9	storm	1	48.0	CIRC	900	900	CW	0.600	0.600	139.740	139.591	
	S9	1	S10	storm	1	7.0	CIRC	450	450	CW	0.600	0.600	139.591	139.521	
	S7A	1	S9A	storm	1	48.0	CIRC	900	900	CW	0.600	0.600	139.750	139.600	
	S9A	1	S9	storm	1	2.9	CIRC	450	450	CW	0.600	0.600	139.600	139.591	
*															

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ConduitShapeHeadloss curveFlap valveFlumeOrificeF

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PIPES

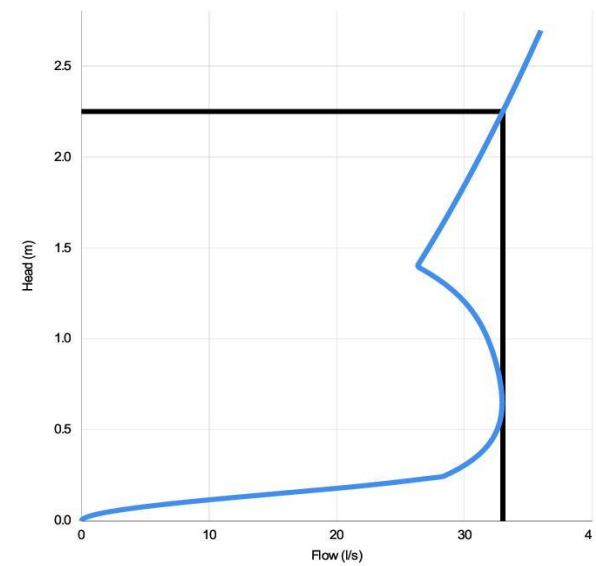
	Subcatchment ID	System type	Drains to	Node ID	Lateral weights	Total area (ha)	x (m)	y (m)	Land use ID	SPR calculation	Contributing area (ha)	Area measurement type	Runoff area 1 (%)
	S9	storm	Node	S2	Length	0.024	412312.9	412927.1	99	HOST_Soils	0.024	Percent	100.000
	S8	storm	Node	S3	Length	0.021	412296.2	412911.6	99	HOST_Soils	0.021	Percent	100.000
	S7	storm	Node	S4	Length	0.012	412275.1	412874.4	99	HOST_Soils	0.012	Percent	100.000
	S6	storm	Node	S5	Length	0.057	412269.9	412871.2	99	HOST_Soils	0.057	Percent	100.000
	S5	storm	Node	S6	Length	0.090	412243.0	412864.1	99	HOST_Soils	0.090	Percent	100.000
	S3	storm	Node	S9A	Length	0.094	412214.5	412824.9	99	HOST_Soils	0.094	Percent	100.000
	S1	storm	Node	S10	Length	0.124	412183.6	412787.5	99	HOST_Soils	0.124	Percent	100.000
*													

SUBCATCHMENT

	US node ID	Link suffix	DS node ID	Link type	System type	Asset ID	Sewer reference	Initial level (m AD)	Head discharge table	Modular limit	DS settlement efficiency (%)
	S10	1	OF	Vortex	storm			139.521	33l/sec : 2.25m head	0.90	0
*											

MANUFACTURERS DATA

Technical Specification		
Control Point	Head (m)	Flow (l/s)
Primary Design	2.250	33.000
Flush-Flo	0.649	32.944
Kick-Flo®	1.397	26.268
Mean Flow		28.638



Head (m)	Flow (l/s)
0.000	0.000
0.078	4.798
0.155	16.049
0.233	26.961
0.310	30.086
0.388	31.469
0.466	32.306
0.543	32.756
0.621	32.931
0.698	32.915
0.776	32.766
0.853	32.522
0.931	32.194
1.009	31.773
1.086	31.222
1.164	30.485
1.241	29.485
1.319	28.135
1.397	26.378
1.474	26.948
1.552	27.616
1.629	28.268
1.707	28.904
1.784	29.525
1.862	30.133
1.940	30.728
2.017	31.311
2.095	31.882
2.172	32.443
2.250	32.994

DESIGN ADVICE

The head/flow characteristics of this SHE-0229-3300-2250-3300 Hydro-Brake Optimum® Flow Control are unique. Dynamic hydraulic modelling evaluates the full head/flow characteristic curve.

! The use of any other flow control will invalidate any design based on this data and could constitute a flood risk.



DATE	05/07/2019 13:00	SHE-0229-3300-2250-3300 Hydro-Brake Optimum®
Site	Fold Farm, Netherton	
DESIGNER	Stuart Seabrook	
Ref	P19-00650	

MH S1 HYDROGRAPH DETAILS

SIMULATION RESULTS

1 in 1 year RETURN PERIOD

InfoWorks ICM SIM

Summary results from Simulation

Version 10.0.0.20012 (x64) dated May 2019

Licence Number - WS88880294PM

Message 253: Run finished for event 1.

Model network (version 11)

Event - 1 WS88880294PM Produced 2020-12-11 Pg 1

Summary results for event 1 - M1-15

Started at 0 day(s) 00:00:00. Run for 2000.00 min. (Requested simulation time 2000.00 min)

Files used:

Network: ...\\nnet131949#11.spb Model network (version 11)

State:

Runoff: ...\\nnet131949#11.rpf Model network (version 11) (InfoWorks 10.0.0.20012(64bit))

Rainfall: ...133830eventiid35381.re M1-15 (0S): M5-60=20.0mm, r=0.40, AT=0.00km2 x1.00

DWF:

Inflows:

Levels:

RTC:

Results: ...\\sim133830.iwr

Total rainfall	=	31.9 m3
Total runoff	=	24.2 m3
Total inflow	=	24.2 m3
Total outflow	=	24.1 m3
Total lost	=	0.0 m3

***** Node data *****

Node Reference	Ground Level (m AD)	Max Level (m AD)	Flood Volume (m3)	Flood Depth (m)	Flood Area (m2)	Max Stored (m3)	Inflow (m3)	Vol Balance (m3)	Vol Balance (%)
S10	141.700	139.814	0.0	0.000	0.0	1.0	7.1	-0.000	0.000
S2	151.724	150.150	0.0	0.000	0.0	0.0	1.4	0.000	0.000
S3	149.507	147.802	0.0	0.000	0.0	0.0	1.2	-0.000	0.000
S4	145.192	143.455	0.0	0.000	0.0	0.0	0.7	-0.000	0.000
S5	144.525	142.858	0.0	0.000	0.0	0.1	3.3	-0.000	0.000
S6	142.360	140.530	0.0	0.000	0.0	0.1	5.2	-0.000	0.000
S7	142.211	139.847	0.0	0.000	0.0	0.4	0.0	0.000	0.000
S7A	142.141	139.821	0.0	0.000	0.0	0.2	0.0	-0.000	0.000
S9	141.594	139.815	0.0	0.000	0.0	0.8	0.0	-0.000	0.000
S9A	141.594	139.815	0.0	0.000	0.0	0.8	5.4	-0.000	0.000

A %% indicates water lost from the system.

***** Link data *****

Link Reference	D/S Node	Pipe Len (m)	Pipe Hgt (mm)	Sed Dpth (mm)	P.Full Flow (m3/s)	< Upstream				> Downstream					
						Invert Level (m AD)	Max Depth (m)	Max Flow (m3/s)	Max Vel (m/s)	Total Flow (m3)	Invert Level (m AD)	Max Depth (m)	Max Flow (m3/s)	Max Vel (m/s)	Total Flow (m3)
S10.1	OF					139.521	0.293	0.026		24.1	139.521	0.000	0.026		24.1
S2.1	S3	22	150	0	0.057	150.117	0.033	0.004	1.318	1.4	147.839	0.033	0.004	1.312	1.4
S3.1	S4	42	225	0	0.165	147.764	0.038	0.007	1.563	2.6	143.487	0.038	0.007	1.543	2.6
S4.1	S5	6	300	0	0.353	143.412	0.043	0.009	1.376	3.3	142.803	0.055	0.009	0.970	3.3
S5.1	S6	27	300	0	0.329	142.803	0.055	0.017	1.970	6.5	140.421	0.109	0.017	0.737	6.5
S6.1	S7	8	300	0	0.108	140.421	0.109	0.030	1.290	11.7	140.340	0.109	0.030	1.281	11.7
S7.1	S9	48	900	0	1.106	139.740	0.107	0.029	0.701	11.7	139.591	0.224	0.019	0.245	11.7
S7A.1	S9A	48	900	0	1.110	139.750	0.071	-0.001	-0.039	0.0	139.600	0.215	-0.014	-0.168	0.0
S9.1	S10	7	450	0	0.323	139.591	0.224	0.020	0.487	17.0	139.521	0.293	0.021	0.313	17.0
S9A.1	S9	2	450	0	0.180	139.600	0.215	0.009	0.241	5.4	139.591	0.224	0.009	0.231	5.3

+ after total flow indicates a conduit surcharged by flow and depth at that end.

x after total flow indicates a conduit surcharged by depth only at that end.

NOTE :

- (i) Maximum elevations, depths, volumes, velocities and discharges are selected from the values at each time increment and will be in general more extreme than the maximum values in the time varying results.
- (ii) Maximum elevations, velocities and discharges are not necessarily calculated at the same time.
- (iii) Maximum velocity is not calculated for a conduit unless the depth exceeds the base flow depth (by default, this is 5% of height for slopes <= 0.01, 10% otherwise, subject to a minimum of 0.02 m).

Start of run

configured for MS Windows

Produced on 2020-12-11 at 15:48

InfoWorks ICM SIM

Summary results from Simulation

Version 10.0.0.20012 (x64) dated May 2019

Licence Number - WS88880294PM

Message 253: Run finished for event 1.

Model network (version 11)

Event - 1 WS88880294PM Produced 2020-12-11 Pg 1

Summary results for event 1 - M1-30

Started at 0 day(s) 00:00:00. Run for 2000.00 min. (Requested simulation time 2000.00 min)

Files used:

Network: ...\\nnet131949#11.spb Model network (version 11)

State: ...1211_154826_initial.sp

Runoff: ...\\nnet131949#11.rpf Model network (version 11) (InfoWorks 10.0.0.20012(64bit))

Rainfall: ...133831eventiid64026.re M1-30 (0S): M5-60=20.0mm, r=0.40, AT=0.00km2 x1.00

DWF:

Inflows:

Levels:

RTC:

Results: ...\\sim133831.iwr

Total rainfall = 40.5 m3

Total runoff = 30.8 m3

Total inflow = 30.8 m3

Total outflow = 30.6 m3

Total lost = 0.0 m3

***** Node data *****

Node Reference	Ground Level (m AD)	Max Level (m AD)	Flood Volume (m3)	Flood Depth (m)	Flood Area (m2)	Max Stored (m3)	Inflow (m3)	Vol Balance (m3)	Vol Balance (%)
S10	141.700	139.811	0.0	0.000	0.0	1.0	9.0	-0.000	0.000
S2	151.724	150.148	0.0	0.000	0.0	0.0	1.8	-0.000	0.000
S3	149.507	147.800	0.0	0.000	0.0	0.0	1.5	-0.000	0.000
S4	145.192	143.453	0.0	0.000	0.0	0.0	0.9	-0.000	0.000
S5	144.525	142.855	0.0	0.000	0.0	0.1	4.2	-0.000	0.000
S6	142.360	140.521	0.0	0.000	0.0	0.1	6.6	-0.000	0.000
S7	142.211	139.842	0.0	0.000	0.0	0.4	0.0	-0.000	0.000
S7A	142.141	139.818	0.0	0.000	0.0	0.2	0.0	0.000	0.000
S9	141.594	139.812	0.0	0.000	0.0	0.8	0.0	-0.000	0.000
S9A	141.594	139.813	0.0	0.000	0.0	0.7	6.9	-0.000	0.000

A %% indicates water lost from the system.

***** Link data *****

Link Reference	D/S Node	Pipe Len (m)	Pipe Hgt (mm)	Sed Dpth (mm)	P.Full Flow (m3/s)	< Upstream				> Downstream				Total Flow (m3)	
						Invert Level (m AD)	Max Depth (m)	Max Flow (m3/s)	Max Vel (m/s)	Total Flow (m3)	Invert Level (m AD)	Max Depth (m)	Max Flow (m3/s)		Max Vel (m/s)
S10.1	OF					139.521	0.290	0.026		30.6	139.521	0.000	0.026		30.6
S2.1	S3	22	150	0	0.057	150.117	0.031	0.003	1.184	1.8	147.839	0.031	0.003	1.180	1.8
S3.1	S4	42	225	0	0.165	147.764	0.036	0.006	1.411	3.3	143.487	0.036	0.006	1.398	3.3
S4.1	S5	6	300	0	0.353	143.412	0.041	0.007	1.225	4.2	142.803	0.052	0.007	0.887	4.2
S5.1	S6	27	300	0	0.329	142.803	0.052	0.015	1.795	8.3	140.421	0.100	0.014	0.695	8.3
S6.1	S7	8	300	0	0.108	140.421	0.100	0.025	1.225	14.9	140.340	0.100	0.025	1.219	14.9
S7.1	S9	48	900	0	1.106	139.740	0.102	0.025	0.646	14.9	139.591	0.221	0.017	0.236	14.9
S7A.1	S9A	48	900	0	1.110	139.750	0.068	-0.001	-0.029	0.0	139.600	0.213	-0.011	-0.125	0.0
S9.1	S10	7	450	0	0.323	139.591	0.221	0.020	0.472	21.6	139.521	0.290	0.021	0.286	21.6
S9A.1	S9	2	450	0	0.180	139.600	0.213	0.008	0.216	6.8	139.591	0.221	0.009	0.204	6.8

+ after total flow indicates a conduit surcharged by flow and depth at that end.

x after total flow indicates a conduit surcharged by depth only at that end.

NOTE :

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- (iii) Maximum velocity is not calculated for a conduit unless the depth exceeds the base flow depth (by default, this is 5% of height for slopes <= 0.01, 10% otherwise, subject to a minimum of 0.02 m).

Start of run

configured for MS Windows

Produced on 2020-12-11 at 15:48

InfoWorks ICM SIM

Summary results from Simulation

Version 10.0.0.20012 (x64) dated May 2019

Licence Number - WS88880294PM

Message 253: Run finished for event 1.

Model network (version 11)

Event - 1 WS88880294PM Produced 2020-12-11 Pg 1

Summary results for event 1 - M1-60

Started at 0 day(s) 00:00:00. Run for 2000.00 min. (Requested simulation time 2000.00 min)

Files used:

Network: ...\\nnet131949#11.spb Model network (version 11)

State: ...1211_154826_initial.sp

Runoff: ...\\nnet131949#11.rpf Model network (version 11) (InfoWorks 10.0.0.20012(64bit))

Rainfall: ...133832eventiid79987.re M1-60 (OS): M5-60=20.0mm, r=0.40, AT=0.00km2 x1.00

DWF:

Inflows:

Levels:

RTC:

Results: ...\\sim133832.iwr

Total rainfall = 51.3 m3

Total runoff = 39.0 m3

Total inflow = 39.0 m3

Total outflow = 38.8 m3

Total lost = 0.0 m3

***** Node data *****

Node Reference	Ground Level (m AD)	Max Level (m AD)	Flood Volume (m3)	Flood Depth (m)	Flood Area (m2)	Max Stored (m3)	Inflow (m3)	Vol Balance (m3)	Vol Balance (%)
S10	141.700	139.779	0.0	0.000	0.0	0.9	11.5	0.000	0.000
S2	151.724	150.145	0.0	0.000	0.0	0.0	2.2	-0.000	0.000
S3	149.507	147.797	0.0	0.000	0.0	0.0	1.9	-0.000	0.000
S4	145.192	143.451	0.0	0.000	0.0	0.0	1.1	-0.000	0.000
S5	144.525	142.849	0.0	0.000	0.0	0.1	5.3	-0.000	0.000
S6	142.360	140.506	0.0	0.000	0.0	0.1	8.3	-0.000	0.000
S7	142.211	139.830	0.0	0.000	0.0	0.3	0.0	-0.000	0.000
S7A	142.141	139.802	0.0	0.000	0.0	0.2	0.0	-0.000	0.000
S9	141.594	139.781	0.0	0.000	0.0	0.7	0.0	-0.000	0.000
S9A	141.594	139.781	0.0	0.000	0.0	0.6	8.7	-0.000	0.000

A %% indicates water lost from the system.

***** Link data *****

Link Reference	D/S Node	Pipe Len (m)	Pipe Hgt (mm)	Sed Dpth (mm)	P.Full Flow (m3/s)	< Upstream				> Downstream				>		
						Invert Level (m AD)	Max Depth (m)	Max Flow (m3/s)	Max Vel (m/s)	Total Flow (m3)	Invert Level (m AD)	Max Depth (m)	Max Flow (m3/s)		Max Vel (m/s)	Total Flow (m3)
S10.1	OF					139.521	0.258	0.025		38.8	139.521	0.000	0.025		38.8	
S2.1	S3	22	150	0	0.057	150.117	0.028	0.002	0.961	2.2	147.839	0.028	0.002	0.958	2.2	
S3.1	S4	42	225	0	0.165	147.764	0.033	0.004	1.156	4.2	143.487	0.033	0.004	1.148	4.2	
S4.1	S5	6	300	0	0.353	143.412	0.039	0.005	0.975	5.3	142.803	0.046	0.005	0.741	5.3	
S5.1	S6	27	300	0	0.329	142.803	0.046	0.010	1.493	10.5	140.421	0.085	0.010	0.624	10.5	
S6.1	S7	8	300	0	0.108	140.421	0.085	0.018	1.108	18.8	140.340	0.085	0.018	1.106	18.8	
S7.1	S9	48	900	0	1.106	139.740	0.090	0.018	0.558	18.8	139.591	0.190	0.014	0.235	18.8	
S7A.1	S9A	48	900	0	1.110	139.750	0.052	-0.000	-0.009	0.0	139.600	0.181	-0.005	0.074	0.0	
S9.1	S10	7	450	0	0.323	139.591	0.190	0.018	0.465	27.4	139.521	0.258	0.019	0.278	27.4	
S9A.1	S9	2	450	0	0.180	139.600	0.181	0.007	0.205	8.6	139.591	0.190	0.008	0.191	8.6	

+ after total flow indicates a conduit surcharged by flow and depth at that end.

x after total flow indicates a conduit surcharged by depth only at that end.

NOTE :

- (i) Maximum elevations, depths, volumes, velocities and discharges are selected from the values at each time increment and will be in general more extreme than the maximum values in the time varying results.
- (ii) Maximum elevations, velocities and discharges are not necessarily calculated at the same time.
- (iii) Maximum velocity is not calculated for a conduit unless the depth exceeds the base flow depth (by default, this is 5% of height for slopes <= 0.01, 10% otherwise, subject to a minimum of 0.02 m).

Start of run

configured for MS Windows

Produced on 2020-12-11 at 15:48

InfoWorks ICM SIM

Summary results from Simulation

Version 10.0.0.20012 (x64) dated May 2019

Licence Number - WS88880294PM

Message 253: Run finished for event 1.

Model network (version 11)

Event - 1 WS88880294PM Produced 2020-12-11 Pg 1

Summary results for event 1 - M1-90

Started at 0 day(s) 00:00:00. Run for 2000.00 min. (Requested simulation time 2000.00 min)

Files used:

Network: ...\\nnet131949#11.spb Model network (version 11)

State: ...1211_154826_initial.sp

Runoff: ...\\nnet131949#11.rpf Model network (version 11) (InfoWorks 10.0.0.20012(64bit))

Rainfall: ...m133833eventiid2246.re M1-90 (OS): M5-60=20.0mm, r=0.40, AT=0.00km2 x1.00

DWF:

Inflows:

Levels:

RTC:

Results: ...\\sim133833.iwr

Total rainfall = 58.3 m3

Total runoff = 44.3 m3

Total inflow = 44.3 m3

Total outflow = 44.2 m3

Total lost = 0.0 m3

***** Node data *****

Node Reference	Ground Level (m AD)	Max Level (m AD)	Flood Volume (m3)	Flood Depth (m)	Flood Area (m2)	Max Stored (m3)	Inflow (m3)	Vol Balance (m3)	Vol Balance (%)
S10	141.700	139.743	0.0	0.000	0.0	0.8	13.0	-0.000	0.000
S2	151.724	150.144	0.0	0.000	0.0	0.0	2.5	-0.000	0.000
S3	149.507	147.795	0.0	0.000	0.0	0.0	2.2	-0.000	0.000
S4	145.192	143.449	0.0	0.000	0.0	0.0	1.3	-0.000	0.000
S5	144.525	142.847	0.0	0.000	0.0	0.0	6.0	-0.000	0.000
S6	142.360	140.497	0.0	0.000	0.0	0.1	9.4	-0.000	0.000
S7	142.211	139.822	0.0	0.000	0.0	0.3	0.0	-0.000	0.000
S7A	142.141	139.796	0.0	0.000	0.0	0.2	0.0	0.000	0.000
S9	141.594	139.747	0.0	0.000	0.0	0.5	0.0	-0.000	0.000
S9A	141.594	139.747	0.0	0.000	0.0	0.5	9.9	-0.000	0.000

A %% indicates water lost from the system.

***** Link data *****

Link Reference	D/S Node	Pipe Len (m)	Pipe Hgt (mm)	Sed Dpth (mm)	P.Full Flow (m3/s)	< Upstream				> Downstream				Total Flow (m3)	
						Invert Level (m AD)	Max Depth (m)	Max Flow (m3/s)	Max Vel (m/s)	Total Flow (m3)	Invert Level (m AD)	Max Depth (m)	Max Flow (m3/s)		Max Vel (m/s)
S10.1	OF					139.521	0.222	0.024		44.2	139.521	0.000	0.024		44.2
S2.1	S3	22	150	0	0.057	150.117	0.027	0.002	0.821	2.5	147.839	0.027	0.002	0.819	2.5
S3.1	S4	42	225	0	0.165	147.764	0.031	0.003	0.993	4.7	143.487	0.031	0.003	0.988	4.7
S4.1	S5	6	300	0	0.353	143.412	0.037	0.004	0.821	6.0	142.803	0.044	0.004	0.646	6.0
S5.1	S6	27	300	0	0.329	142.803	0.043	0.008	1.296	12.0	140.421	0.076	0.008	0.578	12.0
S6.1	S7	8	300	0	0.108	140.421	0.076	0.014	1.028	21.4	140.340	0.076	0.015	1.028	21.4
S7.1	S9	48	900	0	1.106	139.740	0.082	0.014	0.503	21.4	139.591	0.156	0.013	0.231	21.4
S7A.1	S9A	48	900	0	1.110	139.750	0.046	-0.000	-0.002	0.0	139.600	0.147	0.002	0.043	0.0
S9.1	S10	7	450	0	0.323	139.591	0.156	0.017	0.463	31.2	139.521	0.222	0.017	0.279	31.2
S9A.1	S9	2	450	0	0.180	139.600	0.147	0.006	0.186	9.8	139.591	0.156	0.006	0.169	9.8

+ after total flow indicates a conduit surcharged by flow and depth at that end.

x after total flow indicates a conduit surcharged by depth only at that end.

NOTE :

- (i) Maximum elevations, depths, volumes, velocities and discharges are selected from the values at each time increment and will be in general more extreme than the maximum values in the time varying results.
- (ii) Maximum elevations, velocities and discharges are not necessarily calculated at the same time.
- (iii) Maximum velocity is not calculated for a conduit unless the depth exceeds the base flow depth (by default, this is 5% of height for slopes ≤ 0.01 , 10% otherwise, subject to a minimum of 0.02 m).

Start of run

configured for MS Windows

Produced on 2020-12-11 at 15:48

InfoWorks ICM SIM

Summary results from Simulation

Version 10.0.0.20012 (x64) dated May 2019

Licence Number - WS88880294PM

Message 253: Run finished for event 1.

Model network (version 11)

Event - 1 WS88880294PM Produced 2020-12-11 Pg 1

Summary results for event 1 - M1-120

Started at 0 day(s) 00:00:00. Run for 2000.00 min. (Requested simulation time 2000.00 min)

Files used:

Network: ...\\nnet131949#11.spb Model network (version 11)

State: ...1211_154826_initial.sp

Runoff: ...\\nnet131949#11.rpf Model network (version 11) (InfoWorks 10.0.0.20012(64bit))

Rainfall: ...133834eventiid95581.re M1-120 (OS): M5-60=20.0mm, r=0.40, AT=0.00km2 x1.00

DWF:

Inflows:

Levels:

RTC:

Results: ...\\sim133834.iwr

Total rainfall = 63.7 m3

Total runoff = 48.4 m3

Total inflow = 48.4 m3

Total outflow = 48.3 m3

Total lost = 0.0 m3

***** Node data *****

Node Reference	Ground Level (m AD)	Max Level (m AD)	Flood Volume (m3)	Flood Depth (m)	Flood Area (m2)	Max Stored (m3)	Inflow (m3)	Vol Balance (m3)	Vol Balance (%)
S10	141.700	139.718	0.0	0.000	0.0	0.7	14.2	0.000	0.000
S2	151.724	150.143	0.0	0.000	0.0	0.0	2.8	-0.000	0.000
S3	149.507	147.794	0.0	0.000	0.0	0.0	2.4	-0.000	0.000
S4	145.192	143.448	0.0	0.000	0.0	0.0	1.4	-0.000	0.000
S5	144.525	142.845	0.0	0.000	0.0	0.0	6.5	-0.000	0.000
S6	142.360	140.491	0.0	0.000	0.0	0.1	10.3	-0.000	0.000
S7	142.211	139.817	0.0	0.000	0.0	0.3	0.0	-0.000	0.000
S7A	142.141	139.795	0.0	0.000	0.0	0.2	0.0	0.000	0.000
S9	141.594	139.724	0.0	0.000	0.0	0.5	0.0	-0.000	0.000
S9A	141.594	139.724	0.0	0.000	0.0	0.4	10.8	-0.000	0.000

A %% indicates water lost from the system.

***** Link data *****

Link Reference	D/S Node	Pipe Len (m)	Pipe Hgt (mm)	Sed Dpth (mm)	P.Full Flow (m3/s)	< Upstream				> Downstream				>		
						Invert Level (m AD)	Max Depth (m)	Max Flow (m3/s)	Max Vel (m/s)	Total Flow (m3)	Invert Level (m AD)	Max Depth (m)	Max Flow (m3/s)		Max Vel (m/s)	Total Flow (m3)
S10.1	OF					139.521	0.197	0.022		48.3	139.521	0.000	0.022		48.3	
S2.1	S3	22	150	0	0.057	150.117	0.026	0.001	0.722	2.8	147.839	0.026	0.001	0.721	2.8	
S3.1	S4	42	225	0	0.165	147.764	0.030	0.003	0.878	5.2	143.487	0.030	0.003	0.875	5.2	
S4.1	S5	6	300	0	0.353	143.412	0.036	0.003	0.715	6.5	142.803	0.042	0.003	0.577	6.5	
S5.1	S6	27	300	0	0.329	142.803	0.042	0.007	1.156	13.1	140.421	0.070	0.007	0.544	13.1	
S6.1	S7	8	300	0	0.108	140.421	0.070	0.012	0.969	23.4	140.340	0.070	0.012	0.969	23.4	
S7.1	S9	48	900	0	1.106	139.740	0.077	0.012	0.462	23.4	139.591	0.133	0.011	0.227	23.4	
S7A.1	S9A	48	900	0	1.110	139.750	0.045	-0.000	-0.001	0.0	139.600	0.124	-0.001	-0.026	0.0	
S9.1	S10	7	450	0	0.323	139.591	0.133	0.016	0.461	34.0	139.521	0.197	0.016	0.278	34.0	
S9A.1	S9	2	450	0	0.180	139.600	0.124	0.005	0.176	10.7	139.591	0.133	0.005	0.157	10.7	

+ after total flow indicates a conduit surcharged by flow and depth at that end.

x after total flow indicates a conduit surcharged by depth only at that end.

NOTE :

- (i) Maximum elevations, depths, volumes, velocities and discharges are selected from the values at each time increment and will be in general more extreme than the maximum values in the time varying results.
- (ii) Maximum elevations, velocities and discharges are not necessarily calculated at the same time.
- (iii) Maximum velocity is not calculated for a conduit unless the depth exceeds the base flow depth (by default, this is 5% of height for slopes ≤ 0.01 , 10% otherwise, subject to a minimum of 0.02 m).

Start of run

configured for MS Windows

Produced on 2020-12-11 at 15:48

InfoWorks ICM SIM

Summary results from Simulation

Version 10.0.0.20012 (x64) dated May 2019

Licence Number - WS88880294PM

Message 253: Run finished for event 1.

Model network (version 11)

Event - 1 WS88880294PM Produced 2020-12-11 Pg 1

Summary results for event 1 - M1-240

Started at 0 day(s) 00:00:00. Run for 2000.00 min. (Requested simulation time 2000.00 min)

Files used:

Network: ...\\nnet131949#11.spb Model network (version 11)

State: ...1211_154826_initial.sp

Runoff: ...\\nnet131949#11.rpf Model network (version 11) (InfoWorks 10.0.0.20012(64bit))

Rainfall: ...133835eventiid47665.re M1-240 (OS): M5-60=20.0mm, r=0.40, AT=0.00km2 x1.00

DWF:

Inflows:

Levels:

RTC:

Results: ...\\sim133835.iwr

Total rainfall = 78.3 m3

Total runoff = 59.5 m3

Total inflow = 59.5 m3

Total outflow = 59.3 m3

Total lost = 0.0 m3

***** Node data *****

Node Reference	Ground Level (m AD)	Max Level (m AD)	Flood Volume (m3)	Flood Depth (m)	Flood Area (m2)	Max Stored (m3)	Inflow (m3)	Vol Balance (m3)	Vol Balance (%)
S10	141.700	139.672	0.0	0.000	0.0	0.5	17.5	-0.000	0.000
S2	151.724	150.141	0.0	0.000	0.0	0.0	3.4	-0.000	0.000
S3	149.507	147.791	0.0	0.000	0.0	0.0	3.0	-0.000	0.000
S4	145.192	143.446	0.0	0.000	0.0	0.0	1.7	-0.000	0.000
S5	144.525	142.841	0.0	0.000	0.0	0.0	8.0	0.000	0.000
S6	142.360	140.478	0.0	0.000	0.0	0.1	12.7	-0.000	0.000
S7	142.211	139.806	0.0	0.000	0.0	0.2	0.0	-0.000	0.000
S7A	142.141	139.795	0.0	0.000	0.0	0.2	0.0	-0.000	0.000
S9	141.594	139.685	0.0	0.000	0.0	0.3	0.0	-0.000	0.000
S9A	141.594	139.685	0.0	0.000	0.0	0.3	13.2	-0.000	0.000

A %% indicates water lost from the system.

***** Link data *****

Link Reference	D/S Node	Pipe Len (m)	Pipe Hgt (mm)	Sed Dpth (mm)	P.Full Flow (m3/s)	< Upstream				> Downstream				Total Flow (m3)	
						Invert Level (m AD)	Max Depth (m)	Max Flow (m3/s)	Max Vel (m/s)	Total Flow (m3)	Invert Level (m AD)	Max Depth (m)	Max Flow (m3/s)		Max Vel (m/s)
S10.1	OF					139.521	0.151	0.015		59.3	139.521	0.000	0.015		59.3
S2.1	S3	22	150	0	0.057	150.117	0.024	0.001	0.510	3.4	147.839	0.024	0.001	0.510	3.4
S3.1	S4	42	225	0	0.165	147.764	0.027	0.002	0.627	6.3	143.487	0.027	0.002	0.627	6.3
S4.1	S5	6	300	0	0.353	143.412	0.034	0.002	0.494	8.0	142.803	0.038	0.002	0.421	8.0
S5.1	S6	27	300	0	0.329	142.803	0.038	0.004	0.842	16.1	140.421	0.057	0.004	0.462	16.1
S6.1	S7	8	300	0	0.108	140.421	0.057	0.008	0.826	28.7	140.340	0.057	0.008	0.826	28.7
S7.1	S9	48	900	0	1.106	139.740	0.066	0.008	0.365	28.7	139.591	0.094	0.008	0.221	28.7
S7A.1	S9A	48	900	0	1.110	139.750	0.045	-0.000	-0.000	0.0	139.600	0.085	-0.000	-0.008	0.0
S9.1	S10	7	450	0	0.323	139.591	0.094	0.011	0.458	41.9	139.521	0.151	0.011	0.277	41.9
S9A.1	S9	2	450	0	0.180	139.600	0.085	0.003	0.170	13.2	139.591	0.094	0.003	0.147	13.2

+ after total flow indicates a conduit surcharged by flow and depth at that end.

x after total flow indicates a conduit surcharged by depth only at that end.

NOTE :

- (i) Maximum elevations, depths, volumes, velocities and discharges are selected from the values at each time increment and will be in general more extreme than the maximum values in the time varying results.
- (ii) Maximum elevations, velocities and discharges are not necessarily calculated at the same time.
- (iii) Maximum velocity is not calculated for a conduit unless the depth exceeds the base flow depth (by default, this is 5% of height for slopes <= 0.01, 10% otherwise, subject to a minimum of 0.02 m).

Start of run

configured for MS Windows

Produced on 2020-12-11 at 15:48

InfoWorks ICM SIM

Summary results from Simulation

Version 10.0.0.20012 (x64) dated May 2019

Licence Number - WS88880294PM

Message 253: Run finished for event 1.

Model network (version 11)

Event - 1 WS88880294PM Produced 2020-12-11 Pg 1

Summary results for event 1 - M1-360

Started at 0 day(s) 00:00:00. Run for 2000.00 min. (Requested simulation time 2000.00 min)

Files used:

Network: ...\\nnet131949#11.spb Model network (version 11)

State: ...1211_154826_initial.sp

Runoff: ...\\nnet131949#11.rpf Model network (version 11) (InfoWorks 10.0.0.20012(64bit))

Rainfall: ...133836eventiid55170.re M1-360 (OS): M5-60=20.0mm, r=0.40, AT=0.00km2 x1.00

DWF:

Inflows:

Levels:

RTC:

Results: ...\\sim133836.iwr

Total rainfall = 87.7 m3

Total runoff = 66.6 m3

Total inflow = 66.6 m3

Total outflow = 66.5 m3

Total lost = 0.0 m3

***** Node data *****

Node Reference	Ground Level (m AD)	Max Level (m AD)	Flood Volume (m3)	Flood Depth (m)	Flood Area (m2)	Max Stored (m3)	Inflow (m3)	Vol Balance (m3)	Vol Balance (%)
S10	141.700	139.649	0.0	0.000	0.0	0.4	19.6	0.000	0.000
S2	151.724	150.140	0.0	0.000	0.0	0.0	3.8	-0.000	0.000
S3	149.507	147.790	0.0	0.000	0.0	0.0	3.3	-0.000	0.000
S4	145.192	143.445	0.0	0.000	0.0	0.0	1.9	-0.000	0.000
S5	144.525	142.839	0.0	0.000	0.0	0.0	9.0	0.000	0.000
S6	142.360	140.472	0.0	0.000	0.0	0.1	14.2	-0.000	0.000
S7	142.211	139.802	0.0	0.000	0.0	0.2	0.0	-0.000	0.000
S7A	142.141	139.795	0.0	0.000	0.0	0.2	0.0	-0.000	0.000
S9	141.594	139.669	0.0	0.000	0.0	0.3	0.0	-0.000	0.000
S9A	141.594	139.670	0.0	0.000	0.0	0.2	14.8	-0.000	0.000

A %% indicates water lost from the system.

***** Link data *****

Link Reference	D/S Node	Pipe Len (m)	Pipe Hgt (mm)	Sed Dpth (mm)	P.Full Flow (m3/s)	< Upstream				> Downstream				>		
						Invert Level (m AD)	Max Depth (m)	Max Flow (m3/s)	Max Vel (m/s)	Total Flow (m3)	Invert Level (m AD)	Max Depth (m)	Max Flow (m3/s)		Max Vel (m/s)	Total Flow (m3)
S10.1	OF					139.521	0.128	0.012		66.5	139.521	0.000	0.012		66.5	
S2.1	S3	22	150	0	0.057	150.117	0.023	0.001	0.405	3.8	147.839	0.023	0.001	0.405	3.8	
S3.1	S4	42	225	0	0.165	147.764	0.026	0.001	0.501	7.1	143.487	0.026	0.001	0.500	7.1	
S4.1	S5	6	300	0	0.353	143.412	0.033	0.002	0.387	9.0	142.803	0.036	0.002	0.340	9.0	
S5.1	S6	27	300	0	0.329	142.803	0.036	0.003	0.679	18.0	140.421	0.051	0.003	0.414	18.0	
S6.1	S7	8	300	0	0.108	140.421	0.051	0.006	0.741	32.2	140.340	0.051	0.006	0.741	32.2	
S7.1	S9	48	900	0	1.106	139.740	0.062	0.006	0.309	32.2	139.591	0.078	0.006	0.217	32.2	
S7A.1	S9A	48	900	0	1.110	139.750	0.045	-0.000	-0.000	0.0	139.600	0.070	-0.000	-0.004	0.0	
S9.1	S10	7	450	0	0.323	139.591	0.078	0.008	0.454	46.9	139.521	0.128	0.008	0.278	46.9	
S9A.1	S9	2	450	0	0.180	139.600	0.070	0.003	0.168	14.8	139.591	0.078	0.003	0.143	14.8	

+ after total flow indicates a conduit surcharged by flow and depth at that end.

x after total flow indicates a conduit surcharged by depth only at that end.

NOTE :

- (i) Maximum elevations, depths, volumes, velocities and discharges are selected from the values at each time increment and will be in general more extreme than the maximum values in the time varying results.
- (ii) Maximum elevations, velocities and discharges are not necessarily calculated at the same time.
- (iii) Maximum velocity is not calculated for a conduit unless the depth exceeds the base flow depth (by default, this is 5% of height for slopes <= 0.01, 10% otherwise, subject to a minimum of 0.02 m).

Start of run

configured for MS Windows

Produced on 2020-12-11 at 15:48

InfoWorks ICM SIM

Summary results from Simulation

Version 10.0.0.20012 (x64) dated May 2019

Licence Number - WS88880294PM

Message 253: Run finished for event 1.

Model network (version 11)

Event - 1 WS88880294PM Produced 2020-12-11 Pg 1

Summary results for event 1 - M1-480

Started at 0 day(s) 00:00:00. Run for 2000.00 min. (Requested simulation time 2000.00 min)

Files used:

Network: ...\\nnet131949#11.spb Model network (version 11)

State: ...1211_154826_initial.sp

Runoff: ...\\nnet131949#11.rpf Model network (version 11) (InfoWorks 10.0.0.20012(64bit))

Rainfall: ...133837eventiid26396.re M1-480 (OS): M5-60=20.0mm, r=0.40, AT=0.00km2 x1.00

DWF:

Inflows:

Levels:

RTC:

Results: ...\\sim133837.iwr

Total rainfall = 94.8 m3

Total runoff = 72.0 m3

Total inflow = 72.0 m3

Total outflow = 71.9 m3

Total lost = 0.0 m3

***** Node data *****

Node Reference	Ground Level (m AD)	Max Level (m AD)	Flood Volume (m3)	Flood Depth (m)	Flood Area (m2)	Max Stored (m3)	Inflow (m3)	Vol Balance (m3)	Vol Balance (%)
S10	141.700	139.635	0.0	0.000	0.0	0.4	21.2	0.000	0.000
S2	151.724	150.139	0.0	0.000	0.0	0.0	4.1	-0.000	0.000
S3	149.507	147.789	0.0	0.000	0.0	0.0	3.6	-0.000	0.000
S4	145.192	143.444	0.0	0.000	0.0	0.0	2.0	-0.000	0.000
S5	144.525	142.838	0.0	0.000	0.0	0.0	9.7	0.000	0.000
S6	142.360	140.467	0.0	0.000	0.0	0.1	15.4	-0.000	0.000
S7	142.211	139.799	0.0	0.000	0.0	0.2	0.0	-0.000	0.000
S7A	142.141	139.795	0.0	0.000	0.0	0.2	0.0	0.000	0.000
S9	141.594	139.661	0.0	0.000	0.0	0.2	0.0	-0.000	0.000
S9A	141.594	139.662	0.0	0.000	0.0	0.2	16.0	-0.000	0.000

A %% indicates water lost from the system.

***** Link data *****

Link Reference	D/S Node	Pipe Len (m)	Pipe Hgt (mm)	Sed Dpth (mm)	P.Full Flow (m3/s)	< Upstream				> Downstream				Total Flow (m3)	
						Invert Level (m AD)	Max Depth (m)	Max Flow (m3/s)	Max Vel (m/s)	Total Flow (m3)	Invert Level (m AD)	Max Depth (m)	Max Flow (m3/s)		Max Vel (m/s)
S10.1	OF					139.521	0.114	0.010		71.9	139.521	0.000	0.010		71.9
S2.1	S3	22	150	0	0.057	150.117	0.022	0.001	0.339	4.1	147.839	0.022	0.001	0.339	4.1
S3.1	S4	42	225	0	0.165	147.764	0.025	0.001	0.421	7.7	143.487	0.025	0.001	0.421	7.7
S4.1	S5	6	300	0	0.353	143.412	0.032	0.001	0.321	9.7	142.803	0.035	0.001	0.288	9.7
S5.1	S6	27	300	0	0.329	142.803	0.035	0.003	0.576	19.4	140.421	0.046	0.003	0.381	19.4
S6.1	S7	8	300	0	0.108	140.421	0.046	0.005	0.682	34.8	140.340	0.046	0.005	0.682	34.8
S7.1	S9	48	900	0	1.106	139.740	0.059	0.005	0.269	34.8	139.591	0.070	0.005	0.206	34.8
S7A.1	S9A	48	900	0	1.110	139.750	0.045	-0.000	-0.000	0.0	139.600	0.062	-0.000	-0.002	0.0
S9.1	S10	7	450	0	0.323	139.591	0.070	0.007	0.434	50.7	139.521	0.114	0.007	0.276	50.7
S9A.1	S9	2	450	0	0.180	139.600	0.062	0.002	0.164	16.0	139.591	0.070	0.002	0.136	16.0

+ after total flow indicates a conduit surcharged by flow and depth at that end.

x after total flow indicates a conduit surcharged by depth only at that end.

NOTE :

- (i) Maximum elevations, depths, volumes, velocities and discharges are selected from the values at each time increment and will be in general more extreme than the maximum values in the time varying results.
- (ii) Maximum elevations, velocities and discharges are not necessarily calculated at the same time.
- (iii) Maximum velocity is not calculated for a conduit unless the depth exceeds the base flow depth (by default, this is 5% of height for slopes <= 0.01, 10% otherwise, subject to a minimum of 0.02 m).

Start of run

configured for MS Windows

Produced on 2020-12-11 at 15:48

InfoWorks ICM SIM

Summary results from Simulation

Version 10.0.0.20012 (x64) dated May 2019

Licence Number - WS88880294PM

Message 253: Run finished for event 1.

Model network (version 11)

Event - 1 WS88880294PM Produced 2020-12-11 Pg 1

Summary results for event 1 - M1-600

Started at 0 day(s) 00:00:00. Run for 2000.00 min. (Requested simulation time 2000.00 min)

Files used:

Network: ...\\nnet131949#11.spb Model network (version 11)

State: ...1211_154826_initial.sp

Runoff: ...\\nnet131949#11.rpf Model network (version 11) (InfoWorks 10.0.0.20012(64bit))

Rainfall: ...133838eventiid14468.re M1-600 (OS): M5-60=20.0mm, r=0.40, AT=0.00km2 x1.00

DWF:

Inflows:

Levels:

RTC:

Results: ...\\sim133838.iwr

Total rainfall = 100.7 m3

Total runoff = 76.5 m3

Total inflow = 76.5 m3

Total outflow = 76.3 m3

Total lost = 0.0 m3

***** Node data *****

Node Reference	Ground Level (m AD)	Max Level (m AD)	Flood Volume (m3)	Flood Depth (m)	Flood Area (m2)	Max Stored (m3)	Inflow (m3)	Vol Balance (m3)	Vol Balance (%)
S10	141.700	139.626	0.0	0.000	0.0	0.4	22.5	-0.000	0.000
S2	151.724	150.139	0.0	0.000	0.0	0.0	4.3	-0.000	0.000
S3	149.507	147.789	0.0	0.000	0.0	0.0	3.8	-0.000	0.000
S4	145.192	143.444	0.0	0.000	0.0	0.0	2.2	-0.000	0.000
S5	144.525	142.837	0.0	0.000	0.0	0.0	10.3	0.000	0.000
S6	142.360	140.465	0.0	0.000	0.0	0.0	16.3	-0.000	0.000
S7	142.211	139.797	0.0	0.000	0.0	0.2	0.0	-0.000	0.000
S7A	142.141	139.795	0.0	0.000	0.0	0.2	0.0	-0.000	0.000
S9	141.594	139.657	0.0	0.000	0.0	0.2	0.0	-0.000	0.000
S9A	141.594	139.657	0.0	0.000	0.0	0.2	17.0	-0.000	0.000

A %% indicates water lost from the system.

***** Link data *****

Link Reference	D/S Node	Pipe Len (m)	Pipe Hgt (mm)	Sed Dpth (mm)	P.Full Flow (m3/s)	< Upstream				> Downstream				Total Flow (m3)	
						Invert Level (m AD)	Max Depth (m)	Max Flow (m3/s)	Max Vel (m/s)	Total Flow (m3)	Invert Level (m AD)	Max Depth (m)	Max Flow (m3/s)		Max Vel (m/s)
S10.1	OF					139.521	0.105	0.008		76.3	139.521	0.000	0.008		76.3
S2.1	S3	22	150	0	0.057	150.117	0.022	0.000	0.295	4.3	147.839	0.022	0.000	0.295	4.3
S3.1	S4	42	225	0	0.165	147.764	0.025	0.001	0.367	8.2	143.487	0.025	0.001	0.367	8.2
S4.1	S5	6	300	0	0.353	143.412	0.032	0.001	0.278	10.3	142.803	0.034	0.001	0.252	10.3
S5.1	S6	27	300	0	0.329	142.803	0.034	0.002	0.504	20.7	140.421	0.044	0.002	0.355	20.7
S6.1	S7	8	300	0	0.108	140.421	0.043	0.004	0.636	37.0	140.340	0.043	0.004	0.636	37.0
S7.1	S9	48	900	0	1.106	139.740	0.057	0.004	0.241	37.0	139.591	0.066	0.004	0.193	37.0
S7A.1	S9A	48	900	0	1.110	139.750	0.045	-0.000	-0.000	0.0	139.600	0.057	-0.000	-0.002	0.0
S9.1	S10	7	450	0	0.323	139.591	0.066	0.006	0.409	53.9	139.521	0.105	0.006	0.273	53.9
S9A.1	S9	2	450	0	0.180	139.600	0.057	0.002	0.156	17.0	139.591	0.066	0.002	0.129	17.0

+ after total flow indicates a conduit surcharged by flow and depth at that end.

x after total flow indicates a conduit surcharged by depth only at that end.

NOTE :

- (i) Maximum elevations, depths, volumes, velocities and discharges are selected from the values at each time increment and will be in general more extreme than the maximum values in the time varying results.
- (ii) Maximum elevations, velocities and discharges are not necessarily calculated at the same time.
- (iii) Maximum velocity is not calculated for a conduit unless the depth exceeds the base flow depth (by default, this is 5% of height for slopes <= 0.01, 10% otherwise, subject to a minimum of 0.02 m).

Start of run

configured for MS Windows

Produced on 2020-12-11 at 15:49

InfoWorks ICM SIM

Summary results from Simulation

Version 10.0.0.20012 (x64) dated May 2019

Licence Number - WS88880294PM

Message 253: Run finished for event 1.

Model network (version 11)

Event - 1 WS88880294PM Produced 2020-12-11 Pg 1

Summary results for event 1 - M1-720

Started at 0 day(s) 00:00:00. Run for 2000.00 min. (Requested simulation time 2000.00 min)

Files used:

Network: ...\\nnet131949#11.spb Model network (version 11)

State: ...1211_154826_initial.sp

Runoff: ...\\nnet131949#11.rpf Model network (version 11) (InfoWorks 10.0.0.20012(64bit))

Rainfall: ...133839eventiid91187.re M1-720 (0S): M5-60=20.0mm, r=0.40, AT=0.00km2 x1.00

DWF:

Inflows:

Levels:

RTC:

Results: ...\\sim133839.iwr

Total rainfall = 105.8 m3

Total runoff = 80.3 m3

Total inflow = 80.3 m3

Total outflow = 80.2 m3

Total lost = 0.0 m3

***** Node data *****

Node Reference	Ground Level (m AD)	Max Level (m AD)	Flood Volume (m3)	Flood Depth (m)	Flood Area (m2)	Max Stored (m3)	Inflow (m3)	Vol Balance (m3)	Vol Balance (%)
S10	141.700	139.617	0.0	0.000	0.0	0.3	23.6	-0.000	0.000
S2	151.724	150.139	0.0	0.000	0.0	0.0	4.6	-0.000	0.000
S3	149.507	147.789	0.0	0.000	0.0	0.0	4.0	-0.000	0.000
S4	145.192	143.444	0.0	0.000	0.0	0.0	2.3	-0.000	0.000
S5	144.525	142.837	0.0	0.000	0.0	0.0	10.8	0.000	0.000
S6	142.360	140.462	0.0	0.000	0.0	0.0	17.1	-0.000	0.000
S7	142.211	139.795	0.0	0.000	0.0	0.2	0.0	-0.000	0.000
S7A	142.141	139.795	0.0	0.000	0.0	0.2	0.0	-0.000	0.000
S9	141.594	139.653	0.0	0.000	0.0	0.2	0.0	-0.000	0.000
S9A	141.594	139.654	0.0	0.000	0.0	0.2	17.9	-0.000	0.000

A %% indicates water lost from the system.

***** Link data *****

Link Reference	D/S Node	Pipe Len (m)	Pipe Hgt (mm)	Sed Dpth (mm)	P.Full Flow (m3/s)	< Upstream				> Downstream				Total Flow (m3)	
						Invert Level (m AD)	Max Depth (m)	Max Flow (m3/s)	Max Vel (m/s)	Total Flow (m3)	Invert Level (m AD)	Max Depth (m)	Max Flow (m3/s)		Max Vel (m/s)
S10.1	OF					139.521	0.096	0.007		80.2	139.521	0.000	0.007		80.2
S2.1	S3	22	150	0	0.057	150.117	0.022	0.000	0.262	4.6	147.839	0.022	0.000	0.262	4.6
S3.1	S4	42	225	0	0.165	147.764	0.025	0.001	0.327	8.6	143.487	0.025	0.001	0.327	8.6
S4.1	S5	6	300	0	0.353	143.412	0.032	0.001	0.246	10.8	142.803	0.034	0.001	0.225	10.8
S5.1	S6	27	300	0	0.329	142.803	0.034	0.002	0.450	21.7	140.421	0.041	0.002	0.335	21.7
S6.1	S7	8	300	0	0.108	140.421	0.041	0.004	0.600	38.8	140.340	0.041	0.004	0.600	38.8
S7.1	S9	48	900	0	1.106	139.740	0.055	0.004	0.219	38.8	139.591	0.062	0.004	0.184	38.8
S7A.1	S9A	48	900	0	1.110	139.750	0.045	-0.000	-0.000	0.0	139.600	0.054	-0.000	-0.002	0.0
S9.1	S10	7	450	0	0.323	139.591	0.062	0.005	0.387	56.6	139.521	0.096	0.005	0.275	56.6
S9A.1	S9	2	450	0	0.180	139.600	0.054	0.002	0.150	17.8	139.591	0.062	0.002	0.122	17.8

+ after total flow indicates a conduit surcharged by flow and depth at that end.

x after total flow indicates a conduit surcharged by depth only at that end.

NOTE :

- (i) Maximum elevations, depths, volumes, velocities and discharges are selected from the values at each time increment and will be in general more extreme than the maximum values in the time varying results.
- (ii) Maximum elevations, velocities and discharges are not necessarily calculated at the same time.
- (iii) Maximum velocity is not calculated for a conduit unless the depth exceeds the base flow depth (by default, this is 5% of height for slopes <= 0.01, 10% otherwise, subject to a minimum of 0.02 m).

Start of run

configured for MS Windows

Produced on 2020-12-11 at 15:49

InfoWorks ICM SIM

Summary results from Simulation

Version 10.0.0.20012 (x64) dated May 2019

Licence Number - WS88880294PM

Message 253: Run finished for event 1.

Model network (version 11)

Event - 1 WS88880294PM Produced 2020-12-11 Pg 1

Summary results for event 1 - M1-840

Started at 0 day(s) 00:00:00. Run for 2000.00 min. (Requested simulation time 2000.00 min)

Files used:

Network: ...\\nnet131949#11.spb Model network (version 11)

State: ...1211_154826_initial.sp

Runoff: ...\\nnet131949#11.rpf Model network (version 11) (InfoWorks 10.0.0.20012(64bit))

Rainfall: ...133840eventiid54931.re M1-840 (OS): M5-60=20.0mm, r=0.40, AT=0.00km2 x1.00

DWF:

Inflows:

Levels:

RTC:

Results: ...\\sim133840.iwr

Total rainfall = 110.3 m3

Total runoff = 83.7 m3

Total inflow = 83.7 m3

Total outflow = 83.6 m3

Total lost = 0.0 m3

***** Node data *****

Node Reference	Ground Level (m AD)	Max Level (m AD)	Flood Volume (m3)	Flood Depth (m)	Flood Area (m2)	Max Stored (m3)	Inflow (m3)	Vol Balance (m3)	Vol Balance (%)
S10	141.700	139.607	0.0	0.000	0.0	0.3	24.6	-0.000	0.000
S2	151.724	150.139	0.0	0.000	0.0	0.0	4.8	-0.000	0.000
S3	149.507	147.789	0.0	0.000	0.0	0.0	4.2	-0.000	0.000
S4	145.192	143.444	0.0	0.000	0.0	0.0	2.4	-0.000	0.000
S5	144.525	142.836	0.0	0.000	0.0	0.0	11.3	0.000	0.000
S6	142.360	140.461	0.0	0.000	0.0	0.0	17.9	-0.000	0.000
S7	142.211	139.794	0.0	0.000	0.0	0.2	0.0	-0.000	0.000
S7A	142.141	139.795	0.0	0.000	0.0	0.2	0.0	0.000	0.000
S9	141.594	139.650	0.0	0.000	0.0	0.2	0.0	-0.000	0.000
S9A	141.594	139.651	0.0	0.000	0.0	0.2	18.7	-0.000	0.000

A %% indicates water lost from the system.

***** Link data *****

Link Reference	D/S Node	Pipe Len (m)	Pipe Hgt (mm)	Sed Dpth (mm)	P.Full Flow (m3/s)	< Upstream				> Downstream				Total Flow (m3)	
						Invert Level (m AD)	Max Depth (m)	Max Flow (m3/s)	Max Vel (m/s)	Total Flow (m3)	Invert Level (m AD)	Max Depth (m)	Max Flow (m3/s)		Max Vel (m/s)
S10.1	OF					139.521	0.086	0.007		83.6	139.521	0.000	0.007		83.6
S2.1	S3	22	150	0	0.057	150.117	0.022	0.000	0.237	4.8	147.839	0.022	0.000	0.237	4.8
S3.1	S4	42	225	0	0.165	147.764	0.025	0.001	0.296	8.9	143.487	0.025	0.001	0.296	8.9
S4.1	S5	6	300	0	0.353	143.412	0.032	0.001	0.222	11.3	142.803	0.033	0.001	0.205	11.3
S5.1	S6	27	300	0	0.329	142.803	0.033	0.002	0.409	22.6	140.421	0.040	0.002	0.318	22.6
S6.1	S7	8	300	0	0.108	140.421	0.040	0.003	0.570	40.5	140.340	0.040	0.003	0.570	40.5
S7.1	S9	48	900	0	1.106	139.740	0.054	0.003	0.201	40.5	139.591	0.059	0.003	0.176	40.5
S7A.1	S9A	48	900	0	1.110	139.750	0.045	-0.000	-0.000	0.0	139.600	0.051	0.000	-0.001	0.0
S9.1	S10	7	450	0	0.323	139.591	0.059	0.005	0.369	59.0	139.521	0.086	0.005	0.273	59.0
S9A.1	S9	2	450	0	0.180	139.600	0.051	0.001	0.144	18.6	139.591	0.059	0.001	0.116	18.6

+ after total flow indicates a conduit surcharged by flow and depth at that end.

x after total flow indicates a conduit surcharged by depth only at that end.

NOTE :

- (i) Maximum elevations, depths, volumes, velocities and discharges are selected from the values at each time increment and will be in general more extreme than the maximum values in the time varying results.
- (ii) Maximum elevations, velocities and discharges are not necessarily calculated at the same time.
- (iii) Maximum velocity is not calculated for a conduit unless the depth exceeds the base flow depth (by default, this is 5% of height for slopes <= 0.01, 10% otherwise, subject to a minimum of 0.02 m).

Start of run

configured for MS Windows

Produced on 2020-12-11 at 15:49

InfoWorks ICM SIM

Summary results from Simulation

Version 10.0.0.20012 (x64) dated May 2019

Licence Number - WS88880294PM

Message 253: Run finished for event 1.

Model network (version 11)

Event - 1 WS88880294PM Produced 2020-12-11 Pg 1

Summary results for event 1 - M1-960

Started at 0 day(s) 00:00:00. Run for 2000.00 min. (Requested simulation time 2000.00 min)

Files used:

Network: ...\\nnet131949#11.spb Model network (version 11)

State: ...1211_154826_initial.sp

Runoff: ...\\nnet131949#11.rpf Model network (version 11) (InfoWorks 10.0.0.20012(64bit))

Rainfall: ...133841eventiid33945.re M1-960 (0S): M5-60=20.0mm, r=0.40, AT=0.00km2 x1.00

DWF:

Inflows:

Levels:

RTC:

Results: ...\\sim133841.iwr

Total rainfall = 114.3 m3

Total runoff = 86.8 m3

Total inflow = 86.8 m3

Total outflow = 86.7 m3

Total lost = 0.0 m3

***** Node data *****

Node Reference	Ground Level (m AD)	Max Level (m AD)	Flood Volume (m3)	Flood Depth (m)	Flood Area (m2)	Max Stored (m3)	Inflow (m3)	Vol Balance (m3)	Vol Balance (%)
S10	141.700	139.599	0.0	0.000	0.0	0.3	25.5	0.000	0.000
S2	151.724	150.138	0.0	0.000	0.0	0.0	4.9	-0.000	0.000
S3	149.507	147.788	0.0	0.000	0.0	0.0	4.3	-0.000	0.000
S4	145.192	143.443	0.0	0.000	0.0	0.0	2.5	-0.000	0.000
S5	144.525	142.836	0.0	0.000	0.0	0.0	11.7	0.000	0.000
S6	142.360	140.459	0.0	0.000	0.0	0.0	18.5	-0.000	0.000
S7	142.211	139.794	0.0	0.000	0.0	0.2	0.0	-0.000	0.000
S7A	142.141	139.795	0.0	0.000	0.0	0.2	0.0	0.000	0.000
S9	141.594	139.649	0.0	0.000	0.0	0.2	0.0	-0.000	0.000
S9A	141.594	139.650	0.0	0.000	0.0	0.2	19.3	-0.000	0.000

A %% indicates water lost from the system.

***** Link data *****

Link Reference	D/S Node	Pipe Len (m)	Pipe Hgt (mm)	Sed Dpth (mm)	P.Full Flow (m3/s)	< Upstream				> Downstream				Total Flow (m3)	
						Invert Level (m AD)	Max Depth (m)	Max Flow (m3/s)	Max Vel (m/s)	Total Flow (m3)	Invert Level (m AD)	Max Depth (m)	Max Flow (m3/s)		Max Vel (m/s)
S10.1	OF					139.521	0.078	0.006		86.7	139.521	0.000	0.006		86.7
S2.1	S3	22	150	0	0.057	150.117	0.021	0.000	0.217	4.9	147.839	0.021	0.000	0.217	4.9
S3.1	S4	42	225	0	0.165	147.764	0.024	0.001	0.271	9.3	143.487	0.024	0.001	0.271	9.3
S4.1	S5	6	300	0	0.353	143.412	0.031	0.001	0.202	11.7	142.803	0.033	0.001	0.188	11.7
S5.1	S6	27	300	0	0.329	142.803	0.033	0.002	0.376	23.5	140.421	0.038	0.002	0.304	23.5
S6.1	S7	8	300	0	0.108	140.421	0.038	0.003	0.544	42.0	140.340	0.038	0.003	0.544	42.0
S7.1	S9	48	900	0	1.106	139.740	0.054	0.003	0.187	42.0	139.591	0.058	0.003	0.167	42.0
S7A.1	S9A	48	900	0	1.110	139.750	0.045	0.000	0.000	0.0	139.600	0.050	0.000	0.001	0.0
S9.1	S10	7	450	0	0.323	139.591	0.058	0.004	0.351	61.2	139.521	0.078	0.004	0.273	61.2
S9A.1	S9	2	450	0	0.180	139.600	0.050	0.001	0.138	19.3	139.591	0.058	0.001	0.111	19.3

+ after total flow indicates a conduit surcharged by flow and depth at that end.

x after total flow indicates a conduit surcharged by depth only at that end.

NOTE :

- (i) Maximum elevations, depths, volumes, velocities and discharges are selected from the values at each time increment and will be in general more extreme than the maximum values in the time varying results.
- (ii) Maximum elevations, velocities and discharges are not necessarily calculated at the same time.
- (iii) Maximum velocity is not calculated for a conduit unless the depth exceeds the base flow depth (by default, this is 5% of height for slopes <= 0.01, 10% otherwise, subject to a minimum of 0.02 m).

SIMULATION RESULTS

1 in 30 year RETURN PERIOD

Start of run

configured for MS Windows

Produced on 2020-12-11 at 15:41

InfoWorks ICM SIM

Summary results from Simulation

Version 10.0.0.20012 (x64) dated May 2019

Licence Number - WS88880294PM

Message 253: Run finished for event 1.

Model network (version 11)

Event - 1 WS88880294PM Produced 2020-12-11 Pg 1

Summary results for event 1 - M30-45

Started at 0 day(s) 00:00:00. Run for 900.00 min. (Requested simulation time 900.00 min)

Files used:

Network: ...\\nnet131949#11.spb Model network (version 11)

State: ...1211_154101_initial.sp

Runoff: ...\\nnet131949#11.rpf Model network (version 11) (InfoWorks 10.0.0.20012(64bit))

Rainfall: ...im133753eventiid508.re M30-45 (OS): M5-60=20.0mm, r=0.20, AT=0.01km2 x1.00

DWF:

Inflows:

Levels:

RTC:

Results: ...\\sim133753.iwr

Total rainfall = 107.8 m3

Total runoff = 84.9 m3

Total inflow = 84.9 m3

Total outflow = 84.8 m3

Total lost = 0.0 m3

***** Node data *****

Node Reference	Ground Level (m AD)	Max Level (m AD)	Flood Volume (m3)	Flood Depth (m)	Flood Area (m2)	Max Stored (m3)	Inflow (m3)	Vol Balance (m3)	Vol Balance (%)
S10	141.700	140.106	0.0	0.000	0.0	2.0	24.9	-0.000	0.000
S2	151.724	150.156	0.0	0.000	0.0	0.0	4.8	-0.000	0.000
S3	149.507	147.810	0.0	0.000	0.0	0.1	4.2	-0.000	0.000
S4	145.192	143.463	0.0	0.000	0.0	0.1	2.4	-0.000	0.000
S5	144.525	142.870	0.0	0.000	0.0	0.1	11.5	0.000	0.000
S6	142.360	140.569	0.0	0.000	0.0	0.2	18.1	-0.000	0.000
S7	142.211	140.107	0.0	0.000	0.0	1.3	0.0	0.000	0.000
S7A	142.141	140.107	0.0	0.000	0.0	1.2	0.0	-0.000	0.000
S9	141.594	140.107	0.0	0.000	0.0	1.8	0.0	-0.000	0.000
S9A	141.594	140.107	0.0	0.000	0.0	1.8	18.9	-0.000	0.000

A %% indicates water lost from the system.

***** Link data *****

Link Reference	D/S Node	Pipe Len (m)	Pipe Hgt (mm)	Sed Dpth (mm)	P.Full Flow (m3/s)	< Upstream				> Downstream					Total Flow (m3)
						Invert Level (m AD)	Max Depth (m)	Max Flow (m3/s)	Max Vel (m/s)	Total Flow (m3)	Invert Level (m AD)	Max Depth (m)	Max Flow (m3/s)	Max Vel (m/s)	
S10.1	OF					139.521	0.585	0.026		84.8	139.521	0.000	0.026		84.8
S2.1	S3	22	150	0	0.057	150.117	0.039	0.006	1.708	4.8	147.839	0.039	0.006	1.708	4.8
S3.1	S4	42	225	0	0.165	147.764	0.046	0.012	2.011	9.1	143.487	0.046	0.012	2.008	9.1
S4.1	S5	6	300	0	0.353	143.412	0.051	0.015	1.868	11.5	142.803	0.067	0.015	1.240	11.5
S5.1	S6	27	300	0	0.329	142.803	0.067	0.029	2.502	22.9	140.421	0.148	0.029	0.844	22.9
S6.1	S7	8	300	0	0.108	140.421	0.148	0.052	1.498	41.0	140.340	0.148	0.052	1.495	41.0
S7.1	S9	48	900	0	1.106	139.740	0.367	0.050	0.701	41.0	139.591	0.516	0.020	0.224	41.0
S7A.1	S9A	48	900	0	1.110	139.750	0.357	-0.003	-0.064	0.0	139.600	0.507	-0.034	-0.185	0.0
S9.1	S10	7	450	0	0.323	139.591	0.516	0.025	0.498	59.8x	139.521	0.585	0.025	0.308	59.8x
S9A.1	S9	2	450	0	0.180	139.600	0.507	-0.013	0.255	18.9x	139.591	0.516	-0.014	0.245	18.9x

+ after total flow indicates a conduit surcharged by flow and depth at that end.

x after total flow indicates a conduit surcharged by depth only at that end.

NOTE :

- (i) Maximum elevations, depths, volumes, velocities and discharges are selected from the values at each time increment and will be in general more extreme than the maximum values in the time varying results.
- (ii) Maximum elevations, velocities and discharges are not necessarily calculated at the same time.
- (iii) Maximum velocity is not calculated for a conduit unless the depth exceeds the base flow depth (by default, this is 5% of height for slopes <= 0.01, 10% otherwise, subject to a minimum of 0.02 m).

InfoWorks ICM SIM

Summary results from Simulation

Version 10.0.0.20012 (x64) dated May 2019

Licence Number - WS88880294PM

Message 253: Run finished for event 1.

Model network (version 11)

Event - 1 WS88880294PM Produced 2020-12-11 Pg 1

Summary results for event 1 - M30-60

Started at 0 day(s) 00:00:00. Run for 900.00 min. (Requested simulation time 900.00 min)

Files used:

Network: ...\\nnet131949#11.spb Model network (version 11)

State: ...\\1211_154101_initial.sp

Runoff: ...\\nnet131949#11.rpf Model network (version 11) (InfoWorks 10.0.0.20012(64bit))

Rainfall: ...\\133754eventiid96394.re M30-60 (0S): M5-60=20.0mm, r=0.20, AT=0.01km2 x1.00

DWF:

Inflows:

Levels:

RTC:

Results: ...\\sim133754.iwr

Total rainfall = 122.3 m3

Total runoff = 96.3 m3

Total inflow = 96.3 m3

Total outflow = 96.2 m3

Total lost = 0.0 m3

***** Node data *****

Node Reference	Ground Level (m AD)	Max Level (m AD)	Flood Volume (m3)	Flood Depth (m)	Flood Area (m2)	Max Stored (m3)	Inflow (m3)	Vol Balance (m3)	Vol Balance (%)
S10	141.700	140.116	0.0	0.000	0.0	2.1	28.3	-0.000	0.000
S2	151.724	150.154	0.0	0.000	0.0	0.0	5.5	-0.000	0.000
S3	149.507	147.808	0.0	0.000	0.0	0.0	4.8	-0.000	0.000
S4	145.192	143.461	0.0	0.000	0.0	0.1	2.7	-0.000	0.000
S5	144.525	142.867	0.0	0.000	0.0	0.1	13.0	0.000	0.000
S6	142.360	140.560	0.0	0.000	0.0	0.2	20.5	-0.000	0.000
S7	142.211	140.117	0.0	0.000	0.0	1.3	0.0	0.000	0.000
S7A	142.141	140.117	0.0	0.000	0.0	1.3	0.0	-0.000	0.000
S9	141.594	140.117	0.0	0.000	0.0	1.8	0.0	-0.000	0.000
S9A	141.594	140.117	0.0	0.000	0.0	1.8	21.5	-0.000	0.000

A %% indicates water lost from the system.

***** Link data *****

Link Reference	D/S Node	Pipe Len (m)	Pipe Hgt (mm)	Sed Dpth (mm)	P.Full Flow (m3/s)	< Upstream				> Downstream					> Total Flow (m3)
						Invert Level (m AD)	Max Depth (m)	Max Flow (m3/s)	Max Vel (m/s)	Total Flow (m3)	Invert Level (m AD)	Max Depth (m)	Max Flow (m3/s)	Max Vel (m/s)	
S10.1	OF					139.521	0.595	0.026		96.2	139.521	0.000	0.026		96.2
S2.1	S3	22	150	0	0.057	150.117	0.037	0.006	1.622	5.5	147.839	0.037	0.006	1.621	5.5
S3.1	S4	42	225	0	0.165	147.764	0.044	0.010	1.913	10.3	143.487	0.044	0.010	1.909	10.3
S4.1	S5	6	300	0	0.353	143.412	0.049	0.013	1.762	13.0	142.803	0.064	0.013	1.184	13.0
S5.1	S6	27	300	0	0.329	142.803	0.064	0.026	2.388	26.0	140.421	0.139	0.026	0.819	26.0
S6.1	S7	8	300	0	0.108	140.421	0.139	0.047	1.457	46.6	140.340	0.139	0.047	1.455	46.6
S7.1	S9	48	900	0	1.106	139.740	0.377	0.045	0.656	46.6	139.591	0.526	0.019	0.223	46.6
S7A.1	S9A	48	900	0	1.110	139.750	0.367	-0.002	-0.056	0.0	139.600	0.517	-0.030	-0.155	0.0
S9.1	S10	7	450	0	0.323	139.591	0.526	0.024	0.498	67.9x	139.521	0.595	0.025	0.329	67.9x
S9A.1	S9	2	450	0	0.180	139.600	0.517	0.012	0.255	21.4x	139.591	0.526	0.012	0.245	21.4x

+ after total flow indicates a conduit surcharged by flow and depth at that end.

x after total flow indicates a conduit surcharged by depth only at that end.

NOTE :

- (i) Maximum elevations, depths, volumes, velocities and discharges are selected from the values at each time increment and will be in general more extreme than the maximum values in the time varying results.
- (ii) Maximum elevations, velocities and discharges are not necessarily calculated at the same time.
- (iii) Maximum velocity is not calculated for a conduit unless the depth exceeds the base flow depth (by default, this is 5% of height for slopes <= 0.01, 10% otherwise, subject to a minimum of 0.02 m).

InfoWorks ICM SIM

Summary results from Simulation

Version 10.0.0.20012 (x64) dated May 2019

Licence Number - WS88880294PM

Message 253: Run finished for event 1.

Model network (version 11)

Event - 1 WS88880294PM Produced 2020-12-11 Pg 1

Summary results for event 1 - M30-90

Started at 0 day(s) 00:00:00. Run for 900.00 min. (Requested simulation time 900.00 min)

Files used:

Network: ...\\nnet131949#11.spb Model network (version 11)

State: ...1211_154101_initial.sp

Runoff: ...\\nnet131949#11.rpf Model network (version 11) (InfoWorks 10.0.0.20012(64bit))

Rainfall: ...133755eventiid52885.re M30-90 (OS): M5-60=20.0mm, r=0.20, AT=0.01km2 x1.00

DWF:

Inflows:

Levels:

RTC:

Results: ...\\sim133755.iwr

Total rainfall = 146.8 m3

Total runoff = 115.6 m3

Total inflow = 115.6 m3

Total outflow = 115.4 m3

Total lost = 0.0 m3

***** Node data *****

Node	Ground Level	Max Level	Flood Volume	Flood Depth	Flood Area	Max Stored	Inflow	Vol Balance	Vol Balance
Reference	(m AD)	(m AD)	(m3)	(m)	(m2)	(m3)	(m3)	(m3)	(%)
S10	141.700	140.114	0.0	0.000	0.0	2.1	34.0	-0.000	0.000
S2	151.724	150.152	0.0	0.000	0.0	0.0	6.6	-0.000	0.000
S3	149.507	147.805	0.0	0.000	0.0	0.0	5.8	-0.000	0.000
S4	145.192	143.458	0.0	0.000	0.0	0.1	3.3	-0.000	0.000
S5	144.525	142.863	0.0	0.000	0.0	0.1	15.6	0.000	0.000
S6	142.360	140.547	0.0	0.000	0.0	0.1	24.6	-0.000	0.000
S7	142.211	140.115	0.0	0.000	0.0	1.3	0.0	0.000	0.000
S7A	142.141	140.115	0.0	0.000	0.0	1.3	0.0	0.000	0.000
S9	141.594	140.115	0.0	0.000	0.0	1.8	0.0	-0.000	0.000
S9A	141.594	140.115	0.0	0.000	0.0	1.8	25.7	-0.000	0.000

A %% indicates water lost from the system.

***** Link data *****

Link	D/S	Pipe	Pipe	Sed	P.Full	< Upstream				> Downstream				>
						Invert	Max	Max	Max	Total	Invert	Max	Max	Total
Reference	Node	Len	Hgt	Dpth	Flow	Level	Depth	Flow	Vel	Flow	Level	Depth	Flow	Vel
		(m)	(mm)	(mm)	(m3/s)	(m AD)	(m)	(m3/s)	(m/s)	(m3)	(m AD)	(m)	(m3/s)	(m/s)
S10.1	OF					139.521	0.593	0.026		115.4	139.521	0.000	0.026	115.4
S2.1	S3	22	150	0	0.057	150.117	0.035	0.005	1.475	6.6	147.839	0.035	0.005	1.475
S3.1	S4	42	225	0	0.165	147.764	0.041	0.009	1.746	12.3	143.487	0.041	0.009	1.744
S4.1	S5	6	300	0	0.353	143.412	0.046	0.011	1.584	15.6	142.803	0.060	0.011	1.089
S5.1	S6	27	300	0	0.329	142.803	0.060	0.022	2.195	31.2	140.421	0.126	0.022	0.777
S6.1	S7	8	300	0	0.108	140.421	0.126	0.039	1.385	55.9	140.340	0.125	0.039	1.383
S7.1	S9	48	900	0	1.106	139.740	0.375	0.037	0.597	55.9	139.591	0.524	0.017	0.223
S7A.1	S9A	48	900	0	1.110	139.750	0.365	-0.002	-0.042	0.0	139.600	0.515	-0.023	0.128
S9.1	S10	7	450	0	0.323	139.591	0.524	0.023	0.492	81.5x	139.521	0.593	0.024	0.304
S9A.1	S9	2	450	0	0.180	139.600	0.515	0.010	0.249	25.7x	139.591	0.524	0.011	0.240

+ after total flow indicates a conduit surcharged by flow and depth at that end.

x after total flow indicates a conduit surcharged by depth only at that end.

NOTE :

- (i) Maximum elevations, depths, volumes, velocities and discharges are selected from the values at each time increment and will be in general more extreme than the maximum values in the time varying results.
- (ii) Maximum elevations, velocities and discharges are not necessarily calculated at the same time.
- (iii) Maximum velocity is not calculated for a conduit unless the depth exceeds the base flow depth (by default, this is 5% of height for slopes <= 0.01, 10% otherwise, subject to a minimum of 0.02 m).

InfoWorks ICM SIM

Summary results from Simulation

Version 10.0.0.20012 (x64) dated May 2019

Licence Number - WS88880294PM

Message 253: Run finished for event 1.

Model network (version 11)

Event - 1 WS88880294PM Produced 2020-12-11 Pg 1

Summary results for event 1 - M30-120

Started at 0 day(s) 00:00:00. Run for 900.00 min. (Requested simulation time 900.00 min)

Files used:

Network: ...\\nnet131949#11.spb Model network (version 11)

State: ...1211_154101_initial.sp

Runoff: ...\\nnet131949#11.rpf Model network (version 11) (InfoWorks 10.0.0.20012(64bit))

Rainfall: ...133756eventiid53599.re M30-120 (0S): M5-60=20.0mm, r=0.20, AT=0.01km2 x1.00

DWF:

Inflows:

Levels:

RTC:

Results: ...\\sim133756.iwr

Total rainfall = 165.6 m3

Total runoff = 130.4 m3

Total inflow = 130.4 m3

Total outflow = 130.3 m3

Total lost = 0.0 m3

***** Node data *****

Node Reference	Ground Level (m AD)	Max Level (m AD)	Flood Volume (m3)	Flood Depth (m)	Flood Area (m2)	Max Stored (m3)	Inflow (m3)	Vol Balance (m3)	Vol Balance (%)
S10	141.700	140.095	0.0	0.000	0.0	2.0	38.3	-0.000	0.000
S2	151.724	150.150	0.0	0.000	0.0	0.0	7.4	0.000	0.000
S3	149.507	147.803	0.0	0.000	0.0	0.0	6.5	-0.000	0.000
S4	145.192	143.456	0.0	0.000	0.0	0.0	3.7	0.000	0.000
S5	144.525	142.860	0.0	0.000	0.0	0.1	17.6	0.000	0.000
S6	142.360	140.537	0.0	0.000	0.0	0.1	27.8	-0.000	0.000
S7	142.211	140.096	0.0	0.000	0.0	1.2	0.0	-0.000	0.000
S7A	142.141	140.096	0.0	0.000	0.0	1.2	0.0	0.000	0.000
S9	141.594	140.095	0.0	0.000	0.0	1.8	0.0	-0.000	0.000
S9A	141.594	140.095	0.0	0.000	0.0	1.7	29.0	-0.000	0.000

A %% indicates water lost from the system.

***** Link data *****

Link Reference	D/S Node	Pipe Len (m)	Pipe Hgt (mm)	Sed Dpth (mm)	P.Full Flow (m3/s)	< Upstream				> Downstream				Total Flow (m3)	
						Invert Level (m AD)	Max Depth (m)	Max Flow (m3/s)	Max Vel (m/s)	Total Flow (m3)	Invert Level (m AD)	Max Depth (m)	Max Flow (m3/s)		Max Vel (m/s)
S10.1	OF					139.521	0.574	0.026		130.3	139.521	0.000	0.026		130.3
S2.1	S3	22	150	0	0.057	150.117	0.033	0.004	1.361	7.4	147.839	0.033	0.004	1.361	7.4
S3.1	S4	42	225	0	0.165	147.764	0.039	0.007	1.616	13.9	143.487	0.039	0.007	1.614	13.9
S4.1	S5	6	300	0	0.353	143.412	0.044	0.009	1.447	17.6	142.803	0.057	0.009	1.015	17.6
S5.1	S6	27	300	0	0.329	142.803	0.056	0.019	2.043	35.2	140.421	0.116	0.019	0.744	35.2
S6.1	S7	8	300	0	0.108	140.421	0.116	0.033	1.327	63.0	140.340	0.116	0.033	1.326	63.0
S7.1	S9	48	900	0	1.106	139.740	0.356	0.032	0.562	63.0	139.591	0.504	0.016	0.223	63.1
S7A.1	S9A	48	900	0	1.110	139.750	0.346	-0.002	-0.036	0.0	139.600	0.495	-0.018	0.094	0.0
S9.1	S10	7	450	0	0.323	139.591	0.504	0.023	0.472	92.0x	139.521	0.574	0.023	0.291	92.0x
S9A.1	S9	2	450	0	0.180	139.600	0.495	0.010	0.220	29.0x	139.591	0.504	0.011	0.208	29.0x

+ after total flow indicates a conduit surcharged by flow and depth at that end.

x after total flow indicates a conduit surcharged by depth only at that end.

NOTE :

- (i) Maximum elevations, depths, volumes, velocities and discharges are selected from the values at each time increment and will be in general more extreme than the maximum values in the time varying results.
- (ii) Maximum elevations, velocities and discharges are not necessarily calculated at the same time.
- (iii) Maximum velocity is not calculated for a conduit unless the depth exceeds the base flow depth (by default, this is 5% of height for slopes <= 0.01, 10% otherwise, subject to a minimum of 0.02 m).

Start of run

configured for MS Windows

Produced on 2020-12-11 at 15:41

InfoWorks ICM SIM

Summary results from Simulation

Version 10.0.0.20012 (x64) dated May 2019

Licence Number - WS88880294PM

Message 253: Run finished for event 1.

Model network (version 11)

Event - 1 WS88880294PM Produced 2020-12-11 Pg 1

Summary results for event 1 - M30-180

Started at 0 day(s) 00:00:00. Run for 900.00 min. (Requested simulation time 900.00 min)

Files used:

Network: ...\\nnet131949#11.spb Model network (version 11)

State: ...1211_154101_initial.sp

Runoff: ...\\nnet131949#11.rpf Model network (version 11) (InfoWorks 10.0.0.20012(64bit))

Rainfall: ...133757eventiid33633.re M30-180 (OS): M5-60=20.0mm, r=0.20, AT=0.01km2 x1.00

DWF:

Inflows:

Levels:

RTC:

Results: ...\\sim133757.iwr

Total rainfall = 194.5 m3

Total runoff = 153.2 m3

Total inflow = 153.2 m3

Total outflow = 153.1 m3

Total lost = 0.0 m3

***** Node data *****

Node Reference	Ground Level (m AD)	Max Level (m AD)	Flood Volume (m3)	Flood Depth (m)	Flood Area (m2)	Max Stored (m3)	Inflow (m3)	Vol Balance (m3)	Vol Balance (%)
S10	141.700	140.038	0.0	0.000	0.0	1.8	45.0	0.000	0.000
S2	151.724	150.148	0.0	0.000	0.0	0.0	8.7	0.000	0.000
S3	149.507	147.800	0.0	0.000	0.0	0.0	7.6	0.000	0.000
S4	145.192	143.454	0.0	0.000	0.0	0.0	4.4	-0.000	0.000
S5	144.525	142.855	0.0	0.000	0.0	0.1	20.7	0.000	0.000
S6	142.360	140.524	0.0	0.000	0.0	0.1	32.7	-0.000	0.000
S7	142.211	140.039	0.0	0.000	0.0	1.0	0.0	-0.000	0.000
S7A	142.141	140.039	0.0	0.000	0.0	1.0	0.0	-0.000	0.000
S9	141.594	140.039	0.0	0.000	0.0	1.6	0.0	-0.000	0.000
S9A	141.594	140.039	0.0	0.000	0.0	1.5	34.1	-0.000	0.000

A %% indicates water lost from the system.

***** Link data *****

Link Reference	D/S Node	Pipe Len (m)	Pipe Hgt (mm)	Sed Dpth (mm)	P.Full Flow (m3/s)	< Upstream				> Downstream					Total Flow (m3)
						Invert Level (m AD)	Max Depth (m)	Max Flow (m3/s)	Max Vel (m/s)	Total Flow (m3)	Invert Level (m AD)	Max Depth (m)	Max Flow (m3/s)	Max Vel (m/s)	
S10.1	OF					139.521	0.517	0.026		153.1	139.521	0.000	0.026		153.1
S2.1	S3	22	150	0	0.057	150.117	0.031	0.003	1.196	8.7	147.839	0.031	0.003	1.195	8.7
S3.1	S4	42	225	0	0.165	147.764	0.036	0.006	1.427	16.3	143.487	0.036	0.006	1.426	16.3
S4.1	S5	6	300	0	0.353	143.412	0.042	0.007	1.252	20.7	142.803	0.052	0.007	0.906	20.7
S5.1	S6	27	300	0	0.329	142.803	0.052	0.015	1.820	41.4	140.421	0.103	0.015	0.695	41.4
S6.1	S7	8	300	0	0.108	140.421	0.103	0.027	1.242	74.0	140.340	0.103	0.027	1.241	74.0
S7.1	S9	48	900	0	1.106	139.740	0.299	0.026	0.525	74.0	139.591	0.448	0.015	0.223	74.1
S7A.1	S9A	48	900	0	1.110	139.750	0.289	-0.001	-0.026	0.0	139.600	0.439	-0.012	0.093	0.0
S9.1	S10	7	450	0	0.323	139.591	0.448	0.023	0.471	108.1	139.521	0.517	0.023	0.294	108.1x
S9A.1	S9	2	450	0	0.180	139.600	0.439	0.010	0.217	34.1	139.591	0.448	0.010	0.206	34.1

+ after total flow indicates a conduit surcharged by flow and depth at that end.

x after total flow indicates a conduit surcharged by depth only at that end.

NOTE :

- (i) Maximum elevations, depths, volumes, velocities and discharges are selected from the values at each time increment and will be in general more extreme than the maximum values in the time varying results.
- (ii) Maximum elevations, velocities and discharges are not necessarily calculated at the same time.
- (iii) Maximum velocity is not calculated for a conduit unless the depth exceeds the base flow depth (by default, this is 5% of height for slopes <= 0.01, 10% otherwise, subject to a minimum of 0.02 m).

Start of run

configured for MS Windows

Produced on 2020-12-11 at 15:41

InfoWorks ICM SIM

Summary results from Simulation

Version 10.0.0.20012 (x64) dated May 2019

Licence Number - WS88880294PM

Message 253: Run finished for event 1.

Model network (version 11)

Event - 1 WS88880294PM Produced 2020-12-11 Pg 1

Summary results for event 1 - M30-240

Started at 0 day(s) 00:00:00. Run for 900.00 min. (Requested simulation time 900.00 min)

Files used:

Network: ...\\nnet131949#11.spb Model network (version 11)

State: ...1211_154101_initial.sp

Runoff: ...\\nnet131949#11.rpf Model network (version 11) (InfoWorks 10.0.0.20012(64bit))

Rainfall: ...133758eventiid58129.re M30-240 (0S): M5-60=20.0mm, r=0.20, AT=0.01km2 x1.00

DWF:

Inflows:

Levels:

RTC:

Results: ...\\sim133758.iwr

Total rainfall = 217.7 m3

Total runoff = 171.5 m3

Total inflow = 171.5 m3

Total outflow = 171.4 m3

Total lost = 0.0 m3

***** Node data *****

Node Reference	Ground Level (m AD)	Max Level (m AD)	Flood Volume (m3)	Flood Depth (m)	Flood Area (m2)	Max Stored (m3)	Inflow (m3)	Vol Balance (m3)	Vol Balance (%)
S10	141.700	139.981	0.0	0.000	0.0	1.6	50.4	-0.000	0.000
S2	151.724	150.147	0.0	0.000	0.0	0.0	9.8	-0.000	0.000
S3	149.507	147.798	0.0	0.000	0.0	0.0	8.5	-0.000	0.000
S4	145.192	143.452	0.0	0.000	0.0	0.0	4.9	-0.000	0.000
S5	144.525	142.852	0.0	0.000	0.0	0.1	23.2	-0.000	0.000
S6	142.360	140.515	0.0	0.000	0.0	0.1	36.6	-0.000	0.000
S7	142.211	139.982	0.0	0.000	0.0	0.8	0.0	-0.000	0.000
S7A	142.141	139.982	0.0	0.000	0.0	0.8	0.0	-0.000	0.000
S9	141.594	139.982	0.0	0.000	0.0	1.4	0.0	-0.000	0.000
S9A	141.594	139.982	0.0	0.000	0.0	1.3	38.2	-0.000	0.000

A %% indicates water lost from the system.

***** Link data *****

Link Reference	D/S Node	Pipe Len (m)	Pipe Hgt (mm)	Sed Dpth (mm)	P.Full Flow (m3/s)	< Upstream				> Downstream				>		
						Invert Level (m AD)	Max Depth (m)	Max Flow (m3/s)	Max Vel (m/s)	Total Flow (m3)	Invert Level (m AD)	Max Depth (m)	Max Flow (m3/s)		Max Vel (m/s)	Total Flow (m3)
S10.1	OF					139.521	0.460	0.026		171.4	139.521	0.000	0.026		171.4	
S2.1	S3	22	150	0	0.057	150.117	0.029	0.003	1.081	9.8	147.839	0.029	0.003	1.080	9.8	
S3.1	S4	42	225	0	0.165	147.764	0.034	0.005	1.295	18.3	143.487	0.034	0.005	1.294	18.3	
S4.1	S5	6	300	0	0.353	143.412	0.040	0.006	1.118	23.2	142.803	0.049	0.006	0.829	23.2	
S5.1	S6	27	300	0	0.329	142.803	0.049	0.013	1.664	46.3	140.421	0.094	0.013	0.660	46.3	
S6.1	S7	8	300	0	0.108	140.421	0.094	0.022	1.180	82.9	140.340	0.094	0.022	1.180	82.9	
S7.1	S9	48	900	0	1.106	139.740	0.243	0.022	0.504	82.9	139.591	0.391	0.014	0.222	82.9	
S7A.1	S9A	48	900	0	1.110	139.750	0.232	-0.001	0.024	0.0	139.600	0.382	-0.008	0.085	0.0	
S9.1	S10	7	450	0	0.323	139.591	0.391	0.022	0.469	121.0	139.521	0.460	0.023	0.278	121.0x	
S9A.1	S9	2	450	0	0.180	139.600	0.382	0.010	0.212	38.2	139.591	0.391	0.010	0.201	38.2	

+ after total flow indicates a conduit surcharged by flow and depth at that end.

x after total flow indicates a conduit surcharged by depth only at that end.

NOTE :

- (i) Maximum elevations, depths, volumes, velocities and discharges are selected from the values at each time increment and will be in general more extreme than the maximum values in the time varying results.
- (ii) Maximum elevations, velocities and discharges are not necessarily calculated at the same time.
- (iii) Maximum velocity is not calculated for a conduit unless the depth exceeds the base flow depth (by default, this is 5% of height for slopes <= 0.01, 10% otherwise, subject to a minimum of 0.02 m).

Start of run

configured for MS Windows

Produced on 2020-12-11 at 15:41

InfoWorks ICM SIM

Summary results from Simulation

Version 10.0.0.20012 (x64) dated May 2019

Licence Number - WS88880294PM

Message 253: Run finished for event 1.

Model network (version 11)

Event - 1 WS88880294PM Produced 2020-12-11 Pg 1

Summary results for event 1 - M30-300

Started at 0 day(s) 00:00:00. Run for 900.00 min. (Requested simulation time 900.00 min)

Files used:

Network: ...\\nnet131949#11.spb Model network (version 11)

State: ...1211_154101_initial.sp

Runoff: ...\\nnet131949#11.rpf Model network (version 11) (InfoWorks 10.0.0.20012(64bit))

Rainfall: ...m133759eventiid7905.re M30-300 (0S): M5-60=20.0mm, r=0.20, AT=0.01km2 x1.00

DWF:

Inflows:

Levels:

RTC:

Results: ...\\sim133759.iwr

Total rainfall = 239.7 m3

Total runoff = 188.8 m3

Total inflow = 188.8 m3

Total outflow = 188.8 m3

Total lost = 0.0 m3

***** Node data *****

Node Reference	Ground Level (m AD)	Max Level (m AD)	Flood Volume (m3)	Flood Depth (m)	Flood Area (m2)	Max Stored (m3)	Inflow (m3)	Vol Balance (m3)	Vol Balance (%)
S10	141.700	139.935	0.0	0.000	0.0	1.5	55.5	-0.000	0.000
S2	151.724	150.146	0.0	0.000	0.0	0.0	10.7	-0.000	0.000
S3	149.507	147.797	0.0	0.000	0.0	0.0	9.4	-0.000	0.000
S4	145.192	143.451	0.0	0.000	0.0	0.0	5.4	-0.000	0.000
S5	144.525	142.850	0.0	0.000	0.0	0.1	25.5	-0.000	0.000
S6	142.360	140.510	0.0	0.000	0.0	0.1	40.3	-0.000	0.000
S7	142.211	139.937	0.0	0.000	0.0	0.7	0.0	-0.000	0.000
S7A	142.141	139.936	0.0	0.000	0.0	0.7	0.0	0.000	0.000
S9	141.594	139.936	0.0	0.000	0.0	1.2	0.0	-0.000	0.000
S9A	141.594	139.936	0.0	0.000	0.0	1.2	42.1	-0.000	0.000

A %% indicates water lost from the system.

***** Link data *****

Link Reference	D/S Node	Pipe Len (m)	Pipe Hgt (mm)	Sed Dpth (mm)	P.Full Flow (m3/s)	< Upstream				> Downstream				Total Flow (m3)	
						Invert Level (m AD)	Max Depth (m)	Max Flow (m3/s)	Max Vel (m/s)	Total Flow (m3)	Invert Level (m AD)	Max Depth (m)	Max Flow (m3/s)		Max Vel (m/s)
S10.1	OF					139.521	0.414	0.026		188.8	139.521	0.000	0.026		188.8
S2.1	S3	22	150	0	0.057	150.117	0.029	0.002	1.000	10.7	147.839	0.029	0.002	1.000	10.7
S3.1	S4	42	225	0	0.165	147.764	0.033	0.004	1.203	20.1	143.487	0.033	0.004	1.203	20.1
S4.1	S5	6	300	0	0.353	143.412	0.039	0.006	1.027	25.5	142.803	0.047	0.006	0.775	25.5
S5.1	S6	27	300	0	0.329	142.803	0.047	0.011	1.553	51.0	140.421	0.089	0.011	0.635	51.0
S6.1	S7	8	300	0	0.108	140.421	0.089	0.020	1.137	91.3	140.340	0.089	0.020	1.137	91.3
S7.1	S9	48	900	0	1.106	139.740	0.197	0.019	0.492	91.3	139.591	0.345	0.014	0.221	91.3
S7A.1	S9A	48	900	0	1.110	139.750	0.186	-0.001	0.020	0.0	139.600	0.336	-0.006	0.077	0.1
S9.1	S10	7	450	0	0.323	139.591	0.345	0.022	0.464	133.3	139.521	0.414	0.022	0.276	133.3
S9A.1	S9	2	450	0	0.180	139.600	0.336	0.009	0.203	42.1	139.591	0.345	0.009	0.192	42.1

+ after total flow indicates a conduit surcharged by flow and depth at that end.

x after total flow indicates a conduit surcharged by depth only at that end.

NOTE :

- (i) Maximum elevations, depths, volumes, velocities and discharges are selected from the values at each time increment and will be in general more extreme than the maximum values in the time varying results.
- (ii) Maximum elevations, velocities and discharges are not necessarily calculated at the same time.
- (iii) Maximum velocity is not calculated for a conduit unless the depth exceeds the base flow depth (by default, this is 5% of height for slopes ≤ 0.01 , 10% otherwise, subject to a minimum of 0.02 m).

Start of run

configured for MS Windows

Produced on 2020-12-11 at 15:41

InfoWorks ICM SIM

Summary results from Simulation

Version 10.0.0.20012 (x64) dated May 2019

Licence Number - WS88880294PM

Message 253: Run finished for event 1.

Model network (version 11)

Event - 1 WS88880294PM Produced 2020-12-11 Pg 1

Summary results for event 1 - M30-360

Started at 0 day(s) 00:00:00. Run for 900.00 min. (Requested simulation time 900.00 min)

Files used:

Network: ...\\nnet131949#11.spb Model network (version 11)

State: ...1211_154101_initial.sp

Runoff: ...\\nnet131949#11.rpf Model network (version 11) (InfoWorks 10.0.0.20012(64bit))

Rainfall: ...133760eventiid75838.re M30-360 (0S): M5-60=20.0mm, r=0.20, AT=0.01km2 x1.00

DWF:

Inflows:

Levels:

RTC:

Results: ...\\sim133760.iwr

Total rainfall = 257.0 m3

Total runoff = 202.4 m3

Total inflow = 202.4 m3

Total outflow = 202.4 m3

Total lost = 0.0 m3

***** Node data *****

Node Reference	Ground Level (m AD)	Max Level (m AD)	Flood Volume (m3)	Flood Depth (m)	Flood Area (m2)	Max Stored (m3)	Inflow (m3)	Vol Balance (m3)	Vol Balance (%)
S10	141.700	139.888	0.0	0.000	0.0	1.3	59.5	0.000	0.000
S2	151.724	150.145	0.0	0.000	0.0	0.0	11.5	-0.000	0.000
S3	149.507	147.796	0.0	0.000	0.0	0.0	10.1	-0.000	0.000
S4	145.192	143.450	0.0	0.000	0.0	0.0	5.8	0.000	0.000
S5	144.525	142.849	0.0	0.000	0.0	0.1	27.3	-0.000	0.000
S6	142.360	140.505	0.0	0.000	0.0	0.1	43.2	-0.000	0.000
S7	142.211	139.892	0.0	0.000	0.0	0.5	0.0	-0.000	0.000
S7A	142.141	139.889	0.0	0.000	0.0	0.5	0.0	-0.000	0.000
S9	141.594	139.888	0.0	0.000	0.0	1.0	0.0	-0.000	0.000
S9A	141.594	139.888	0.0	0.000	0.0	1.0	45.1	-0.000	0.000

A %% indicates water lost from the system.

***** Link data *****

Link Reference	D/S Node	Pipe Len (m)	Pipe Hgt (mm)	Sed Dpth (mm)	P.Full Flow (m3/s)	< Upstream				> Downstream				Total Flow (m3)	
						Invert Level (m AD)	Max Depth (m)	Max Flow (m3/s)	Max Vel (m/s)	Total Flow (m3)	Invert Level (m AD)	Max Depth (m)	Max Flow (m3/s)		Max Vel (m/s)
S10.1	OF					139.521	0.367	0.027		202.4	139.521	0.000	0.027		202.4
S2.1	S3	22	150	0	0.057	150.117	0.028	0.002	0.930	11.5	147.839	0.028	0.002	0.930	11.5
S3.1	S4	42	225	0	0.165	147.764	0.032	0.004	1.121	21.6	143.487	0.032	0.004	1.121	21.6
S4.1	S5	6	300	0	0.353	143.412	0.038	0.005	0.948	27.3	142.803	0.046	0.005	0.726	27.3
S5.1	S6	27	300	0	0.329	142.803	0.046	0.010	1.455	54.7	140.421	0.084	0.010	0.613	54.7
S6.1	S7	8	300	0	0.108	140.421	0.084	0.018	1.097	97.8	140.340	0.084	0.018	1.097	97.8
S7.1	S9	48	900	0	1.106	139.740	0.152	0.018	0.484	97.8	139.591	0.297	0.014	0.220	97.9
S7A.1	S9A	48	900	0	1.110	139.750	0.139	-0.000	-0.016	0.0	139.600	0.288	-0.004	0.060	0.1
S9.1	S10	7	450	0	0.323	139.591	0.297	0.021	0.459	142.9	139.521	0.367	0.021	0.272	142.9
S9A.1	S9	2	450	0	0.180	139.600	0.288	0.008	0.190	45.1	139.591	0.297	0.008	0.178	45.1

+ after total flow indicates a conduit surcharged by flow and depth at that end.

x after total flow indicates a conduit surcharged by depth only at that end.

NOTE :

- (i) Maximum elevations, depths, volumes, velocities and discharges are selected from the values at each time increment and will be in general more extreme than the maximum values in the time varying results.
- (ii) Maximum elevations, velocities and discharges are not necessarily calculated at the same time.
- (iii) Maximum velocity is not calculated for a conduit unless the depth exceeds the base flow depth (by default, this is 5% of height for slopes <= 0.01, 10% otherwise, subject to a minimum of 0.02 m).

Start of run

configured for MS Windows

Produced on 2020-12-11 at 15:41

InfoWorks ICM SIM

Summary results from Simulation

Version 10.0.0.20012 (x64) dated May 2019

Licence Number - WS88880294PM

Message 253: Run finished for event 1.

Model network (version 11)

Event - 1 WS88880294PM Produced 2020-12-11 Pg 1

Summary results for event 1 - M30-420

Started at 0 day(s) 00:00:00. Run for 900.00 min. (Requested simulation time 900.00 min)

Files used:

Network: ...\\nnet131949#11.spb Model network (version 11)

State: ...1211_154101_initial.sp

Runoff: ...\\nnet131949#11.rpf Model network (version 11) (InfoWorks 10.0.0.20012(64bit))

Rainfall: ...133761eventiid85058.re M30-420 (0S): M5-60=20.0mm, r=0.20, AT=0.01km2 x1.00

DWF:

Inflows:

Levels:

RTC:

Results: ...\\sim133761.iwr

Total rainfall = 272.4 m3

Total runoff = 214.5 m3

Total inflow = 214.5 m3

Total outflow = 214.5 m3

Total lost = 0.0 m3

***** Node data *****

Node Reference	Ground Level (m AD)	Max Level (m AD)	Flood Volume (m3)	Flood Depth (m)	Flood Area (m2)	Max Stored (m3)	Inflow (m3)	Vol Balance (m3)	Vol Balance (%)
S10	141.700	139.847	0.0	0.000	0.0	1.1	63.0	0.000	0.000
S2	151.724	150.144	0.0	0.000	0.0	0.0	12.2	-0.000	0.000
S3	149.507	147.795	0.0	0.000	0.0	0.0	10.7	-0.000	0.000
S4	145.192	143.450	0.0	0.000	0.0	0.0	6.1	-0.000	0.000
S5	144.525	142.848	0.0	0.000	0.0	0.0	29.0	-0.000	0.000
S6	142.360	140.501	0.0	0.000	0.0	0.1	45.8	-0.000	0.000
S7	142.211	139.857	0.0	0.000	0.0	0.4	0.0	-0.000	0.000
S7A	142.141	139.850	0.0	0.000	0.0	0.3	0.0	-0.000	0.000
S9	141.594	139.848	0.0	0.000	0.0	0.9	0.0	-0.000	0.000
S9A	141.594	139.848	0.0	0.000	0.0	0.9	47.8	-0.000	0.000

A %% indicates water lost from the system.

***** Link data *****

Link Reference	D/S Node	Pipe Len (m)	Pipe Hgt (mm)	Sed Dpth (mm)	P.Full Flow (m3/s)	< Upstream				> Downstream				Total Flow (m3)	
						Invert Level (m AD)	Max Depth (m)	Max Flow (m3/s)	Max Vel (m/s)	Total Flow (m3)	Invert Level (m AD)	Max Depth (m)	Max Flow (m3/s)		Max Vel (m/s)
S10.1	OF					139.521	0.326	0.026		214.5	139.521	0.000	0.026		214.5
S2.1	S3	22	150	0	0.057	150.117	0.027	0.002	0.873	12.2	147.839	0.027	0.002	0.873	12.2
S3.1	S4	42	225	0	0.165	147.764	0.031	0.004	1.055	22.9	143.487	0.031	0.004	1.055	22.9
S4.1	S5	6	300	0	0.353	143.412	0.038	0.005	0.884	29.0	142.803	0.045	0.005	0.686	29.0
S5.1	S6	27	300	0	0.329	142.803	0.045	0.009	1.374	58.0	140.421	0.080	0.009	0.594	58.0
S6.1	S7	8	300	0	0.108	140.421	0.080	0.016	1.064	103.7	140.340	0.080	0.016	1.064	103.7
S7.1	S9	48	900	0	1.106	139.740	0.117	0.016	0.479	103.7	139.591	0.257	0.013	0.220	103.8
S7A.1	S9A	48	900	0	1.110	139.750	0.100	-0.000	-0.012	0.0	139.600	0.248	-0.003	0.045	0.1
S9.1	S10	7	450	0	0.323	139.591	0.257	0.020	0.458	151.5	139.521	0.326	0.020	0.273	151.5
S9A.1	S9	2	450	0	0.180	139.600	0.248	0.007	0.177	47.8	139.591	0.257	0.007	0.165	47.8

+ after total flow indicates a conduit surcharged by flow and depth at that end.

x after total flow indicates a conduit surcharged by depth only at that end.

NOTE :

- (i) Maximum elevations, depths, volumes, velocities and discharges are selected from the values at each time increment and will be in general more extreme than the maximum values in the time varying results.
- (ii) Maximum elevations, velocities and discharges are not necessarily calculated at the same time.
- (iii) Maximum velocity is not calculated for a conduit unless the depth exceeds the base flow depth (by default, this is 5% of height for slopes <= 0.01, 10% otherwise, subject to a minimum of 0.02 m).

Start of run

configured for MS Windows

Produced on 2020-12-11 at 15:41

InfoWorks ICM SIM

Summary results from Simulation

Version 10.0.0.20012 (x64) dated May 2019

Licence Number - WS88880294PM

Message 253: Run finished for event 1.

Model network (version 11)

Event - 1 WS88880294PM Produced 2020-12-11 Pg 1

Summary results for event 1 - M30-480

Started at 0 day(s) 00:00:00. Run for 900.00 min. (Requested simulation time 900.00 min)

Files used:

Network: ...\\nnet131949#11.spb Model network (version 11)

State: ...\\1211_154101_initial.sp

Runoff: ...\\nnet131949#11.rpf Model network (version 11) (InfoWorks 10.0.0.20012(64bit))

Rainfall: ...\\133762eventiid93244.re M30-480 (OS): M5-60=20.0mm, r=0.20, AT=0.01km2 x1.00

DWF:

Inflows:

Levels:

RTC:

Results: ...\\sim133762.iwr

Total rainfall = 286.4 m3

Total runoff = 225.6 m3

Total inflow = 225.6 m3

Total outflow = 225.5 m3

Total lost = 0.0 m3

***** Node data *****

Node Reference	Ground Level (m AD)	Max Level (m AD)	Flood Volume (m3)	Flood Depth (m)	Flood Area (m2)	Max Stored (m3)	Inflow (m3)	Vol Balance (m3)	Vol Balance (%)
S10	141.700	139.815	0.0	0.000	0.0	1.0	66.3	0.000	0.000
S2	151.724	150.144	0.0	0.000	0.0	0.0	12.8	-0.000	0.000
S3	149.507	147.795	0.0	0.000	0.0	0.0	11.2	-0.000	0.000
S4	145.192	143.449	0.0	0.000	0.0	0.0	6.4	-0.000	0.000
S5	144.525	142.847	0.0	0.000	0.0	0.0	30.5	-0.000	0.000
S6	142.360	140.498	0.0	0.000	0.0	0.1	48.1	-0.000	0.000
S7	142.211	139.837	0.0	0.000	0.0	0.3	0.0	-0.000	0.000
S7A	142.141	139.822	0.0	0.000	0.0	0.3	0.0	0.000	0.000
S9	141.594	139.816	0.0	0.000	0.0	0.8	0.0	-0.000	0.000
S9A	141.594	139.816	0.0	0.000	0.0	0.8	50.2	-0.000	0.000

A %% indicates water lost from the system.

***** Link data *****

Link Reference	D/S Node	Pipe Len (m)	Pipe Hgt (mm)	Sed Dpth (mm)	P.Full Flow (m3/s)	< Upstream				> Downstream				Total Flow (m3)	
						Invert Level (m AD)	Max Depth (m)	Max Flow (m3/s)	Max Vel (m/s)	Total Flow (m3)	Invert Level (m AD)	Max Depth (m)	Max Flow (m3/s)		Max Vel (m/s)
S10.1	OF					139.521	0.294	0.026		225.5	139.521	0.000	0.026		225.5
S2.1	S3	22	150	0	0.057	150.117	0.027	0.002	0.824	12.8	147.839	0.027	0.002	0.824	12.8
S3.1	S4	42	225	0	0.165	147.764	0.031	0.003	0.999	24.1	143.487	0.031	0.003	0.999	24.1
S4.1	S5	6	300	0	0.353	143.412	0.037	0.004	0.830	30.5	142.803	0.044	0.004	0.652	30.5
S5.1	S6	27	300	0	0.329	142.803	0.044	0.008	1.306	60.9	140.421	0.077	0.008	0.578	60.9
S6.1	S7	8	300	0	0.108	140.421	0.077	0.015	1.036	109.0	140.340	0.077	0.015	1.036	109.0
S7.1	S9	48	900	0	1.106	139.740	0.097	0.015	0.475	109.0	139.591	0.225	0.013	0.219	109.1
S7A.1	S9A	48	900	0	1.110	139.750	0.072	-0.000	-0.008	0.0	139.600	0.216	-0.002	0.037	0.0
S9.1	S10	7	450	0	0.323	139.591	0.225	0.019	0.458	159.2	139.521	0.294	0.019	0.271	159.2
S9A.1	S9	2	450	0	0.180	139.600	0.216	0.007	0.176	50.2	139.591	0.225	0.007	0.165	50.2

+ after total flow indicates a conduit surcharged by flow and depth at that end.

x after total flow indicates a conduit surcharged by depth only at that end.

NOTE :

- (i) Maximum elevations, depths, volumes, velocities and discharges are selected from the values at each time increment and will be in general more extreme than the maximum values in the time varying results.
- (ii) Maximum elevations, velocities and discharges are not necessarily calculated at the same time.
- (iii) Maximum velocity is not calculated for a conduit unless the depth exceeds the base flow depth (by default, this is 5% of height for slopes <= 0.01, 10% otherwise, subject to a minimum of 0.02 m).

Start of run

configured for MS Windows

Produced on 2020-12-11 at 15:41

InfoWorks ICM SIM

Summary results from Simulation

Version 10.0.0.20012 (x64) dated May 2019

Licence Number - WS88880294PM

Message 253: Run finished for event 1.

Model network (version 11)

Event - 1 WS88880294PM Produced 2020-12-11 Pg 1

Summary results for event 1 - M30-540

Started at 0 day(s) 00:00:00. Run for 900.00 min. (Requested simulation time 900.00 min)

Files used:

Network: ...\\nnet131949#11.spb Model network (version 11)

State: ...1211_154101_initial.sp

Runoff: ...\\nnet131949#11.rpf Model network (version 11) (InfoWorks 10.0.0.20012(64bit))

Rainfall: ...133763eventiid38387.re M30-540 (0S): M5-60=20.0mm, r=0.20, AT=0.01km2 x1.00

DWF:

Inflows:

Levels:

RTC:

Results: ...\\sim133763.iwr

Total rainfall = 299.3 m3

Total runoff = 235.7 m3

Total inflow = 235.7 m3

Total outflow = 235.6 m3

Total lost = 0.0 m3

***** Node data *****

Node Reference	Ground Level (m AD)	Max Level (m AD)	Flood Volume (m3)	Flood Depth (m)	Flood Area (m2)	Max Stored (m3)	Inflow (m3)	Vol Balance (m3)	Vol Balance (%)
S10	141.700	139.790	0.0	0.000	0.0	0.9	69.2	0.000	0.000
S2	151.724	150.143	0.0	0.000	0.0	0.0	13.4	-0.000	0.000
S3	149.507	147.794	0.0	0.000	0.0	0.0	11.7	-0.000	0.000
S4	145.192	143.449	0.0	0.000	0.0	0.0	6.7	-0.000	0.000
S5	144.525	142.846	0.0	0.000	0.0	0.0	31.8	-0.000	0.000
S6	142.360	140.495	0.0	0.000	0.0	0.1	50.3	-0.000	0.000
S7	142.211	139.827	0.0	0.000	0.0	0.3	0.0	-0.000	0.000
S7A	142.141	139.806	0.0	0.000	0.0	0.2	0.0	-0.000	0.000
S9	141.594	139.792	0.0	0.000	0.0	0.7	0.0	-0.000	0.000
S9A	141.594	139.792	0.0	0.000	0.0	0.7	52.5	-0.000	0.000

A %% indicates water lost from the system.

***** Link data *****

Link Reference	D/S Node	Pipe Len (m)	Pipe Hgt (mm)	Sed Dpth (mm)	P.Full Flow (m3/s)	< Upstream				> Downstream				Total Flow (m3)	
						Invert Level (m AD)	Max Depth (m)	Max Flow (m3/s)	Max Vel (m/s)	Total Flow (m3)	Invert Level (m AD)	Max Depth (m)	Max Flow (m3/s)		Max Vel (m/s)
S10.1	OF					139.521	0.269	0.025		235.6	139.521	0.000	0.025		235.6
S2.1	S3	22	150	0	0.057	150.117	0.026	0.002	0.784	13.4	147.839	0.026	0.002	0.783	13.4
S3.1	S4	42	225	0	0.165	147.764	0.030	0.003	0.951	25.1	143.487	0.030	0.003	0.951	25.1
S4.1	S5	6	300	0	0.353	143.412	0.037	0.004	0.785	31.8	142.803	0.043	0.004	0.623	31.8
S5.1	S6	27	300	0	0.329	142.803	0.043	0.008	1.247	63.7	140.421	0.074	0.008	0.564	63.7
S6.1	S7	8	300	0	0.108	140.421	0.074	0.014	1.011	113.9	140.340	0.074	0.014	1.011	113.9
S7.1	S9	48	900	0	1.106	139.740	0.087	0.014	0.471	113.9	139.591	0.201	0.013	0.218	113.9
S7A.1	S9A	48	900	0	1.110	139.750	0.056	-0.000	-0.004	0.0	139.600	0.192	0.002	0.029	0.0
S9.1	S10	7	450	0	0.323	139.591	0.201	0.018	0.458	166.3	139.521	0.269	0.018	0.271	166.3
S9A.1	S9	2	450	0	0.180	139.600	0.192	0.006	0.170	52.5	139.591	0.201	0.006	0.157	52.5

+ after total flow indicates a conduit surcharged by flow and depth at that end.

x after total flow indicates a conduit surcharged by depth only at that end.

NOTE :

- (i) Maximum elevations, depths, volumes, velocities and discharges are selected from the values at each time increment and will be in general more extreme than the maximum values in the time varying results.
- (ii) Maximum elevations, velocities and discharges are not necessarily calculated at the same time.
- (iii) Maximum velocity is not calculated for a conduit unless the depth exceeds the base flow depth (by default, this is 5% of height for slopes <= 0.01, 10% otherwise, subject to a minimum of 0.02 m).

Start of run

configured for MS Windows

Produced on 2020-12-11 at 15:41

InfoWorks ICM SIM

Summary results from Simulation

Version 10.0.0.20012 (x64) dated May 2019

Licence Number - WS88880294PM

Message 253: Run finished for event 1.

Model network (version 11)

Event - 1 WS88880294PM Produced 2020-12-11 Pg 1

Summary results for event 1 - M30-600

Started at 0 day(s) 00:00:00. Run for 900.00 min. (Requested simulation time 900.00 min)

Files used:

Network: ...\\nnet131949#11.spb Model network (version 11)

State: ...1211_154101_initial.sp

Runoff: ...\\nnet131949#11.rpf Model network (version 11) (InfoWorks 10.0.0.20012(64bit))

Rainfall: ...133764eventiid40908.re M30-600 (OS): M5-60=20.0mm, r=0.20, AT=0.01km2 x1.00

DWF:

Inflows:

Levels:

RTC:

Results: ...\\sim133764.iwr

Total rainfall = 311.2 m3

Total runoff = 245.0 m3

Total inflow = 245.0 m3

Total outflow = 244.9 m3

Total lost = 0.0 m3

***** Node data *****

Node Reference	Ground Level (m AD)	Max Level (m AD)	Flood Volume (m3)	Flood Depth (m)	Flood Area (m2)	Max Stored (m3)	Inflow (m3)	Vol Balance (m3)	Vol Balance (%)
S10	141.700	139.767	0.0	0.000	0.0	0.9	72.0	0.000	0.000
S2	151.724	150.143	0.0	0.000	0.0	0.0	13.9	-0.000	0.000
S3	149.507	147.794	0.0	0.000	0.0	0.0	12.2	-0.000	0.000
S4	145.192	143.448	0.0	0.000	0.0	0.0	7.0	-0.000	0.000
S5	144.525	142.845	0.0	0.000	0.0	0.0	33.1	0.000	0.000
S6	142.360	140.493	0.0	0.000	0.0	0.1	52.3	-0.000	0.000
S7	142.211	139.822	0.0	0.000	0.0	0.3	0.0	-0.000	0.000
S7A	142.141	139.799	0.0	0.000	0.0	0.2	0.0	0.000	0.000
S9	141.594	139.770	0.0	0.000	0.0	0.6	0.0	-0.000	0.000
S9A	141.594	139.770	0.0	0.000	0.0	0.6	54.6	-0.000	0.000

A %% indicates water lost from the system.

***** Link data *****

Link Reference	D/S Node	Pipe Len (m)	Pipe Hgt (mm)	Sed Dpth (mm)	P.Full Flow (m3/s)	< Upstream				> Downstream				Total Flow (m3)	
						Invert Level (m AD)	Max Depth (m)	Max Flow (m3/s)	Max Vel (m/s)	Total Flow (m3)	Invert Level (m AD)	Max Depth (m)	Max Flow (m3/s)		Max Vel (m/s)
S10.1	OF					139.521	0.246	0.025		244.9	139.521	0.000	0.025		244.9
S2.1	S3	22	150	0	0.057	150.117	0.026	0.002	0.748	13.9	147.839	0.026	0.002	0.748	13.9
S3.1	S4	42	225	0	0.165	147.764	0.030	0.003	0.909	26.1	143.487	0.030	0.003	0.909	26.1
S4.1	S5	6	300	0	0.353	143.412	0.036	0.004	0.746	33.1	142.803	0.042	0.004	0.597	33.1
S5.1	S6	27	300	0	0.329	142.803	0.042	0.007	1.196	66.2	140.421	0.072	0.007	0.552	66.2
S6.1	S7	8	300	0	0.108	140.421	0.072	0.013	0.989	118.5	140.340	0.072	0.013	0.989	118.5
S7.1	S9	48	900	0	1.106	139.740	0.082	0.013	0.465	118.5	139.591	0.179	0.012	0.218	118.5
S7A.1	S9A	48	900	0	1.110	139.750	0.049	-0.000	-0.002	0.0	139.600	0.170	0.001	0.024	0.0
S9.1	S10	7	450	0	0.323	139.591	0.179	0.017	0.458	172.9	139.521	0.246	0.018	0.272	172.9
S9A.1	S9	2	450	0	0.180	139.600	0.170	0.006	0.170	54.5	139.591	0.179	0.006	0.151	54.5

+ after total flow indicates a conduit surcharged by flow and depth at that end.

x after total flow indicates a conduit surcharged by depth only at that end.

NOTE :

- (i) Maximum elevations, depths, volumes, velocities and discharges are selected from the values at each time increment and will be in general more extreme than the maximum values in the time varying results.
- (ii) Maximum elevations, velocities and discharges are not necessarily calculated at the same time.
- (iii) Maximum velocity is not calculated for a conduit unless the depth exceeds the base flow depth (by default, this is 5% of height for slopes <= 0.01, 10% otherwise, subject to a minimum of 0.02 m).

Start of run

configured for MS Windows

Produced on 2020-12-11 at 15:41

InfoWorks ICM SIM

Summary results from Simulation

Version 10.0.0.20012 (x64) dated May 2019

Licence Number - WS88880294PM

Message 253: Run finished for event 1.

Model network (version 11)

Event - 1 WS88880294PM Produced 2020-12-11 Pg 1

Summary results for event 1 - M30-660

Started at 0 day(s) 00:00:00. Run for 900.00 min. (Requested simulation time 900.00 min)

Files used:

Network: ...\\nnet131949#11.spb Model network (version 11)

State: ...1211_154101_initial.sp

Runoff: ...\\nnet131949#11.rpf Model network (version 11) (InfoWorks 10.0.0.20012(64bit))

Rainfall: ...m133765eventiid2578.re M30-660 (OS): M5-60=20.0mm, r=0.20, AT=0.01km2 x1.00

DWF:

Inflows:

Levels:

RTC:

Results: ...\\sim133765.iwr

Total rainfall = 322.3 m3

Total runoff = 253.8 m3

Total inflow = 253.8 m3

Total outflow = 253.7 m3

Total lost = 0.0 m3

***** Node data *****

Node Reference	Ground Level (m AD)	Max Level (m AD)	Flood Volume (m3)	Flood Depth (m)	Flood Area (m2)	Max Stored (m3)	Inflow (m3)	Vol Balance (m3)	Vol Balance (%)
S10	141.700	139.747	0.0	0.000	0.0	0.8	74.6	-0.000	0.000
S2	151.724	150.143	0.0	0.000	0.0	0.0	14.4	-0.000	0.000
S3	149.507	147.794	0.0	0.000	0.0	0.0	12.6	-0.000	0.000
S4	145.192	143.448	0.0	0.000	0.0	0.0	7.2	-0.000	0.000
S5	144.525	142.845	0.0	0.000	0.0	0.0	34.3	0.000	0.000
S6	142.360	140.491	0.0	0.000	0.0	0.1	54.1	-0.000	0.000
S7	142.211	139.819	0.0	0.000	0.0	0.3	0.0	-0.000	0.000
S7A	142.141	139.797	0.0	0.000	0.0	0.2	0.0	-0.000	0.000
S9	141.594	139.750	0.0	0.000	0.0	0.6	0.0	-0.000	0.000
S9A	141.594	139.750	0.0	0.000	0.0	0.5	56.5	-0.000	0.000

A %% indicates water lost from the system.

***** Link data *****

Link Reference	D/S Node	Pipe Len (m)	Pipe Hgt (mm)	Sed Dpth (mm)	P.Full Flow (m3/s)	< Upstream				> Downstream				Total Flow (m3)	
						Invert Level (m AD)	Max Depth (m)	Max Flow (m3/s)	Max Vel (m/s)	Total Flow (m3)	Invert Level (m AD)	Max Depth (m)	Max Flow (m3/s)		Max Vel (m/s)
S10.1	OF					139.521	0.226	0.024		253.7	139.521	0.000	0.024		253.7
S2.1	S3	22	150	0	0.057	150.117	0.026	0.001	0.716	14.4	147.839	0.026	0.001	0.716	14.4
S3.1	S4	42	225	0	0.165	147.764	0.030	0.003	0.872	27.1	143.487	0.030	0.003	0.872	27.1
S4.1	S5	6	300	0	0.353	143.412	0.036	0.003	0.712	34.3	142.803	0.042	0.003	0.574	34.3
S5.1	S6	27	300	0	0.329	142.803	0.041	0.007	1.150	68.6	140.421	0.070	0.007	0.541	68.6
S6.1	S7	8	300	0	0.108	140.421	0.070	0.012	0.969	122.7	140.340	0.070	0.012	0.969	122.7
S7.1	S9	48	900	0	1.106	139.740	0.079	0.012	0.455	122.7	139.591	0.159	0.012	0.218	122.7
S7A.1	S9A	48	900	0	1.110	139.750	0.047	0.000	0.001	0.0	139.600	0.150	0.001	0.017	0.0
S9.1	S10	7	450	0	0.323	139.591	0.159	0.017	0.458	179.1	139.521	0.226	0.017	0.272	179.1
S9A.1	S9	2	450	0	0.180	139.600	0.150	0.006	0.170	56.5	139.591	0.159	0.006	0.146	56.5

+ after total flow indicates a conduit surcharged by flow and depth at that end.

x after total flow indicates a conduit surcharged by depth only at that end.

NOTE :

- (i) Maximum elevations, depths, volumes, velocities and discharges are selected from the values at each time increment and will be in general more extreme than the maximum values in the time varying results.
- (ii) Maximum elevations, velocities and discharges are not necessarily calculated at the same time.
- (iii) Maximum velocity is not calculated for a conduit unless the depth exceeds the base flow depth (by default, this is 5% of height for slopes <= 0.01, 10% otherwise, subject to a minimum of 0.02 m).

Start of run

configured for MS Windows

Produced on 2020-12-11 at 15:41

InfoWorks ICM SIM

Summary results from Simulation

Version 10.0.0.20012 (x64) dated May 2019

Licence Number - WS88880294PM

Message 253: Run finished for event 1.

Model network (version 11)

Event - 1 WS88880294PM Produced 2020-12-11 Pg 1

Summary results for event 1 - M30-720

Started at 0 day(s) 00:00:00. Run for 900.00 min. (Requested simulation time 900.00 min)

Files used:

Network: ...\\nnet131949#11.spb Model network (version 11)

State: ...1211_154101_initial.sp

Runoff: ...\\nnet131949#11.rpf Model network (version 11) (InfoWorks 10.0.0.20012(64bit))

Rainfall: ...133766eventiid24523.re M30-720 (0S): M5-60=20.0mm, r=0.20, AT=0.01km2 x1.00

DWF:

Inflows:

Levels:

RTC:

Results: ...\\sim133766.iwr

Total rainfall = 332.7 m3

Total runoff = 262.0 m3

Total inflow = 262.0 m3

Total outflow = 261.9 m3

Total lost = 0.0 m3

***** Node data *****

Node Reference	Ground Level (m AD)	Max Level (m AD)	Flood Volume (m3)	Flood Depth (m)	Flood Area (m2)	Max Stored (m3)	Inflow (m3)	Vol Balance (m3)	Vol Balance (%)
S10	141.700	139.729	0.0	0.000	0.0	0.7	77.0	0.000	0.000
S2	151.724	150.142	0.0	0.000	0.0	0.0	14.9	-0.000	0.000
S3	149.507	147.793	0.0	0.000	0.0	0.0	13.0	-0.000	0.000
S4	145.192	143.448	0.0	0.000	0.0	0.0	7.5	-0.000	0.000
S5	144.525	142.844	0.0	0.000	0.0	0.0	35.4	0.000	0.000
S6	142.360	140.489	0.0	0.000	0.0	0.1	55.9	-0.000	0.000
S7	142.211	139.816	0.0	0.000	0.0	0.3	0.0	-0.000	0.000
S7A	142.141	139.796	0.0	0.000	0.0	0.2	0.0	-0.000	0.000
S9	141.594	139.734	0.0	0.000	0.0	0.5	0.0	-0.000	0.000
S9A	141.594	139.734	0.0	0.000	0.0	0.5	58.4	-0.000	0.000

A %% indicates water lost from the system.

***** Link data *****

Link Reference	D/S Pipe Node	Pipe Len (m)	Pipe Hgt (mm)	Sed Dpth (mm)	P.Full Flow (m3/s)	< Invert Level (m AD)	Upstream Max Depth (m)	Max Flow (m3/s)	Max Vel (m/s)	> Total Flow (m3)	< Invert Level (m AD)	Downstream Max Depth (m)	Max Flow (m3/s)	Max Vel (m/s)	> Total Flow (m3)
S10.1	OF					139.521	0.208	0.023		261.9	139.521	0.000	0.023		261.9
S2.1	S3	22	150	0	0.057	150.117	0.025	0.001	0.688	14.9	147.839	0.025	0.001	0.688	14.9
S3.1	S4	42	225	0	0.165	147.764	0.029	0.003	0.839	27.9	143.487	0.029	0.003	0.838	27.9
S4.1	S5	6	300	0	0.353	143.412	0.036	0.003	0.682	35.4	142.803	0.041	0.003	0.554	35.4
S5.1	S6	27	300	0	0.329	142.803	0.041	0.006	1.109	70.8	140.421	0.068	0.006	0.531	70.8
S6.1	S7	8	300	0	0.108	140.421	0.068	0.012	0.951	126.7	140.340	0.068	0.012	0.951	126.7
S7.1	S9	48	900	0	1.106	139.740	0.076	0.012	0.445	126.7	139.591	0.143	0.011	0.218	126.7
S7A.1	S9A	48	900	0	1.110	139.750	0.046	0.000	0.000	0.0	139.600	0.134	0.000	0.009	0.0
S9.1	S10	7	450	0	0.323	139.591	0.143	0.016	0.458	184.9	139.521	0.208	0.016	0.272	184.9
S9A.1	S9	2	450	0	0.180	139.600	0.134	0.005	0.170	58.3	139.591	0.143	0.005	0.146	58.3

+ after total flow indicates a conduit surcharged by flow and depth at that end.

x after total flow indicates a conduit surcharged by depth only at that end.

NOTE :

- (i) Maximum elevations, depths, volumes, velocities and discharges are selected from the values at each time increment and will be in general more extreme than the maximum values in the time varying results.
- (ii) Maximum elevations, velocities and discharges are not necessarily calculated at the same time.
- (iii) Maximum velocity is not calculated for a conduit unless the depth exceeds the base flow depth (by default, this is 5% of height for slopes <= 0.01, 10% otherwise, subject to a minimum of 0.02 m).

Start of run

configured for MS Windows

Produced on 2020-12-11 at 15:41

InfoWorks ICM SIM

Summary results from Simulation

Version 10.0.0.20012 (x64) dated May 2019

Licence Number - WS88880294PM

Message 253: Run finished for event 1.

Model network (version 11)

Event - 1 WS88880294PM Produced 2020-12-11 Pg 1

Summary results for event 1 - M30-780

Started at 0 day(s) 00:00:00. Run for 900.00 min. (Requested simulation time 900.00 min)

Files used:

Network: ...\\nnet131949#11.spb Model network (version 11)

State: ...1211_154101_initial.sp

Runoff: ...\\nnet131949#11.rpf Model network (version 11) (InfoWorks 10.0.0.20012(64bit))

Rainfall: ...133767eventiid44974.re M30-780 (OS): M5-60=20.0mm, r=0.20, AT=0.01km2 x1.00

DWF:

Inflows:

Levels:

RTC:

Results: ...\\sim133767.iwr

Total rainfall = 342.5 m3

Total runoff = 269.7 m3

Total inflow = 269.7 m3

Total outflow = 269.6 m3

Total lost = 0.0 m3

***** Node data *****

Node Reference	Ground Level (m AD)	Max Level (m AD)	Flood Volume (m3)	Flood Depth (m)	Flood Area (m2)	Max Stored (m3)	Inflow (m3)	Vol Balance (m3)	Vol Balance (%)
S10	141.700	139.718	0.0	0.000	0.0	0.7	79.3	0.000	0.000
S2	151.724	150.142	0.0	0.000	0.0	0.0	15.3	-0.000	0.000
S3	149.507	147.793	0.0	0.000	0.0	0.0	13.4	-0.000	0.000
S4	145.192	143.447	0.0	0.000	0.0	0.0	7.7	-0.000	0.000
S5	144.525	142.844	0.0	0.000	0.0	0.0	36.4	0.000	0.000
S6	142.360	140.488	0.0	0.000	0.0	0.1	57.5	-0.000	0.000
S7	142.211	139.815	0.0	0.000	0.0	0.3	0.0	-0.000	0.000
S7A	142.141	139.795	0.0	0.000	0.0	0.2	0.0	-0.000	0.000
S9	141.594	139.724	0.0	0.000	0.0	0.5	0.0	-0.000	0.000
S9A	141.594	139.724	0.0	0.000	0.0	0.4	60.1	-0.000	0.000

A %% indicates water lost from the system.

***** Link data *****

Link Reference	D/S Node	Pipe Len (m)	Pipe Hgt (mm)	Sed Dpth (mm)	P.Full Flow (m3/s)	< Upstream				> Downstream				Total Flow (m3)	
						Invert Level (m AD)	Max Depth (m)	Max Flow (m3/s)	Max Vel (m/s)	Total Flow (m3)	Invert Level (m AD)	Max Depth (m)	Max Flow (m3/s)		Max Vel (m/s)
S10.1	OF					139.521	0.197	0.022		269.6	139.521	0.000	0.022		269.6
S2.1	S3	22	150	0	0.057	150.117	0.025	0.001	0.663	15.3	147.839	0.025	0.001	0.663	15.3
S3.1	S4	42	225	0	0.165	147.764	0.029	0.002	0.809	28.8	143.487	0.029	0.002	0.809	28.8
S4.1	S5	6	300	0	0.353	143.412	0.035	0.003	0.655	36.4	142.803	0.041	0.003	0.535	36.4
S5.1	S6	27	300	0	0.329	142.803	0.040	0.006	1.071	72.9	140.421	0.067	0.006	0.522	72.9
S6.1	S7	8	300	0	0.108	140.421	0.067	0.011	0.934	130.4	140.340	0.067	0.011	0.934	130.4
S7.1	S9	48	900	0	1.106	139.740	0.075	0.011	0.435	130.4	139.591	0.133	0.011	0.217	130.4
S7A.1	S9A	48	900	0	1.110	139.750	0.045	-0.000	-0.000	0.0	139.600	0.124	-0.000	-0.007	0.0
S9.1	S10	7	450	0	0.323	139.591	0.133	0.016	0.457	190.3	139.521	0.197	0.016	0.272	190.4
S9A.1	S9	2	450	0	0.180	139.600	0.124	0.005	0.170	60.0	139.591	0.133	0.005	0.146	60.0

+ after total flow indicates a conduit surcharged by flow and depth at that end.

x after total flow indicates a conduit surcharged by depth only at that end.

NOTE :

- (i) Maximum elevations, depths, volumes, velocities and discharges are selected from the values at each time increment and will be in general more extreme than the maximum values in the time varying results.
- (ii) Maximum elevations, velocities and discharges are not necessarily calculated at the same time.
- (iii) Maximum velocity is not calculated for a conduit unless the depth exceeds the base flow depth (by default, this is 5% of height for slopes <= 0.01, 10% otherwise, subject to a minimum of 0.02 m).

Start of run

configured for MS Windows

Produced on 2020-12-11 at 15:41

InfoWorks ICM SIM

Summary results from Simulation

Version 10.0.0.20012 (x64) dated May 2019

Licence Number - WS88880294PM

Message 253: Run finished for event 1.

Model network (version 11)

Event - 1 WS88880294PM Produced 2020-12-11 Pg 1

Summary results for event 1 - M30-840

Started at 0 day(s) 00:00:00. Run for 900.00 min. (Requested simulation time 900.00 min)

Files used:

Network: ...\\nnet131949#11.spb Model network (version 11)

State: ...1211_154101_initial.sp

Runoff: ...\\nnet131949#11.rpf Model network (version 11) (InfoWorks 10.0.0.20012(64bit))

Rainfall: ...133768eventiid76079.re M30-840 (OS): M5-60=20.0mm, r=0.20, AT=0.01km2 x1.00

DWF:

Inflows:

Levels:

RTC:

Results: ...\\sim133768.iwr

Total rainfall = 351.9 m3

Total runoff = 277.1 m3

Total inflow = 277.1 m3

Total outflow = 277.0 m3

Total lost = 0.0 m3

***** Node data *****

Node Reference	Ground Level (m AD)	Max Level (m AD)	Flood Volume (m3)	Flood Depth (m)	Flood Area (m2)	Max Stored (m3)	Inflow (m3)	Vol Balance (m3)	Vol Balance (%)
S10	141.700	139.712	0.0	0.000	0.0	0.7	81.4	-0.000	0.000
S2	151.724	150.142	0.0	0.000	0.0	0.0	15.8	-0.000	0.000
S3	149.507	147.793	0.0	0.000	0.0	0.0	13.8	-0.000	0.000
S4	145.192	143.447	0.0	0.000	0.0	0.0	7.9	-0.000	0.000
S5	144.525	142.843	0.0	0.000	0.0	0.0	37.4	0.000	0.000
S6	142.360	140.486	0.0	0.000	0.0	0.1	59.1	-0.000	0.000
S7	142.211	139.813	0.0	0.000	0.0	0.3	0.0	0.000	0.000
S7A	142.141	139.795	0.0	0.000	0.0	0.2	0.0	0.000	0.000
S9	141.594	139.718	0.0	0.000	0.0	0.4	0.0	-0.000	0.000
S9A	141.594	139.718	0.0	0.000	0.0	0.4	61.7	-0.000	0.000

A %% indicates water lost from the system.

***** Link data *****

Link Reference	D/S Node	Pipe Len (m)	Pipe Hgt (mm)	Sed Dpth (mm)	P.Full Flow (m3/s)	< Upstream				> Downstream				Total Flow (m3)	
						Invert Level (m AD)	Max Depth (m)	Max Flow (m3/s)	Max Vel (m/s)	Total Flow (m3)	Invert Level (m AD)	Max Depth (m)	Max Flow (m3/s)		Max Vel (m/s)
S10.1	OF					139.521	0.191	0.021		277.0	139.521	0.000	0.021		277.0
S2.1	S3	22	150	0	0.057	150.117	0.025	0.001	0.640	15.8	147.839	0.025	0.001	0.640	15.8
S3.1	S4	42	225	0	0.165	147.764	0.029	0.002	0.782	29.5	143.487	0.029	0.002	0.782	29.5
S4.1	S5	6	300	0	0.353	143.412	0.035	0.003	0.630	37.4	142.803	0.040	0.003	0.518	37.4
S5.1	S6	27	300	0	0.329	142.803	0.040	0.006	1.038	74.9	140.421	0.065	0.006	0.513	74.9
S6.1	S7	8	300	0	0.108	140.421	0.065	0.010	0.919	134.0	140.340	0.065	0.010	0.919	134.0
S7.1	S9	48	900	0	1.106	139.740	0.073	0.010	0.426	134.0	139.591	0.127	0.010	0.218	134.0
S7A.1	S9A	48	900	0	1.110	139.750	0.045	-0.000	-0.000	0.0	139.600	0.118	-0.000	-0.006	0.0
S9.1	S10	7	450	0	0.323	139.591	0.127	0.015	0.458	195.5	139.521	0.191	0.015	0.274	195.5
S9A.1	S9	2	450	0	0.180	139.600	0.118	0.005	0.170	61.7	139.591	0.127	0.005	0.146	61.7

+ after total flow indicates a conduit surcharged by flow and depth at that end.

x after total flow indicates a conduit surcharged by depth only at that end.

NOTE :

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- (ii) Maximum elevations, velocities and discharges are not necessarily calculated at the same time.
- (iii) Maximum velocity is not calculated for a conduit unless the depth exceeds the base flow depth (by default, this is 5% of height for slopes <= 0.01, 10% otherwise, subject to a minimum of 0.02 m).

Start of run

configured for MS Windows

Produced on 2020-12-11 at 15:41

InfoWorks ICM SIM

Summary results from Simulation

Version 10.0.0.20012 (x64) dated May 2019

Licence Number - WS88880294PM

Message 253: Run finished for event 1.

Model network (version 11)

Event - 1 WS88880294PM Produced 2020-12-11 Pg 1

Summary results for event 1 - M30-900

Started at 0 day(s) 00:00:00. Run for 900.00 min. (Requested simulation time 900.00 min)

Files used:

Network: ...\\nnet131949#11.spb Model network (version 11)

State: ...1211_154101_initial.sp

Runoff: ...\\nnet131949#11.rpf Model network (version 11) (InfoWorks 10.0.0.20012(64bit))

Rainfall: ...133769eventiid34483.re M30-900 (0S): M5-60=20.0mm, r=0.20, AT=0.01km2 x1.00

DWF:

Inflows:

Levels:

RTC:

Results: ...\\sim133769.iwr

Total rainfall = 360.7 m3

Total runoff = 283.8 m3

Total inflow = 283.8 m3

Total outflow = 283.4 m3

Total lost = 0.0 m3

***** Node data *****

Node Reference	Ground Level (m AD)	Max Level (m AD)	Flood Volume (m3)	Flood Depth (m)	Flood Area (m2)	Max Stored (m3)	Inflow (m3)	Vol Balance (m3)	Vol Balance (%)
S10	141.700	139.706	0.0	0.000	0.0	0.6	83.4	-0.000	0.000
S2	151.724	150.142	0.0	0.000	0.0	0.0	16.1	-0.000	0.000
S3	149.507	147.792	0.0	0.000	0.0	0.0	14.1	0.000	0.000
S4	145.192	143.447	0.0	0.000	0.0	0.0	8.1	-0.000	0.000
S5	144.525	142.843	0.0	0.000	0.0	0.0	38.3	0.000	0.000
S6	142.360	140.485	0.0	0.000	0.0	0.1	60.5	0.000	0.000
S7	142.211	139.812	0.0	0.000	0.0	0.3	0.0	0.000	0.000
S7A	142.141	139.795	0.0	0.000	0.0	0.2	0.0	0.000	0.000
S9	141.594	139.713	0.0	0.000	0.0	0.4	0.0	0.000	0.000
S9A	141.594	139.713	0.0	0.000	0.0	0.4	63.2	-0.000	0.000

A %% indicates water lost from the system.

***** Link data *****

Link Reference	D/S Node	Pipe Len (m)	Pipe Hgt (mm)	Sed Dpth (mm)	P.Full Flow (m3/s)	< Upstream				> Downstream				>		
						Invert Level (m AD)	Max Depth (m)	Max Flow (m3/s)	Max Vel (m/s)	Total Flow (m3)	Invert Level (m AD)	Max Depth (m)	Max Flow (m3/s)		Max Vel (m/s)	Total Flow (m3)
S10.1	OF					139.521	0.185	0.021		283.4	139.521	0.000	0.021		283.4	
S2.1	S3	22	150	0	0.057	150.117	0.025	0.001	0.619	16.1	147.839	0.025	0.001	0.619	16.1	
S3.1	S4	42	225	0	0.165	147.764	0.028	0.002	0.757	30.3	143.487	0.028	0.002	0.757	30.3	
S4.1	S5	6	300	0	0.353	143.412	0.035	0.003	0.608	38.3	142.803	0.040	0.003	0.503	38.3	
S5.1	S6	27	300	0	0.329	142.803	0.040	0.006	1.007	76.7	140.421	0.064	0.006	0.505	76.7	
S6.1	S7	8	300	0	0.108	140.421	0.064	0.010	0.905	137.2	140.340	0.064	0.010	0.905	137.2	
S7.1	S9	48	900	0	1.106	139.740	0.072	0.010	0.417	137.2	139.591	0.122	0.010	0.217	137.1	
S7A.1	S9A	48	900	0	1.110	139.750	0.045	-0.000	-0.000	0.0	139.600	0.113	-0.000	0.005	0.0	
S9.1	S10	7	450	0	0.323	139.591	0.122	0.015	0.457	200.2	139.521	0.185	0.015	0.273	200.2	
S9A.1	S9	2	450	0	0.180	139.600	0.113	0.005	0.170	63.2	139.591	0.122	0.005	0.146	63.1	

+ after total flow indicates a conduit surcharged by flow and depth at that end.

x after total flow indicates a conduit surcharged by depth only at that end.

NOTE :

- (i) Maximum elevations, depths, volumes, velocities and discharges are selected from the values at each time increment and will be in general more extreme than the maximum values in the time varying results.
- (ii) Maximum elevations, velocities and discharges are not necessarily calculated at the same time.
- (iii) Maximum velocity is not calculated for a conduit unless the depth exceeds the base flow depth (by default, this is 5% of height for slopes <= 0.01, 10% otherwise, subject to a minimum of 0.02 m).

SIMULATION RESULTS

1 in 100 year + CC RETURN PERIOD
(Summer)

InfoWorks ICM SIM

Summary results from Simulation

Version 10.0.0.20012 (x64) dated May 2019

Licence Number - WS88880294PM

Message 253: Run finished for event 1.

Model network (version 10)

Event - 1 WS88880294PM Produced 2020-11-30 Pg 1

Summary results for event 1 - M100-15

Started at 0 day(s) 00:00:00. Run for 900.00 min. (Requested simulation time 900.00 min)

Files used:

Network: ...\\nnet131949#10.spb Model network (version 10)

State:

Runoff: ...\\nnet131949#10.rpf Model network (version 10) (InfoWorks 10.0.0.20012(64bit))

Rainfall: ...133098eventiid24771.re M100-15 (OS): M5-60=20.0mm, r=0.20, AT=0.01km2 x1.30

DWF:

Inflows:

Levels:

RTC:

Results: ...\\sim133098.iwr

Total rainfall = 103.2 m3

Total runoff = 81.3 m3

Total inflow = 81.3 m3

Total outflow = 81.1 m3

Total lost = 0.0 m3

***** Node data *****

Node Reference	Ground Level (m AD)	Max Level (m AD)	Flood Volume (m3)	Flood Depth (m)	Flood Area (m2)	Max Stored (m3)	Inflow (m3)	Vol Balance (m3)	Vol Balance (%)
S10	141.700	140.304	0.0	0.000	0.0	2.7	23.9	-0.000	0.000
S2	151.724	150.171	0.0	0.000	0.0	0.1	4.6	-0.000	0.000
S3	149.507	147.828	0.0	0.000	0.0	0.1	4.0	0.000	0.000
S4	145.192	143.480	0.0	0.000	0.0	0.1	2.3	-0.000	0.000
S5	144.525	142.898	0.0	0.000	0.0	0.1	11.0	0.000	0.000
S6	142.360	140.692	0.0	0.000	0.0	0.3	17.3	0.000	0.000
S7	142.211	140.304	0.0	0.000	0.0	2.0	0.0	-0.000	0.000
S7A	142.141	140.304	0.0	0.000	0.0	1.9	0.0	0.000	0.000
S9	141.594	140.304	0.0	0.000	0.0	2.5	0.0	-0.000	0.000
S9A	141.594	140.304	0.0	0.000	0.0	2.5	18.1	-0.000	0.000

A %% indicates water lost from the system.

***** Link data *****

Link Reference	D/S Node	Pipe Len (m)	Pipe Hgt (mm)	Sed Dpth (mm)	P.Full Flow (m3/s)	< Upstream				> Downstream				Total Flow (m3)	
						Invert Level (m AD)	Max Depth (m)	Max Flow (m3/s)	Max Vel (m/s)	Total Flow (m3)	Invert Level (m AD)	Max Depth (m)	Max Flow (m3/s)		Max Vel (m/s)
S10.1	OF					139.521	0.783	0.026		81.1	139.521	0.000	0.026		81.1
S2.1	S3	22	150	0	0.057	150.117	0.054	0.013	2.360	4.6	147.839	0.054	0.014	2.368	4.6
S3.1	S4	42	225	0	0.165	147.764	0.063	0.025	2.759	8.7	143.487	0.063	0.025	2.765	8.7
S4.1	S5	6	300	0	0.353	143.412	0.067	0.032	2.704	11.0	142.803	0.095	0.032	1.675	11.0
S5.1	S6	27	300	0	0.329	142.803	0.094	0.064	3.365	22.0	140.421	0.271	0.064	0.950	22.0
S6.1	S7	8	300	0	0.108	140.421	0.258	0.112	1.740	39.3	140.340	0.258	0.111	1.718	39.3
S7.1	S9	48	900	0	1.106	139.740	0.564	0.106	0.914	39.3	139.591	0.713	0.031	0.290	39.3
S7A.1	S9A	48	900	0	1.110	139.750	0.554	-0.007	-0.079	0.0	139.600	0.704	-0.088	-0.370	0.0
S9.1	S10	7	450	0	0.323	139.591	0.713	-0.026	0.581	57.2x	139.521	0.783	-0.028	0.306	57.2x
S9A.1	S9	2	450	0	0.180	139.600	0.704	-0.044	-0.303	18.1x	139.591	0.713	-0.046	-0.311	18.0x

+ after total flow indicates a conduit surcharged by flow and depth at that end.

x after total flow indicates a conduit surcharged by depth only at that end.

NOTE :

- (i) Maximum elevations, depths, volumes, velocities and discharges are selected from the values at each time increment and will be in general more extreme than the maximum values in the time varying results.
- (ii) Maximum elevations, velocities and discharges are not necessarily calculated at the same time.
- (iii) Maximum velocity is not calculated for a conduit unless the depth exceeds the base flow depth (by default, this is 5% of height for slopes <= 0.01, 10% otherwise, subject to a minimum of 0.02 m).

Start of run

configured for MS Windows

Produced on 2020-11-30 at 14:52

InfoWorks ICM SIM

Summary results from Simulation

Version 10.0.0.20012 (x64) dated May 2019

Licence Number - WS88880294PM

Message 253: Run finished for event 1.

Model network (version 10)

Event - 1 WS88880294PM Produced 2020-11-30 Pg 1

Summary results for event 1 - M100-30

Started at 0 day(s) 00:00:00. Run for 900.00 min. (Requested simulation time 900.00 min)

Files used:

Network: ...\\nnet131949#10.spb Model network (version 10)

State: ...\\1130_145202_initial.sp

Runoff: ...\\nnet131949#10.rpf Model network (version 10) (InfoWorks 10.0.0.20012(64bit))

Rainfall: ...\\133099eventiid27290.re M100-30 (OS): M5-60=20.0mm, r=0.20, AT=0.01km2 x1.30

DWF:

Inflows:

Levels:

RTC:

Results: ...\\sim133099.iwr

Total rainfall = 147.9 m3

Total runoff = 116.5 m3

Total inflow = 116.5 m3

Total outflow = 116.3 m3

Total lost = 0.0 m3

***** Node data *****

Node Reference	Ground Level (m AD)	Max Level (m AD)	Flood Volume (m3)	Flood Depth (m)	Flood Area (m2)	Max Stored (m3)	Inflow (m3)	Vol Balance (m3)	Vol Balance (%)
S10	141.700	140.507	0.0	0.000	0.0	3.5	34.2	-0.000	0.000
S2	151.724	150.169	0.0	0.000	0.0	0.1	6.6	0.000	0.000
S3	149.507	147.825	0.0	0.000	0.0	0.1	5.8	0.000	0.000
S4	145.192	143.477	0.0	0.000	0.0	0.1	3.3	-0.000	0.000
S5	144.525	142.894	0.0	0.000	0.0	0.1	15.7	-0.000	0.000
S6	142.360	140.669	0.0	0.000	0.0	0.3	24.8	0.000	0.000
S7	142.211	140.508	0.0	0.000	0.0	2.7	0.0	0.000	0.000
S7A	142.141	140.508	0.0	0.000	0.0	2.7	0.0	0.000	0.000
S9	141.594	140.508	0.0	0.000	0.0	3.2	0.0	0.000	0.000
S9A	141.594	140.508	0.0	0.000	0.0	3.2	25.9	-0.000	0.000

A %% indicates water lost from the system.

***** Link data *****

Link Reference	D/S Node	Pipe Len (m)	Pipe Hgt (mm)	Sed Dpth (mm)	P.Full Flow (m3/s)	< Upstream				> Downstream				Total Flow (m3)	
						Invert Level (m AD)	Max Depth (m)	Max Flow (m3/s)	Max Vel (m/s)	Total Flow (m3)	Invert Level (m AD)	Max Depth (m)	Max Flow (m3/s)		Max Vel (m/s)
S10.1	OF					139.521	0.986	0.026		116.3	139.521	0.000	0.026		116.3
S2.1	S3	22	150	0	0.057	150.117	0.052	0.012	2.286	6.6	147.839	0.052	0.012	2.290	6.6
S3.1	S4	42	225	0	0.165	147.764	0.061	0.023	2.672	12.4	143.487	0.061	0.023	2.675	12.4
S4.1	S5	6	300	0	0.353	143.412	0.065	0.029	2.605	15.7	142.803	0.091	0.029	1.623	15.7
S5.1	S6	27	300	0	0.329	142.803	0.090	0.059	3.266	31.5	140.421	0.248	0.059	0.937	31.5
S6.1	S7	8	300	0	0.108	140.421	0.238	0.104	1.724	56.3	140.340	0.238	0.103	1.720	56.3
S7.1	S9	48	900	0	1.106	139.740	0.768	0.097	0.738	56.3	139.591	0.917	0.023	0.278	56.3x
S7A.1	S9A	48	900	0	1.110	139.750	0.758	-0.006	-0.069	0.0	139.600	0.908	-0.082	-0.252	-0.0x
S9.1	S10	7	450	0	0.323	139.591	0.917	-0.026	0.515	82.1x	139.521	0.986	-0.026	0.305	82.1x
S9A.1	S9	2	450	0	0.180	139.600	0.908	-0.041	0.256	25.9x	139.591	0.917	-0.042	-0.250	25.9x

+ after total flow indicates a conduit surcharged by flow and depth at that end.

x after total flow indicates a conduit surcharged by depth only at that end.

NOTE :

- (i) Maximum elevations, depths, volumes, velocities and discharges are selected from the values at each time increment and will be in general more extreme than the maximum values in the time varying results.
- (ii) Maximum elevations, velocities and discharges are not necessarily calculated at the same time.
- (iii) Maximum velocity is not calculated for a conduit unless the depth exceeds the base flow depth (by default, this is 5% of height for slopes <= 0.01, 10% otherwise, subject to a minimum of 0.02 m).

Start of run

configured for MS Windows

Produced on 2020-11-30 at 14:52

InfoWorks ICM SIM

Summary results from Simulation

Version 10.0.0.20012 (x64) dated May 2019

Licence Number - WS88880294PM

Message 253: Run finished for event 1.

Model network (version 10)

Event - 1 WS88880294PM Produced 2020-11-30 Pg 1

Summary results for event 1 - M100-60

Started at 0 day(s) 00:00:00. Run for 900.00 min. (Requested simulation time 900.00 min)

Files used:

Network: ...\\nnet131949#10.spb Model network (version 10)

State: ...\\1130_145202_initial.sp

Runoff: ...\\nnet131949#10.rpf Model network (version 10) (InfoWorks 10.0.0.20012(64bit))

Rainfall: ...\\133101eventiid96171.re M100-60 (OS): M5-60=20.0mm, r=0.20, AT=0.01km2 x1.30

DWF:

Inflows:

Levels:

RTC:

Results: ...\\sim133101.iwr

Total rainfall = 209.5 m3

Total runoff = 165.0 m3

Total inflow = 165.0 m3

Total outflow = 164.8 m3

Total lost = 0.0 m3

***** Node data *****

Node Reference	Ground Level (m AD)	Max Level (m AD)	Flood Volume (m3)	Flood Depth (m)	Flood Area (m2)	Max Stored (m3)	Inflow (m3)	Vol Balance (m3)	Vol Balance (%)
S10	141.700	140.975	0.0	0.000	0.0	5.1	48.5	-0.000	0.000
S2	151.724	150.164	0.0	0.000	0.0	0.1	9.4	-0.000	0.000
S3	149.507	147.819	0.0	0.000	0.0	0.1	8.2	0.000	0.000
S4	145.192	143.471	0.0	0.000	0.0	0.1	4.7	0.000	0.000
S5	144.525	142.884	0.0	0.000	0.0	0.1	22.3	0.000	0.000
S6	142.360	140.977	0.0	0.000	0.0	0.6	35.2	-0.000	0.000
S7	142.211	140.976	0.0	0.000	0.0	4.3	0.0	-0.000	0.000
S7A	142.141	140.976	0.0	0.000	0.0	4.3	0.0	-0.000	0.000
S9	141.594	140.976	0.0	0.000	0.0	4.8	0.0	0.000	0.000
S9A	141.594	140.976	0.0	0.000	0.0	4.8	36.7	-0.000	0.000

A %% indicates water lost from the system.

***** Link data *****

Link Reference	D/S Node	Pipe Len (m)	Pipe Hgt (mm)	Sed Dpth (mm)	P.Full Flow (m3/s)	< Upstream				> Downstream				> Total Flow (m3)	
						Invert Level (m AD)	Max Depth (m)	Max Flow (m3/s)	Max Vel (m/s)	Total Flow (m3)	Invert Level (m AD)	Max Depth (m)	Max Flow (m3/s)		Max Vel (m/s)
S10.1	OF					139.521	1.454	0.027		164.8	139.521	0.000	0.027		164.8
S2.1	S3	22	150	0	0.057	150.117	0.046	0.010	2.073	9.4	147.839	0.046	0.010	2.075	9.4
S3.1	S4	42	225	0	0.165	147.764	0.055	0.018	2.427	17.6	143.487	0.055	0.018	2.428	17.6
S4.1	S5	6	300	0	0.353	143.412	0.059	0.023	2.330	22.3	142.803	0.081	0.023	1.481	22.3
S5.1	S6	27	300	0	0.329	142.803	0.081	0.046	2.984	44.6	140.421	0.556	0.046	0.908	44.6x
S6.1	S7	8	300	0	0.108	140.421	0.556	0.081	1.662	79.8x	140.340	0.636	0.081	1.661	79.8x
S7.1	S9	48	900	0	1.106	139.740	1.236	0.077	0.618	79.8x	139.591	1.385	0.019	0.252	79.8x
S7A.1	S9A	48	900	0	1.110	139.750	1.226	-0.006	-0.052	0.0x	139.600	1.376	-0.063	-0.165	0.0x
S9.1	S10	7	450	0	0.323	139.591	1.385	0.025	0.498	116.4x	139.521	1.454	0.026	0.309	116.4x
S9A.1	S9	2	450	0	0.180	139.600	1.376	-0.030	0.255	36.7x	139.591	1.385	-0.030	0.245	36.7x

+ after total flow indicates a conduit surcharged by flow and depth at that end.

x after total flow indicates a conduit surcharged by depth only at that end.

NOTE :

- (i) Maximum elevations, depths, volumes, velocities and discharges are selected from the values at each time increment and will be in general more extreme than the maximum values in the time varying results.
- (ii) Maximum elevations, velocities and discharges are not necessarily calculated at the same time.
- (iii) Maximum velocity is not calculated for a conduit unless the depth exceeds the base flow depth (by default, this is 5% of height for slopes <= 0.01, 10% otherwise, subject to a minimum of 0.02 m).

InfoWorks ICM SIM

Summary results from Simulation

Version 10.0.0.20012 (x64) dated May 2019

Licence Number - WS88880294PM

Message 253: Run finished for event 1.

Model network (version 10)

Event - 1 WS88880294PM Produced 2020-11-30 Pg 1

Summary results for event 1 - M100-90

Started at 0 day(s) 00:00:00. Run for 900.00 min. (Requested simulation time 900.00 min)

Files used:

Network: ...\\nnet131949#10.spb Model network (version 10)

State: ...\\1130_145202_initial.sp

Runoff: ...\\nnet131949#10.rpf Model network (version 10) (InfoWorks 10.0.0.20012(64bit))

Rainfall: ...\\133102eventiid70730.re M100-90 (0S): M5-60=20.0mm, r=0.20, AT=0.01km2 x1.30

DWF:

Inflows:

Levels:

RTC:

Results: ...\\sim133102.iwr

Total rainfall = 251.3 m3

Total runoff = 197.9 m3

Total inflow = 197.9 m3

Total outflow = 197.8 m3

Total lost = 0.0 m3

***** Node data *****

Node Reference	Ground Level (m AD)	Max Level (m AD)	Flood Volume (m3)	Flood Depth (m)	Flood Area (m2)	Max Stored (m3)	Inflow (m3)	Vol Balance (m3)	Vol Balance (%)
S10	141.700	141.179	0.0	0.000	0.0	5.8	58.2	-0.000	0.000
S2	151.724	150.160	0.0	0.000	0.0	0.0	11.3	-0.000	0.000
S3	149.507	147.815	0.0	0.000	0.0	0.1	9.8	-0.000	0.000
S4	145.192	143.467	0.0	0.000	0.0	0.1	5.6	0.000	0.000
S5	144.525	142.878	0.0	0.000	0.0	0.1	26.7	-0.000	0.000
S6	142.360	141.182	0.0	0.000	0.0	0.8	42.2	-0.000	0.000
S7	142.211	141.180	0.0	0.000	0.0	5.0	0.0	-0.000	0.000
S7A	142.141	141.180	0.0	0.000	0.0	5.0	0.0	0.000	0.000
S9	141.594	141.180	0.0	0.000	0.0	5.6	0.0	-0.000	0.000
S9A	141.594	141.180	0.0	0.000	0.0	5.5	44.1	0.000	0.000

A %% indicates water lost from the system.

***** Link data *****

Link Reference	D/S Node	Pipe Len (m)	Pipe Hgt (mm)	Sed Dpth (mm)	P.Full Flow (m3/s)	< Upstream				> Downstream				> Total Flow (m3)	
						Invert Level (m AD)	Max Depth (m)	Max Flow (m3/s)	Max Vel (m/s)	Total Flow (m3)	Invert Level (m AD)	Max Depth (m)	Max Flow (m3/s)		Max Vel (m/s)
S10.1	OF					139.521	1.658	0.028		197.8	139.521	0.000	0.028		197.8
S2.1	S3	22	150	0	0.057	150.117	0.043	0.008	1.912	11.3	147.839	0.043	0.008	1.913	11.3
S3.1	S4	42	225	0	0.165	147.764	0.050	0.015	2.243	21.1	143.487	0.050	0.015	2.243	21.1
S4.1	S5	6	300	0	0.353	143.412	0.055	0.019	2.126	26.7	142.803	0.075	0.019	1.376	26.7
S5.1	S6	27	300	0	0.329	142.803	0.074	0.038	2.772	53.5	140.421	0.761	0.038	0.880	53.5x
S6.1	S7	8	300	0	0.108	140.421	0.761	0.067	1.595	95.7x	140.340	0.840	0.067	1.594	95.7x
S7.1	S9	48	900	0	1.106	139.740	1.440	0.064	0.583	95.7x	139.591	1.589	0.022	0.233	95.7x
S7A.1	S9A	48	900	0	1.110	139.750	1.430	-0.008	-0.041	0.0x	139.600	1.580	-0.050	0.134	0.0x
S9.1	S10	7	450	0	0.323	139.591	1.589	0.025	0.499	139.6x	139.521	1.658	0.026	0.306	139.6x
S9A.1	S9	2	450	0	0.180	139.600	1.580	-0.023	0.256	44.0x	139.591	1.589	-0.023	0.245	44.0x

+ after total flow indicates a conduit surcharged by flow and depth at that end.

x after total flow indicates a conduit surcharged by depth only at that end.

NOTE :

- (i) Maximum elevations, depths, volumes, velocities and discharges are selected from the values at each time increment and will be in general more extreme than the maximum values in the time varying results.
- (ii) Maximum elevations, velocities and discharges are not necessarily calculated at the same time.
- (iii) Maximum velocity is not calculated for a conduit unless the depth exceeds the base flow depth (by default, this is 5% of height for slopes <= 0.01, 10% otherwise, subject to a minimum of 0.02 m).

InfoWorks ICM SIM

Summary results from Simulation

Version 10.0.0.20012 (x64) dated May 2019

Licence Number - WS88880294PM

Message 253: Run finished for event 1.

Model network (version 10)

Event - 1 WS88880294PM Produced 2020-11-30 Pg 1

Summary results for event 1 - M100-120

Started at 0 day(s) 00:00:00. Run for 900.00 min. (Requested simulation time 900.00 min)

Files used:

Network: ...\\nnet131949#10.spb Model network (version 10)

State: ...\\1130_145202_initial.sp

Runoff: ...\\nnet131949#10.rpf Model network (version 10) (InfoWorks 10.0.0.20012(64bit))

Rainfall: ...\\133103eventiid54458.re M100-120 (0S): M5-60=20.0mm, r=0.20, AT=0.01km2 x1.30

DWF:

Inflows:

Levels:

RTC:

Results: ...\\sim133103.iwr

Total rainfall = 282.4 m3

Total runoff = 222.4 m3

Total inflow = 222.4 m3

Total outflow = 222.3 m3

Total lost = 0.0 m3

***** Node data *****

Node Reference	Ground Level (m AD)	Max Level (m AD)	Flood Volume (m3)	Flood Depth (m)	Flood Area (m2)	Max Stored (m3)	Inflow (m3)	Vol Balance (m3)	Vol Balance (%)
S10	141.700	141.207	0.0	0.000	0.0	5.9	65.4	-0.000	0.000
S2	151.724	150.157	0.0	0.000	0.0	0.0	12.6	-0.000	0.000
S3	149.507	147.812	0.0	0.000	0.0	0.1	11.1	0.000	0.000
S4	145.192	143.464	0.0	0.000	0.0	0.1	6.3	0.000	0.000
S5	144.525	142.873	0.0	0.000	0.0	0.1	30.0	0.000	0.000
S6	142.360	141.210	0.0	0.000	0.0	0.9	47.4	0.000	0.000
S7	142.211	141.208	0.0	0.000	0.0	5.1	0.0	-0.000	0.000
S7A	142.141	141.208	0.0	0.000	0.0	5.1	0.0	0.000	0.000
S9	141.594	141.208	0.0	0.000	0.0	5.7	0.0	-0.000	0.000
S9A	141.594	141.208	0.0	0.000	0.0	5.6	49.5	-0.000	0.000

A %% indicates water lost from the system.

***** Link data *****

Link Reference	D/S Pipe Node	Pipe Len (m)	Pipe Hgt (mm)	Sed Dpth (mm)	P.Full Flow (m3/s)	< Upstream				> Downstream				Total Flow (m3)	
						Invert Level (m AD)	Max Depth (m)	Max Flow (m3/s)	Max Vel (m/s)	Total Flow (m3)	Invert Level (m AD)	Max Depth (m)	Max Flow (m3/s)		Max Vel (m/s)
S10.1	OF					139.521	1.686	0.029		222.3	139.521	0.000	0.029		222.3
S2.1	S3	22	150	0	0.057	150.117	0.040	0.007	1.781	12.6	147.839	0.040	0.007	1.782	12.6
S3.1	S4	42	225	0	0.165	147.764	0.047	0.013	2.095	23.7	143.487	0.047	0.013	2.094	23.7
S4.1	S5	6	300	0	0.353	143.412	0.052	0.016	1.962	30.0	142.803	0.070	0.016	1.291	30.0
S5.1	S6	27	300	0	0.329	142.803	0.069	0.032	2.601	60.1	140.421	0.789	0.032	0.856	60.1x
S6.1	S7	8	300	0	0.108	140.421	0.789	0.058	1.536	107.5x	140.340	0.868	0.057	1.535	107.5x
S7.1	S9	48	900	0	1.106	139.740	1.468	0.054	0.562	107.5x	139.591	1.617	0.021	0.218	107.5x
S7A.1	S9A	48	900	0	1.110	139.750	1.458	-0.007	-0.036	0.0x	139.600	1.608	-0.041	0.134	0.0x
S9.1	S10	7	450	0	0.323	139.591	1.617	0.025	0.497	156.9x	139.521	1.686	0.026	0.307	156.9x
S9A.1	S9	2	450	0	0.180	139.600	1.608	-0.018	0.255	49.5x	139.591	1.617	-0.018	0.244	49.5x

+ after total flow indicates a conduit surcharged by flow and depth at that end.

x after total flow indicates a conduit surcharged by depth only at that end.

NOTE :

- (i) Maximum elevations, depths, volumes, velocities and discharges are selected from the values at each time increment and will be in general more extreme than the maximum values in the time varying results.
- (ii) Maximum elevations, velocities and discharges are not necessarily calculated at the same time.
- (iii) Maximum velocity is not calculated for a conduit unless the depth exceeds the base flow depth (by default, this is 5% of height for slopes <= 0.01, 10% otherwise, subject to a minimum of 0.02 m).

InfoWorks ICM SIM

Summary results from Simulation

Version 10.0.0.20012 (x64) dated May 2019

Licence Number - WS88880294PM

Message 253: Run finished for event 1.

Model network (version 10)

Event - 1 WS88880294PM Produced 2020-11-30 Pg 1

Summary results for event 1 - M100-180

Started at 0 day(s) 00:00:00. Run for 900.00 min. (Requested simulation time 900.00 min)

Files used:

Network: ...\\nnet131949#10.spb Model network (version 10)

State: ...\\1130_145202_initial.sp

Runoff: ...\\nnet131949#10.rpf Model network (version 10) (InfoWorks 10.0.0.20012(64bit))

Rainfall: ...\\m133104eventiid7272.re M100-180 (0S): M5-60=20.0mm, r=0.20, AT=0.01km2 x1.30

DWF:

Inflows:

Levels:

RTC:

Results: ...\\sim133104.iwr

Total rainfall = 328.3 m3

Total runoff = 258.5 m3

Total inflow = 258.5 m3

Total outflow = 258.4 m3

Total lost = 0.0 m3

***** Node data *****

Node Reference	Ground Level (m AD)	Max Level (m AD)	Flood Volume (m3)	Flood Depth (m)	Flood Area (m2)	Max Stored (m3)	Inflow (m3)	Vol Balance (m3)	Vol Balance (%)
S10	141.700	141.054	0.0	0.000	0.0	5.4	76.0	-0.000	0.000
S2	151.724	150.154	0.0	0.000	0.0	0.0	14.7	-0.000	0.000
S3	149.507	147.807	0.0	0.000	0.0	0.0	12.9	-0.000	0.000
S4	145.192	143.460	0.0	0.000	0.0	0.1	7.4	-0.000	0.000
S5	144.525	142.866	0.0	0.000	0.0	0.1	34.9	0.000	0.000
S6	142.360	141.057	0.0	0.000	0.0	0.7	55.1	-0.000	0.000
S7	142.211	141.055	0.0	0.000	0.0	4.6	0.0	0.000	0.000
S7A	142.141	141.055	0.0	0.000	0.0	4.6	0.0	-0.000	0.000
S9	141.594	141.055	0.0	0.000	0.0	5.1	0.0	0.000	0.000
S9A	141.594	141.055	0.0	0.000	0.0	5.1	57.6	0.000	0.000

A %% indicates water lost from the system.

***** Link data *****

Link Reference	D/S Node	Pipe Len (m)	Pipe Hgt (mm)	Sed Dpth (mm)	P.Full Flow (m3/s)	< Upstream				> Downstream				> Total Flow (m3)	
						Invert Level (m AD)	Max Depth (m)	Max Flow (m3/s)	Max Vel (m/s)	Total Flow (m3)	Invert Level (m AD)	Max Depth (m)	Max Flow (m3/s)		Max Vel (m/s)
S10.1	OF					139.521	1.533	0.027		258.4	139.521	0.000	0.027		258.4
S2.1	S3	22	150	0	0.057	150.117	0.037	0.005	1.587	14.7	147.839	0.037	0.005	1.587	14.7
S3.1	S4	42	225	0	0.165	147.764	0.043	0.010	1.874	27.6	143.487	0.043	0.010	1.873	27.6
S4.1	S5	6	300	0	0.353	143.412	0.048	0.013	1.722	34.9	142.803	0.063	0.013	1.164	34.9
S5.1	S6	27	300	0	0.329	142.803	0.063	0.025	2.345	69.8	140.421	0.636	0.025	0.807	69.8x
S6.1	S7	8	300	0	0.108	140.421	0.635	0.045	1.443	125.0x	140.340	0.715	0.045	1.442	125.0x
S7.1	S9	48	900	0	1.106	139.740	1.315	0.043	0.533	125.0x	139.591	1.464	0.017	0.218	125.0x
S7A.1	S9A	48	900	0	1.110	139.750	1.305	-0.004	0.035	0.0x	139.600	1.455	-0.030	0.134	0.0x
S9.1	S10	7	450	0	0.323	139.591	1.464	0.025	0.497	182.4x	139.521	1.533	0.025	0.304	182.4x
S9A.1	S9	2	450	0	0.180	139.600	1.455	0.012	0.255	57.5x	139.591	1.464	0.013	0.244	57.5x

+ after total flow indicates a conduit surcharged by flow and depth at that end.

x after total flow indicates a conduit surcharged by depth only at that end.

NOTE :

- (i) Maximum elevations, depths, volumes, velocities and discharges are selected from the values at each time increment and will be in general more extreme than the maximum values in the time varying results.
- (ii) Maximum elevations, velocities and discharges are not necessarily calculated at the same time.
- (iii) Maximum velocity is not calculated for a conduit unless the depth exceeds the base flow depth (by default, this is 5% of height for slopes <= 0.01, 10% otherwise, subject to a minimum of 0.02 m).

InfoWorks ICM SIM

Summary results from Simulation

Version 10.0.0.20012 (x64) dated May 2019

Licence Number - WS88880294PM

Message 253: Run finished for event 1.

Model network (version 10)

Event - 1 WS88880294PM Produced 2020-11-30 Pg 1

Summary results for event 1 - M100-240

Started at 0 day(s) 00:00:00. Run for 900.00 min. (Requested simulation time 900.00 min)

Files used:

Network: ...\\nnet131949#10.spb Model network (version 10)

State: ...\\1130_145202_initial.sp

Runoff: ...\\nnet131949#10.rpf Model network (version 10) (InfoWorks 10.0.0.20012(64bit))

Rainfall: ...\\133105eventiid18511.re M100-240 (0S): M5-60=20.0mm, r=0.20, AT=0.01km2 x1.30

DWF:

Inflows:

Levels:

RTC:

Results: ...\\sim133105.iwr

Total rainfall	=	364.9 m3
Total runoff	=	287.3 m3
Total inflow	=	287.3 m3
Total outflow	=	287.2 m3
Total lost	=	0.0 m3

***** Node data *****

Node Reference	Ground Level (m AD)	Max Level (m AD)	Flood Volume (m3)	Flood Depth (m)	Flood Area (m2)	Max Stored (m3)	Inflow (m3)	Vol Balance (m3)	Vol Balance (%)
S10	141.700	140.791	0.0	0.000	0.0	4.4	84.4	0.000	0.000
S2	151.724	150.152	0.0	0.000	0.0	0.0	16.3	-0.000	0.000
S3	149.507	147.805	0.0	0.000	0.0	0.0	14.3	-0.000	0.000
S4	145.192	143.458	0.0	0.000	0.0	0.1	8.2	-0.000	0.000
S5	144.525	142.862	0.0	0.000	0.0	0.1	38.8	0.000	0.000
S6	142.360	140.794	0.0	0.000	0.0	0.4	61.3	-0.000	0.000
S7	142.211	140.792	0.0	0.000	0.0	3.7	0.0	-0.000	0.000
S7A	142.141	140.792	0.0	0.000	0.0	3.6	0.0	0.000	0.000
S9	141.594	140.792	0.0	0.000	0.0	4.2	0.0	-0.000	0.000
S9A	141.594	140.792	0.0	0.000	0.0	4.2	64.0	-0.000	0.000

A %% indicates water lost from the system.

***** Link data *****

Link Reference	D/S Node	Pipe Len (m)	Pipe Hgt (mm)	Sed Dpth (mm)	P.Full Flow (m3/s)	< Upstream				> Downstream				Total Flow (m3)	
						Invert Level (m AD)	Max Depth (m)	Max Flow (m3/s)	Max Vel (m/s)	Total Flow (m3)	Invert Level (m AD)	Max Depth (m)	Max Flow (m3/s)		Max Vel (m/s)
S10.1	OF					139.521	1.270	0.026		287.2	139.521	0.000	0.026		287.2
S2.1	S3	22	150	0	0.057	150.117	0.035	0.004	1.450	16.3	147.839	0.035	0.004	1.450	16.3
S3.1	S4	42	225	0	0.165	147.764	0.041	0.008	1.718	30.6	143.487	0.040	0.008	1.717	30.6
S4.1	S5	6	300	0	0.353	143.412	0.046	0.011	1.555	38.8	142.803	0.059	0.011	1.075	38.8
S5.1	S6	27	300	0	0.329	142.803	0.059	0.021	2.163	77.6	140.421	0.373	0.021	0.768	77.6x
S6.1	S7	8	300	0	0.108	140.421	0.372	0.038	1.374	138.9x	140.340	0.452	0.038	1.374	138.9x
S7.1	S9	48	900	0	1.106	139.740	1.052	0.036	0.513	138.9x	139.591	1.201	0.015	0.219	138.9x
S7A.1	S9A	48	900	0	1.110	139.750	1.042	-0.002	0.027	0.0x	139.600	1.192	-0.023	0.096	0.0x
S9.1	S10	7	450	0	0.323	139.591	1.201	0.023	0.473	202.8x	139.521	1.270	0.024	0.299	202.8x
S9A.1	S9	2	450	0	0.180	139.600	1.192	0.011	0.220	64.0x	139.591	1.201	0.011	0.209	63.9x

+ after total flow indicates a conduit surcharged by flow and depth at that end.

x after total flow indicates a conduit surcharged by depth only at that end.

NOTE :

- (i) Maximum elevations, depths, volumes, velocities and discharges are selected from the values at each time increment and will be in general more extreme than the maximum values in the time varying results.
- (ii) Maximum elevations, velocities and discharges are not necessarily calculated at the same time.
- (iii) Maximum velocity is not calculated for a conduit unless the depth exceeds the base flow depth (by default, this is 5% of height for slopes <= 0.01, 10% otherwise, subject to a minimum of 0.02 m).

InfoWorks ICM SIM

Summary results from Simulation

Version 10.0.0.20012 (x64) dated May 2019

Licence Number - WS88880294PM

Message 253: Run finished for event 1.

Model network (version 10)

Event - 1 WS88880294PM Produced 2020-11-30 Pg 1

Summary results for event 1 - M100-360

Started at 0 day(s) 00:00:00. Run for 900.00 min. (Requested simulation time 900.00 min)

Files used:

Network: ...\\nnet131949#10.spb Model network (version 10)

State: ...\\1130_145202_initial.sp

Runoff: ...\\nnet131949#10.rpf Model network (version 10) (InfoWorks 10.0.0.20012(64bit))

Rainfall: ...\\133107eventiid15838.re M100-360 (0S): M5-60=20.0mm, r=0.20, AT=0.01km2 x1.30

DWF:

Inflows:

Levels:

RTC:

Results: ...\\sim133107.iwr

Total rainfall = 421.5 m3

Total runoff = 331.9 m3

Total inflow = 331.9 m3

Total outflow = 331.7 m3

Total lost = 0.0 m3

***** Node data *****

Node Reference	Ground Level (m AD)	Max Level (m AD)	Flood Volume (m3)	Flood Depth (m)	Flood Area (m2)	Max Stored (m3)	Inflow (m3)	Vol Balance (m3)	Vol Balance (%)
S10	141.700	140.449	0.0	0.000	0.0	3.2	97.5	-0.000	0.000
S2	151.724	150.149	0.0	0.000	0.0	0.0	18.9	0.000	0.000
S3	149.507	147.801	0.0	0.000	0.0	0.0	16.5	-0.000	0.000
S4	145.192	143.455	0.0	0.000	0.0	0.0	9.4	0.000	0.000
S5	144.525	142.857	0.0	0.000	0.0	0.1	44.8	0.000	0.000
S6	142.360	140.529	0.0	0.000	0.0	0.1	70.8	-0.000	0.000
S7	142.211	140.449	0.0	0.000	0.0	2.5	0.0	-0.000	0.000
S7A	142.141	140.449	0.0	0.000	0.0	2.4	0.0	0.000	0.000
S9	141.594	140.449	0.0	0.000	0.0	3.0	0.0	-0.000	0.000
S9A	141.594	140.449	0.0	0.000	0.0	3.0	73.9	-0.000	0.000

A %% indicates water lost from the system.

***** Link data *****

Link Reference	D/S Node	Pipe Len (m)	Pipe Hgt (mm)	Sed Dpth (mm)	P.Full Flow (m3/s)	< Upstream				> Downstream				> Total Flow (m3)	
						Invert Level (m AD)	Max Depth (m)	Max Flow (m3/s)	Max Vel (m/s)	Total Flow (m3)	Invert Level (m AD)	Max Depth (m)	Max Flow (m3/s)		Max Vel (m/s)
S10.1	OF					139.521	0.928	0.027		331.7	139.521	0.000	0.027		331.7
S2.1	S3	22	150	0	0.057	150.117	0.032	0.003	1.258	18.9	147.839	0.032	0.003	1.258	18.9
S3.1	S4	42	225	0	0.165	147.764	0.037	0.006	1.498	35.4	143.487	0.037	0.006	1.498	35.4
S4.1	S5	6	300	0	0.353	143.412	0.043	0.008	1.326	44.8	142.803	0.054	0.008	0.949	44.8
S5.1	S6	27	300	0	0.329	142.803	0.054	0.016	1.905	89.7	140.421	0.108	0.016	0.713	89.7
S6.1	S7	8	300	0	0.108	140.421	0.108	0.029	1.276	160.4	140.340	0.109	0.029	1.276	160.5
S7.1	S9	48	900	0	1.106	139.740	0.709	0.028	0.490	160.5	139.591	0.858	0.014	0.218	160.4
S7A.1	S9A	48	900	0	1.110	139.750	0.699	-0.001	0.027	0.0	139.600	0.849	-0.015	0.094	-0.0
S9.1	S10	7	450	0	0.323	139.591	0.858	0.023	0.472	234.2x	139.521	0.928	0.023	0.297	234.2x
S9A.1	S9	2	450	0	0.180	139.600	0.849	0.010	0.219	73.9x	139.591	0.858	0.011	0.207	73.8x

+ after total flow indicates a conduit surcharged by flow and depth at that end.

x after total flow indicates a conduit surcharged by depth only at that end.

NOTE :

- (i) Maximum elevations, depths, volumes, velocities and discharges are selected from the values at each time increment and will be in general more extreme than the maximum values in the time varying results.
- (ii) Maximum elevations, velocities and discharges are not necessarily calculated at the same time.
- (iii) Maximum velocity is not calculated for a conduit unless the depth exceeds the base flow depth (by default, this is 5% of height for slopes <= 0.01, 10% otherwise, subject to a minimum of 0.02 m).

Start of run

configured for MS Windows

Produced on 2020-11-30 at 14:52

InfoWorks ICM SIM

Summary results from Simulation

Version 10.0.0.20012 (x64) dated May 2019

Licence Number - WS88880294PM

Message 253: Run finished for event 1.

Model network (version 10)

Event - 1 WS88880294PM Produced 2020-11-30 Pg 1

Summary results for event 1 - M100-420

Started at 0 day(s) 00:00:00. Run for 900.00 min. (Requested simulation time 900.00 min)

Files used:

Network: ...\\nnet131949#10.spb Model network (version 10)

State: ...\\1130_145202_initial.sp

Runoff: ...\\nnet131949#10.rpf Model network (version 10) (InfoWorks 10.0.0.20012(64bit))

Rainfall: ...\\133108eventiid50362.re M100-420 (OS): M5-60=20.0mm, r=0.20, AT=0.01km2 x1.30

DWF:

Inflows:

Levels:

RTC:

Results: ...\\sim133108.iwr

Total rainfall = 444.6 m3

Total runoff = 350.1 m3

Total inflow = 350.1 m3

Total outflow = 350.0 m3

Total lost = 0.0 m3

***** Node data *****

Node Reference	Ground Level (m AD)	Max Level (m AD)	Flood Volume (m3)	Flood Depth (m)	Flood Area (m2)	Max Stored (m3)	Inflow (m3)	Vol Balance (m3)	Vol Balance (%)
S10	141.700	140.359	0.0	0.000	0.0	2.9	102.9	0.000	0.000
S2	151.724	150.148	0.0	0.000	0.0	0.0	19.9	-0.000	0.000
S3	149.507	147.800	0.0	0.000	0.0	0.0	17.4	0.000	0.000
S4	145.192	143.454	0.0	0.000	0.0	0.0	10.0	0.000	0.000
S5	144.525	142.855	0.0	0.000	0.0	0.1	47.3	0.000	0.000
S6	142.360	140.523	0.0	0.000	0.0	0.1	74.7	-0.000	0.000
S7	142.211	140.360	0.0	0.000	0.0	2.2	0.0	-0.000	0.000
S7A	142.141	140.360	0.0	0.000	0.0	2.1	0.0	-0.000	0.000
S9	141.594	140.360	0.0	0.000	0.0	2.7	0.0	-0.000	0.000
S9A	141.594	140.360	0.0	0.000	0.0	2.7	78.0	-0.000	0.000

A %% indicates water lost from the system.

***** Link data *****

Link Reference	D/S Node	Pipe Len (m)	Pipe Hgt (mm)	Sed Dpth (mm)	P.Full Flow (m3/s)	< Upstream				> Downstream				> Total Flow (m3)	
						Invert Level (m AD)	Max Depth (m)	Max Flow (m3/s)	Max Vel (m/s)	Total Flow (m3)	Invert Level (m AD)	Max Depth (m)	Max Flow (m3/s)		Max Vel (m/s)
S10.1	OF					139.521	0.838	0.026		350.0	139.521	0.000	0.026		350.0
S2.1	S3	22	150	0	0.057	150.117	0.031	0.003	1.187	19.9	147.839	0.031	0.003	1.187	19.9
S3.1	S4	42	225	0	0.165	147.764	0.036	0.006	1.417	37.3	143.487	0.036	0.006	1.417	37.3
S4.1	S5	6	300	0	0.353	143.412	0.042	0.007	1.243	47.3	142.803	0.052	0.007	0.902	47.3
S5.1	S6	27	300	0	0.329	142.803	0.052	0.015	1.810	94.6	140.421	0.102	0.015	0.692	94.6
S6.1	S7	8	300	0	0.108	140.421	0.102	0.026	1.239	169.3	140.340	0.102	0.026	1.239	169.3
S7.1	S9	48	900	0	1.106	139.740	0.620	0.025	0.482	169.3	139.591	0.769	0.014	0.218	169.3
S7A.1	S9A	48	900	0	1.110	139.750	0.610	-0.001	0.027	0.0	139.600	0.760	-0.013	0.092	0.0
S9.1	S10	7	450	0	0.323	139.591	0.769	0.023	0.469	247.1x	139.521	0.838	0.023	0.285	247.1x
S9A.1	S9	2	450	0	0.180	139.600	0.760	0.010	0.217	78.0x	139.591	0.769	0.010	0.206	77.9x

+ after total flow indicates a conduit surcharged by flow and depth at that end.

x after total flow indicates a conduit surcharged by depth only at that end.

NOTE :

- (i) Maximum elevations, depths, volumes, velocities and discharges are selected from the values at each time increment and will be in general more extreme than the maximum values in the time varying results.
- (ii) Maximum elevations, velocities and discharges are not necessarily calculated at the same time.
- (iii) Maximum velocity is not calculated for a conduit unless the depth exceeds the base flow depth (by default, this is 5% of height for slopes <= 0.01, 10% otherwise, subject to a minimum of 0.02 m).

Start of run

configured for MS Windows

Produced on 2020-11-30 at 14:52

InfoWorks ICM SIM

Summary results from Simulation

Version 10.0.0.20012 (x64) dated May 2019

Licence Number - WS88880294PM

Message 253: Run finished for event 1.

Model network (version 10)

Event - 1 WS88880294PM Produced 2020-11-30 Pg 1

Summary results for event 1 - M100-480

Started at 0 day(s) 00:00:00. Run for 900.00 min. (Requested simulation time 900.00 min)

Files used:

Network: ...\\nnet131949#10.spb Model network (version 10)

State: ...1130_145202_initial.sp

Runoff: ...\\nnet131949#10.rpf Model network (version 10) (InfoWorks 10.0.0.20012(64bit))

Rainfall: ...sim133109eventiid65.re M100-480 (0S): M5-60=20.0mm, r=0.20, AT=0.01km2 x1.30

DWF:

Inflows:

Levels:

RTC:

Results: ...\\sim133109.iwr

Total rainfall	=	465.4 m3
Total runoff	=	366.5 m3
Total inflow	=	366.5 m3
Total outflow	=	366.4 m3
Total lost	=	0.0 m3

***** Node data *****

Node Reference	Ground Level (m AD)	Max Level (m AD)	Flood Volume (m3)	Flood Depth (m)	Flood Area (m2)	Max Stored (m3)	Inflow (m3)	Vol Balance (m3)	Vol Balance (%)
S10	141.700	140.282	0.0	0.000	0.0	2.7	107.7	0.000	0.000
S2	151.724	150.147	0.0	0.000	0.0	0.0	20.8	-0.000	0.000
S3	149.507	147.799	0.0	0.000	0.0	0.0	18.2	-0.000	0.000
S4	145.192	143.453	0.0	0.000	0.0	0.0	10.4	-0.000	0.000
S5	144.525	142.853	0.0	0.000	0.0	0.1	49.5	0.000	0.000
S6	142.360	140.519	0.0	0.000	0.0	0.1	78.2	-0.000	0.000
S7	142.211	140.283	0.0	0.000	0.0	1.9	0.0	-0.000	0.000
S7A	142.141	140.283	0.0	0.000	0.0	1.9	0.0	0.000	0.000
S9	141.594	140.283	0.0	0.000	0.0	2.4	0.0	-0.000	0.000
S9A	141.594	140.283	0.0	0.000	0.0	2.4	81.6	-0.000	0.000

A %% indicates water lost from the system.

***** Link data *****

Link Reference	D/S Node	Pipe Len (m)	Pipe Hgt (mm)	Sed Dpth (mm)	P.Full Flow (m3/s)	< Upstream				> Downstream				> Total Flow (m3)	
						Invert Level (m AD)	Max Depth (m)	Max Flow (m3/s)	Max Vel (m/s)	Total Flow (m3)	Invert Level (m AD)	Max Depth (m)	Max Flow (m3/s)		Max Vel (m/s)
S10.1	OF					139.521	0.761	0.026		366.4	139.521	0.000	0.026		366.4
S2.1	S3	22	150	0	0.057	150.117	0.030	0.003	1.127	20.8	147.839	0.030	0.003	1.127	20.8
S3.1	S4	42	225	0	0.165	147.764	0.035	0.005	1.348	39.1	143.487	0.035	0.005	1.348	39.1
S4.1	S5	6	300	0	0.353	143.412	0.041	0.007	1.173	49.5	142.803	0.050	0.007	0.861	49.5
S5.1	S6	27	300	0	0.329	142.803	0.050	0.014	1.727	99.0	140.421	0.098	0.014	0.674	99.0
S6.1	S7	8	300	0	0.108	140.421	0.098	0.024	1.206	177.2	140.340	0.098	0.024	1.206	177.2
S7.1	S9	48	900	0	1.106	139.740	0.543	0.023	0.476	177.2	139.591	0.692	0.014	0.219	177.2
S7A.1	S9A	48	900	0	1.110	139.750	0.533	-0.001	0.026	0.0	139.600	0.683	-0.010	0.090	0.0
S9.1	S10	7	450	0	0.323	139.591	0.691	0.023	0.469	258.8x	139.521	0.761	0.023	0.279	258.7x
S9A.1	S9	2	450	0	0.180	139.600	0.683	0.010	0.215	81.6x	139.591	0.692	0.010	0.204	81.6x

+ after total flow indicates a conduit surcharged by flow and depth at that end.

x after total flow indicates a conduit surcharged by depth only at that end.

NOTE :

- (i) Maximum elevations, depths, volumes, velocities and discharges are selected from the values at each time increment and will be in general more extreme than the maximum values in the time varying results.
- (ii) Maximum elevations, velocities and discharges are not necessarily calculated at the same time.
- (iii) Maximum velocity is not calculated for a conduit unless the depth exceeds the base flow depth (by default, this is 5% of height for slopes <= 0.01, 10% otherwise, subject to a minimum of 0.02 m).

Start of run

configured for MS Windows

Produced on 2020-11-30 at 14:52

InfoWorks ICM SIM

Summary results from Simulation

Version 10.0.0.20012 (x64) dated May 2019

Licence Number - WS88880294PM

Message 253: Run finished for event 1.

Model network (version 10)

Event - 1 WS88880294PM Produced 2020-11-30 Pg 1

Summary results for event 1 - M100-540

Started at 0 day(s) 00:00:00. Run for 900.00 min. (Requested simulation time 900.00 min)

Files used:

Network: ...\\nnet131949#10.spb Model network (version 10)

State: ...\\1130_145202_initial.sp

Runoff: ...\\nnet131949#10.rpf Model network (version 10) (InfoWorks 10.0.0.20012(64bit))

Rainfall: ...\\133110eventiid47270.re M100-540 (OS): M5-60=20.0mm, r=0.20, AT=0.01km2 x1.30

DWF:

Inflows:

Levels:

RTC:

Results: ...\\sim133110.iwr

Total rainfall = 484.4 m3

Total runoff = 381.4 m3

Total inflow = 381.4 m3

Total outflow = 381.4 m3

Total lost = 0.0 m3

***** Node data *****

Node Reference	Ground Level (m AD)	Max Level (m AD)	Flood Volume (m3)	Flood Depth (m)	Flood Area (m2)	Max Stored (m3)	Inflow (m3)	Vol Balance (m3)	Vol Balance (%)
S10	141.700	140.213	0.0	0.000	0.0	2.4	112.1	-0.000	0.000
S2	151.724	150.146	0.0	0.000	0.0	0.0	21.7	-0.000	0.000
S3	149.507	147.798	0.0	0.000	0.0	0.0	19.0	-0.000	0.000
S4	145.192	143.452	0.0	0.000	0.0	0.0	10.8	0.000	0.000
S5	144.525	142.852	0.0	0.000	0.0	0.1	51.5	0.000	0.000
S6	142.360	140.515	0.0	0.000	0.0	0.1	81.3	-0.000	0.000
S7	142.211	140.214	0.0	0.000	0.0	1.7	0.0	-0.000	0.000
S7A	142.141	140.214	0.0	0.000	0.0	1.6	0.0	0.000	0.000
S9	141.594	140.214	0.0	0.000	0.0	2.2	0.0	-0.000	0.000
S9A	141.594	140.214	0.0	0.000	0.0	2.1	85.0	-0.000	0.000

A %% indicates water lost from the system.

***** Link data *****

Link Reference	D/S Node	Pipe Len (m)	Pipe Hgt (mm)	Sed Dpth (mm)	P.Full Flow (m3/s)	< Upstream				> Downstream				Total Flow (m3)	
						Invert Level (m AD)	Max Depth (m)	Max Flow (m3/s)	Max Vel (m/s)	Total Flow (m3)	Invert Level (m AD)	Max Depth (m)	Max Flow (m3/s)		Max Vel (m/s)
S10.1	OF					139.521	0.692	0.026		381.4	139.521	0.000	0.026		381.4
S2.1	S3	22	150	0	0.057	150.117	0.029	0.003	1.075	21.7	147.839	0.029	0.003	1.075	21.7
S3.1	S4	42	225	0	0.165	147.764	0.034	0.005	1.289	40.7	143.487	0.034	0.005	1.289	40.7
S4.1	S5	6	300	0	0.353	143.412	0.040	0.006	1.113	51.5	142.803	0.049	0.006	0.826	51.5
S5.1	S6	27	300	0	0.329	142.803	0.049	0.012	1.657	103.0	140.421	0.094	0.012	0.658	103.0
S6.1	S7	8	300	0	0.108	140.421	0.094	0.022	1.178	184.4	140.340	0.094	0.022	1.178	184.4
S7.1	S9	48	900	0	1.106	139.740	0.474	0.022	0.473	184.4	139.591	0.623	0.014	0.219	184.4
S7A.1	S9A	48	900	0	1.110	139.750	0.464	-0.001	0.024	0.0	139.600	0.614	-0.009	0.087	0.1
S9.1	S10	7	450	0	0.323	139.591	0.623	0.022	0.467	269.3x	139.521	0.692	0.023	0.282	269.3x
S9A.1	S9	2	450	0	0.180	139.600	0.614	0.010	0.212	85.0x	139.591	0.623	0.010	0.201	85.0x

+ after total flow indicates a conduit surcharged by flow and depth at that end.

x after total flow indicates a conduit surcharged by depth only at that end.

NOTE :

- (i) Maximum elevations, depths, volumes, velocities and discharges are selected from the values at each time increment and will be in general more extreme than the maximum values in the time varying results.
- (ii) Maximum elevations, velocities and discharges are not necessarily calculated at the same time.
- (iii) Maximum velocity is not calculated for a conduit unless the depth exceeds the base flow depth (by default, this is 5% of height for slopes <= 0.01, 10% otherwise, subject to a minimum of 0.02 m).

Start of run

configured for MS Windows

Produced on 2020-11-30 at 14:52

InfoWorks ICM SIM

Summary results from Simulation

Version 10.0.0.20012 (x64) dated May 2019

Licence Number - WS88880294PM

Message 253: Run finished for event 1.

Model network (version 10)

Event - 1 WS88880294PM Produced 2020-11-30 Pg 1

Summary results for event 1 - M100-600

Started at 0 day(s) 00:00:00. Run for 900.00 min. (Requested simulation time 900.00 min)

Files used:

Network: ...\\nnet131949#10.spb Model network (version 10)

State: ...\\1130_145202_initial.sp

Runoff: ...\\nnet131949#10.rpf Model network (version 10) (InfoWorks 10.0.0.20012(64bit))

Rainfall: ...\\133111eventiid79098.re M100-600 (0S): M5-60=20.0mm, r=0.20, AT=0.01km2 x1.30

DWF:

Inflows:

Levels:

RTC:

Results: ...\\sim133111.iwr

Total rainfall = 501.7 m3

Total runoff = 395.1 m3

Total inflow = 395.1 m3

Total outflow = 395.1 m3

Total lost = 0.0 m3

***** Node data *****

Node Reference	Ground Level (m AD)	Max Level (m AD)	Flood Volume (m3)	Flood Depth (m)	Flood Area (m2)	Max Stored (m3)	Inflow (m3)	Vol Balance (m3)	Vol Balance (%)
S10	141.700	140.151	0.0	0.000	0.0	2.2	116.1	0.000	0.000
S2	151.724	150.146	0.0	0.000	0.0	0.0	22.5	-0.000	0.000
S3	149.507	147.798	0.0	0.000	0.0	0.0	19.7	-0.000	0.000
S4	145.192	143.451	0.0	0.000	0.0	0.0	11.2	0.000	0.000
S5	144.525	142.851	0.0	0.000	0.0	0.1	53.4	0.000	0.000
S6	142.360	140.512	0.0	0.000	0.0	0.1	84.3	-0.000	0.000
S7	142.211	140.152	0.0	0.000	0.0	1.4	0.0	-0.000	0.000
S7A	142.141	140.152	0.0	0.000	0.0	1.4	0.0	-0.000	0.000
S9	141.594	140.151	0.0	0.000	0.0	2.0	0.0	-0.000	0.000
S9A	141.594	140.152	0.0	0.000	0.0	1.9	88.0	-0.000	0.000

A %% indicates water lost from the system.

***** Link data *****

Link Reference	D/S Node	Pipe Len (m)	Pipe Hgt (mm)	Sed Dpth (mm)	P.Full Flow (m3/s)	< Upstream				> Downstream					
						Invert Level (m AD)	Max Depth (m)	Max Flow (m3/s)	Max Vel (m/s)	Total Flow (m3)	Invert Level (m AD)	Max Depth (m)	Max Flow (m3/s)	Max Vel (m/s)	Total Flow (m3)
S10.1	OF					139.521	0.630	0.026		395.1	139.521	0.000	0.026		395.1
S2.1	S3	22	150	0	0.057	150.117	0.029	0.002	1.029	22.5	147.839	0.029	0.002	1.029	22.5
S3.1	S4	42	225	0	0.165	147.764	0.034	0.005	1.236	42.1	143.487	0.034	0.005	1.236	42.1
S4.1	S5	6	300	0	0.353	143.412	0.039	0.006	1.061	53.4	142.803	0.048	0.006	0.795	53.4
S5.1	S6	27	300	0	0.329	142.803	0.048	0.012	1.594	106.7	140.421	0.091	0.012	0.644	106.7
S6.1	S7	8	300	0	0.108	140.421	0.091	0.021	1.153	191.0	140.340	0.091	0.021	1.153	191.0
S7.1	S9	48	900	0	1.106	139.740	0.412	0.020	0.470	191.0	139.591	0.560	0.014	0.219	191.1
S7A.1	S9A	48	900	0	1.110	139.750	0.402	0.001	0.023	0.0	139.600	0.552	-0.007	0.078	0.1
S9.1	S10	7	450	0	0.323	139.591	0.560	0.022	0.465	279.0x	139.521	0.630	0.023	0.275	279.0x
S9A.1	S9	2	450	0	0.180	139.600	0.552	0.010	0.206	88.1x	139.591	0.560	0.010	0.195	88.0x

+ after total flow indicates a conduit surcharged by flow and depth at that end.

x after total flow indicates a conduit surcharged by depth only at that end.

NOTE :

- (i) Maximum elevations, depths, volumes, velocities and discharges are selected from the values at each time increment and will be in general more extreme than the maximum values in the time varying results.
- (ii) Maximum elevations, velocities and discharges are not necessarily calculated at the same time.
- (iii) Maximum velocity is not calculated for a conduit unless the depth exceeds the base flow depth (by default, this is 5% of height for slopes <= 0.01, 10% otherwise, subject to a minimum of 0.02 m).

Start of run

configured for MS Windows

Produced on 2020-11-30 at 14:52

InfoWorks ICM SIM

Summary results from Simulation

Version 10.0.0.20012 (x64) dated May 2019

Licence Number - WS88880294PM

Message 253: Run finished for event 1.

Model network (version 10)

Event - 1 WS88880294PM Produced 2020-11-30 Pg 1

Summary results for event 1 - M100-660

Started at 0 day(s) 00:00:00. Run for 900.00 min. (Requested simulation time 900.00 min)

Files used:

Network: ...\\nnet131949#10.spb Model network (version 10)

State: ...\\1130_145202_initial.sp

Runoff: ...\\nnet131949#10.rpf Model network (version 10) (InfoWorks 10.0.0.20012(64bit))

Rainfall: ...\\133112eventiid80825.re M100-660 (0S): M5-60=20.0mm, r=0.20, AT=0.01km2 x1.30

DWF:

Inflows:

Levels:

RTC:

Results: ...\\sim133112.iwr

Total rainfall = 521.9 m3

Total runoff = 411.0 m3

Total inflow = 411.0 m3

Total outflow = 411.0 m3

Total lost = 0.0 m3

***** Node data *****

Node Reference	Ground Level (m AD)	Max Level (m AD)	Flood Volume (m3)	Flood Depth (m)	Flood Area (m2)	Max Stored (m3)	Inflow (m3)	Vol Balance (m3)	Vol Balance (%)
S10	141.700	140.104	0.0	0.000	0.0	2.0	120.8	0.000	0.000
S2	151.724	150.145	0.0	0.000	0.0	0.0	23.4	-0.000	0.000
S3	149.507	147.797	0.0	0.000	0.0	0.0	20.5	-0.000	0.000
S4	145.192	143.451	0.0	0.000	0.0	0.0	11.7	-0.000	0.000
S5	144.525	142.850	0.0	0.000	0.0	0.1	55.5	0.000	0.000
S6	142.360	140.509	0.0	0.000	0.0	0.1	87.6	-0.000	0.000
S7	142.211	140.105	0.0	0.000	0.0	1.3	0.0	-0.000	0.000
S7A	142.141	140.104	0.0	0.000	0.0	1.2	0.0	-0.000	0.000
S9	141.594	140.104	0.0	0.000	0.0	1.8	0.0	-0.000	0.000
S9A	141.594	140.104	0.0	0.000	0.0	1.8	91.5	-0.000	0.000

A %% indicates water lost from the system.

***** Link data *****

Link Reference	D/S Node	Pipe Len (m)	Pipe Hgt (mm)	Sed Dpth (mm)	P.Full Flow (m3/s)	< Upstream				> Downstream				Total Flow (m3)	
						Invert Level (m AD)	Max Depth (m)	Max Flow (m3/s)	Max Vel (m/s)	Total Flow (m3)	Invert Level (m AD)	Max Depth (m)	Max Flow (m3/s)		Max Vel (m/s)
S10.1	OF					139.521	0.583	0.026		411.0	139.521	0.000	0.026		411.0
S2.1	S3	22	150	0	0.057	150.117	0.028	0.002	0.994	23.4	147.839	0.028	0.002	0.993	23.4
S3.1	S4	42	225	0	0.165	147.764	0.033	0.004	1.195	43.8	143.487	0.033	0.004	1.195	43.8
S4.1	S5	6	300	0	0.353	143.412	0.039	0.006	1.020	55.5	142.803	0.047	0.006	0.770	55.5
S5.1	S6	27	300	0	0.329	142.803	0.047	0.011	1.544	111.0	140.421	0.088	0.011	0.633	111.0
S6.1	S7	8	300	0	0.108	140.421	0.088	0.020	1.133	198.7	140.340	0.088	0.020	1.133	198.7
S7.1	S9	48	900	0	1.106	139.740	0.365	0.019	0.468	198.7	139.591	0.513	0.014	0.218	198.7
S7A.1	S9A	48	900	0	1.110	139.750	0.354	0.001	0.021	0.0	139.600	0.504	-0.006	0.075	0.1
S9.1	S10	7	450	0	0.323	139.591	0.513	0.022	0.463	290.2x	139.521	0.583	0.022	0.274	290.2x
S9A.1	S9	2	450	0	0.180	139.600	0.504	0.009	0.202	91.6x	139.591	0.513	0.010	0.190	91.6x

+ after total flow indicates a conduit surcharged by flow and depth at that end.

x after total flow indicates a conduit surcharged by depth only at that end.

NOTE :

- (i) Maximum elevations, depths, volumes, velocities and discharges are selected from the values at each time increment and will be in general more extreme than the maximum values in the time varying results.
- (ii) Maximum elevations, velocities and discharges are not necessarily calculated at the same time.
- (iii) Maximum velocity is not calculated for a conduit unless the depth exceeds the base flow depth (by default, this is 5% of height for slopes <= 0.01, 10% otherwise, subject to a minimum of 0.02 m).

Start of run

configured for MS Windows

Produced on 2020-11-30 at 14:52

InfoWorks ICM SIM

Summary results from Simulation

Version 10.0.0.20012 (x64) dated May 2019

Licence Number - WS88880294PM

Message 253: Run finished for event 1.

Model network (version 10)

Event - 1 WS88880294PM Produced 2020-11-30 Pg 1

Summary results for event 1 - M100-720

Started at 0 day(s) 00:00:00. Run for 900.00 min. (Requested simulation time 900.00 min)

Files used:

Network: ...\\nnet131949#10.spb Model network (version 10)

State: ...\\1130_145202_initial.sp

Runoff: ...\\nnet131949#10.rpf Model network (version 10) (InfoWorks 10.0.0.20012(64bit))

Rainfall: ...\\133113eventiid10228.re M100-720 (OS): M5-60=20.0mm, r=0.20, AT=0.01km2 x1.30

DWF:

Inflows:

Levels:

RTC:

Results: ...\\sim133113.iwr

Total rainfall = 537.0 m3

Total runoff = 422.9 m3

Total inflow = 422.9 m3

Total outflow = 422.9 m3

Total lost = 0.0 m3

***** Node data *****

Node Reference	Ground Level (m AD)	Max Level (m AD)	Flood Volume (m3)	Flood Depth (m)	Flood Area (m2)	Max Stored (m3)	Inflow (m3)	Vol Balance (m3)	Vol Balance (%)
S10	141.700	140.051	0.0	0.000	0.0	1.9	124.3	0.000	0.000
S2	151.724	150.145	0.0	0.000	0.0	0.0	24.1	-0.000	0.000
S3	149.507	147.797	0.0	0.000	0.0	0.0	21.0	-0.000	0.000
S4	145.192	143.451	0.0	0.000	0.0	0.0	12.0	-0.000	0.000
S5	144.525	142.849	0.0	0.000	0.0	0.1	57.1	0.000	0.000
S6	142.360	140.507	0.0	0.000	0.0	0.1	90.2	-0.000	0.000
S7	142.211	140.052	0.0	0.000	0.0	1.1	0.0	-0.000	0.000
S7A	142.141	140.052	0.0	0.000	0.0	1.1	0.0	0.000	0.000
S9	141.594	140.052	0.0	0.000	0.0	1.6	0.0	-0.000	0.000
S9A	141.594	140.052	0.0	0.000	0.0	1.6	94.2	-0.000	0.000

A %% indicates water lost from the system.

***** Link data *****

Link Reference	D/S Node	Pipe Len (m)	Pipe Hgt (mm)	Sed Dpth (mm)	P.Full Flow (m3/s)	< Upstream				> Downstream				Total Flow (m3)	
						Invert Level (m AD)	Max Depth (m)	Max Flow (m3/s)	Max Vel (m/s)	Total Flow (m3)	Invert Level (m AD)	Max Depth (m)	Max Flow (m3/s)		Max Vel (m/s)
S10.1	OF					139.521	0.530	0.027		422.9	139.521	0.000	0.027		422.9
S2.1	S3	22	150	0	0.057	150.117	0.028	0.002	0.957	24.1	147.839	0.028	0.002	0.957	24.1
S3.1	S4	42	225	0	0.165	147.764	0.033	0.004	1.153	45.1	143.487	0.033	0.004	1.152	45.1
S4.1	S5	6	300	0	0.353	143.412	0.039	0.005	0.978	57.1	142.803	0.046	0.005	0.745	57.1
S5.1	S6	27	300	0	0.329	142.803	0.046	0.010	1.493	114.2	140.421	0.086	0.010	0.621	114.2
S6.1	S7	8	300	0	0.108	140.421	0.086	0.019	1.113	204.4	140.340	0.086	0.019	1.113	204.4
S7.1	S9	48	900	0	1.106	139.740	0.312	0.018	0.464	204.4	139.591	0.461	0.014	0.218	204.5
S7A.1	S9A	48	900	0	1.110	139.750	0.302	0.000	0.019	0.0	139.600	0.452	0.005	0.065	0.1
S9.1	S10	7	450	0	0.323	139.591	0.461	0.021	0.459	298.7x	139.521	0.530	0.022	0.271	298.6x
S9A.1	S9	2	450	0	0.180	139.600	0.452	0.009	0.194	94.2x	139.591	0.461	0.009	0.182	94.2x

+ after total flow indicates a conduit surcharged by flow and depth at that end.

x after total flow indicates a conduit surcharged by depth only at that end.

NOTE :

- (i) Maximum elevations, depths, volumes, velocities and discharges are selected from the values at each time increment and will be in general more extreme than the maximum values in the time varying results.
- (ii) Maximum elevations, velocities and discharges are not necessarily calculated at the same time.
- (iii) Maximum velocity is not calculated for a conduit unless the depth exceeds the base flow depth (by default, this is 5% of height for slopes <= 0.01, 10% otherwise, subject to a minimum of 0.02 m).

Start of run

configured for MS Windows

Produced on 2020-11-30 at 14:52

InfoWorks ICM SIM

Summary results from Simulation

Version 10.0.0.20012 (x64) dated May 2019

Licence Number - WS88880294PM

Message 253: Run finished for event 1.

Model network (version 10)

Event - 1 WS88880294PM Produced 2020-11-30 Pg 1

Summary results for event 1 - M100-780

Started at 0 day(s) 00:00:00. Run for 900.00 min. (Requested simulation time 900.00 min)

Files used:

Network: ...\\nnet131949#10.spb Model network (version 10)

State: ...\\1130_145202_initial.sp

Runoff: ...\\nnet131949#10.rpf Model network (version 10) (InfoWorks 10.0.0.20012(64bit))

Rainfall: ...\\133114eventiid91237.re M100-780 (0S): M5-60=20.0mm, r=0.20, AT=0.01km2 x1.30

DWF:

Inflows:

Levels:

RTC:

Results: ...\\sim133114.iwr

Total rainfall = 551.2 m3

Total runoff = 434.1 m3

Total inflow = 434.1 m3

Total outflow = 434.1 m3

Total lost = 0.0 m3

***** Node data *****

Node Reference	Ground Level (m AD)	Max Level (m AD)	Flood Volume (m3)	Flood Depth (m)	Flood Area (m2)	Max Stored (m3)	Inflow (m3)	Vol Balance (m3)	Vol Balance (%)
S10	141.700	140.003	0.0	0.000	0.0	1.7	127.5	0.000	0.000
S2	151.724	150.145	0.0	0.000	0.0	0.0	24.7	-0.000	0.000
S3	149.507	147.796	0.0	0.000	0.0	0.0	21.6	-0.000	0.000
S4	145.192	143.450	0.0	0.000	0.0	0.0	12.3	0.000	0.000
S5	144.525	142.849	0.0	0.000	0.0	0.1	58.6	0.000	0.000
S6	142.360	140.505	0.0	0.000	0.0	0.1	92.6	-0.000	0.000
S7	142.211	140.004	0.0	0.000	0.0	0.9	0.0	-0.000	0.000
S7A	142.141	140.004	0.0	0.000	0.0	0.9	0.0	-0.000	0.000
S9	141.594	140.004	0.0	0.000	0.0	1.4	0.0	-0.000	0.000
S9A	141.594	140.004	0.0	0.000	0.0	1.4	96.7	-0.000	0.000

A %% indicates water lost from the system.

***** Link data *****

Link Reference	D/S Node	Pipe Len (m)	Pipe Hgt (mm)	Sed Dpth (mm)	P.Full Flow (m3/s)	< Upstream				> Downstream				Total Flow (m3)	
						Invert Level (m AD)	Max Depth (m)	Max Flow (m3/s)	Max Vel (m/s)	Total Flow (m3)	Invert Level (m AD)	Max Depth (m)	Max Flow (m3/s)		Max Vel (m/s)
S10.1	OF					139.521	0.482	0.027		434.1	139.521	0.000	0.027		434.1
S2.1	S3	22	150	0	0.057	150.117	0.028	0.002	0.924	24.7	147.839	0.028	0.002	0.924	24.7
S3.1	S4	42	225	0	0.165	147.764	0.032	0.004	1.114	46.3	143.487	0.032	0.004	1.114	46.3
S4.1	S5	6	300	0	0.353	143.412	0.038	0.005	0.941	58.6	142.803	0.046	0.005	0.722	58.6
S5.1	S6	27	300	0	0.329	142.803	0.046	0.010	1.446	117.3	140.421	0.084	0.010	0.611	117.3
S6.1	S7	8	300	0	0.108	140.421	0.084	0.018	1.094	209.8	140.340	0.084	0.018	1.094	209.8
S7.1	S9	48	900	0	1.106	139.740	0.264	0.017	0.465	209.8	139.591	0.413	0.014	0.218	209.9
S7A.1	S9A	48	900	0	1.110	139.750	0.254	0.000	0.017	0.0	139.600	0.404	0.005	0.058	0.1
S9.1	S10	7	450	0	0.323	139.591	0.413	0.021	0.458	306.6	139.521	0.482	0.022	0.271	306.5x
S9A.1	S9	2	450	0	0.180	139.600	0.404	0.009	0.188	96.7	139.591	0.413	0.009	0.176	96.7

+ after total flow indicates a conduit surcharged by flow and depth at that end.

x after total flow indicates a conduit surcharged by depth only at that end.

NOTE :

- (i) Maximum elevations, depths, volumes, velocities and discharges are selected from the values at each time increment and will be in general more extreme than the maximum values in the time varying results.
- (ii) Maximum elevations, velocities and discharges are not necessarily calculated at the same time.
- (iii) Maximum velocity is not calculated for a conduit unless the depth exceeds the base flow depth (by default, this is 5% of height for slopes <= 0.01, 10% otherwise, subject to a minimum of 0.02 m).

Start of run

configured for MS Windows

Produced on 2020-11-30 at 14:52

InfoWorks ICM SIM

Summary results from Simulation

Version 10.0.0.20012 (x64) dated May 2019

Licence Number - WS88880294PM

Message 253: Run finished for event 1.

Model network (version 10)

Event - 1 WS88880294PM Produced 2020-11-30 Pg 1

Summary results for event 1 - M100-840

Started at 0 day(s) 00:00:00. Run for 900.00 min. (Requested simulation time 900.00 min)

Files used:

Network: ...\\nnet131949#10.spb Model network (version 10)

State: ...\\1130_145202_initial.sp

Runoff: ...\\nnet131949#10.rpf Model network (version 10) (InfoWorks 10.0.0.20012(64bit))

Rainfall: ...\\133115eventiid47325.re M100-840 (0S): M5-60=20.0mm, r=0.20, AT=0.01km2 x1.30

DWF:

Inflows:

Levels:

RTC:

Results: ...\\sim133115.iwr

Total rainfall = 564.6 m3

Total runoff = 444.6 m3

Total inflow = 444.6 m3

Total outflow = 444.6 m3

Total lost = 0.0 m3

***** Node data *****

Node Reference	Ground Level (m AD)	Max Level (m AD)	Flood Volume (m3)	Flood Depth (m)	Flood Area (m2)	Max Stored (m3)	Inflow (m3)	Vol Balance (m3)	Vol Balance (%)
S10	141.700	139.960	0.0	0.000	0.0	1.5	130.6	-0.000	0.000
S2	151.724	150.144	0.0	0.000	0.0	0.0	25.3	-0.000	0.000
S3	149.507	147.796	0.0	0.000	0.0	0.0	22.1	-0.000	0.000
S4	145.192	143.450	0.0	0.000	0.0	0.0	12.6	-0.000	0.000
S5	144.525	142.848	0.0	0.000	0.0	0.0	60.1	-0.000	0.000
S6	142.360	140.503	0.0	0.000	0.0	0.1	94.8	-0.000	0.000
S7	142.211	139.961	0.0	0.000	0.0	0.8	0.0	-0.000	0.000
S7A	142.141	139.961	0.0	0.000	0.0	0.7	0.0	-0.000	0.000
S9	141.594	139.960	0.0	0.000	0.0	1.3	0.0	0.000	0.000
S9A	141.594	139.960	0.0	0.000	0.0	1.3	99.0	0.000	0.000

A %% indicates water lost from the system.

***** Link data *****

Link Reference	D/S Node	Pipe Len (m)	Pipe Hgt (mm)	Sed Dpth (mm)	P.Full Flow (m3/s)	< Upstream				> Downstream				> Total Flow (m3)	
						Invert Level (m AD)	Max Depth (m)	Max Flow (m3/s)	Max Vel (m/s)	Total Flow (m3)	Invert Level (m AD)	Max Depth (m)	Max Flow (m3/s)		Max Vel (m/s)
S10.1	OF					139.521	0.439	0.027		444.6	139.521	0.000	0.027		444.6
S2.1	S3	22	150	0	0.057	150.117	0.027	0.002	0.894	25.3	147.839	0.027	0.002	0.894	25.3
S3.1	S4	42	225	0	0.165	147.764	0.032	0.004	1.079	47.4	143.487	0.032	0.004	1.079	47.4
S4.1	S5	6	300	0	0.353	143.412	0.038	0.005	0.907	60.1	142.803	0.045	0.005	0.701	60.1
S5.1	S6	27	300	0	0.329	142.803	0.045	0.009	1.404	120.1	140.421	0.082	0.009	0.601	120.1
S6.1	S7	8	300	0	0.108	140.421	0.082	0.017	1.076	214.9	140.340	0.082	0.017	1.076	214.9
S7.1	S9	48	900	0	1.106	139.740	0.221	0.016	0.461	214.9	139.591	0.369	0.013	0.218	215.0
S7A.1	S9A	48	900	0	1.110	139.750	0.211	0.000	0.014	0.0	139.600	0.360	0.004	0.048	0.1
S9.1	S10	7	450	0	0.323	139.591	0.369	0.021	0.458	314.0	139.521	0.439	0.021	0.271	314.0
S9A.1	S9	2	450	0	0.180	139.600	0.360	0.008	0.178	99.1	139.591	0.369	0.008	0.167	99.1

+ after total flow indicates a conduit surcharged by flow and depth at that end.

x after total flow indicates a conduit surcharged by depth only at that end.

NOTE :

- (i) Maximum elevations, depths, volumes, velocities and discharges are selected from the values at each time increment and will be in general more extreme than the maximum values in the time varying results.
- (ii) Maximum elevations, velocities and discharges are not necessarily calculated at the same time.
- (iii) Maximum velocity is not calculated for a conduit unless the depth exceeds the base flow depth (by default, this is 5% of height for slopes <= 0.01, 10% otherwise, subject to a minimum of 0.02 m).

Start of run

configured for MS Windows

Produced on 2020-11-30 at 14:52

InfoWorks ICM SIM

Summary results from Simulation

Version 10.0.0.20012 (x64) dated May 2019

Licence Number - WS88880294PM

Message 253: Run finished for event 1.

Model network (version 10)

Event - 1 WS88880294PM Produced 2020-11-30 Pg 1

Summary results for event 1 - M100-900

Started at 0 day(s) 00:00:00. Run for 900.00 min. (Requested simulation time 900.00 min)

Files used:

Network: ...\\nnet131949#10.spb Model network (version 10)

State: ...\\1130_145202_initial.sp

Runoff: ...\\nnet131949#10.rpf Model network (version 10) (InfoWorks 10.0.0.20012(64bit))

Rainfall: ...\\133116eventiid91666.re M100-900 (0S): M5-60=20.0mm, r=0.20, AT=0.01km2 x1.30

DWF:

Inflows:

Levels:

RTC:

Results: ...\\sim133116.iwr

Total rainfall = 577.3 m3

Total runoff = 454.1 m3

Total inflow = 454.1 m3

Total outflow = 453.8 m3

Total lost = 0.0 m3

***** Node data *****

Node Reference	Ground Level (m AD)	Max Level (m AD)	Flood Volume (m3)	Flood Depth (m)	Flood Area (m2)	Max Stored (m3)	Inflow (m3)	Vol Balance (m3)	Vol Balance (%)
S10	141.700	139.922	0.0	0.000	0.0	1.4	133.4	0.000	0.000
S2	151.724	150.144	0.0	0.000	0.0	0.0	25.8	-0.000	0.000
S3	149.507	147.795	0.0	0.000	0.0	0.0	22.6	0.000	0.000
S4	145.192	143.449	0.0	0.000	0.0	0.0	12.9	-0.000	0.000
S5	144.525	142.848	0.0	0.000	0.0	0.0	61.4	0.000	0.000
S6	142.360	140.501	0.0	0.000	0.0	0.1	96.9	-0.000	0.000
S7	142.211	139.924	0.0	0.000	0.0	0.6	0.0	0.000	0.000
S7A	142.141	139.923	0.0	0.000	0.0	0.6	0.0	-0.000	0.000
S9	141.594	139.922	0.0	0.000	0.0	1.2	0.0	-0.000	0.000
S9A	141.594	139.922	0.0	0.000	0.0	1.1	101.2	-0.000	0.000

A %% indicates water lost from the system.

***** Link data *****

Link Reference	D/S Node	Pipe Len (m)	Pipe Hgt (mm)	Sed Dpth (mm)	P.Full Flow (m3/s)	< Upstream				> Downstream				Total Flow (m3)	
						Invert Level (m AD)	Max Depth (m)	Max Flow (m3/s)	Max Vel (m/s)	Total Flow (m3)	Invert Level (m AD)	Max Depth (m)	Max Flow (m3/s)		Max Vel (m/s)
S10.1	OF					139.521	0.401	0.027		453.8	139.521	0.000	0.027		453.8
S2.1	S3	22	150	0	0.057	150.117	0.027	0.002	0.866	25.8	147.839	0.027	0.002	0.866	25.8
S3.1	S4	42	225	0	0.165	147.764	0.031	0.004	1.047	48.4	143.487	0.031	0.004	1.047	48.4
S4.1	S5	6	300	0	0.353	143.412	0.037	0.004	0.876	61.3	142.803	0.045	0.004	0.681	61.3
S5.1	S6	27	300	0	0.329	142.803	0.044	0.009	1.365	122.7	140.421	0.080	0.009	0.592	122.7
S6.1	S7	8	300	0	0.108	140.421	0.080	0.016	1.060	219.5	140.340	0.080	0.016	1.060	219.5
S7.1	S9	48	900	0	1.106	139.740	0.184	0.016	0.462	219.5	139.591	0.331	0.013	0.218	219.5
S7A.1	S9A	48	900	0	1.110	139.750	0.173	0.000	0.012	0.0	139.600	0.322	0.003	0.042	0.1
S9.1	S10	7	450	0	0.323	139.591	0.331	0.020	0.458	320.5	139.521	0.401	0.021	0.271	320.5
S9A.1	S9	2	450	0	0.180	139.600	0.322	0.008	0.173	101.2	139.591	0.331	0.008	0.162	101.1

+ after total flow indicates a conduit surcharged by flow and depth at that end.

x after total flow indicates a conduit surcharged by depth only at that end.

NOTE :

- (i) Maximum elevations, depths, volumes, velocities and discharges are selected from the values at each time increment and will be in general more extreme than the maximum values in the time varying results.
- (ii) Maximum elevations, velocities and discharges are not necessarily calculated at the same time.
- (iii) Maximum velocity is not calculated for a conduit unless the depth exceeds the base flow depth (by default, this is 5% of height for slopes <= 0.01, 10% otherwise, subject to a minimum of 0.02 m).

SIMULATION RESULTS

1 in 100 year + CC RETURN PERIOD
(Winter)

Start of run

configured for MS Windows

Produced on 2021-02-05 at 13:54

InfoWorks ICM SIM

Summary results from Simulation

Version 10.0.0.20012 (x64) dated May 2019

Licence Number - WS88880294PM

Message 253: Run finished for event 1.

Model network (version 11)

Event - 1 WS88880294PM Produced 2021-02-05 Pg 1

Summary results for event 1 - M100-15

Started at 0 day(s) 00:00:00. Run for 2000.00 min. (Requested simulation time 2000.00 min)

Files used:

Network: ...\\nnet131949#11.spb Model network (version 11)

State:

Runoff: ...\\nnet131949#11.rpf Model network (version 11) (InfoWorks 10.0.0.20012(64bit))

Rainfall: ...136593eventiid54287.re M100-15 (OW): M5-60=20.0mm, r=0.40, AT=0.00km2 x1.30

DWF:

Inflows:

Levels:

RTC:

Results: ...\\sim136593.iwr

Total rainfall	=	136.1 m3
Total runoff	=	103.3 m3
Total inflow	=	103.3 m3
Total outflow	=	103.2 m3
Total lost	=	0.0 m3

***** Node data *****

Node Reference	Ground Level (m AD)	Max Level (m AD)	Flood Volume (m3)	Flood Depth (m)	Flood Area (m2)	Max Stored (m3)	Inflow (m3)	Vol Balance (m3)	Vol Balance (%)
S10	141.700	140.582	0.0	0.000	0.0	3.7	30.4	-0.000	0.000
S2	151.724	150.172	0.0	0.000	0.0	0.1	5.9	0.000	0.000
S3	149.507	147.829	0.0	0.000	0.0	0.1	5.1	-0.000	0.000
S4	145.192	143.481	0.0	0.000	0.0	0.1	2.9	-0.000	0.000
S5	144.525	142.899	0.0	0.000	0.0	0.1	14.0	0.000	0.000
S6	142.360	140.708	0.0	0.000	0.0	0.3	22.0	-0.000	0.000
S7	142.211	140.582	0.0	0.000	0.0	2.9	0.0	0.000	0.000
S7A	142.141	140.583	0.0	0.000	0.0	2.9	0.0	-0.000	0.000
S9	141.594	140.582	0.0	0.000	0.0	3.5	0.0	-0.000	0.000
S9A	141.594	140.582	0.0	0.000	0.0	3.4	23.0	-0.000	0.000

A %% indicates water lost from the system.

***** Link data *****

Link Reference	D/S Node	Pipe Len (m)	Pipe Hgt (mm)	Sed Dpth (mm)	P.Full Flow (m3/s)	< Upstream				> Downstream				Total Flow (m3)	
						Invert Level (m AD)	Max Depth (m)	Max Flow (m3/s)	Max Vel (m/s)	Total Flow (m3)	Invert Level (m AD)	Max Depth (m)	Max Flow (m3/s)		Max Vel (m/s)
S10.1	OF					139.521	1.061	0.026		103.2	139.521	0.000	0.026		103.2
S2.1	S3	22	150	0	0.057	150.117	0.055	0.014	2.393	5.9	147.839	0.055	0.014	2.397	5.9
S3.1	S4	42	225	0	0.165	147.764	0.064	0.026	2.795	11.0	143.487	0.064	0.026	2.799	11.0
S4.1	S5	6	300	0	0.353	143.412	0.068	0.033	2.743	14.0	142.803	0.096	0.033	1.693	14.0
S5.1	S6	27	300	0	0.329	142.803	0.096	0.066	3.407	27.9	140.421	0.287	0.066	0.951	27.9
S6.1	S7	8	300	0	0.108	140.421	0.273	0.117	1.744	50.0	140.340	0.267	0.117	1.765	50.0
S7.1	S9	48	900	0	1.106	139.740	0.842	0.110	0.879	50.0	139.591	0.991	0.029	0.296	50.0x
S7A.1	S9A	48	900	0	1.110	139.750	0.833	-0.007	-0.079	0.0	139.600	0.982	-0.094	-0.341	-0.0x
S9.1	S10	7	450	0	0.323	139.591	0.991	-0.034	0.594	72.8x	139.521	1.061	-0.034	0.307	72.8x
S9A.1	S9	2	450	0	0.180	139.600	0.982	-0.048	0.290	23.0x	139.591	0.991	-0.048	-0.286	23.0x

+ after total flow indicates a conduit surcharged by flow and depth at that end.

x after total flow indicates a conduit surcharged by depth only at that end.

NOTE :

- (i) Maximum elevations, depths, volumes, velocities and discharges are selected from the values at each time increment and will be in general more extreme than the maximum values in the time varying results.
- (ii) Maximum elevations, velocities and discharges are not necessarily calculated at the same time.
- (iii) Maximum velocity is not calculated for a conduit unless the depth exceeds the base flow depth (by default, this is 5% of height for slopes <= 0.01, 10% otherwise, subject to a minimum of 0.02 m).

Start of run

configured for MS Windows

Produced on 2021-02-05 at 13:54

InfoWorks ICM SIM

Summary results from Simulation

Version 10.0.0.20012 (x64) dated May 2019

Licence Number - WS88880294PM

Message 253: Run finished for event 1.

Model network (version 11)

Event - 1 WS88880294PM Produced 2021-02-05 Pg 1

Summary results for event 1 - M100-60

Started at 0 day(s) 00:00:00. Run for 2000.00 min. (Requested simulation time 2000.00 min)

Files used:

Network: ...\\nnet131949#11.spb Model network (version 11)

State: ...0205_135415_initial.sp

Runoff: ...\\nnet131949#11.rpf Model network (version 11) (InfoWorks 10.0.0.20012(64bit))

Rainfall: ...136595eventiid82019.re M100-60 (0W): M5-60=20.0mm, r=0.40, AT=0.00km2 x1.30

DWF:

Inflows:

Levels:

RTC:

Results: ...\\sim136595.iwr

Total rainfall = 217.3 m3

Total runoff = 165.0 m3

Total inflow = 165.0 m3

Total outflow = 164.9 m3

Total lost = 0.0 m3

***** Node data *****

Node Reference	Ground Level (m AD)	Max Level (m AD)	Flood Volume (m3)	Flood Depth (m)	Flood Area (m2)	Max Stored (m3)	Inflow (m3)	Vol Balance (m3)	Vol Balance (%)
S10	141.700	140.983	0.0	0.000	0.0	5.1	48.5	-0.000	0.000
S2	151.724	150.156	0.0	0.000	0.0	0.0	9.4	0.000	0.000
S3	149.507	147.810	0.0	0.000	0.0	0.1	8.2	-0.000	0.000
S4	145.192	143.463	0.0	0.000	0.0	0.1	4.7	-0.000	0.000
S5	144.525	142.871	0.0	0.000	0.0	0.1	22.3	0.000	0.000
S6	142.360	140.985	0.0	0.000	0.0	0.6	35.2	0.000	0.000
S7	142.211	140.983	0.0	0.000	0.0	4.4	0.0	0.000	0.000
S7A	142.141	140.984	0.0	0.000	0.0	4.3	0.0	0.000	0.000
S9	141.594	140.983	0.0	0.000	0.0	4.9	0.0	0.000	0.000
S9A	141.594	140.983	0.0	0.000	0.0	4.8	36.8	-0.000	0.000

A %% indicates water lost from the system.

***** Link data *****

Link Reference	D/S Node	Pipe Len (m)	Pipe Hgt (mm)	Sed Dpth (mm)	P.Full Flow (m3/s)	< Upstream				> Downstream				> Total Flow (m3)	
						Invert Level (m AD)	Max Depth (m)	Max Flow (m3/s)	Max Vel (m/s)	Total Flow (m3)	Invert Level (m AD)	Max Depth (m)	Max Flow (m3/s)		Max Vel (m/s)
S10.1	OF					139.521	1.462	0.027		164.9	139.521	0.000	0.027		164.9
S2.1	S3	22	150	0	0.057	150.117	0.039	0.006	1.723	9.4	147.839	0.039	0.006	1.723	9.4
S3.1	S4	42	225	0	0.165	147.764	0.046	0.012	2.028	17.6	143.487	0.046	0.012	2.028	17.6
S4.1	S5	6	300	0	0.353	143.412	0.051	0.015	1.890	22.3	142.803	0.068	0.015	1.253	22.3
S5.1	S6	27	300	0	0.329	142.803	0.067	0.030	2.525	44.6	140.421	0.564	0.030	0.843	44.6x
S6.1	S7	8	300	0	0.108	140.421	0.564	0.054	1.509	79.8x	140.340	0.644	0.054	1.509	79.8x
S7.1	S9	48	900	0	1.106	139.740	1.243	0.051	0.607	79.8x	139.591	1.392	0.019	0.240	79.8x
S7A.1	S9A	48	900	0	1.110	139.750	1.234	-0.005	-0.048	0.0x	139.600	1.383	-0.038	0.134	0.0x
S9.1	S10	7	450	0	0.323	139.591	1.392	0.025	0.498	116.4x	139.521	1.462	0.026	0.305	116.4x
S9A.1	S9	2	450	0	0.180	139.600	1.383	-0.016	0.255	36.7x	139.591	1.392	-0.016	0.245	36.7x

+ after total flow indicates a conduit surcharged by flow and depth at that end.

x after total flow indicates a conduit surcharged by depth only at that end.

NOTE :

- (i) Maximum elevations, depths, volumes, velocities and discharges are selected from the values at each time increment and will be in general more extreme than the maximum values in the time varying results.
- (ii) Maximum elevations, velocities and discharges are not necessarily calculated at the same time.
- (iii) Maximum velocity is not calculated for a conduit unless the depth exceeds the base flow depth (by default, this is 5% of height for slopes <= 0.01, 10% otherwise, subject to a minimum of 0.02 m).

Start of run

configured for MS Windows

Produced on 2021-02-05 at 13:54

InfoWorks ICM SIM

Summary results from Simulation

Version 10.0.0.20012 (x64) dated May 2019

Licence Number - WS88880294PM

Message 253: Run finished for event 1.

Model network (version 11)

Event - 1 WS88880294PM Produced 2021-02-05 Pg 1

Summary results for event 1 - M100-90

Started at 0 day(s) 00:00:00. Run for 2000.00 min. (Requested simulation time 2000.00 min)

Files used:

Network: ...\\nnet131949#11.spb Model network (version 11)

State: ...0205_135415_initial.sp

Runoff: ...\\nnet131949#11.rpf Model network (version 11) (InfoWorks 10.0.0.20012(64bit))

Rainfall: ...136596eventiid41929.re M100-90 (OW): M5-60=20.0mm, r=0.40, AT=0.00km2 x1.30

DWF:

Inflows:

Levels:

RTC:

Results: ...\\sim136596.iwr

Total rainfall = 243.5 m3

Total runoff = 184.9 m3

Total inflow = 184.9 m3

Total outflow = 184.8 m3

Total lost = 0.0 m3

***** Node data *****

Node Reference	Ground Level (m AD)	Max Level (m AD)	Flood Volume (m3)	Flood Depth (m)	Flood Area (m2)	Max Stored (m3)	Inflow (m3)	Vol Balance (m3)	Vol Balance (%)
S10	141.700	140.659	0.0	0.000	0.0	4.0	54.3	-0.000	0.000
S2	151.724	150.152	0.0	0.000	0.0	0.0	10.5	-0.000	0.000
S3	149.507	147.806	0.0	0.000	0.0	0.0	9.2	0.000	0.000
S4	145.192	143.459	0.0	0.000	0.0	0.1	5.3	0.000	0.000
S5	144.525	142.863	0.0	0.000	0.0	0.1	25.0	-0.000	0.000
S6	142.360	140.661	0.0	0.000	0.0	0.3	39.4	0.000	0.000
S7	142.211	140.659	0.0	0.000	0.0	3.2	0.0	0.000	0.000
S7A	142.141	140.659	0.0	0.000	0.0	3.2	0.0	0.000	0.000
S9	141.594	140.659	0.0	0.000	0.0	3.7	0.0	0.000	0.000
S9A	141.594	140.659	0.0	0.000	0.0	3.7	41.2	-0.000	0.000

A %% indicates water lost from the system.

***** Link data *****

Link Reference	D/S Node	Pipe Len (m)	Pipe Hgt (mm)	Sed Dpth (mm)	P.Full Flow (m3/s)	< Upstream				> Downstream					Total Flow (m3)
						Invert Level (m AD)	Max Depth (m)	Max Flow (m3/s)	Max Vel (m/s)	Total Flow (m3)	Invert Level (m AD)	Max Depth (m)	Max Flow (m3/s)	Max Vel (m/s)	
S10.1	OF					139.521	1.138	0.026		184.8	139.521	0.000	0.026		184.8
S2.1	S3	22	150	0	0.057	150.117	0.035	0.005	1.496	10.5	147.839	0.035	0.005	1.496	10.5
S3.1	S4	42	225	0	0.165	147.764	0.041	0.009	1.770	19.7	143.487	0.041	0.009	1.770	19.7
S4.1	S5	6	300	0	0.353	143.412	0.047	0.011	1.612	25.0	142.803	0.060	0.011	1.105	25.0
S5.1	S6	27	300	0	0.329	142.803	0.060	0.023	2.225	50.0	140.421	0.240	0.023	0.781	50.0
S6.1	S7	8	300	0	0.108	140.421	0.240	0.040	1.398	89.4	140.340	0.319	0.040	1.398	89.4x
S7.1	S9	48	900	0	1.106	139.740	0.919	0.038	0.565	89.4x	139.591	1.068	0.016	0.222	89.4x
S7A.1	S9A	48	900	0	1.110	139.750	0.909	-0.002	-0.037	0.0x	139.600	1.059	-0.025	0.134	-0.0x
S9.1	S10	7	450	0	0.323	139.591	1.068	0.025	0.499	130.5x	139.521	1.138	0.026	0.327	130.5x
S9A.1	S9	2	450	0	0.180	139.600	1.059	0.013	0.256	41.1x	139.591	1.068	0.013	0.245	41.1x

+ after total flow indicates a conduit surcharged by flow and depth at that end.

x after total flow indicates a conduit surcharged by depth only at that end.

NOTE :

- (i) Maximum elevations, depths, volumes, velocities and discharges are selected from the values at each time increment and will be in general more extreme than the maximum values in the time varying results.
- (ii) Maximum elevations, velocities and discharges are not necessarily calculated at the same time.
- (iii) Maximum velocity is not calculated for a conduit unless the depth exceeds the base flow depth (by default, this is 5% of height for slopes <= 0.01, 10% otherwise, subject to a minimum of 0.02 m).

Start of run

configured for MS Windows

Produced on 2021-02-05 at 13:54

InfoWorks ICM SIM

Summary results from Simulation

Version 10.0.0.20012 (x64) dated May 2019

Licence Number - WS88880294PM

Message 253: Run finished for event 1.

Model network (version 11)

Event -

1 WS88880294PM Produced 2021-02-05 Pg 1

Summary results for event 1 - M100-120

Started at 0 day(s) 00:00:00. Run for 2000.00 min. (Requested simulation time 2000.00 min)

Files used:

Network: ...\\nnet131949#11.spb Model network (version 11)

State: ...0205_135415_initial.sp

Runoff: ...\\nnet131949#11.rpf Model network (version 11) (InfoWorks 10.0.0.20012(64bit))

Rainfall: ...136597eventiid27833.re M100-120 (OW): M5-60=20.0mm, r=0.40, AT=0.00km2 x1.30

DWF:

Inflows:

Levels:

RTC:

Results: ...\\sim136597.iwr

Total rainfall = 262.4 m3

Total runoff = 199.3 m3

Total inflow = 199.3 m3

Total outflow = 199.0 m3

Total lost = 0.0 m3

***** Node data *****

Node Reference	Ground Level (m AD)	Max Level (m AD)	Flood Volume (m3)	Flood Depth (m)	Flood Area (m2)	Max Stored (m3)	Inflow (m3)	Vol Balance (m3)	Vol Balance (%)
S10	141.700	140.479	0.0	0.000	0.0	3.4	58.6	-0.000	0.000
S2	151.724	150.150	0.0	0.000	0.0	0.0	11.3	0.000	0.000
S3	149.507	147.803	0.0	0.000	0.0	0.0	9.9	-0.000	0.000
S4	145.192	143.456	0.0	0.000	0.0	0.0	5.7	-0.000	0.000
S5	144.525	142.859	0.0	0.000	0.0	0.1	26.9	-0.000	0.000
S6	142.360	140.535	0.0	0.000	0.0	0.1	42.5	-0.000	0.000
S7	142.211	140.479	0.0	0.000	0.0	2.6	0.0	0.000	0.000
S7A	142.141	140.479	0.0	0.000	0.0	2.6	0.0	-0.000	0.000
S9	141.594	140.479	0.0	0.000	0.0	3.1	0.0	-0.000	0.000
S9A	141.594	140.479	0.0	0.000	0.0	3.1	44.4	-0.000	0.000

A %% indicates water lost from the system.

***** Link data *****

Link Reference	D/S Node	Pipe Len (m)	Pipe Hgt (mm)	Sed Dpth (mm)	P.Full Flow (m3/s)	< Upstream				> Downstream				>		
						Invert Level (m AD)	Max Depth (m)	Max Flow (m3/s)	Max Vel (m/s)	Total Flow (m3)	Invert Level (m AD)	Max Depth (m)	Max Flow (m3/s)		Max Vel (m/s)	Total Flow (m3)
S10.1	OF					139.521	0.958	0.026		199.0	139.521	0.000	0.026		199.0	
S2.1	S3	22	150	0	0.057	150.117	0.033	0.004	1.337	11.3	147.839	0.033	0.004	1.337	11.3	
S3.1	S4	42	225	0	0.165	147.764	0.038	0.007	1.589	21.3	143.487	0.038	0.007	1.589	21.3	
S4.1	S5	6	300	0	0.353	143.412	0.044	0.009	1.420	26.9	142.803	0.056	0.009	1.001	26.9	
S5.1	S6	27	300	0	0.329	142.803	0.056	0.018	2.012	53.8	140.421	0.114	0.018	0.736	53.8	
S6.1	S7	8	300	0	0.108	140.421	0.114	0.033	1.317	96.3	140.340	0.139	0.033	1.317	96.3	
S7.1	S9	48	900	0	1.106	139.740	0.739	0.031	0.538	96.3	139.591	0.888	0.015	0.221	96.3	
S7A.1	S9A	48	900	0	1.110	139.750	0.729	-0.001	0.036	0.0	139.600	0.879	-0.018	0.133	-0.0	
S9.1	S10	7	450	0	0.323	139.591	0.888	0.025	0.495	140.5x	139.521	0.958	0.025	0.302	140.5x	
S9A.1	S9	2	450	0	0.180	139.600	0.879	0.013	0.254	44.3x	139.591	0.888	0.013	0.244	44.3x	

+ after total flow indicates a conduit surcharged by flow and depth at that end.

x after total flow indicates a conduit surcharged by depth only at that end.

NOTE :

- (i) Maximum elevations, depths, volumes, velocities and discharges are selected from the values at each time increment and will be in general more extreme than the maximum values in the time varying results.
- (ii) Maximum elevations, velocities and discharges are not necessarily calculated at the same time.
- (iii) Maximum velocity is not calculated for a conduit unless the depth exceeds the base flow depth (by default, this is 5% of height for slopes <= 0.01, 10% otherwise, subject to a minimum of 0.02 m).

Start of run

configured for MS Windows

Produced on 2021-02-05 at 13:54

InfoWorks ICM SIM

Summary results from Simulation

Version 10.0.0.20012 (x64) dated May 2019

Licence Number - WS88880294PM

Message 253: Run finished for event 1.

Model network (version 11)

Event - 1 WS88880294PM Produced 2021-02-05 Pg 1

Summary results for event 1 - M100-240

Started at 0 day(s) 00:00:00. Run for 2000.00 min. (Requested simulation time 2000.00 min)

Files used:

Network: ...\\nnet131949#11.spb Model network (version 11)

State: ...0205_135415_initial.sp

Runoff: ...\\nnet131949#11.rpf Model network (version 11) (InfoWorks 10.0.0.20012(64bit))

Rainfall: ...136598eventiid40976.re M100-240 (0W): M5-60=20.0mm, r=0.40, AT=0.00km2 x1.30

DWF:

Inflows:

Levels:

RTC:

Results: ...\\sim136598.iwr

Total rainfall = 307.7 m3

Total runoff = 233.7 m3

Total inflow = 233.7 m3

Total outflow = 233.7 m3

Total lost = 0.0 m3

***** Node data *****

Node Reference	Ground Level (m AD)	Max Level (m AD)	Flood Volume (m3)	Flood Depth (m)	Flood Area (m2)	Max Stored (m3)	Inflow (m3)	Vol Balance (m3)	Vol Balance (%)
S10	141.700	140.075	0.0	0.000	0.0	1.9	68.7	-0.000	0.000
S2	151.724	150.145	0.0	0.000	0.0	0.0	13.3	-0.000	0.000
S3	149.507	147.797	0.0	0.000	0.0	0.0	11.6	-0.000	0.000
S4	145.192	143.451	0.0	0.000	0.0	0.0	6.6	-0.000	0.000
S5	144.525	142.850	0.0	0.000	0.0	0.1	31.6	-0.000	0.000
S6	142.360	140.508	0.0	0.000	0.0	0.1	49.8	-0.000	0.000
S7	142.211	140.076	0.0	0.000	0.0	1.2	0.0	-0.000	0.000
S7A	142.141	140.076	0.0	0.000	0.0	1.1	0.0	0.000	0.000
S9	141.594	140.076	0.0	0.000	0.0	1.7	0.0	-0.000	0.000
S9A	141.594	140.076	0.0	0.000	0.0	1.7	52.1	-0.000	0.000

A %% indicates water lost from the system.

***** Link data *****

Link Reference	D/S Node	Pipe Len (m)	Pipe Hgt (mm)	Sed Dpth (mm)	P.Full Flow (m3/s)	< Upstream				> Downstream				Total Flow (m3)	
						Invert Level (m AD)	Max Depth (m)	Max Flow (m3/s)	Max Vel (m/s)	Total Flow (m3)	Invert Level (m AD)	Max Depth (m)	Max Flow (m3/s)		Max Vel (m/s)
S10.1	OF					139.521	0.554	0.027		233.7	139.521	0.000	0.027		233.7
S2.1	S3	22	150	0	0.057	150.117	0.028	0.002	0.975	13.3	147.839	0.028	0.002	0.975	13.3
S3.1	S4	42	225	0	0.165	147.764	0.033	0.004	1.173	24.9	143.487	0.033	0.004	1.173	24.9
S4.1	S5	6	300	0	0.353	143.412	0.039	0.005	0.999	31.6	142.803	0.047	0.005	0.757	31.6
S5.1	S6	27	300	0	0.329	142.803	0.047	0.011	1.518	63.1	140.421	0.087	0.011	0.627	63.1
S6.1	S7	8	300	0	0.108	140.421	0.087	0.019	1.123	113.0	140.340	0.087	0.019	1.123	113.0
S7.1	S9	48	900	0	1.106	139.740	0.336	0.019	0.481	113.0	139.591	0.485	0.014	0.220	113.0
S7A.1	S9A	48	900	0	1.110	139.750	0.326	0.001	0.025	0.0	139.600	0.476	0.007	0.090	0.1
S9.1	S10	7	450	0	0.323	139.591	0.484	0.022	0.469	165.0x	139.521	0.554	0.023	0.283	165.0x
S9A.1	S9	2	450	0	0.180	139.600	0.476	0.010	0.214	52.1x	139.591	0.485	0.010	0.203	52.1x

+ after total flow indicates a conduit surcharged by flow and depth at that end.

x after total flow indicates a conduit surcharged by depth only at that end.

NOTE :

- (i) Maximum elevations, depths, volumes, velocities and discharges are selected from the values at each time increment and will be in general more extreme than the maximum values in the time varying results.
- (ii) Maximum elevations, velocities and discharges are not necessarily calculated at the same time.
- (iii) Maximum velocity is not calculated for a conduit unless the depth exceeds the base flow depth (by default, this is 5% of height for slopes <= 0.01, 10% otherwise, subject to a minimum of 0.02 m).

Start of run

configured for MS Windows

Produced on 2021-02-05 at 13:54

InfoWorks ICM SIM

Summary results from Simulation

Version 10.0.0.20012 (x64) dated May 2019

Licence Number - WS88880294PM

Message 253: Run finished for event 1.

Model network (version 11)

Event - 1 WS88880294PM Produced 2021-02-05 Pg 1

Summary results for event 1 - M100-360

Started at 0 day(s) 00:00:00. Run for 2000.00 min. (Requested simulation time 2000.00 min)

Files used:

Network: ...\\nnet131949#11.spb Model network (version 11)

State: ...0205_135415_initial.sp

Runoff: ...\\nnet131949#11.rpf Model network (version 11) (InfoWorks 10.0.0.20012(64bit))

Rainfall: ...136599eventiid22509.re M100-360 (OW): M5-60=20.0mm, r=0.40, AT=0.00km2 x1.30

DWF:

Inflows:

Levels:

RTC:

Results: ...\\sim136599.iwr

Total rainfall = 335.3 m3

Total runoff = 254.6 m3

Total inflow = 254.6 m3

Total outflow = 254.5 m3

Total lost = 0.0 m3

***** Node data *****

Node Reference	Ground Level (m AD)	Max Level (m AD)	Flood Volume (m3)	Flood Depth (m)	Flood Area (m2)	Max Stored (m3)	Inflow (m3)	Vol Balance (m3)	Vol Balance (%)
S10	141.700	139.823	0.0	0.000	0.0	1.1	74.8	0.000	0.000
S2	151.724	150.143	0.0	0.000	0.0	0.0	14.5	-0.000	0.000
S3	149.507	147.794	0.0	0.000	0.0	0.0	12.7	-0.000	0.000
S4	145.192	143.449	0.0	0.000	0.0	0.0	7.2	-0.000	0.000
S5	144.525	142.846	0.0	0.000	0.0	0.0	34.4	0.000	0.000
S6	142.360	140.496	0.0	0.000	0.0	0.1	54.3	-0.000	0.000
S7	142.211	139.841	0.0	0.000	0.0	0.4	0.0	-0.000	0.000
S7A	142.141	139.828	0.0	0.000	0.0	0.3	0.0	0.000	0.000
S9	141.594	139.824	0.0	0.000	0.0	0.8	0.0	-0.000	0.000
S9A	141.594	139.824	0.0	0.000	0.0	0.8	56.7	-0.000	0.000

A %% indicates water lost from the system.

***** Link data *****

Link Reference	D/S Node	Pipe Len (m)	Pipe Hgt (mm)	Sed Dpth (mm)	P.Full Flow (m3/s)	< Upstream				> Downstream				>		
						Invert Level (m AD)	Max Depth (m)	Max Flow (m3/s)	Max Vel (m/s)	Total Flow (m3)	Invert Level (m AD)	Max Depth (m)	Max Flow (m3/s)		Max Vel (m/s)	Total Flow (m3)
S10.1	OF					139.521	0.302	0.026		254.5	139.521	0.000	0.026		254.5	
S2.1	S3	22	150	0	0.057	150.117	0.026	0.002	0.787	14.5	147.839	0.026	0.002	0.787	14.5	
S3.1	S4	42	225	0	0.165	147.764	0.030	0.003	0.955	27.2	143.487	0.030	0.003	0.955	27.2	
S4.1	S5	6	300	0	0.353	143.412	0.037	0.004	0.790	34.4	142.803	0.043	0.004	0.626	34.4	
S5.1	S6	27	300	0	0.329	142.803	0.043	0.008	1.253	68.8	140.421	0.075	0.008	0.566	68.8	
S6.1	S7	8	300	0	0.108	140.421	0.075	0.014	1.013	123.1	140.340	0.075	0.014	1.013	123.1	
S7.1	S9	48	900	0	1.106	139.740	0.101	0.014	0.456	123.1	139.591	0.233	0.013	0.219	123.1	
S7A.1	S9A	48	900	0	1.110	139.750	0.078	-0.000	0.005	0.0	139.600	0.224	0.002	0.032	0.0	
S9.1	S10	7	450	0	0.323	139.591	0.233	0.019	0.458	179.7	139.521	0.302	0.019	0.272	179.7	
S9A.1	S9	2	450	0	0.180	139.600	0.224	0.006	0.170	56.7	139.591	0.233	0.007	0.154	56.7	

+ after total flow indicates a conduit surcharged by flow and depth at that end.

x after total flow indicates a conduit surcharged by depth only at that end.

NOTE :

- (i) Maximum elevations, depths, volumes, velocities and discharges are selected from the values at each time increment and will be in general more extreme than the maximum values in the time varying results.
- (ii) Maximum elevations, velocities and discharges are not necessarily calculated at the same time.
- (iii) Maximum velocity is not calculated for a conduit unless the depth exceeds the base flow depth (by default, this is 5% of height for slopes <= 0.01, 10% otherwise, subject to a minimum of 0.02 m).

Start of run

configured for MS Windows

Produced on 2021-02-05 at 13:54

InfoWorks ICM SIM

Summary results from Simulation

Version 10.0.0.20012 (x64) dated May 2019

Licence Number - WS88880294PM

Message 253: Run finished for event 1.

Model network (version 11)

Event - 1 WS88880294PM Produced 2021-02-05 Pg 1

Summary results for event 1 - M100-480

Started at 0 day(s) 00:00:00. Run for 2000.00 min. (Requested simulation time 2000.00 min)

Files used:

Network: ...\\nnet131949#11.spb Model network (version 11)

State: ...0205_135415_initial.sp

Runoff: ...\\nnet131949#11.rpf Model network (version 11) (InfoWorks 10.0.0.20012(64bit))

Rainfall: ...136600eventiid10761.re M100-480 (0W): M5-60=20.0mm, r=0.40, AT=0.00km2 x1.30

DWF:

Inflows:

Levels:

RTC:

Results: ...\\sim136600.iwr

Total rainfall = 356.2 m3

Total runoff = 270.5 m3

Total inflow = 270.5 m3

Total outflow = 270.4 m3

Total lost = 0.0 m3

***** Node data *****

Node Reference	Ground Level (m AD)	Max Level (m AD)	Flood Volume (m3)	Flood Depth (m)	Flood Area (m2)	Max Stored (m3)	Inflow (m3)	Vol Balance (m3)	Vol Balance (%)
S10	141.700	139.720	0.0	0.000	0.0	0.7	79.5	0.000	0.000
S2	151.724	150.142	0.0	0.000	0.0	0.0	15.4	-0.000	0.000
S3	149.507	147.793	0.0	0.000	0.0	0.0	13.5	-0.000	0.000
S4	145.192	143.447	0.0	0.000	0.0	0.0	7.7	-0.000	0.000
S5	144.525	142.844	0.0	0.000	0.0	0.0	36.5	0.000	0.000
S6	142.360	140.488	0.0	0.000	0.0	0.1	57.7	-0.000	0.000
S7	142.211	139.815	0.0	0.000	0.0	0.3	0.0	-0.000	0.000
S7A	142.141	139.796	0.0	0.000	0.0	0.2	0.0	0.000	0.000
S9	141.594	139.726	0.0	0.000	0.0	0.5	0.0	-0.000	0.000
S9A	141.594	139.726	0.0	0.000	0.0	0.4	60.3	-0.000	0.000

A %% indicates water lost from the system.

***** Link data *****

Link Reference	D/S Node	Pipe Len (m)	Pipe Hgt (mm)	Sed Dpth (mm)	P.Full Flow (m3/s)	< Upstream				> Downstream				Total Flow (m3)	
						Invert Level (m AD)	Max Depth (m)	Max Flow (m3/s)	Max Vel (m/s)	Total Flow (m3)	Invert Level (m AD)	Max Depth (m)	Max Flow (m3/s)		Max Vel (m/s)
S10.1	OF					139.521	0.199	0.023		270.4	139.521	0.000	0.023		270.4
S2.1	S3	22	150	0	0.057	150.117	0.025	0.001	0.669	15.4	147.839	0.025	0.001	0.669	15.4
S3.1	S4	42	225	0	0.165	147.764	0.029	0.002	0.816	28.8	143.487	0.029	0.002	0.816	28.8
S4.1	S5	6	300	0	0.353	143.412	0.035	0.003	0.661	36.5	142.803	0.041	0.003	0.540	36.5
S5.1	S6	27	300	0	0.329	142.803	0.041	0.006	1.081	73.1	140.421	0.067	0.006	0.524	73.1
S6.1	S7	8	300	0	0.108	140.421	0.067	0.011	0.938	130.8	140.340	0.067	0.011	0.938	130.8
S7.1	S9	48	900	0	1.106	139.740	0.075	0.011	0.436	130.8	139.591	0.135	0.011	0.218	130.8
S7A.1	S9A	48	900	0	1.110	139.750	0.046	0.000	0.000	0.0	139.600	0.126	0.000	0.004	0.0
S9.1	S10	7	450	0	0.323	139.591	0.135	0.016	0.458	190.9	139.521	0.199	0.016	0.272	190.9
S9A.1	S9	2	450	0	0.180	139.600	0.126	0.005	0.170	60.2	139.591	0.135	0.005	0.146	60.2

+ after total flow indicates a conduit surcharged by flow and depth at that end.

x after total flow indicates a conduit surcharged by depth only at that end.

NOTE :

- (i) Maximum elevations, depths, volumes, velocities and discharges are selected from the values at each time increment and will be in general more extreme than the maximum values in the time varying results.
- (ii) Maximum elevations, velocities and discharges are not necessarily calculated at the same time.
- (iii) Maximum velocity is not calculated for a conduit unless the depth exceeds the base flow depth (by default, this is 5% of height for slopes <= 0.01, 10% otherwise, subject to a minimum of 0.02 m).

Start of run

configured for MS Windows

Produced on 2021-02-05 at 13:54

InfoWorks ICM SIM

Summary results from Simulation

Version 10.0.0.20012 (x64) dated May 2019

Licence Number - WS88880294PM

Message 253: Run finished for event 1.

Model network (version 11)

Event - 1 WS88880294PM Produced 2021-02-05 Pg 1

Summary results for event 1 - M100-600

Started at 0 day(s) 00:00:00. Run for 2000.00 min. (Requested simulation time 2000.00 min)

Files used:

Network: ...\\nnet131949#11.spb Model network (version 11)

State: ...0205_135415_initial.sp

Runoff: ...\\nnet131949#11.rpf Model network (version 11) (InfoWorks 10.0.0.20012(64bit))

Rainfall: ...136601eventiid89233.re M100-600 (0W): M5-60=20.0mm, r=0.40, AT=0.00km2 x1.30

DWF:

Inflows:

Levels:

RTC:

Results: ...\\sim136601.iwr

Total rainfall = 373.1 m3

Total runoff = 283.3 m3

Total inflow = 283.3 m3

Total outflow = 283.2 m3

Total lost = 0.0 m3

***** Node data *****

Node Reference	Ground Level (m AD)	Max Level (m AD)	Flood Volume (m3)	Flood Depth (m)	Flood Area (m2)	Max Stored (m3)	Inflow (m3)	Vol Balance (m3)	Vol Balance (%)
S10	141.700	139.697	0.0	0.000	0.0	0.6	83.3	0.000	0.000
S2	151.724	150.141	0.0	0.000	0.0	0.0	16.1	-0.000	0.000
S3	149.507	147.792	0.0	0.000	0.0	0.0	14.1	-0.000	0.000
S4	145.192	143.447	0.0	0.000	0.0	0.0	8.1	-0.000	0.000
S5	144.525	142.842	0.0	0.000	0.0	0.0	38.3	0.000	0.000
S6	142.360	140.483	0.0	0.000	0.0	0.1	60.4	-0.000	0.000
S7	142.211	139.811	0.0	0.000	0.0	0.2	0.0	-0.000	0.000
S7A	142.141	139.795	0.0	0.000	0.0	0.2	0.0	0.000	0.000
S9	141.594	139.705	0.0	0.000	0.0	0.4	0.0	-0.000	0.000
S9A	141.594	139.705	0.0	0.000	0.0	0.4	63.1	-0.000	0.000

A %% indicates water lost from the system.

***** Link data *****

Link Reference	D/S Node	Pipe Len (m)	Pipe Hgt (mm)	Sed Dpth (mm)	P.Full Flow (m3/s)	< Upstream				> Downstream				>		
						Invert Level (m AD)	Max Depth (m)	Max Flow (m3/s)	Max Vel (m/s)	Total Flow (m3)	Invert Level (m AD)	Max Depth (m)	Max Flow (m3/s)		Max Vel (m/s)	Total Flow (m3)
S10.1	OF					139.521	0.176	0.019		283.2	139.521	0.000	0.019		283.2	
S2.1	S3	22	150	0	0.057	150.117	0.024	0.001	0.586	16.1	147.839	0.024	0.001	0.586	16.1	
S3.1	S4	42	225	0	0.165	147.764	0.028	0.002	0.718	30.2	143.487	0.028	0.002	0.718	30.2	
S4.1	S5	6	300	0	0.353	143.412	0.035	0.003	0.573	38.3	142.803	0.039	0.003	0.478	38.3	
S5.1	S6	27	300	0	0.329	142.803	0.039	0.005	0.957	76.5	140.421	0.062	0.005	0.493	76.5	
S6.1	S7	8	300	0	0.108	140.421	0.062	0.009	0.882	137.0	140.340	0.062	0.009	0.882	137.0	
S7.1	S9	48	900	0	1.106	139.740	0.071	0.009	0.402	137.0	139.591	0.114	0.009	0.217	137.0	
S7A.1	S9A	48	900	0	1.110	139.750	0.045	-0.000	-0.000	0.0	139.600	0.105	0.000	0.002	0.0	
S9.1	S10	7	450	0	0.323	139.591	0.114	0.014	0.458	199.9	139.521	0.176	0.014	0.272	199.9	
S9A.1	S9	2	450	0	0.180	139.600	0.105	0.004	0.170	63.1	139.591	0.114	0.004	0.145	63.1	

+ after total flow indicates a conduit surcharged by flow and depth at that end.

x after total flow indicates a conduit surcharged by depth only at that end.

NOTE :

- (i) Maximum elevations, depths, volumes, velocities and discharges are selected from the values at each time increment and will be in general more extreme than the maximum values in the time varying results.
- (ii) Maximum elevations, velocities and discharges are not necessarily calculated at the same time.
- (iii) Maximum velocity is not calculated for a conduit unless the depth exceeds the base flow depth (by default, this is 5% of height for slopes <= 0.01, 10% otherwise, subject to a minimum of 0.02 m).

Start of run

configured for MS Windows

Produced on 2021-02-05 at 13:54

InfoWorks ICM SIM

Summary results from Simulation

Version 10.0.0.20012 (x64) dated May 2019

Licence Number - WS88880294PM

Message 253: Run finished for event 1.

Model network (version 11)

Event - 1 WS88880294PM Produced 2021-02-05 Pg 1

Summary results for event 1 - M100-720

Started at 0 day(s) 00:00:00. Run for 2000.00 min. (Requested simulation time 2000.00 min)

Files used:

Network: ...\\nnet131949#11.spb Model network (version 11)

State: ...0205_135415_initial.sp

Runoff: ...\\nnet131949#11.rpf Model network (version 11) (InfoWorks 10.0.0.20012(64bit))

Rainfall: ...136602eventiid65577.re M100-720 (0W): M5-60=20.0mm, r=0.40, AT=0.00km2 x1.30

DWF:

Inflows:

Levels:

RTC:

Results: ...\\sim136602.iwr

Total rainfall = 387.3 m3

Total runoff = 294.1 m3

Total inflow = 294.1 m3

Total outflow = 294.0 m3

Total lost = 0.0 m3

***** Node data *****

Node Reference	Ground Level (m AD)	Max Level (m AD)	Flood Volume (m3)	Flood Depth (m)	Flood Area (m2)	Max Stored (m3)	Inflow (m3)	Vol Balance (m3)	Vol Balance (%)
S10	141.700	139.680	0.0	0.000	0.0	0.6	86.4	0.000	0.000
S2	151.724	150.141	0.0	0.000	0.0	0.0	16.7	-0.000	0.000
S3	149.507	147.791	0.0	0.000	0.0	0.0	14.6	-0.000	0.000
S4	145.192	143.446	0.0	0.000	0.0	0.0	8.4	-0.000	0.000
S5	144.525	142.841	0.0	0.000	0.0	0.0	39.7	0.000	0.000
S6	142.360	140.479	0.0	0.000	0.0	0.1	62.7	-0.000	0.000
S7	142.211	139.807	0.0	0.000	0.0	0.2	0.0	-0.000	0.000
S7A	142.141	139.795	0.0	0.000	0.0	0.2	0.0	-0.000	0.000
S9	141.594	139.691	0.0	0.000	0.0	0.3	0.0	-0.000	0.000
S9A	141.594	139.691	0.0	0.000	0.0	0.3	65.5	-0.000	0.000

A %% indicates water lost from the system.

***** Link data *****

Link Reference	D/S Node	Pipe Len (m)	Pipe Hgt (mm)	Sed Dpth (mm)	P.Full Flow (m3/s)	< Upstream				> Downstream				Total Flow (m3)	
						Invert Level (m AD)	Max Depth (m)	Max Flow (m3/s)	Max Vel (m/s)	Total Flow (m3)	Invert Level (m AD)	Max Depth (m)	Max Flow (m3/s)		Max Vel (m/s)
S10.1	OF					139.521	0.159	0.017		294.0	139.521	0.000	0.017		294.0
S2.1	S3	22	150	0	0.057	150.117	0.024	0.001	0.523	16.7	147.839	0.024	0.001	0.523	16.7
S3.1	S4	42	225	0	0.165	147.764	0.027	0.002	0.643	31.4	143.487	0.027	0.002	0.643	31.4
S4.1	S5	6	300	0	0.353	143.412	0.034	0.002	0.508	39.7	142.803	0.038	0.002	0.431	39.7
S5.1	S6	27	300	0	0.329	142.803	0.038	0.004	0.863	79.5	140.421	0.058	0.004	0.467	79.5
S6.1	S7	8	300	0	0.108	140.421	0.058	0.008	0.837	142.2	140.340	0.058	0.008	0.837	142.2
S7.1	S9	48	900	0	1.106	139.740	0.067	0.008	0.372	142.2	139.591	0.100	0.008	0.216	142.2
S7A.1	S9A	48	900	0	1.110	139.750	0.045	-0.000	-0.000	0.0	139.600	0.091	0.000	-0.002	0.0
S9.1	S10	7	450	0	0.323	139.591	0.100	0.012	0.457	207.6	139.521	0.159	0.012	0.273	207.6
S9A.1	S9	2	450	0	0.180	139.600	0.091	0.004	0.169	65.5	139.591	0.100	0.004	0.145	65.5

+ after total flow indicates a conduit surcharged by flow and depth at that end.

x after total flow indicates a conduit surcharged by depth only at that end.

NOTE :

- (i) Maximum elevations, depths, volumes, velocities and discharges are selected from the values at each time increment and will be in general more extreme than the maximum values in the time varying results.
- (ii) Maximum elevations, velocities and discharges are not necessarily calculated at the same time.
- (iii) Maximum velocity is not calculated for a conduit unless the depth exceeds the base flow depth (by default, this is 5% of height for slopes <= 0.01, 10% otherwise, subject to a minimum of 0.02 m).

Start of run

configured for MS Windows

Produced on 2021-02-05 at 13:54

InfoWorks ICM SIM

Summary results from Simulation

Version 10.0.0.20012 (x64) dated May 2019

Licence Number - WS88880294PM

Message 253: Run finished for event 1.

Model network (version 11)

Event -

1 WS88880294PM Produced 2021-02-05 Pg 1

Summary results for event 1 - M100-840

Started at 0 day(s) 00:00:00. Run for 2000.00 min. (Requested simulation time 2000.00 min)

Files used:

Network: ...\\nnet131949#11.spb Model network (version 11)

State: ...0205_135415_initial.sp

Runoff: ...\\nnet131949#11.rpf Model network (version 11) (InfoWorks 10.0.0.20012(64bit))

Rainfall: ...136603eventiid24702.re M100-840 (OW): M5-60=20.0mm, r=0.40, AT=0.00km2 x1.30

DWF:

Inflows:

Levels:

RTC:

Results: ...\\sim136603.iwr

Total rainfall = 399.6 m3

Total runoff = 303.5 m3

Total inflow = 303.5 m3

Total outflow = 303.3 m3

Total lost = 0.0 m3

***** Node data *****

Node Reference	Ground Level (m AD)	Max Level (m AD)	Flood Volume (m3)	Flood Depth (m)	Flood Area (m2)	Max Stored (m3)	Inflow (m3)	Vol Balance (m3)	Vol Balance (%)
S10	141.700	139.667	0.0	0.000	0.0	0.5	89.2	0.000	0.000
S2	151.724	150.140	0.0	0.000	0.0	0.0	17.3	-0.000	0.000
S3	149.507	147.791	0.0	0.000	0.0	0.0	15.1	-0.000	0.000
S4	145.192	143.446	0.0	0.000	0.0	0.0	8.6	-0.000	0.000
S5	144.525	142.840	0.0	0.000	0.0	0.0	41.0	0.000	0.000
S6	142.360	140.476	0.0	0.000	0.0	0.1	64.7	-0.000	0.000
S7	142.211	139.805	0.0	0.000	0.0	0.2	0.0	-0.000	0.000
S7A	142.141	139.795	0.0	0.000	0.0	0.2	0.0	0.000	0.000
S9	141.594	139.681	0.0	0.000	0.0	0.3	0.0	-0.000	0.000
S9A	141.594	139.682	0.0	0.000	0.0	0.3	67.6	-0.000	0.000

A %% indicates water lost from the system.

***** Link data *****

Link Reference	D/S Node	Pipe Len (m)	Pipe Hgt (mm)	Sed Dpth (mm)	P.Full Flow (m3/s)	< Upstream				> Downstream				Total Flow (m3)	
						Invert Level (m AD)	Max Depth (m)	Max Flow (m3/s)	Max Vel (m/s)	Total Flow (m3)	Invert Level (m AD)	Max Depth (m)	Max Flow (m3/s)		Max Vel (m/s)
S10.1	OF					139.521	0.146	0.015		303.3	139.521	0.000	0.015		303.3
S2.1	S3	22	150	0	0.057	150.117	0.023	0.001	0.475	17.3	147.839	0.023	0.001	0.475	17.3
S3.1	S4	42	225	0	0.165	147.764	0.027	0.002	0.585	32.4	143.487	0.027	0.002	0.585	32.4
S4.1	S5	6	300	0	0.353	143.412	0.034	0.002	0.458	41.0	142.803	0.037	0.002	0.394	41.0
S5.1	S6	27	300	0	0.329	142.803	0.037	0.004	0.788	82.0	140.421	0.055	0.004	0.447	82.0
S6.1	S7	8	300	0	0.108	140.421	0.055	0.007	0.800	146.7	140.340	0.055	0.007	0.800	146.7
S7.1	S9	48	900	0	1.106	139.740	0.065	0.007	0.347	146.7	139.591	0.090	0.007	0.216	146.7
S7A.1	S9A	48	900	0	1.110	139.750	0.045	0.000	0.000	0.0	139.600	0.082	0.000	0.001	0.0
S9.1	S10	7	450	0	0.323	139.591	0.090	0.010	0.457	214.2	139.521	0.146	0.010	0.273	214.2
S9A.1	S9	2	450	0	0.180	139.600	0.082	0.003	0.169	67.6	139.591	0.090	0.003	0.145	67.5

+ after total flow indicates a conduit surcharged by flow and depth at that end.

x after total flow indicates a conduit surcharged by depth only at that end.

NOTE :

- (i) Maximum elevations, depths, volumes, velocities and discharges are selected from the values at each time increment and will be in general more extreme than the maximum values in the time varying results.
- (ii) Maximum elevations, velocities and discharges are not necessarily calculated at the same time.
- (iii) Maximum velocity is not calculated for a conduit unless the depth exceeds the base flow depth (by default, this is 5% of height for slopes <= 0.01, 10% otherwise, subject to a minimum of 0.02 m).

start of run

configured for MS Windows

Produced on 2021-02-05 at 13:54

InfoWorks ICM SIM

Summary results from Simulation

Version 10.0.0.20012 (x64) dated May 2019

Licence Number - WS88880294PM

Message 253: Run finished for event 1.

Model network (version 11)

Event - 1 WS88880294PM Produced 2021-02-05 Pg 1

Summary results for event 1 - M100-960

Started at 0 day(s) 00:00:00. Run for 2000.00 min. (Requested simulation time 2000.00 min)

Files used:

Network: ...\\nnet131949#11.spb Model network (version 11)

State: ...0205_135415_initial.sp

Runoff: ...\\nnet131949#11.rpf Model network (version 11) (InfoWorks 10.0.0.20012(64bit))

Rainfall: ...136604eventiid83172.re M100-960 (0W): M5-60=20.0mm, r=0.40, AT=0.00km2 x1.30

DWF:

Inflows:

Levels:

RTC:

Results: ...\\sim136604.iwr

Total rainfall = 410.5 m3

Total runoff = 311.8 m3

Total inflow = 311.8 m3

Total outflow = 311.6 m3

Total lost = 0.0 m3

***** Node data *****

Node Reference	Ground Level (m AD)	Max Level (m AD)	Flood Volume (m3)	Flood Depth (m)	Flood Area (m2)	Max Stored (m3)	Inflow (m3)	Vol Balance (m3)	Vol Balance (%)
S10	141.700	139.658	0.0	0.000	0.0	0.5	91.6	0.000	0.000
S2	151.724	150.140	0.0	0.000	0.0	0.0	17.7	-0.000	0.000
S3	149.507	147.790	0.0	0.000	0.0	0.0	15.5	-0.000	0.000
S4	145.192	143.445	0.0	0.000	0.0	0.0	8.9	-0.000	0.000
S5	144.525	142.840	0.0	0.000	0.0	0.0	42.1	0.000	0.000
S6	142.360	140.474	0.0	0.000	0.0	0.1	66.5	-0.000	0.000
S7	142.211	139.803	0.0	0.000	0.0	0.2	0.0	-0.000	0.000
S7A	142.141	139.795	0.0	0.000	0.0	0.2	0.0	0.000	0.000
S9	141.594	139.675	0.0	0.000	0.0	0.3	0.0	-0.000	0.000
S9A	141.594	139.675	0.0	0.000	0.0	0.3	69.4	-0.000	0.000

A %% indicates water lost from the system.

***** Link data *****

Link Reference	D/S Node	Pipe Len (m)	Pipe Hgt (mm)	Sed Dpth (mm)	P.Full Flow (m3/s)	< Upstream				> Downstream				Total Flow (m3)	
						Invert Level (m AD)	Max Depth (m)	Max Flow (m3/s)	Max Vel (m/s)	Total Flow (m3)	Invert Level (m AD)	Max Depth (m)	Max Flow (m3/s)		Max Vel (m/s)
S10.1	OF					139.521	0.137	0.013		311.6	139.521	0.000	0.013		311.6
S2.1	S3	22	150	0	0.057	150.117	0.023	0.001	0.435	17.7	147.839	0.023	0.001	0.435	17.7
S3.1	S4	42	225	0	0.165	147.764	0.026	0.001	0.538	33.2	143.487	0.026	0.001	0.538	33.2
S4.1	S5	6	300	0	0.353	143.412	0.033	0.002	0.418	42.1	142.803	0.037	0.002	0.364	42.1
S5.1	S6	27	300	0	0.329	142.803	0.037	0.004	0.727	84.2	140.421	0.053	0.004	0.429	84.2
S6.1	S7	8	300	0	0.108	140.421	0.053	0.006	0.768	150.7	140.340	0.053	0.006	0.768	150.7
S7.1	S9	48	900	0	1.106	139.740	0.063	0.006	0.326	150.7	139.591	0.084	0.006	0.215	150.7
S7A.1	S9A	48	900	0	1.110	139.750	0.045	-0.000	-0.000	0.0	139.600	0.075	-0.000	-0.001	0.0
S9.1	S10	7	450	0	0.323	139.591	0.084	0.009	0.457	220.0	139.521	0.137	0.009	0.272	220.0
S9A.1	S9	2	450	0	0.180	139.600	0.075	0.003	0.169	69.4	139.591	0.084	0.003	0.144	69.4

+ after total flow indicates a conduit surcharged by flow and depth at that end.

x after total flow indicates a conduit surcharged by depth only at that end.

NOTE :

- (i) Maximum elevations, depths, volumes, velocities and discharges are selected from the values at each time increment and will be in general more extreme than the maximum values in the time varying results.
- (ii) Maximum elevations, velocities and discharges are not necessarily calculated at the same time.
- (iii) Maximum velocity is not calculated for a conduit unless the depth exceeds the base flow depth (by default, this is 5% of height for slopes <= 0.01, 10% otherwise, subject to a minimum of 0.02 m).

