

Drainage Statement

V3178
Queen Victoria Hospital CDC
Holtye Road, East Grinstead RH19 3DZ

Document Reference	V3178-HUN-00-T-C-00-0001
Revision	P3 – Planning

This document has been prepared to cover the proposed drainage regime for the development at the above.

The drainage has been designed in generally in accordance with the parameters set out in the Mott MacDonald “Flood Risk and Runoff Assessment” dated January 2025.

The design also takes into account the findings of additional survey and drainage trace works undertaken on behalf of Logan Construction in August 2025 to verify location and depths of the existing drainage.

Foul Water

The proposed outfall location for the new foul drainage network was determined to be too shallow to affect a gravity drainage solution for the proposed development

As such the foul drainage network for the building has been redesigned to use the existing 150mm diameter connection to the Southern Water sewer in Holtye Road that serves the existing Jubilee Building and crosses the site. This drain run is being diverted around the new building. Given the steep gradient of this drain capacity will exist for the calculated peak foul flows given in the strategy document.

This connection point is downstream of the proposed connection point that Southern Water determined there was capacity available. As such the capacity should still be available at this point on the adopted public foul sewer network and should not raise objection from Southern Water. This will be subject to a Section106 indirect connection agreement under the Water industry Act.

The foul water drainage for the development will remain privately owned and managed by the Queen Victoria Hospital.

Whilst this differs from the originally proposed strategy it avoids the need to pump drainage and provides a gravity foul drainage system that meets the intent of the proposed strategy. Pumping of any drainage should always be a last resort and avoided particularly where there is an alternative gravity solution.

Surface water

The proposed surface water regime follows that of the proposed strategy. Whilst the outfall was found to be shallow it is still possible to affect a gravity outfall to this location, albeit at shallow depth.

The drainage network was modelled utilising Causeway Flow software for the following criteria.

- 1-year, 30-year and 100-year return design rainfall events.
- An increase of +45% in peak rainfall intensity was added to the 1-100 year rainfall events to allow for the currently predicted effects of climate change.

- A maximum allowable discharge rate of 3.3 l/s has been allowed for using a hydrobrake vortex flow control.
- Attenuation has been provided in below ground cellular attenuation.

The Causeway Flow software outputs are appended in Appendix C and these demonstrate that the 100-year climate change rainfall event can be managed on site, without flooding, until it discharges at the permitted rate to the public sewer network.

The connection is at the location previously agreed with Southern Water and should therefore be acceptable. This will be subject to a Section 106 indirect connection agreement under the Water Industry Act.

The surface water drainage for the development will remain privately owned and managed by the Queen Victoria Hospital.

As such the surface water drainage regime for the development is in line with the original proposals.

Drainage Maintenance Strategy

It is important that a maintenance regime is developed and put into place.

A detailed operation and maintenance manual and schedule should be compiled that is appropriate for the development drainage design and mechanisms and end user operations for both the foul and surface water system to ensure its ongoing reliable performance of the drainage.

Timescales for regular inspection, cleansing and other maintenance to ensure all below ground drainage systems continue to operate as per the design intents are included in Appendix D and are the requirements for the site-Drainage Maintenance Strategy.

The Drainage Maintenance Strategy should be subject to ongoing review to ensure that it remains pertinent to the buildings requirements throughout the building lifetime and to account for any changes made to the building or the local environment that affects the system.

During the construction period the contractor will be responsible for the maintenance of the drainage system to ensure it is not damaged by construction works. The system will be cleaned and inspected as necessary to ensure that a fully function system is provided on handover.

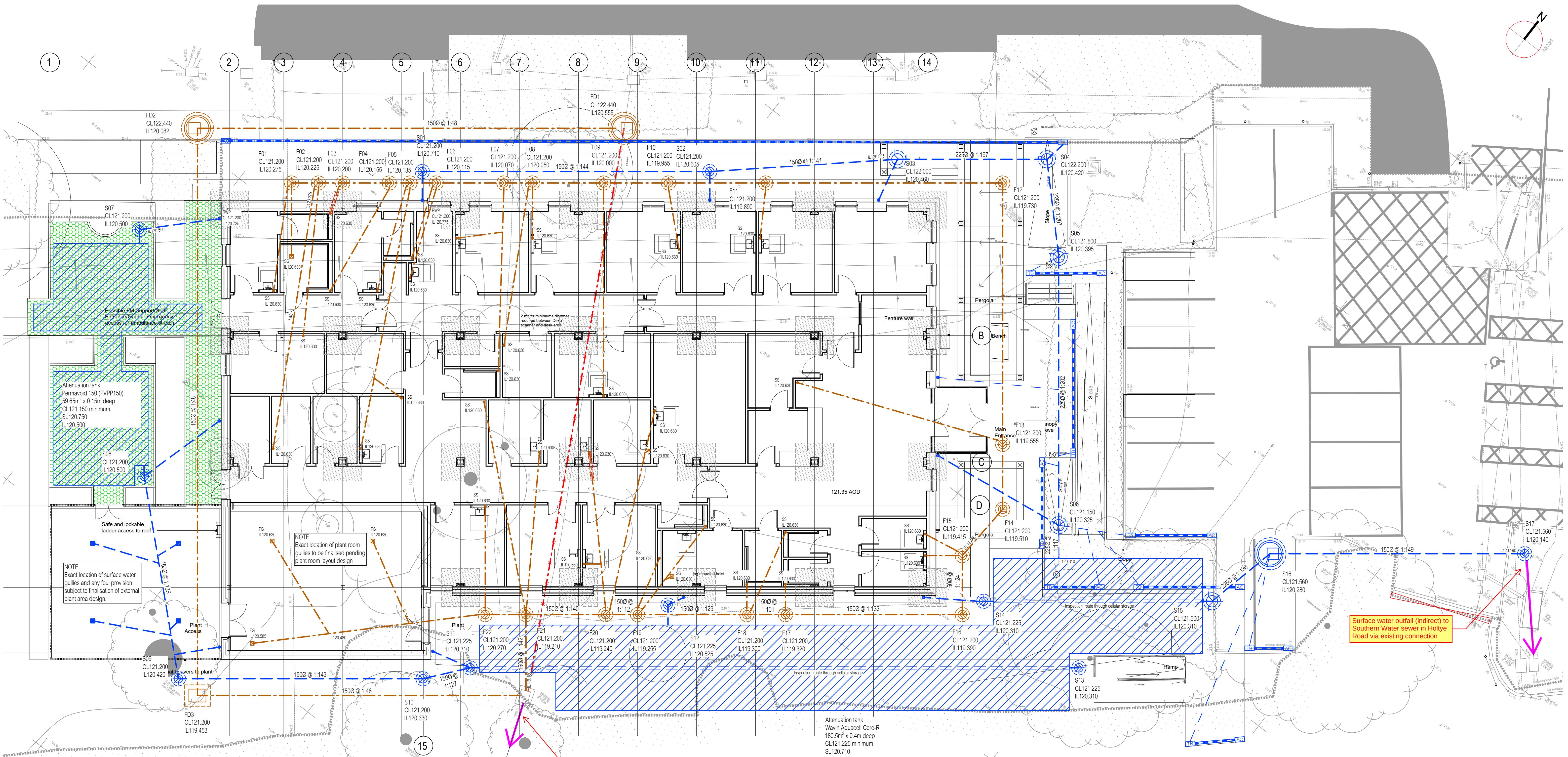
Upon handover the drainage system will remain private and under the management of the Queen Victoria Hospital and any Building Management Organisation they may appoint.

The Drainage Maintenance Strategy should be incorporated within the final Building O&M Manuals in time for the handover of the building. The Queen Victoria Hospital should have maintenance contracts in place to commence from this date or the date of any contractor maintenance period that may exist.

Currently projected timescales are:

- Commencement of drainage construction = November 2025
- Completion of drainage construction = January 2026
- Handover of development = 27 July 2026

APPENDIX A – Drainage Layout



Notes

The drainage on this drawing is subject to changes due to the following:

1. Finalisation of internal and external plant layouts. This should only affect the location and number of gullies currently depicted and should not change the design.
2. Building Foundation design. The foundation design will take into account the drainage as depicted and designed on this drawing. Any changes should be minimal and are expected to only involve minor adjustments and potential sleeving/casting in of drainage through foundations.
3. External level design. A detailed level design has not yet been fully completed. Upon completion it is likely that some cover levels on the drainage network will change. As these are set above the inverts and maximum design attenuated water level they should not impact on the design of the surface water drainage network, in particular and the ability to cater for the surface water drainage design requirements

- Drainage Notes**
1. The contractor must check the size, location and levels of all drainage outfalls prior to construction of any drainage, unless otherwise agreed, to ensure the proposed design may be achieved.
 2. All private drainage works to be in accordance with Part H of the current Building Regulations and BS EN 752.
 3. All private drainage to be either:
 - a. Concrete pipes and fittings with flexible joints complying with the relevant requirements of BS EN 1916 and BS 5911.
 - b. Vitrified clay pipes and fittings with flexible mechanical joints complying with the requirements of BS EN 285 and BS 65 (surface water only).
 - c. Ductile iron pipes, fittings and joints complying with the relevant provisions of BS EN 598.
 - d. Unplasticised PVC pipes, joints and fittings complying with the relevant clauses of BS4660 and BS EN 1404-1.
 4. All drainage beneath buildings where they are cast into large foundations to be ductile iron pipes, fittings and joints complying with the relevant provisions of BS EN 598.
 5. Transition in pipe materials to be made at nearest chamber or rocker pipe where it passes through

- foundations.**
6. All RWP locations and sizes to be verified and set out by the Architect and M&E Consultant.
 7. All foul drainage 'pop-up' locations and sizes to be verified and set out by the Architect and M&E consultant.
 8. All foul gully locations and sizes to be verified and set out by the Architect and M&E Consultant.
 9. Where drainage laterals connect direct to the below ground system via preformed junctions rodding access is to be provided. This is to be via removable access points in vertical pipework above ground.
 10. Where foul, surface water or other drainage pipes cross and there is less than 100mm of clearance short lengths of both runs are to be encased in concrete.
 11. Pipe connections at manholes are to be soffit to soffit unless stated otherwise.
 12. The drainage design is based upon the specified flow control devices. The use of alternatives will change the flow characteristics and invalidate the design as it could constitute a flood risk.

Foul water outfall (indirect) to Southern Water sewer in Holtye Road via existing connection

Surface water outfall (indirect) to Southern Water sewer in Holtye Road via existing connection

- Legend:**
- Proposed foul water drainage
 - Proposed surface water drainage
 - Existing foul drainage abandoned
 - Drainage cast within foundations
 - Foul water gully
 - Foul drainage point
 - Surface water gully
 - Rain water pipe
 - Linear drainage channel
 - Channel access cover
 - Channel trash box outlet
 - Proposed 4500 plastic inspection chamber. Refer to manhole schedule.
 - Proposed 6000 plastic inspection chamber. Refer to manhole schedule.
 - Proposed brick, insitu RC or precast concrete rectangular manhole. Refer to manhole schedule.
 - Proposed precast concrete circular manhole. Refer to manhole schedule.
 - Area of permeable paving draining through lined sub-base into top of attenuation tank.

Queen Victoria Hospital CDC
Holtye Road
East Grinstead RH19 3DZ

Below Ground Drainage Layout

Status Code
Issued for Planning

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APPENDIX B – Manhole Schedule

MANHOLE REF. No	COVER LEVEL (m)	INVERT LEVEL (m)	DEPTH TO INVERT (m)	CHAMBER		COVER			NOTES
				INTERNAL SIZE (mm)	CONSTRUCTION	SIZE (mm)	LOAD CLASS	TYPE	
FD 1	122.440	120.555	1.885	1200 Dia.	Precast	600 x 600	B125	Recessed	Built on existing drain
FD 2	122.440	120.082	2.358	1200 Dia.	Precast	600 x 600	B125	Recessed	
FD 3	121.200	119.453	1.747	900 x 600	Brick	900 x 600	B125		
S 01	121.200	120.710	0.490	450 Dia.	PPIC	450 Dia	B125		
S 02	121.200	120.605	0.595	450 Dia.	PPIC	450 Dia	B125		
S 03	122.000	120.460	1.540	600 Dia.	PPIC	600 Dia.	B125	350 Dia. Restricted access	
S 04	122.200	120.420	1.780	600 Dia.	PPIC	600 x 600	B125	Recessed 350 Dia. Restricted access	
S 05	121.800	120.395	1.405	600 Dia.	PPIC	600 x 600	B125	Recessed 350 Dia. Restricted access	
S 06	121.150	120.325	0.825	600 Dia.	PPIC	600 x 600	B125	Recessed	Catchpit
S 07	121.200	120.500	0.700	450 Dia.	PPIC	450 x 450	B125		Catchpit accerss to attenuation
S 08	121.200	120.500	0.700	450 Dia.	PPIC	450 x 450	B125		Catchpit accerss to attenuation
S 09	121.200	120.420	0.780	450 Dia.	PPIC	450 Dia	B125		
S 10	121.200	120.330	0.870	450 Dia.	PPIC	450 Dia	B125		
S 11	121.225	120.310	0.915	450 Dia.	PPIC	450 Dia	B125		Catchpit acces to attenuation
S 12	121.200	120.525	0.675	450 Dia.	PPIC	450 x 450	B125		Catchpit
S 13	121.225	120.310	0.915	450 Dia.	PPIC	450 Dia	B125		Catchpit acces to attenuation
S 14	121.225	120.310	0.915	450 Dia.	PPIC	450 x 450	B125		Catchpit acces to attenuation
S 15	121.500	120.310	1.190	600 Dia.	PPIC	450 x 450	B125	Recessed	Catchpit acces to attenuation
S 16	121.560	120.280	1.280	1200 Dia.	Precast	675 x 675	D400		Flow control chamber. Max. Discharge 3.3 l/s Design Head 0.65m Hydro Brake Optimum CTL-SHE-0092-3300-0650-3300
S 17	121.360	120.140	1.220	450 Dia.	PPIC	450 x 450	D400	350 Dia. Restricted access	Built on existing drain
F 01	121.200	120.275	0.925	450 Dia.	PPIC	450 Dia.	B125		
F 02	121.200	120.225	0.975	450 Dia.	PPIC	450 Dia.	B125		
F 03	121.200	120.200	1.000	450 Dia.	PPIC	450 Dia.	B125		
F 04	121.200	120.155	1.045	450 Dia.	PPIC	450 Dia.	B125		
F 05	121.200	120.135	1.065	450 Dia.	PPIC	450 Dia.	B125		
F 06	121.200	120.115	1.085	450 Dia.	PPIC	450 Dia.	B125		
F 07	121.200	120.070	1.130	450 Dia.	PPIC	450 Dia.	B125		
F 08	121.200	120.050	1.150	450 Dia.	PPIC	450 Dia.	B125		
F 09	121.200	120.000	1.200	450 Dia.	PPIC	450 Dia.	B125		
F 10	121.200	119.955	1.245	450 Dia.	PPIC	450 Dia.	B125	350 Dia. Restricted access	
F 11	121.200	119.890	1.310	450 Dia.	PPIC	450 Dia.	B125	350 Dia. Restricted access	
F 12	121.200	119.730	1.470	450 Dia.	PPIC	450 Dia.	B125	350 Dia. Restricted access	
F 13	121.200	119.555	1.645	450 Dia.	PPIC	450 x 450	B125	Recessed 350 Dia. Restricted access	
F 14	121.200	119.510	1.690	450 Dia.	PPIC	450 x 450	B125	Recessed 350 Dia. Restricted access	
F 15	121.200	119.415	1.785	450 Dia.	PPIC	450 Dia.	B125	350 Dia. Restricted access	
F 16	121.200	119.390	1.810	450 Dia.	PPIC	450 x 450	B125	350 Dia. Restricted access	
F 17	121.200	119.320	1.880	450 Dia.	PPIC	450 x 450	B125	350 Dia. Restricted access	
F 18	121.200	119.300	1.900	450 Dia.	PPIC	450 x 450	B125	350 Dia. Restricted access	
F 19	121.200	119.255	1.945	450 Dia.	PPIC	450 x 450	B125	350 Dia. Restricted access	
F 20	121.200	119.240	1.960	450 Dia.	PPIC	450 x 450	B125	350 Dia. Restricted access	
F 21	121.200	119.210	1.990	450 Dia.	PPIC	450 x 450	B125	350 Dia. Restricted access	
F 22	121.200	120.270	0.930	450 Dia.	PPIC	450 x 450	B125		

P1

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Date

Revised by

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Manhole Schedule

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APPENDIX C – Causeway Flow Design Output

Design Settings

Rainfall Methodology	FSR	Maximum Time of Concentration (mins)	30.00
Return Period (years)	1	Maximum Rainfall (mm/hr)	50.0
Additional Flow (%)	0	Minimum Velocity (m/s)	1.00
FSR Region	England and Wales	Connection Type	Level Soffits
M5-60 (mm)	20.000	Minimum Backdrop Height (m)	0.200
Ratio-R	0.346	Preferred Cover Depth (m)	1.200
CV	0.750	Include Intermediate Ground	✓
Time of Entry (mins)	5.00	Enforce best practice design rules	x

Nodes

Name	Area (ha)	T of E (mins)	Cover Level (m)	Diameter (mm)	Depth (m)
S01	0.012	5.00	121.200	450	0.490
S02	0.012	5.00	121.200	450	0.595
S03	0.003	5.00	121.200	600	0.740
S04	0.014	5.00	121.200	600	0.780
S05	0.009	5.00	121.200	600	0.805
S06	0.022	5.00	121.200	600	0.875
Tank01	0.000		121.200		0.890
S07	0.007	5.00	121.200	450	0.699
S08	0.026	5.00	121.200	450	0.701
S09	0.000		121.200	450	0.780
S10	0.012	5.00	121.200	450	0.870
S11	0.000	3.00	121.200	450	0.889
S12	0.014	5.00	121.200	600	0.675
S14	0.004	5.00	121.200	450	0.889
S15	0.000		121.500	600	1.191
S16	0.020	5.00	121.575	1200	1.295
ACO	0.003	5.00	120.950	150	0.450
S17	0.000		121.560	450	1.370
Tank02			121.200		0.700

Links

Name	US Node	DS Node	Length (m)	ks (mm) / n	US IL (m)	DS IL (m)	Fall (m)	Slope (1:X)	Dia (mm)	T of C (mins)	Rain (mm/hr)
1.000	S01	S02	15.118	0.600	120.710	120.605	0.105	144.0	150	5.30	49.6
1.001	S02	S03	9.883	0.600	120.605	120.535	0.070	141.0	150	5.50	48.9
1.002	S03	S04	7.859	0.600	120.460	120.420	0.040	197.0	225	5.64	48.3
1.003	S04	S05	5.176	0.600	120.420	120.395	0.025	207.0	225	5.73	48.0
1.004	S05	S06	14.109	0.600	120.395	120.325	0.070	202.0	225	5.99	47.0
1.005	S06	Tank01	1.750	0.600	120.325	120.310	0.015	116.7	225	6.01	47.0

Name	Vel (m/s)	Cap (l/s)	Flow (l/s)	US Depth (m)	DS Depth (m)	Σ Area (ha)	Σ Add Inflow (l/s)	Pro Depth (mm)	Pro Velocity (m/s)
1.000	0.835	14.8	1.6	0.340	0.445	0.012	0.0	34	0.550
1.001	0.844	14.9	3.2	0.445	0.515	0.024	0.0	47	0.673
1.002	0.928	36.9	3.5	0.515	0.555	0.027	0.0	47	0.590
1.003	0.905	36.0	5.3	0.555	0.580	0.041	0.0	58	0.652
1.004	0.916	36.4	6.4	0.580	0.650	0.050	0.0	64	0.693
1.005	1.209	48.1	9.2	0.650	0.665	0.072	0.0	66	0.936

Links

Name	US Node	DS Node	Length (m)	ks (mm) / n	US IL (m)	DS IL (m)	Fall (m)	Slope (1:X)	Dia (mm)	T of C (mins)	Rain (mm/hr)
2.000a	S07	Tank02	1.000	0.600	120.501	120.500	0.001	1000.0	150	5.05	50.0
2.000b	Tank02	S08	1.000	0.600	120.500	120.499	0.001	1000.0	150	5.11	50.0
2.001	S08	S09	10.801	0.600	120.499	120.420	0.079	136.7	150	5.32	49.6
2.002	S09	S10	12.859	0.600	120.420	120.330	0.090	142.9	150	5.57	48.6
2.003	S10	S11	2.545	0.600	120.330	120.311	0.019	133.9	150	5.62	48.4
2.004	S11	Tank01	1.000	0.600	120.311	120.310	0.001	1000.0	150	5.68	48.2
3.000	S12	Tank01	1.000	0.600	120.525	120.500	0.025	40.0	150	5.01	50.0
4.000	S14	Tank01	1.000	0.600	120.311	120.310	0.001	1000.0	150	5.05	50.0
1.006	Tank01	S15	1.000	0.600	120.310	120.309	0.001	1000.0	225	6.06	46.8
1.007	S15	S16	3.944	0.600	120.309	120.280	0.029	136.0	225	6.11	46.6
5.000	ACO	S16	10.731	0.600	120.500	120.365	0.135	79.5	100	5.21	50.0
1.008	S16	S17	13.392	0.600	120.280	120.190	0.090	149.0	150	6.39	45.7

Name	Vel (m/s)	Cap (l/s)	Flow (l/s)	US Depth (m)	DS Depth (m)	Σ Area (ha)	Σ Add Inflow (l/s)	Pro Depth (mm)	Pro Velocity (m/s)
2.000a	0.310	5.5	0.9	0.549	0.550	0.007	0.0	42	0.232
2.000b	0.310	5.5	0.9	0.550	0.551	0.007	0.0	42	0.232
2.001	0.857	15.2	4.4	0.551	0.630	0.033	0.0	55	0.744
2.002	0.838	14.8	4.3	0.630	0.720	0.033	0.0	55	0.728
2.003	0.866	15.3	5.9	0.720	0.739	0.045	0.0	65	0.812
2.004	0.310	5.5	5.9	0.739	0.740	0.045	0.0	138	0.346
3.000	1.596	28.2	1.9	0.525	0.550	0.014	0.0	26	0.905
4.000	0.310	5.5	0.5	0.739	0.740	0.004	0.0	32	0.196
1.006	0.405	16.1	17.1	0.665	0.966	0.135	0.0	203	0.455
1.007	1.119	44.5	17.1	0.966	1.070	0.135	0.0	96	1.045
5.000	0.864	6.8	0.4	0.350	1.110	0.003	0.0	17	0.472
1.008	0.821	14.5	19.6	1.145	1.220	0.158	0.0	150	0.836

Pipeline Schedule

Link	Length (m)	Slope (1:X)	Dia (mm)	Link Type	US CL (m)	US IL (m)	US Depth (m)	DS CL (m)	DS IL (m)	DS Depth (m)
1.000	15.118	144.0	150	Circular	121.200	120.710	0.340	121.200	120.605	0.445
1.001	9.883	141.0	150	Circular	121.200	120.605	0.445	121.200	120.535	0.515
1.002	7.859	197.0	225	Circular	121.200	120.460	0.515	121.200	120.420	0.555
1.003	5.176	207.0	225	Circular	121.200	120.420	0.555	121.200	120.395	0.580
1.004	14.109	202.0	225	Circular	121.200	120.395	0.580	121.200	120.325	0.650
1.005	1.750	116.7	225	Circular	121.200	120.325	0.650	121.200	120.310	0.665
2.000a	1.000	1000.0	150	Circular	121.200	120.501	0.549	121.200	120.500	0.550
2.000b	1.000	1000.0	150	Circular	121.200	120.500	0.550	121.200	120.499	0.551

Link	US Node	Dia (mm)	Node Type	MH Type	DS Node	Dia (mm)	Node Type	MH Type
1.000	S01	450	Manhole	Adoptable	S02	450	Manhole	Adoptable
1.001	S02	450	Manhole	Adoptable	S03	600	Manhole	Adoptable
1.002	S03	600	Manhole	Adoptable	S04	600	Manhole	Adoptable
1.003	S04	600	Manhole	Adoptable	S05	600	Manhole	Adoptable
1.004	S05	600	Manhole	Adoptable	S06	600	Manhole	Adoptable
1.005	S06	600	Manhole	Adoptable	Tank01		Junction	
2.000a	S07	450	Manhole	Adoptable	Tank02		Junction	
2.000b	Tank02		Junction		S08	450	Manhole	Adoptable

Pipeline Schedule

Link	Length (m)	Slope (1:X)	Dia (mm)	Link Type	US CL (m)	US IL (m)	US Depth (m)	DS CL (m)	DS IL (m)	DS Depth (m)
2.001	10.801	136.7	150	Circular	121.200	120.499	0.551	121.200	120.420	0.630
2.002	12.859	142.9	150	Circular	121.200	120.420	0.630	121.200	120.330	0.720
2.003	2.545	133.9	150	Circular	121.200	120.330	0.720	121.200	120.311	0.739
2.004	1.000	1000.0	150	Circular	121.200	120.311	0.739	121.200	120.310	0.740
3.000	1.000	40.0	150	Circular	121.200	120.525	0.525	121.200	120.500	0.550
4.000	1.000	1000.0	150	Circular	121.200	120.311	0.739	121.200	120.310	0.740
1.006	1.000	1000.0	225	Circular	121.200	120.310	0.665	121.500	120.309	0.966
1.007	3.944	136.0	225	Circular	121.500	120.309	0.966	121.575	120.280	1.070
5.000	10.731	79.5	100	Circular	120.950	120.500	0.350	121.575	120.365	1.110
1.008	13.392	149.0	150	Circular	121.575	120.280	1.145	121.560	120.190	1.220

Link	US Node	Dia (mm)	Node Type	MH Type	DS Node	Dia (mm)	Node Type	MH Type
2.001	S08	450	Manhole	Adoptable	S09	450	Manhole	Adoptable
2.002	S09	450	Manhole	Adoptable	S10	450	Manhole	Adoptable
2.003	S10	450	Manhole	Adoptable	S11	450	Manhole	Adoptable
2.004	S11	450	Manhole	Adoptable	Tank01		Junction	
3.000	S12	600	Manhole	Adoptable	Tank01		Junction	
4.000	S14	450	Manhole	Adoptable	Tank01		Junction	
1.006	Tank01		Junction		S15	600	Manhole	Adoptable
1.007	S15	600	Manhole	Adoptable	S16	1200	Manhole	Adoptable
5.000	ACO	150	Manhole	Adoptable	S16	1200	Manhole	Adoptable
1.008	S16	1200	Manhole	Adoptable	S17	450	Manhole	Adoptable

Manhole Schedule

Node	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)
S01	121.200	0.490	450				
				0	1.000	120.710	150
S02	121.200	0.595	450				
				0	1.001	120.605	150
S03	121.200	0.740	600				
				0	1.002	120.460	225
S04	121.200	0.780	600				
				0	1.003	120.420	225
S05	121.200	0.805	600				
				0	1.004	120.395	225
S06	121.200	0.875	600				
				0	1.005	120.325	225

Manhole Schedule

Node	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)	
Tank01	121.200	0.890		1	4.000	120.310	150	
				2	3.000	120.500	150	
				3	2.004	120.310	150	
				4	1.005	120.310	225	
				0	1.006	120.310	225	
S07	121.200	0.699	450					
				0	2.000a	120.501	150	
S08	121.200	0.701	450		1	2.000b	120.499	150
				0	2.001	120.499	150	
S09	121.200	0.780	450		1	2.001	120.420	150
				0	2.002	120.420	150	
S10	121.200	0.870	450		1	2.002	120.330	150
				0	2.003	120.330	150	
S11	121.200	0.889	450		1	2.003	120.311	150
				0	2.004	120.311	150	
S12	121.200	0.675	600					
				0	3.000	120.525	150	
S14	121.200	0.889	450					
				0	4.000	120.311	150	
S15	121.500	1.191	600		1	1.006	120.309	225
				0	1.007	120.309	225	
S16	121.575	1.295	1200		1	5.000	120.365	100
				2	1.007	120.280	225	
				0	1.008	120.280	150	
ACO	120.950	0.450	150					
				0	5.000	120.500	100	
S17	121.560	1.370	450		1	1.008	120.190	150
Tank02	121.200	0.700		1	2.000a	120.500	150	
				0	2.000b	120.500	150	

Simulation Settings

Rainfall Methodology	FSR	Analysis Speed	Detailed
Rainfall Events	Singular	Skip Steady State	x
FSR Region	England and Wales	Drain Down Time (mins)	240
M5-60 (mm)	20.000	Additional Storage (m³/ha)	20.0
Ratio-R	0.346	Starting Level (m)	
Summer CV	0.750	Check Discharge Rate(s)	x
Winter CV	0.840	Check Discharge Volume	x

Storm Durations

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

Return Period (years)	Climate Change (CC %)	Additional Area (A %)	Additional Flow (Q %)
1	0	0	0
30	0	0	0
100	45	0	0

Node S16 Online Hydro-Brake® Control

Flap Valve	x	Objective	(HE) Minimise upstream storage
Replaces Downstream Link	x	Sump Available	✓
Invert Level (m)	120.280	Product Number	CTL-SHE-0092-3300-0650-3300
Design Depth (m)	0.650	Min Outlet Diameter (m)	0.150
Design Flow (l/s)	3.3	Min Node Diameter (mm)	1200

Node Tank01 Depth/Area Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Safety Factor	2.0	Invert Level (m)	120.310
Side Inf Coefficient (m/hr)	0.00000	Porosity	0.95	Time to half empty (mins)	244

Depth (m)	Area (m²)	Inf Area (m²)	Depth (m)	Area (m²)	Inf Area (m²)	Depth (m)	Area (m²)	Inf Area (m²)
0.000	180.5	180.5	0.400	180.5	199.6	0.401	0.0	199.6

Node Tank02 Depth/Area Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Safety Factor	2.0	Invert Level (m)	120.500
Side Inf Coefficient (m/hr)	0.00000	Porosity	0.95	Time to half empty (mins)	96

Depth (m)	Area (m²)	Inf Area (m²)	Depth (m)	Area (m²)	Inf Area (m²)	Depth (m)	Area (m²)	Inf Area (m²)
0.000	59.7	59.7	0.150	59.7	63.8	0.151	0.0	63.8

Results for 1 year Critical Storm Duration. Lowest mass balance: 99.65%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	S01	10	120.743	0.033	1.6	0.0214	0.0000	OK
15 minute winter	S02	10	120.653	0.048	3.2	0.0271	0.0000	OK
15 minute winter	S03	11	120.508	0.048	3.5	0.0174	0.0000	OK
15 minute winter	S04	11	120.485	0.065	5.3	0.0416	0.0000	OK
15 minute winter	S05	11	120.462	0.067	6.5	0.0337	0.0000	OK
15 minute winter	S06	11	120.392	0.067	9.3	0.0525	0.0000	OK
240 minute winter	Tank01	172	120.391	0.081	3.8	13.9563	0.0000	OK
15 minute summer	S07	11	120.534	0.033	0.9	0.0119	0.0000	OK
15 minute winter	S08	10	120.537	0.038	3.5	0.0345	0.0000	OK
15 minute winter	S09	10	120.457	0.037	2.0	0.0059	0.0000	OK
240 minute winter	S10	172	120.392	0.062	1.1	0.0268	0.0000	OK
240 minute winter	S11	172	120.392	0.080	1.1	0.0128	0.0000	OK
15 minute winter	S12	10	120.554	0.029	1.9	0.0200	0.0000	OK
240 minute winter	S14	172	120.391	0.080	0.1	0.0200	0.0000	OK
240 minute winter	S15	172	120.391	0.082	1.8	0.0232	0.0000	OK
240 minute winter	S16	172	120.391	0.111	2.0	0.1596	0.0000	OK
15 minute winter	ACO	11	120.517	0.017	0.4	0.0025	0.0000	OK
240 minute winter	S17	172	120.228	0.038	2.0	0.0000	0.0000	OK
120 minute winter	Tank02	80	120.525	0.025	0.7	1.4353	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute winter	S01	1.000	S02	1.6	0.409	0.106	0.0585	
15 minute winter	S02	1.001	S03	3.1	0.653	0.207	0.0468	
15 minute winter	S03	1.002	S04	3.5	0.454	0.095	0.0612	
15 minute winter	S04	1.003	S05	5.4	0.556	0.149	0.0498	
15 minute winter	S05	1.004	S06	6.5	0.661	0.178	0.1386	
15 minute winter	S06	1.005	Tank01	9.3	1.881	0.194	0.0107	
240 minute winter	Tank01	1.006	S15	1.8	0.277	0.113	0.0130	
15 minute summer	S07	2.000a	Tank02	1.0	0.885	0.192	0.0017	
15 minute winter	S08	2.001	S09	2.0	0.587	0.135	0.0375	
15 minute winter	S09	2.002	S10	2.0	0.403	0.136	0.0651	
240 minute winter	S10	2.003	S11	1.1	0.318	0.071	0.0209	
240 minute winter	S11	2.004	Tank01	1.1	0.623	0.196	0.0097	
15 minute winter	S12	3.000	Tank01	1.9	0.856	0.067	0.0022	
240 minute winter	S14	4.000	Tank01	0.1	0.086	0.018	0.0097	
240 minute winter	S15	1.007	S16	1.8	0.123	0.041	0.0642	
240 minute winter	S16	1.008	S17	2.0	0.572	0.138	0.0469	24.5
15 minute winter	ACO	5.000	S16	0.4	0.470	0.059	0.0091	
120 minute winter	Tank02	2.000b	S08	-0.5	-0.371	-0.083	0.0020	

Results for 30 year Critical Storm Duration. Lowest mass balance: 99.83%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	S01	10	120.763	0.053	4.0	0.0342	0.0000	OK
15 minute winter	S02	10	120.687	0.082	7.9	0.0459	0.0000	OK
15 minute winter	S03	10	120.545	0.085	8.7	0.0310	0.0000	OK
15 minute winter	S04	11	120.531	0.111	13.2	0.0711	0.0000	OK
15 minute winter	S05	11	120.506	0.111	16.0	0.0563	0.0000	OK
180 minute winter	S06	144	120.504	0.179	5.9	0.1408	0.0000	OK
180 minute winter	Tank01	144	120.504	0.194	10.4	33.2915	0.0000	OK
15 minute summer	S07	10	120.553	0.052	2.2	0.0188	0.0000	OK
15 minute winter	S08	10	120.556	0.057	8.6	0.0516	0.0000	OK
180 minute winter	S09	144	120.505	0.085	2.5	0.0135	0.0000	OK
180 minute winter	S10	144	120.505	0.174	3.5	0.0759	0.0000	SURCHARGED
180 minute winter	S11	144	120.504	0.193	3.4	0.0307	0.0000	SURCHARGED
15 minute winter	S12	10	120.571	0.046	4.6	0.0320	0.0000	OK
180 minute winter	S14	144	120.504	0.193	0.3	0.0481	0.0000	SURCHARGED
180 minute winter	S15	144	120.504	0.195	3.2	0.0552	0.0000	OK
180 minute winter	S16	144	120.504	0.224	3.3	0.3224	0.0000	SURCHARGED
15 minute winter	ACO	10	120.526	0.026	1.0	0.0040	0.0000	OK
180 minute winter	S17	144	120.238	0.048	3.3	0.0000	0.0000	OK
60 minute winter	Tank02	40	120.552	0.051	3.1	2.9193	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute winter	S01	1.000	S02	3.9	0.515	0.267	0.1158	
15 minute winter	S02	1.001	S03	7.7	0.824	0.517	0.0928	
15 minute winter	S03	1.002	S04	8.6	0.522	0.234	0.1304	
15 minute winter	S04	1.003	S05	13.1	0.671	0.364	0.1009	
15 minute winter	S05	1.004	S06	16.1	0.834	0.441	0.2715	
180 minute winter	S06	1.005	Tank01	5.8	1.038	0.120	0.0616	
180 minute winter	Tank01	1.006	S15	3.2	0.201	0.200	0.0365	
15 minute summer	S07	2.000a	Tank02	2.7	0.914	0.494	0.0036	
15 minute winter	S08	2.001	S09	4.3	0.718	0.285	0.0649	
180 minute winter	S09	2.002	S10	2.5	0.342	0.168	0.1791	
180 minute winter	S10	2.003	S11	3.4	0.348	0.223	0.0448	
180 minute winter	S11	2.004	Tank01	3.4	0.792	0.615	0.0176	
15 minute winter	S12	3.000	Tank01	4.6	1.084	0.162	0.0042	
180 minute winter	S14	4.000	Tank01	0.3	0.315	0.047	0.0176	
180 minute winter	S15	1.007	S16	3.2	0.122	0.073	0.1505	
180 minute winter	S16	1.008	S17	3.3	0.655	0.227	0.0673	50.3
15 minute winter	ACO	5.000	S16	1.0	0.604	0.144	0.0243	
60 minute winter	Tank02	2.000b	S08	-1.9	-0.656	-0.346	0.0054	

Results for 100 year +45% CC Critical Storm Duration. Lowest mass balance: 99.68%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	S01	10	120.784	0.074	7.4	0.0483	0.0000	OK
15 minute winter	S02	10	120.736	0.131	14.7	0.0738	0.0000	OK
240 minute winter	S03	228	120.711	0.251	3.4	0.0912	0.0000	SURCHARGED
240 minute winter	S04	228	120.711	0.291	5.1	0.1866	0.0000	SURCHARGED
240 minute winter	S05	228	120.711	0.316	6.1	0.1597	0.0000	SURCHARGED
240 minute winter	S06	228	120.711	0.386	8.7	0.3031	0.0000	SURCHARGED
240 minute winter	Tank01	228	120.711	0.401	15.6	68.6583	0.0000	SURCHARGED
240 minute winter	S07	228	120.711	0.210	0.9	0.0754	0.0000	SURCHARGED
240 minute winter	S08	228	120.711	0.212	3.8	0.1910	0.0000	SURCHARGED
240 minute winter	S09	228	120.711	0.291	3.8	0.0462	0.0000	SURCHARGED
240 minute winter	S10	228	120.711	0.381	5.2	0.1656	0.0000	SURCHARGED
240 minute winter	S11	228	120.711	0.400	5.1	0.0635	0.0000	SURCHARGED
240 minute winter	S12	228	120.711	0.186	2.8	0.1295	0.0000	SURCHARGED
240 minute winter	S14	228	120.711	0.400	0.5	0.0995	0.0000	SURCHARGED
240 minute winter	S15	228	120.711	0.401	3.2	0.1136	0.0000	SURCHARGED
240 minute winter	S16	228	120.710	0.430	3.5	0.6196	0.0000	SURCHARGED
240 minute winter	ACO	228	120.710	0.210	0.4	0.0318	0.0000	FLOOD RISK
60 minute winter	S17	201	120.238	0.048	3.3	0.0000	0.0000	OK
240 minute winter	Tank02	228	120.711	0.211	4.0	8.5356	0.0000	SURCHARGED

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute winter	S01	1.000	S02	7.3	0.576	0.497	0.1894	
15 minute winter	S02	1.001	S03	14.4	0.945	0.963	0.1500	
240 minute winter	S03	1.002	S04	3.3	0.427	0.090	0.3126	
240 minute winter	S04	1.003	S05	5.0	0.526	0.138	0.2059	
240 minute winter	S05	1.004	S06	5.9	0.413	0.162	0.5611	
240 minute winter	S06	1.005	Tank01	8.6	1.174	0.179	0.0696	
240 minute winter	Tank01	1.006	S15	3.2	-0.169	0.201	0.0398	
240 minute winter	S07	2.000a	Tank02	0.9	0.484	0.163	0.0176	
240 minute winter	S08	2.001	S09	3.8	0.632	0.252	0.1901	
240 minute winter	S09	2.002	S10	3.7	0.320	0.248	0.2264	
240 minute winter	S10	2.003	S11	5.1	0.382	0.333	0.0448	
240 minute winter	S11	2.004	Tank01	5.0	0.821	0.914	0.0176	
240 minute winter	S12	3.000	Tank01	4.8	0.836	0.170	0.0176	
240 minute winter	S14	4.000	Tank01	0.5	0.378	0.083	0.0176	
240 minute winter	S15	1.007	S16	3.3	0.085	0.073	0.1569	
240 minute winter	S16	1.008	S17	3.3	0.655	0.227	0.0674	79.2
240 minute winter	ACO	5.000	S16	0.4	0.312	0.058	0.0840	
240 minute winter	Tank02	2.000b	S08	-3.3	-0.349	-0.594	0.0176	

Results for 1 year 15 minute summer. 255 minute analysis at 1 minute timestep. Mass balance: 99.65%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	S01	11	120.742	0.032	1.5	0.0209	0.0000	OK
15 minute summer	S02	11	120.652	0.047	3.0	0.0266	0.0000	OK
15 minute summer	S03	11	120.507	0.047	3.4	0.0171	0.0000	OK
15 minute summer	S04	11	120.483	0.063	5.1	0.0406	0.0000	OK
15 minute summer	S05	11	120.460	0.065	6.3	0.0330	0.0000	OK
15 minute summer	S06	11	120.391	0.065	9.0	0.0515	0.0000	OK
15 minute summer	Tank01	20	120.349	0.039	17.1	6.6920	0.0000	OK
15 minute summer	S07	11	120.534	0.033	0.9	0.0119	0.0000	OK
15 minute summer	S08	10	120.536	0.037	3.3	0.0337	0.0000	OK
15 minute summer	S09	10	120.457	0.037	2.0	0.0058	0.0000	OK
15 minute summer	S10	11	120.390	0.060	3.5	0.0260	0.0000	OK
15 minute summer	S11	11	120.380	0.069	3.4	0.0110	0.0000	OK
15 minute summer	S12	10	120.553	0.028	1.8	0.0194	0.0000	OK
15 minute summer	S14	21	120.349	0.038	0.5	0.0095	0.0000	OK
15 minute summer	S15	19	120.348	0.039	1.9	0.0111	0.0000	OK
15 minute summer	S16	10	120.356	0.076	3.0	0.1096	0.0000	OK
15 minute summer	ACO	11	120.517	0.017	0.4	0.0025	0.0000	OK
15 minute summer	S17	10	120.217	0.027	1.1	0.0000	0.0000	OK
15 minute summer	Tank02	18	120.516	0.016	2.3	0.8804	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	S01	1.000	S02	1.5	0.404	0.102	0.0570	
15 minute summer	S02	1.001	S03	3.0	0.647	0.201	0.0458	
15 minute summer	S03	1.002	S04	3.4	0.452	0.092	0.0594	
15 minute summer	S04	1.003	S05	5.1	0.548	0.142	0.0483	
15 minute summer	S05	1.004	S06	6.3	0.655	0.172	0.1348	
15 minute summer	S06	1.005	Tank01	9.0	1.909	0.187	0.0102	
15 minute summer	Tank01	1.006	S15	-1.9	-0.748	-0.116	0.0046	
15 minute summer	S07	2.000a	Tank02	1.0	0.885	0.192	0.0017	
15 minute summer	S08	2.001	S09	2.0	0.581	0.129	0.0365	
15 minute summer	S09	2.002	S10	2.0	0.402	0.132	0.0632	
15 minute summer	S10	2.003	S11	3.4	0.484	0.223	0.0184	
15 minute summer	S11	2.004	Tank01	4.1	1.130	0.750	0.0047	
15 minute summer	S12	3.000	Tank01	1.8	0.844	0.063	0.0021	
15 minute summer	S14	4.000	Tank01	0.5	0.558	0.086	0.0036	
15 minute summer	S15	1.007	S16	-1.9	-0.242	-0.042	0.0315	
15 minute summer	S16	1.008	S17	1.1	0.476	0.072	0.0296	6.4
15 minute summer	ACO	5.000	S16	0.4	0.470	0.059	0.0091	
15 minute summer	Tank02	2.000b	S08	-1.3	-0.825	-0.245	0.0019	

Results for 1 year 15 minute winter. 255 minute analysis at 1 minute timestep. Mass balance: 99.67%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	S01	10	120.743	0.033	1.6	0.0214	0.0000	OK
15 minute winter	S02	10	120.653	0.048	3.2	0.0271	0.0000	OK
15 minute winter	S03	11	120.508	0.048	3.5	0.0174	0.0000	OK
15 minute winter	S04	11	120.485	0.065	5.3	0.0416	0.0000	OK
15 minute winter	S05	11	120.462	0.067	6.5	0.0337	0.0000	OK
15 minute winter	S06	11	120.392	0.067	9.3	0.0525	0.0000	OK
15 minute winter	Tank01	19	120.353	0.043	17.0	7.4449	0.0000	OK
15 minute winter	S07	10	120.534	0.033	0.9	0.0118	0.0000	OK
15 minute winter	S08	10	120.537	0.038	3.5	0.0345	0.0000	OK
15 minute winter	S09	10	120.457	0.037	2.0	0.0059	0.0000	OK
15 minute winter	S10	10	120.391	0.061	3.6	0.0265	0.0000	OK
15 minute winter	S11	10	120.380	0.069	3.6	0.0110	0.0000	OK
15 minute winter	S12	10	120.554	0.029	1.9	0.0200	0.0000	OK
15 minute winter	S14	20	120.353	0.042	0.5	0.0105	0.0000	OK
15 minute winter	S15	19	120.353	0.044	2.0	0.0124	0.0000	OK
15 minute winter	S16	10	120.357	0.077	3.1	0.1108	0.0000	OK
15 minute winter	ACO	11	120.517	0.017	0.4	0.0025	0.0000	OK
15 minute winter	S17	10	120.218	0.028	1.1	0.0000	0.0000	OK
15 minute winter	Tank02	17	120.518	0.018	2.6	0.9930	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute winter	S01	1.000	S02	1.6	0.409	0.106	0.0585	
15 minute winter	S02	1.001	S03	3.1	0.653	0.207	0.0468	
15 minute winter	S03	1.002	S04	3.5	0.454	0.095	0.0612	
15 minute winter	S04	1.003	S05	5.4	0.556	0.149	0.0498	
15 minute winter	S05	1.004	S06	6.5	0.661	0.178	0.1386	
15 minute winter	S06	1.005	Tank01	9.3	1.881	0.194	0.0107	
15 minute winter	Tank01	1.006	S15	-1.9	-0.740	-0.120	0.0054	
15 minute winter	S07	2.000a	Tank02	1.1	0.847	0.210	0.0016	
15 minute winter	S08	2.001	S09	2.0	0.587	0.135	0.0375	
15 minute winter	S09	2.002	S10	2.0	0.403	0.136	0.0651	
15 minute winter	S10	2.003	S11	3.6	0.510	0.237	0.0187	
15 minute winter	S11	2.004	Tank01	3.8	0.846	0.695	0.0048	
15 minute winter	S12	3.000	Tank01	1.9	0.856	0.067	0.0022	
15 minute winter	S14	4.000	Tank01	0.5	0.559	0.083	0.0041	
15 minute winter	S15	1.007	S16	-2.0	-0.248	-0.044	0.0325	
15 minute winter	S16	1.008	S17	1.1	0.478	0.074	0.0300	7.2
15 minute winter	ACO	5.000	S16	0.4	0.470	0.059	0.0091	
15 minute winter	Tank02	2.000b	S08	-1.4	-0.838	-0.263	0.0020	

Results for 1 year 30 minute summer. 270 minute analysis at 1 minute timestep. Mass balance: 99.71%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
30 minute summer	S01	18	120.741	0.031	1.4	0.0202	0.0000	OK
30 minute summer	S02	18	120.651	0.046	2.8	0.0256	0.0000	OK
30 minute summer	S03	18	120.505	0.045	3.2	0.0165	0.0000	OK
30 minute summer	S04	18	120.481	0.061	4.8	0.0391	0.0000	OK
30 minute summer	S05	18	120.458	0.063	5.9	0.0319	0.0000	OK
30 minute summer	S06	18	120.388	0.063	8.4	0.0497	0.0000	OK
30 minute summer	Tank01	33	120.360	0.050	14.9	8.6013	0.0000	OK
30 minute summer	S07	18	120.531	0.030	0.8	0.0108	0.0000	OK
30 minute summer	S08	17	120.535	0.035	3.0	0.0320	0.0000	OK
30 minute summer	S09	18	120.455	0.035	1.8	0.0055	0.0000	OK
30 minute summer	S10	18	120.386	0.056	3.2	0.0242	0.0000	OK
30 minute summer	S11	17	120.375	0.064	3.2	0.0102	0.0000	OK
30 minute summer	S12	18	120.551	0.026	1.6	0.0183	0.0000	OK
30 minute summer	S14	33	120.360	0.049	0.5	0.0122	0.0000	OK
30 minute summer	S15	32	120.360	0.051	1.7	0.0143	0.0000	OK
30 minute summer	S16	32	120.360	0.080	2.7	0.1145	0.0000	OK
30 minute summer	ACO	18	120.517	0.017	0.4	0.0025	0.0000	OK
30 minute summer	S17	34	120.218	0.028	1.1	0.0000	0.0000	OK
30 minute summer	Tank02	28	120.519	0.019	2.2	1.0554	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
30 minute summer	S01	1.000	S02	1.4	0.395	0.095	0.0541	
30 minute summer	S02	1.001	S03	2.8	0.634	0.187	0.0434	
30 minute summer	S03	1.002	S04	3.2	0.447	0.086	0.0563	
30 minute summer	S04	1.003	S05	4.8	0.537	0.132	0.0459	
30 minute summer	S05	1.004	S06	5.8	0.643	0.160	0.1284	
30 minute summer	S06	1.005	Tank01	8.4	1.622	0.175	0.0106	
30 minute summer	Tank01	1.006	S15	-1.7	-0.596	-0.103	0.0066	
30 minute summer	S07	2.000a	Tank02	1.0	0.798	0.178	0.0015	
30 minute summer	S08	2.001	S09	1.8	0.564	0.116	0.0337	
30 minute summer	S09	2.002	S10	1.8	0.393	0.119	0.0581	
30 minute summer	S10	2.003	S11	3.2	0.493	0.206	0.0167	
30 minute summer	S11	2.004	Tank01	3.5	0.864	0.641	0.0051	
30 minute summer	S12	3.000	Tank01	1.6	0.819	0.057	0.0020	
30 minute summer	S14	4.000	Tank01	0.4	0.432	0.081	0.0051	
30 minute summer	S15	1.007	S16	-1.7	-0.227	-0.038	0.0378	
30 minute summer	S16	1.008	S17	1.1	0.488	0.079	0.0314	9.0
30 minute summer	ACO	5.000	S16	0.4	0.470	0.059	0.0091	
30 minute summer	Tank02	2.000b	S08	-1.3	-0.768	-0.230	0.0018	

Results for 1 year 30 minute winter. 270 minute analysis at 1 minute timestep. Mass balance: 99.74%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
30 minute winter	S01	18	120.740	0.030	1.3	0.0195	0.0000	OK
30 minute winter	S02	18	120.649	0.044	2.6	0.0246	0.0000	OK
30 minute winter	S03	18	120.503	0.043	2.9	0.0155	0.0000	OK
30 minute winter	S04	18	120.478	0.058	4.4	0.0372	0.0000	OK
30 minute winter	S05	18	120.455	0.060	5.4	0.0304	0.0000	OK
30 minute winter	S06	18	120.385	0.060	7.6	0.0473	0.0000	OK
30 minute winter	Tank01	33	120.367	0.057	14.0	9.8371	0.0000	OK
30 minute winter	S07	17	120.529	0.028	0.7	0.0101	0.0000	OK
30 minute winter	S08	17	120.533	0.034	2.7	0.0302	0.0000	OK
30 minute winter	S09	18	120.453	0.033	1.6	0.0052	0.0000	OK
30 minute winter	S10	18	120.383	0.053	2.9	0.0230	0.0000	OK
30 minute winter	S11	18	120.370	0.059	2.9	0.0094	0.0000	OK
30 minute winter	S12	18	120.550	0.025	1.5	0.0177	0.0000	OK
30 minute winter	S14	33	120.367	0.056	0.4	0.0140	0.0000	OK
30 minute winter	S15	32	120.367	0.058	1.4	0.0164	0.0000	OK
30 minute winter	S16	32	120.367	0.087	2.4	0.1249	0.0000	OK
30 minute winter	ACO	20	120.515	0.015	0.3	0.0022	0.0000	OK
30 minute winter	S17	32	120.221	0.031	1.3	0.0000	0.0000	OK
30 minute winter	Tank02	28	120.521	0.021	1.9	1.1995	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
30 minute winter	S01	1.000	S02	1.3	0.387	0.088	0.0512	
30 minute winter	S02	1.001	S03	2.6	0.622	0.173	0.0411	
30 minute winter	S03	1.002	S04	2.9	0.436	0.078	0.0523	
30 minute winter	S04	1.003	S05	4.4	0.527	0.121	0.0429	
30 minute winter	S05	1.004	S06	5.3	0.628	0.147	0.1200	
30 minute winter	S06	1.005	Tank01	7.6	1.530	0.158	0.0115	
30 minute winter	Tank01	1.006	S15	-1.4	-0.523	-0.087	0.0080	
30 minute winter	S07	2.000a	Tank02	0.8	0.701	0.148	0.0015	
30 minute winter	S08	2.001	S09	1.6	0.547	0.104	0.0312	
30 minute winter	S09	2.002	S10	1.6	0.384	0.106	0.0539	
30 minute winter	S10	2.003	S11	2.9	0.499	0.188	0.0152	
30 minute winter	S11	2.004	Tank01	3.2	0.832	0.584	0.0061	
30 minute winter	S12	3.000	Tank01	1.5	0.805	0.053	0.0019	
30 minute winter	S14	4.000	Tank01	0.4	0.424	0.066	0.0061	
30 minute winter	S15	1.007	S16	-1.4	-0.207	-0.032	0.0437	
30 minute winter	S16	1.008	S17	1.3	0.510	0.092	0.0351	10.4
30 minute winter	ACO	5.000	S16	0.3	0.433	0.044	0.0074	
30 minute winter	Tank02	2.000b	S08	-1.1	-0.711	-0.207	0.0018	

Results for 1 year 60 minute summer. 300 minute analysis at 1 minute timestep. Mass balance: 99.77%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute summer	S01	33	120.738	0.028	1.1	0.0179	0.0000	OK
60 minute summer	S02	33	120.645	0.040	2.2	0.0225	0.0000	OK
60 minute summer	S03	33	120.499	0.039	2.5	0.0143	0.0000	OK
60 minute summer	S04	33	120.473	0.053	3.8	0.0343	0.0000	OK
60 minute summer	S05	33	120.450	0.055	4.6	0.0279	0.0000	OK
60 minute summer	S06	33	120.381	0.056	6.5	0.0437	0.0000	OK
60 minute summer	Tank01	60	120.370	0.060	12.3	10.3511	0.0000	OK
60 minute summer	S07	32	120.527	0.026	0.6	0.0093	0.0000	OK
60 minute summer	S08	32	120.530	0.031	2.4	0.0283	0.0000	OK
60 minute summer	S09	33	120.451	0.031	1.4	0.0049	0.0000	OK
60 minute summer	S10	33	120.378	0.048	2.5	0.0208	0.0000	OK
60 minute summer	S11	60	120.371	0.060	2.5	0.0095	0.0000	OK
60 minute summer	S12	33	120.549	0.024	1.3	0.0165	0.0000	OK
60 minute summer	S14	60	120.370	0.059	0.4	0.0148	0.0000	OK
60 minute summer	S15	60	120.370	0.061	1.4	0.0172	0.0000	OK
60 minute summer	S16	60	120.370	0.090	2.1	0.1294	0.0000	OK
60 minute summer	ACO	34	120.515	0.015	0.3	0.0022	0.0000	OK
60 minute summer	S17	60	120.222	0.032	1.4	0.0000	0.0000	OK
60 minute summer	Tank02	44	120.522	0.022	1.6	1.2446	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
60 minute summer	S01	1.000	S02	1.1	0.370	0.074	0.0453	
60 minute summer	S02	1.001	S03	2.2	0.593	0.146	0.0364	
60 minute summer	S03	1.002	S04	2.5	0.422	0.067	0.0464	
60 minute summer	S04	1.003	S05	3.8	0.511	0.104	0.0381	
60 minute summer	S05	1.004	S06	4.5	0.601	0.124	0.1068	
60 minute summer	S06	1.005	Tank01	6.5	1.262	0.135	0.0125	
60 minute summer	Tank01	1.006	S15	1.4	-0.335	0.086	0.0086	
60 minute summer	S07	2.000a	Tank02	0.7	0.567	0.120	0.0016	
60 minute summer	S08	2.001	S09	1.4	0.528	0.092	0.0285	
60 minute summer	S09	2.002	S10	1.4	0.377	0.094	0.0480	
60 minute summer	S10	2.003	S11	2.5	0.498	0.162	0.0134	
60 minute summer	S11	2.004	Tank01	3.2	0.773	0.586	0.0066	
60 minute summer	S12	3.000	Tank01	1.3	0.775	0.046	0.0017	
60 minute summer	S14	4.000	Tank01	0.3	0.286	0.061	0.0066	
60 minute summer	S15	1.007	S16	1.4	-0.165	0.031	0.0462	
60 minute summer	S16	1.008	S17	1.4	0.519	0.098	0.0367	12.2
60 minute summer	ACO	5.000	S16	0.3	0.433	0.044	0.0074	
60 minute summer	Tank02	2.000b	S08	-1.0	-0.631	-0.185	0.0017	

Results for 1 year 60 minute winter. 300 minute analysis at 1 minute timestep. Mass balance: 99.80%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute winter	S01	34	120.735	0.025	0.9	0.0163	0.0000	OK
60 minute winter	S02	34	120.641	0.036	1.8	0.0204	0.0000	OK
60 minute winter	S03	34	120.495	0.035	2.0	0.0129	0.0000	OK
60 minute winter	S04	34	120.467	0.047	3.0	0.0303	0.0000	OK
60 minute winter	S05	33	120.445	0.050	3.7	0.0251	0.0000	OK
60 minute winter	S06	59	120.379	0.054	5.3	0.0427	0.0000	OK
60 minute winter	Tank01	60	120.379	0.069	9.2	11.9058	0.0000	OK
60 minute winter	S07	42	120.525	0.024	0.5	0.0087	0.0000	OK
60 minute winter	S08	32	120.527	0.028	1.9	0.0253	0.0000	OK
60 minute winter	S09	32	120.448	0.028	1.1	0.0044	0.0000	OK
60 minute winter	S10	59	120.380	0.050	2.0	0.0216	0.0000	OK
60 minute winter	S11	60	120.380	0.069	2.0	0.0109	0.0000	OK
60 minute winter	S12	32	120.546	0.021	1.0	0.0144	0.0000	OK
60 minute winter	S14	60	120.379	0.068	0.3	0.0170	0.0000	OK
60 minute winter	S15	60	120.379	0.070	1.6	0.0198	0.0000	OK
60 minute winter	S16	60	120.379	0.099	1.7	0.1424	0.0000	OK
60 minute winter	ACO	33	120.512	0.012	0.2	0.0018	0.0000	OK
60 minute winter	S17	60	120.224	0.034	1.7	0.0000	0.0000	OK
60 minute winter	Tank02	45	120.525	0.025	1.3	1.3913	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
60 minute winter	S01	1.000	S02	0.9	0.350	0.061	0.0393	
60 minute winter	S02	1.001	S03	1.8	0.563	0.121	0.0316	
60 minute winter	S03	1.002	S04	2.0	0.402	0.054	0.0393	
60 minute winter	S04	1.003	S05	3.0	0.485	0.083	0.0323	
60 minute winter	S05	1.004	S06	3.7	0.567	0.101	0.0918	
60 minute winter	S06	1.005	Tank01	5.3	1.145	0.110	0.0155	
60 minute winter	Tank01	1.006	S15	1.6	0.277	0.101	0.0105	
60 minute winter	S07	2.000a	Tank02	0.5	0.561	0.100	0.0018	
60 minute winter	S08	2.001	S09	1.1	0.495	0.074	0.0244	
60 minute winter	S09	2.002	S10	1.1	0.363	0.076	0.0422	
60 minute winter	S10	2.003	S11	2.0	0.489	0.132	0.0165	
60 minute winter	S11	2.004	Tank01	2.0	0.847	0.359	0.0079	
60 minute winter	S12	3.000	Tank01	1.0	0.720	0.035	0.0014	
60 minute winter	S14	4.000	Tank01	0.3	0.410	0.046	0.0079	
60 minute winter	S15	1.007	S16	1.6	-0.124	0.037	0.0539	
60 minute winter	S16	1.008	S17	1.7	0.543	0.115	0.0412	14.1
60 minute winter	ACO	5.000	S16	0.2	0.383	0.029	0.0056	
60 minute winter	Tank02	2.000b	S08	-0.8	-0.541	-0.143	0.0019	

Results for 1 year 120 minute summer. 360 minute analysis at 2 minute timestep. Mass balance: 99.83%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
120 minute summer	S01	66	120.732	0.022	0.7	0.0144	0.0000	OK
120 minute summer	S02	66	120.637	0.032	1.4	0.0179	0.0000	OK
120 minute summer	S03	66	120.492	0.032	1.6	0.0115	0.0000	OK
120 minute summer	S04	64	120.463	0.043	2.5	0.0275	0.0000	OK
120 minute summer	S05	64	120.440	0.045	3.1	0.0228	0.0000	OK
120 minute summer	S06	90	120.379	0.054	4.5	0.0426	0.0000	OK
120 minute summer	Tank01	90	120.379	0.069	7.4	11.8754	0.0000	OK
120 minute summer	S07	76	120.524	0.023	0.4	0.0083	0.0000	OK
120 minute summer	S08	66	120.525	0.026	1.6	0.0237	0.0000	OK
120 minute summer	S09	66	120.446	0.026	1.0	0.0041	0.0000	OK
120 minute summer	S10	90	120.380	0.050	1.7	0.0216	0.0000	OK
120 minute summer	S11	90	120.379	0.068	1.7	0.0109	0.0000	OK
120 minute summer	S12	64	120.545	0.020	0.9	0.0136	0.0000	OK
120 minute summer	S14	92	120.379	0.068	0.2	0.0170	0.0000	OK
120 minute summer	S15	90	120.379	0.070	1.5	0.0198	0.0000	OK
120 minute summer	S16	90	120.379	0.099	1.7	0.1422	0.0000	OK
120 minute summer	ACO	66	120.512	0.012	0.2	0.0018	0.0000	OK
120 minute summer	S17	90	120.224	0.034	1.7	0.0000	0.0000	OK
120 minute summer	Tank02	76	120.524	0.024	1.0	1.3376	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
120 minute summer	S01	1.000	S02	0.7	0.326	0.047	0.0328	
120 minute summer	S02	1.001	S03	1.4	0.524	0.094	0.0264	
120 minute summer	S03	1.002	S04	1.6	0.379	0.043	0.0339	
120 minute summer	S04	1.003	S05	2.5	0.462	0.070	0.0282	
120 minute summer	S05	1.004	S06	3.1	0.531	0.085	0.0837	
120 minute summer	S06	1.005	Tank01	4.5	0.911	0.093	0.0155	
120 minute summer	Tank01	1.006	S15	1.5	0.277	0.095	0.0104	
120 minute summer	S07	2.000a	Tank02	0.4	0.466	0.072	0.0017	
120 minute summer	S08	2.001	S09	1.0	0.477	0.065	0.0222	
120 minute summer	S09	2.002	S10	1.0	0.352	0.066	0.0422	
120 minute summer	S10	2.003	S11	1.7	0.450	0.108	0.0164	
120 minute summer	S11	2.004	Tank01	1.6	0.733	0.296	0.0079	
120 minute summer	S12	3.000	Tank01	0.9	0.698	0.032	0.0013	
120 minute summer	S14	4.000	Tank01	0.2	0.135	0.031	0.0079	
120 minute summer	S15	1.007	S16	1.5	0.123	0.035	0.0537	
120 minute summer	S16	1.008	S17	1.7	0.543	0.115	0.0411	16.5
120 minute summer	ACO	5.000	S16	0.2	0.383	0.029	0.0056	
120 minute summer	Tank02	2.000b	S08	-0.6	-0.462	-0.117	0.0018	

Results for 1 year 120 minute winter. 360 minute analysis at 2 minute timestep. Mass balance: 99.84%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
120 minute winter	S01	66	120.731	0.021	0.6	0.0134	0.0000	OK
120 minute winter	S02	66	120.634	0.029	1.2	0.0165	0.0000	OK
120 minute winter	S03	66	120.489	0.029	1.3	0.0105	0.0000	OK
120 minute winter	S04	64	120.458	0.038	2.0	0.0244	0.0000	OK
120 minute winter	S05	62	120.434	0.039	2.4	0.0199	0.0000	OK
120 minute winter	S06	96	120.387	0.062	3.4	0.0487	0.0000	OK
120 minute winter	Tank01	96	120.387	0.077	5.7	13.1990	0.0000	OK
120 minute winter	S07	74	120.526	0.025	0.3	0.0089	0.0000	OK
120 minute winter	S08	76	120.525	0.026	1.2	0.0235	0.0000	OK
120 minute winter	S09	78	120.446	0.026	1.0	0.0041	0.0000	OK
120 minute winter	S10	96	120.387	0.057	1.4	0.0249	0.0000	OK
120 minute winter	S11	96	120.387	0.076	1.4	0.0121	0.0000	OK
120 minute winter	S12	64	120.542	0.017	0.7	0.0120	0.0000	OK
120 minute winter	S14	96	120.387	0.076	0.2	0.0189	0.0000	OK
120 minute winter	S15	96	120.387	0.078	1.7	0.0220	0.0000	OK
120 minute winter	S16	96	120.387	0.106	1.9	0.1533	0.0000	OK
120 minute winter	ACO	52	120.509	0.009	0.1	0.0013	0.0000	OK
120 minute winter	S17	96	120.226	0.036	1.9	0.0000	0.0000	OK
120 minute winter	Tank02	80	120.525	0.025	0.7	1.4353	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
120 minute winter	S01	1.000	S02	0.6	0.312	0.041	0.0294	
120 minute winter	S02	1.001	S03	1.2	0.502	0.080	0.0236	
120 minute winter	S03	1.002	S04	1.3	0.356	0.035	0.0289	
120 minute winter	S04	1.003	S05	2.0	0.446	0.056	0.0234	
120 minute winter	S05	1.004	S06	2.4	0.478	0.066	0.0788	
120 minute winter	S06	1.005	Tank01	3.4	0.973	0.070	0.0182	
120 minute winter	Tank01	1.006	S15	1.7	0.277	0.108	0.0121	
120 minute winter	S07	2.000a	Tank02	0.3	0.508	0.054	0.0019	
120 minute winter	S08	2.001	S09	1.0	0.474	0.063	0.0219	
120 minute winter	S09	2.002	S10	1.0	0.337	0.065	0.0498	
120 minute winter	S10	2.003	S11	1.4	0.410	0.094	0.0193	
120 minute winter	S11	2.004	Tank01	1.4	0.727	0.257	0.0090	
120 minute winter	S12	3.000	Tank01	0.7	0.650	0.025	0.0011	
120 minute winter	S14	4.000	Tank01	0.2	0.172	0.032	0.0090	
120 minute winter	S15	1.007	S16	1.7	0.123	0.039	0.0603	
120 minute winter	S16	1.008	S17	1.9	0.562	0.130	0.0449	18.5
120 minute winter	ACO	5.000	S16	0.1	0.312	0.015	0.0074	
120 minute winter	Tank02	2.000b	S08	-0.5	-0.371	-0.083	0.0020	

Results for 1 year 180 minute summer. 420 minute analysis at 4 minute timestep. Mass balance: 99.86%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
180 minute summer	S01	96	120.731	0.021	0.6	0.0134	0.0000	OK
180 minute summer	S02	96	120.634	0.029	1.2	0.0165	0.0000	OK
180 minute summer	S03	96	120.489	0.029	1.3	0.0105	0.0000	OK
180 minute summer	S04	96	120.458	0.038	2.0	0.0244	0.0000	OK
180 minute summer	S05	96	120.434	0.039	2.4	0.0197	0.0000	OK
180 minute summer	S06	124	120.383	0.058	3.4	0.0459	0.0000	OK
180 minute summer	Tank01	124	120.383	0.073	5.6	12.5859	0.0000	OK
180 minute summer	S07	108	120.524	0.023	0.3	0.0081	0.0000	OK
180 minute summer	S08	96	120.523	0.024	1.2	0.0216	0.0000	OK
180 minute summer	S09	96	120.444	0.024	0.8	0.0038	0.0000	OK
180 minute summer	S10	124	120.384	0.054	1.4	0.0233	0.0000	OK
180 minute summer	S11	124	120.384	0.073	1.4	0.0115	0.0000	OK
180 minute summer	S12	96	120.542	0.017	0.7	0.0120	0.0000	OK
180 minute summer	S14	124	120.383	0.072	0.2	0.0180	0.0000	OK
180 minute summer	S15	124	120.383	0.074	1.6	0.0209	0.0000	OK
180 minute summer	S16	124	120.383	0.103	1.8	0.1481	0.0000	OK
180 minute summer	ACO	88	120.509	0.009	0.1	0.0013	0.0000	OK
180 minute summer	S17	124	120.225	0.035	1.8	0.0000	0.0000	OK
180 minute summer	Tank02	108	120.523	0.023	0.7	1.3047	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
180 minute summer	S01	1.000	S02	0.6	0.311	0.041	0.0294	
180 minute summer	S02	1.001	S03	1.2	0.502	0.080	0.0236	
180 minute summer	S03	1.002	S04	1.3	0.356	0.035	0.0289	
180 minute summer	S04	1.003	S05	2.0	0.446	0.056	0.0232	
180 minute summer	S05	1.004	S06	2.4	0.472	0.066	0.0739	
180 minute summer	S06	1.005	Tank01	3.4	0.834	0.070	0.0170	
180 minute summer	Tank01	1.006	S15	1.6	0.275	0.102	0.0113	
180 minute summer	S07	2.000a	Tank02	0.3	0.439	0.054	0.0017	
180 minute summer	S08	2.001	S09	0.8	0.451	0.054	0.0194	
180 minute summer	S09	2.002	S10	0.8	0.328	0.054	0.0453	
180 minute summer	S10	2.003	S11	1.4	0.367	0.091	0.0179	
180 minute summer	S11	2.004	Tank01	1.4	0.668	0.249	0.0085	
180 minute summer	S12	3.000	Tank01	0.7	0.650	0.025	0.0011	
180 minute summer	S14	4.000	Tank01	0.2	0.089	0.032	0.0085	
180 minute summer	S15	1.007	S16	1.6	0.123	0.037	0.0572	
180 minute summer	S16	1.008	S17	1.8	0.553	0.123	0.0431	19.6
180 minute summer	ACO	5.000	S16	0.1	0.312	0.015	0.0054	
180 minute summer	Tank02	2.000b	S08	-0.5	-0.371	-0.083	0.0017	

Results for 1 year 180 minute winter. 420 minute analysis at 4 minute timestep. Mass balance: 99.86%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
180 minute winter	S01	88	120.727	0.017	0.4	0.0110	0.0000	OK
180 minute winter	S02	88	120.629	0.024	0.8	0.0135	0.0000	OK
180 minute winter	S03	92	120.484	0.024	0.9	0.0088	0.0000	OK
180 minute winter	S04	88	120.452	0.032	1.4	0.0203	0.0000	OK
180 minute winter	S05	92	120.428	0.033	1.7	0.0166	0.0000	OK
180 minute winter	S06	132	120.389	0.064	2.5	0.0506	0.0000	OK
180 minute winter	Tank01	132	120.389	0.079	4.1	13.6032	0.0000	OK
180 minute winter	S07	116	120.524	0.023	0.3	0.0084	0.0000	OK
180 minute winter	S08	112	120.524	0.025	0.9	0.0221	0.0000	OK
180 minute winter	S09	112	120.444	0.024	0.9	0.0039	0.0000	OK
180 minute winter	S10	132	120.390	0.060	1.2	0.0259	0.0000	OK
180 minute winter	S11	132	120.389	0.078	1.2	0.0125	0.0000	OK
180 minute winter	S12	88	120.540	0.015	0.5	0.0102	0.0000	OK
180 minute winter	S14	132	120.389	0.078	0.1	0.0195	0.0000	OK
180 minute winter	S15	132	120.389	0.080	1.8	0.0226	0.0000	OK
180 minute winter	S16	132	120.389	0.109	1.9	0.1567	0.0000	OK
180 minute winter	ACO	76	120.509	0.009	0.1	0.0013	0.0000	OK
180 minute winter	S17	132	120.227	0.037	1.9	0.0000	0.0000	OK
180 minute winter	Tank02	116	120.524	0.024	0.5	1.3544	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
180 minute winter	S01	1.000	S02	0.4	0.277	0.027	0.0220	
180 minute winter	S02	1.001	S03	0.8	0.447	0.054	0.0177	
180 minute winter	S03	1.002	S04	0.9	0.330	0.024	0.0222	
180 minute winter	S04	1.003	S05	1.4	0.403	0.039	0.0180	
180 minute winter	S05	1.004	S06	1.7	0.435	0.047	0.0802	
180 minute winter	S06	1.005	Tank01	2.5	0.892	0.052	0.0191	
180 minute winter	Tank01	1.006	S15	1.8	0.275	0.110	0.0126	
180 minute winter	S07	2.000a	Tank02	0.3	0.429	0.054	0.0018	
180 minute winter	S08	2.001	S09	0.9	0.457	0.056	0.0201	
180 minute winter	S09	2.002	S10	0.9	0.327	0.058	0.0517	
180 minute winter	S10	2.003	S11	1.2	0.349	0.079	0.0201	
180 minute winter	S11	2.004	Tank01	1.2	0.651	0.218	0.0094	
180 minute winter	S12	3.000	Tank01	0.5	0.591	0.018	0.0008	
180 minute winter	S14	4.000	Tank01	0.1	0.099	0.018	0.0094	
180 minute winter	S15	1.007	S16	1.8	0.123	0.040	0.0624	
180 minute winter	S16	1.008	S17	1.9	0.567	0.134	0.0460	21.6
180 minute winter	ACO	5.000	S16	0.1	0.312	0.015	0.0087	
180 minute winter	Tank02	2.000b	S08	0.3	-0.309	0.051	0.0018	

Results for 1 year 240 minute summer. 480 minute analysis at 4 minute timestep. Mass balance: 99.87%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
240 minute summer	S01	128	120.729	0.019	0.5	0.0123	0.0000	OK
240 minute summer	S02	128	120.632	0.027	1.0	0.0151	0.0000	OK
240 minute summer	S03	128	120.487	0.027	1.1	0.0097	0.0000	OK
240 minute summer	S04	124	120.455	0.035	1.7	0.0224	0.0000	OK
240 minute summer	S05	124	120.431	0.036	2.1	0.0183	0.0000	OK
240 minute summer	S06	160	120.384	0.059	3.0	0.0460	0.0000	OK
240 minute summer	Tank01	160	120.384	0.074	4.9	12.6066	0.0000	OK
240 minute summer	S07	140	120.524	0.022	0.3	0.0081	0.0000	OK
240 minute summer	S08	136	120.522	0.023	1.1	0.0211	0.0000	OK
240 minute summer	S09	140	120.443	0.023	0.8	0.0037	0.0000	OK
240 minute summer	S10	160	120.384	0.054	1.2	0.0234	0.0000	OK
240 minute summer	S11	156	120.384	0.073	1.2	0.0115	0.0000	OK
240 minute summer	S12	124	120.541	0.016	0.6	0.0111	0.0000	OK
240 minute summer	S14	160	120.384	0.073	0.2	0.0181	0.0000	OK
240 minute summer	S15	160	120.383	0.074	1.6	0.0210	0.0000	OK
240 minute summer	S16	160	120.383	0.103	1.8	0.1483	0.0000	OK
240 minute summer	ACO	112	120.509	0.009	0.1	0.0013	0.0000	OK
240 minute summer	S17	160	120.225	0.035	1.8	0.0000	0.0000	OK
240 minute summer	Tank02	140	120.523	0.023	0.6	1.2936	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
240 minute summer	S01	1.000	S02	0.5	0.296	0.034	0.0258	
240 minute summer	S02	1.001	S03	1.0	0.476	0.067	0.0208	
240 minute summer	S03	1.002	S04	1.1	0.348	0.030	0.0256	
240 minute summer	S04	1.003	S05	1.7	0.423	0.047	0.0207	
240 minute summer	S05	1.004	S06	2.1	0.439	0.057	0.0715	
240 minute summer	S06	1.005	Tank01	2.9	0.681	0.061	0.0170	
240 minute summer	Tank01	1.006	S15	1.6	0.277	0.102	0.0113	
240 minute summer	S07	2.000a	Tank02	0.3	0.414	0.054	0.0017	
240 minute summer	S08	2.001	S09	0.8	0.445	0.051	0.0187	
240 minute summer	S09	2.002	S10	0.8	0.330	0.052	0.0459	
240 minute summer	S10	2.003	S11	1.2	0.339	0.080	0.0180	
240 minute summer	S11	2.004	Tank01	1.2	0.476	0.219	0.0085	
240 minute summer	S12	3.000	Tank01	0.6	0.620	0.021	0.0010	
240 minute summer	S14	4.000	Tank01	0.2	0.072	0.032	0.0085	
240 minute summer	S15	1.007	S16	1.6	0.123	0.037	0.0574	
240 minute summer	S16	1.008	S17	1.8	0.554	0.123	0.0432	21.3
240 minute summer	ACO	5.000	S16	0.1	0.312	0.015	0.0061	
240 minute summer	Tank02	2.000b	S08	-0.3	-0.328	-0.063	0.0017	

Results for 1 year 240 minute winter. 480 minute analysis at 4 minute timestep. Mass balance: 99.88%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
240 minute winter	S01	128	120.727	0.017	0.4	0.0110	0.0000	OK
240 minute winter	S02	128	120.629	0.024	0.8	0.0135	0.0000	OK
240 minute winter	S03	128	120.484	0.024	0.9	0.0088	0.0000	OK
240 minute winter	S04	128	120.450	0.030	1.3	0.0195	0.0000	OK
240 minute winter	S05	128	120.427	0.032	1.6	0.0162	0.0000	OK
240 minute winter	S06	172	120.391	0.066	2.3	0.0522	0.0000	OK
240 minute winter	Tank01	172	120.391	0.081	3.8	13.9563	0.0000	OK
240 minute winter	S07	148	120.524	0.023	0.2	0.0082	0.0000	OK
240 minute winter	S08	140	120.523	0.024	0.8	0.0216	0.0000	OK
240 minute winter	S09	140	120.444	0.024	0.8	0.0038	0.0000	OK
240 minute winter	S10	172	120.392	0.062	1.1	0.0268	0.0000	OK
240 minute winter	S11	172	120.392	0.080	1.1	0.0128	0.0000	OK
240 minute winter	S12	112	120.538	0.013	0.4	0.0091	0.0000	OK
240 minute winter	S14	172	120.391	0.080	0.1	0.0200	0.0000	OK
240 minute winter	S15	172	120.391	0.082	1.8	0.0232	0.0000	OK
240 minute winter	S16	172	120.391	0.111	2.0	0.1596	0.0000	OK
240 minute winter	ACO	104	120.509	0.009	0.1	0.0013	0.0000	OK
240 minute winter	S17	172	120.228	0.038	2.0	0.0000	0.0000	OK
240 minute winter	Tank02	148	120.523	0.023	0.4	1.3220	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
240 minute winter	S01	1.000	S02	0.4	0.277	0.027	0.0220	
240 minute winter	S02	1.001	S03	0.8	0.447	0.054	0.0177	
240 minute winter	S03	1.002	S04	0.9	0.330	0.024	0.0215	
240 minute winter	S04	1.003	S05	1.3	0.393	0.036	0.0171	
240 minute winter	S05	1.004	S06	1.6	0.391	0.044	0.0824	
240 minute winter	S06	1.005	Tank01	2.3	0.791	0.047	0.0199	
240 minute winter	Tank01	1.006	S15	1.8	0.277	0.113	0.0130	
240 minute winter	S07	2.000a	Tank02	0.2	0.433	0.037	0.0017	
240 minute winter	S08	2.001	S09	0.8	0.451	0.053	0.0194	
240 minute winter	S09	2.002	S10	0.8	0.322	0.055	0.0529	
240 minute winter	S10	2.003	S11	1.1	0.318	0.071	0.0209	
240 minute winter	S11	2.004	Tank01	1.1	0.623	0.196	0.0097	
240 minute winter	S12	3.000	Tank01	0.4	0.555	0.014	0.0007	
240 minute winter	S14	4.000	Tank01	0.1	0.086	0.018	0.0097	
240 minute winter	S15	1.007	S16	1.8	0.123	0.041	0.0642	
240 minute winter	S16	1.008	S17	2.0	0.572	0.138	0.0469	24.5
240 minute winter	ACO	5.000	S16	0.1	0.312	0.015	0.0091	
240 minute winter	Tank02	2.000b	S08	0.2	-0.276	0.045	0.0018	

Results for 1 year 360 minute summer. 600 minute analysis at 8 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
360 minute summer	S01	184	120.727	0.017	0.4	0.0110	0.0000	OK
360 minute summer	S02	184	120.629	0.024	0.8	0.0133	0.0000	OK
360 minute summer	S03	184	120.484	0.024	0.9	0.0087	0.0000	OK
360 minute summer	S04	184	120.450	0.030	1.3	0.0192	0.0000	OK
360 minute summer	S05	184	120.427	0.031	1.6	0.0159	0.0000	OK
360 minute summer	S06	224	120.383	0.058	2.3	0.0456	0.0000	OK
360 minute summer	Tank01	224	120.383	0.073	3.7	12.5245	0.0000	OK
360 minute summer	S07	200	120.523	0.022	0.2	0.0078	0.0000	OK
360 minute summer	S08	200	120.522	0.023	0.8	0.0204	0.0000	OK
360 minute summer	S09	200	120.443	0.023	0.7	0.0036	0.0000	OK
360 minute summer	S10	224	120.383	0.053	1.0	0.0232	0.0000	OK
360 minute summer	S11	224	120.383	0.072	1.0	0.0115	0.0000	OK
360 minute summer	S12	184	120.538	0.013	0.4	0.0091	0.0000	OK
360 minute summer	S14	224	120.383	0.072	0.1	0.0179	0.0000	OK
360 minute summer	S15	224	120.383	0.074	1.6	0.0208	0.0000	OK
360 minute summer	S16	224	120.383	0.103	1.8	0.1476	0.0000	OK
360 minute summer	ACO	176	120.509	0.009	0.1	0.0013	0.0000	OK
360 minute summer	S17	224	120.225	0.035	1.8	0.0000	0.0000	OK
360 minute summer	Tank02	200	120.522	0.022	0.4	1.2431	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
360 minute summer	S01	1.000	S02	0.4	0.277	0.027	0.0217	
360 minute summer	S02	1.001	S03	0.8	0.443	0.052	0.0174	
360 minute summer	S03	1.002	S04	0.9	0.327	0.024	0.0210	
360 minute summer	S04	1.003	S05	1.3	0.390	0.035	0.0168	
360 minute summer	S05	1.004	S06	1.6	0.393	0.043	0.0695	
360 minute summer	S06	1.005	Tank01	2.2	0.560	0.046	0.0168	
360 minute summer	Tank01	1.006	S15	1.6	0.277	0.101	0.0112	
360 minute summer	S07	2.000a	Tank02	0.2	0.372	0.036	0.0016	
360 minute summer	S08	2.001	S09	0.7	0.437	0.048	0.0179	
360 minute summer	S09	2.002	S10	0.7	0.317	0.049	0.0447	
360 minute summer	S10	2.003	S11	1.0	0.303	0.066	0.0178	
360 minute summer	S11	2.004	Tank01	1.0	0.488	0.182	0.0084	
360 minute summer	S12	3.000	Tank01	0.4	0.555	0.014	0.0007	
360 minute summer	S14	4.000	Tank01	0.1	0.058	0.018	0.0084	
360 minute summer	S15	1.007	S16	1.6	0.123	0.037	0.0569	
360 minute summer	S16	1.008	S17	1.8	0.552	0.122	0.0429	23.9
360 minute summer	ACO	5.000	S16	0.1	0.312	0.015	0.0051	
360 minute summer	Tank02	2.000b	S08	0.2	-0.216	0.041	0.0016	

Results for 1 year 360 minute winter. 600 minute analysis at 8 minute timestep. Mass balance: 99.90%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
360 minute winter	S01	176	120.725	0.015	0.3	0.0096	0.0000	OK
360 minute winter	S02	184	120.626	0.021	0.6	0.0117	0.0000	OK
360 minute winter	S03	184	120.481	0.021	0.7	0.0078	0.0000	OK
360 minute winter	S04	184	120.447	0.027	1.0	0.0171	0.0000	OK
360 minute winter	S05	184	120.423	0.028	1.2	0.0141	0.0000	OK
360 minute winter	S06	240	120.389	0.064	1.7	0.0502	0.0000	OK
360 minute winter	Tank01	240	120.389	0.079	3.0	13.5245	0.0000	OK
360 minute winter	S07	192	120.522	0.021	0.2	0.0074	0.0000	OK
360 minute winter	S08	200	120.521	0.022	0.7	0.0200	0.0000	OK
360 minute winter	S09	200	120.442	0.022	0.7	0.0035	0.0000	OK
360 minute winter	S10	240	120.389	0.059	1.0	0.0257	0.0000	OK
360 minute winter	S11	240	120.389	0.078	1.0	0.0124	0.0000	OK
360 minute winter	S12	168	120.536	0.011	0.3	0.0079	0.0000	OK
360 minute winter	S14	240	120.389	0.078	0.1	0.0194	0.0000	OK
360 minute winter	S15	240	120.389	0.079	1.7	0.0225	0.0000	OK
360 minute winter	S16	240	120.388	0.108	1.9	0.1560	0.0000	OK
360 minute winter	ACO	168	120.509	0.009	0.1	0.0013	0.0000	OK
360 minute winter	S17	240	120.227	0.037	1.9	0.0000	0.0000	OK
360 minute winter	Tank02	200	120.521	0.021	0.3	1.2093	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
360 minute winter	S01	1.000	S02	0.3	0.255	0.020	0.0180	
360 minute winter	S02	1.001	S03	0.6	0.411	0.040	0.0144	
360 minute winter	S03	1.002	S04	0.7	0.310	0.019	0.0178	
360 minute winter	S04	1.003	S05	1.0	0.368	0.028	0.0141	
360 minute winter	S05	1.004	S06	1.2	0.369	0.033	0.0781	
360 minute winter	S06	1.005	Tank01	1.7	0.592	0.035	0.0189	
360 minute winter	Tank01	1.006	S15	1.7	0.273	0.107	0.0125	
360 minute winter	S07	2.000a	Tank02	0.2	0.379	0.036	0.0015	
360 minute winter	S08	2.001	S09	0.7	0.431	0.046	0.0174	
360 minute winter	S09	2.002	S10	0.7	0.307	0.047	0.0499	
360 minute winter	S10	2.003	S11	1.0	0.295	0.064	0.0200	
360 minute winter	S11	2.004	Tank01	1.0	0.483	0.176	0.0093	
360 minute winter	S12	3.000	Tank01	0.3	0.509	0.011	0.0006	
360 minute winter	S14	4.000	Tank01	0.1	0.052	0.018	0.0093	
360 minute winter	S15	1.007	S16	1.7	0.122	0.039	0.0620	
360 minute winter	S16	1.008	S17	1.9	0.566	0.133	0.0458	28.0
360 minute winter	ACO	5.000	S16	0.1	0.312	0.015	0.0075	
360 minute winter	Tank02	2.000b	S08	0.2	-0.217	0.034	0.0016	

Results for 1 year 480 minute summer. 720 minute analysis at 8 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
480 minute summer	S01	240	120.725	0.015	0.3	0.0096	0.0000	OK
480 minute summer	S02	248	120.626	0.021	0.6	0.0117	0.0000	OK
480 minute summer	S03	248	120.481	0.021	0.7	0.0078	0.0000	OK
480 minute summer	S04	248	120.448	0.028	1.1	0.0179	0.0000	OK
480 minute summer	S05	248	120.424	0.029	1.3	0.0146	0.0000	OK
480 minute summer	S06	288	120.382	0.057	1.9	0.0450	0.0000	OK
480 minute summer	Tank01	288	120.382	0.072	3.3	12.3969	0.0000	OK
480 minute summer	S07	256	120.522	0.021	0.2	0.0077	0.0000	OK
480 minute summer	S08	256	120.521	0.022	0.7	0.0202	0.0000	OK
480 minute summer	S09	256	120.442	0.022	0.7	0.0035	0.0000	OK
480 minute summer	S10	288	120.383	0.053	1.0	0.0228	0.0000	OK
480 minute summer	S11	288	120.382	0.071	1.0	0.0114	0.0000	OK
480 minute summer	S12	248	120.538	0.013	0.4	0.0091	0.0000	OK
480 minute summer	S14	288	120.382	0.071	0.1	0.0178	0.0000	OK
480 minute summer	S15	288	120.382	0.073	1.6	0.0206	0.0000	OK
480 minute summer	S16	288	120.382	0.102	1.8	0.1466	0.0000	OK
480 minute summer	ACO	240	120.509	0.009	0.1	0.0013	0.0000	OK
480 minute summer	S17	288	120.225	0.035	1.7	0.0000	0.0000	OK
480 minute summer	Tank02	264	120.522	0.022	0.3	1.2252	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
480 minute summer	S01	1.000	S02	0.3	0.255	0.020	0.0180	
480 minute summer	S02	1.001	S03	0.6	0.411	0.040	0.0144	
480 minute summer	S03	1.002	S04	0.7	0.310	0.019	0.0186	
480 minute summer	S04	1.003	S05	1.1	0.380	0.031	0.0150	
480 minute summer	S05	1.004	S06	1.3	0.374	0.036	0.0681	
480 minute summer	S06	1.005	Tank01	1.9	0.522	0.039	0.0166	
480 minute summer	Tank01	1.006	S15	1.6	0.276	0.098	0.0111	
480 minute summer	S07	2.000a	Tank02	0.2	0.313	0.036	0.0015	
480 minute summer	S08	2.001	S09	0.7	0.434	0.047	0.0176	
480 minute summer	S09	2.002	S10	0.7	0.304	0.048	0.0436	
480 minute summer	S10	2.003	S11	1.0	0.287	0.065	0.0175	
480 minute summer	S11	2.004	Tank01	1.0	0.504	0.178	0.0083	
480 minute summer	S12	3.000	Tank01	0.4	0.555	0.014	0.0007	
480 minute summer	S14	4.000	Tank01	0.1	0.048	0.018	0.0083	
480 minute summer	S15	1.007	S16	1.6	0.122	0.036	0.0563	
480 minute summer	S16	1.008	S17	1.7	0.551	0.121	0.0426	26.0
480 minute summer	ACO	5.000	S16	0.1	0.312	0.015	0.0047	
480 minute summer	Tank02	2.000b	S08	0.2	-0.182	0.037	0.0016	

Results for 1 year 480 minute winter. 720 minute analysis at 8 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
480 minute winter	S01	208	120.722	0.012	0.2	0.0080	0.0000	OK
480 minute winter	S02	208	120.622	0.017	0.4	0.0096	0.0000	OK
480 minute winter	S03	232	120.478	0.018	0.5	0.0067	0.0000	OK
480 minute winter	S04	240	120.444	0.024	0.8	0.0153	0.0000	OK
480 minute winter	S05	240	120.421	0.026	1.0	0.0129	0.0000	OK
480 minute winter	S06	304	120.383	0.058	1.4	0.0459	0.0000	OK
480 minute winter	Tank01	304	120.383	0.073	2.7	12.5772	0.0000	OK
480 minute winter	S07	264	120.520	0.019	0.1	0.0067	0.0000	OK
480 minute winter	S08	264	120.519	0.020	0.6	0.0182	0.0000	OK
480 minute winter	S09	264	120.440	0.020	0.6	0.0032	0.0000	OK
480 minute winter	S10	304	120.384	0.054	0.8	0.0233	0.0000	OK
480 minute winter	S11	304	120.383	0.072	0.8	0.0115	0.0000	OK
480 minute winter	S12	240	120.536	0.011	0.3	0.0079	0.0000	OK
480 minute winter	S14	304	120.383	0.072	0.1	0.0180	0.0000	OK
480 minute winter	S15	304	120.383	0.074	1.6	0.0209	0.0000	OK
480 minute winter	S16	304	120.383	0.103	1.8	0.1481	0.0000	OK
480 minute winter	ACO	240	120.509	0.009	0.1	0.0013	0.0000	OK
480 minute winter	S17	304	120.225	0.035	1.8	0.0000	0.0000	OK
480 minute winter	Tank02	264	120.519	0.019	0.2	1.0976	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
480 minute winter	S01	1.000	S02	0.2	0.226	0.014	0.0135	
480 minute winter	S02	1.001	S03	0.4	0.364	0.027	0.0109	
480 minute winter	S03	1.002	S04	0.5	0.286	0.014	0.0147	
480 minute winter	S04	1.003	S05	0.8	0.342	0.022	0.0121	
480 minute winter	S05	1.004	S06	1.0	0.340	0.027	0.0700	
480 minute winter	S06	1.005	Tank01	1.5	0.530	0.032	0.0169	
480 minute winter	Tank01	1.006	S15	1.6	0.275	0.098	0.0113	
480 minute winter	S07	2.000a	Tank02	0.1	0.361	0.018	0.0013	
480 minute winter	S08	2.001	S09	0.6	0.408	0.038	0.0152	
480 minute winter	S09	2.002	S10	0.6	0.300	0.039	0.0439	
480 minute winter	S10	2.003	S11	0.8	0.269	0.050	0.0179	
480 minute winter	S11	2.004	Tank01	0.8	0.502	0.138	0.0085	
480 minute winter	S12	3.000	Tank01	0.3	0.509	0.011	0.0006	
480 minute winter	S14	4.000	Tank01	0.1	0.046	0.018	0.0085	
480 minute winter	S15	1.007	S16	1.6	0.122	0.035	0.0572	
480 minute winter	S16	1.008	S17	1.8	0.553	0.123	0.0431	29.1
480 minute winter	ACO	5.000	S16	0.1	0.312	0.015	0.0051	
480 minute winter	Tank02	2.000b	S08	0.2	-0.170	0.030	0.0014	

Results for 1 year 600 minute summer. 840 minute analysis at 15 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
600 minute summer	S01	315	120.725	0.015	0.3	0.0096	0.0000	OK
600 minute summer	S02	315	120.626	0.021	0.6	0.0117	0.0000	OK
600 minute summer	S03	315	120.481	0.021	0.7	0.0078	0.0000	OK
600 minute summer	S04	315	120.447	0.027	1.0	0.0171	0.0000	OK
600 minute summer	S05	315	120.423	0.028	1.2	0.0141	0.0000	OK
600 minute summer	S06	360	120.379	0.054	1.7	0.0428	0.0000	OK
600 minute summer	Tank01	360	120.379	0.069	2.8	11.9042	0.0000	OK
600 minute summer	S07	330	120.519	0.018	0.1	0.0065	0.0000	OK
600 minute summer	S08	330	120.518	0.019	0.5	0.0173	0.0000	OK
600 minute summer	S09	330	120.439	0.019	0.5	0.0030	0.0000	OK
600 minute summer	S10	360	120.380	0.050	0.8	0.0216	0.0000	OK
600 minute summer	S11	360	120.380	0.069	0.8	0.0109	0.0000	OK
600 minute summer	S12	315	120.536	0.011	0.3	0.0079	0.0000	OK
600 minute summer	S14	360	120.379	0.068	0.1	0.0170	0.0000	OK
600 minute summer	S15	360	120.379	0.070	1.5	0.0198	0.0000	OK
600 minute summer	S16	360	120.379	0.099	1.7	0.1424	0.0000	OK
600 minute summer	ACO	300	120.509	0.009	0.1	0.0013	0.0000	OK
600 minute summer	S17	360	120.224	0.034	1.7	0.0000	0.0000	OK
600 minute summer	Tank02	330	120.519	0.019	0.2	1.0554	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
600 minute summer	S01	1.000	S02	0.3	0.255	0.020	0.0180	
600 minute summer	S02	1.001	S03	0.6	0.411	0.040	0.0144	
600 minute summer	S03	1.002	S04	0.7	0.310	0.019	0.0178	
600 minute summer	S04	1.003	S05	1.0	0.368	0.028	0.0141	
600 minute summer	S05	1.004	S06	1.2	0.369	0.033	0.0643	
600 minute summer	S06	1.005	Tank01	1.7	0.449	0.035	0.0156	
600 minute summer	Tank01	1.006	S15	1.5	0.275	0.091	0.0105	
600 minute summer	S07	2.000a	Tank02	0.1	0.275	0.018	0.0012	
600 minute summer	S08	2.001	S09	0.5	0.395	0.034	0.0141	
600 minute summer	S09	2.002	S10	0.5	0.289	0.035	0.0401	
600 minute summer	S10	2.003	S11	0.8	0.266	0.052	0.0164	
600 minute summer	S11	2.004	Tank01	0.8	0.485	0.143	0.0079	
600 minute summer	S12	3.000	Tank01	0.3	0.509	0.011	0.0006	
600 minute summer	S14	4.000	Tank01	0.1	0.046	0.018	0.0079	
600 minute summer	S15	1.007	S16	1.5	0.121	0.033	0.0538	
600 minute summer	S16	1.008	S17	1.7	0.543	0.115	0.0412	26.2
600 minute summer	ACO	5.000	S16	0.1	0.312	0.015	0.0036	
600 minute summer	Tank02	2.000b	S08	0.2	-0.150	0.028	0.0013	

Results for 1 year 600 minute winter. 840 minute analysis at 15 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
600 minute winter	S01	270	120.722	0.012	0.2	0.0080	0.0000	OK
600 minute winter	S02	270	120.622	0.017	0.4	0.0096	0.0000	OK
600 minute winter	S03	270	120.477	0.017	0.4	0.0060	0.0000	OK
600 minute winter	S04	270	120.441	0.021	0.6	0.0133	0.0000	OK
600 minute winter	S05	270	120.417	0.022	0.7	0.0109	0.0000	OK
600 minute winter	S06	375	120.380	0.055	1.1	0.0431	0.0000	OK
600 minute winter	Tank01	375	120.380	0.070	2.5	11.9383	0.0000	OK
600 minute winter	S07	345	120.519	0.018	0.1	0.0063	0.0000	OK
600 minute winter	S08	345	120.518	0.019	0.5	0.0169	0.0000	OK
600 minute winter	S09	345	120.439	0.019	0.5	0.0030	0.0000	OK
600 minute winter	S10	375	120.380	0.050	0.7	0.0217	0.0000	OK
600 minute winter	S11	375	120.380	0.069	0.7	0.0109	0.0000	OK
600 minute winter	S12	255	120.534	0.009	0.2	0.0066	0.0000	OK
600 minute winter	S14	375	120.380	0.069	0.1	0.0171	0.0000	OK
600 minute winter	S15	375	120.379	0.070	1.5	0.0199	0.0000	OK
600 minute winter	S16	375	120.379	0.099	1.7	0.1427	0.0000	OK
600 minute winter	ACO	15	120.500	0.000	0.0	0.0000	0.0000	OK
600 minute winter	S17	375	120.224	0.034	1.7	0.0000	0.0000	OK
600 minute winter	Tank02	345	120.518	0.018	0.2	1.0266	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
600 minute winter	S01	1.000	S02	0.2	0.226	0.014	0.0135	
600 minute winter	S02	1.001	S03	0.4	0.364	0.027	0.0109	
600 minute winter	S03	1.002	S04	0.4	0.259	0.011	0.0122	
600 minute winter	S04	1.003	S05	0.6	0.322	0.017	0.0097	
600 minute winter	S05	1.004	S06	0.7	0.327	0.019	0.0644	
600 minute winter	S06	1.005	Tank01	1.5	0.547	0.031	0.0157	
600 minute winter	Tank01	1.006	S15	1.5	0.277	0.092	0.0105	
600 minute winter	S07	2.000a	Tank02	0.1	0.309	0.018	0.0012	
600 minute winter	S08	2.001	S09	0.5	0.390	0.033	0.0137	
600 minute winter	S09	2.002	S10	0.5	0.296	0.033	0.0402	
600 minute winter	S10	2.003	S11	0.7	0.256	0.045	0.0165	
600 minute winter	S11	2.004	Tank01	0.7	0.445	0.125	0.0079	
600 minute winter	S12	3.000	Tank01	0.2	0.451	0.007	0.0004	
600 minute winter	S14	4.000	Tank01	0.1	0.036	0.019	0.0079	
600 minute winter	S15	1.007	S16	1.5	0.123	0.033	0.0540	
600 minute winter	S16	1.008	S17	1.7	0.544	0.116	0.0413	31.3
600 minute winter	ACO	5.000	S16	0.0	0.000	0.000	0.0036	
600 minute winter	Tank02	2.000b	S08	0.2	-0.161	0.028	0.0012	

Results for 1 year 720 minute summer. 960 minute analysis at 15 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
720 minute summer	S01	345	120.722	0.012	0.2	0.0080	0.0000	OK
720 minute summer	S02	345	120.622	0.017	0.4	0.0096	0.0000	OK
720 minute summer	S03	375	120.478	0.018	0.5	0.0067	0.0000	OK
720 minute summer	S04	375	120.444	0.024	0.8	0.0153	0.0000	OK
720 minute summer	S05	375	120.421	0.026	1.0	0.0129	0.0000	OK
720 minute summer	S06	420	120.376	0.051	1.4	0.0402	0.0000	OK
720 minute summer	Tank01	420	120.376	0.066	2.5	11.3405	0.0000	OK
720 minute summer	S07	390	120.519	0.018	0.1	0.0064	0.0000	OK
720 minute summer	S08	390	120.518	0.019	0.5	0.0172	0.0000	OK
720 minute summer	S09	390	120.439	0.019	0.5	0.0030	0.0000	OK
720 minute summer	S10	420	120.376	0.046	0.7	0.0202	0.0000	OK
720 minute summer	S11	420	120.376	0.065	0.7	0.0104	0.0000	OK
720 minute summer	S12	375	120.536	0.011	0.3	0.0079	0.0000	OK
720 minute summer	S14	420	120.376	0.065	0.1	0.0162	0.0000	OK
720 minute summer	S15	420	120.376	0.067	1.4	0.0189	0.0000	OK
720 minute summer	S16	420	120.376	0.096	1.6	0.1377	0.0000	OK
720 minute summer	ACO	375	120.509	0.009	0.1	0.0013	0.0000	OK
720 minute summer	S17	420	120.223	0.033	1.6	0.0000	0.0000	OK
720 minute summer	Tank02	390	120.519	0.019	0.2	1.0529	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
720 minute summer	S01	1.000	S02	0.2	0.226	0.014	0.0135	
720 minute summer	S02	1.001	S03	0.4	0.364	0.027	0.0109	
720 minute summer	S03	1.002	S04	0.5	0.270	0.014	0.0147	
720 minute summer	S04	1.003	S05	0.8	0.342	0.022	0.0121	
720 minute summer	S05	1.004	S06	1.0	0.350	0.027	0.0590	
720 minute summer	S06	1.005	Tank01	1.4	0.464	0.029	0.0144	
720 minute summer	Tank01	1.006	S15	1.4	0.277	0.088	0.0098	
720 minute summer	S07	2.000a	Tank02	0.1	0.286	0.018	0.0012	
720 minute summer	S08	2.001	S09	0.5	0.394	0.034	0.0141	
720 minute summer	S09	2.002	S10	0.5	0.287	0.035	0.0371	
720 minute summer	S10	2.003	S11	0.7	0.255	0.046	0.0152	
720 minute summer	S11	2.004	Tank01	0.7	0.485	0.128	0.0074	
720 minute summer	S12	3.000	Tank01	0.3	0.509	0.011	0.0006	
720 minute summer	S14	4.000	Tank01	0.1	0.039	0.018	0.0074	
720 minute summer	S15	1.007	S16	1.4	0.123	0.032	0.0511	
720 minute summer	S16	1.008	S17	1.6	0.535	0.109	0.0395	26.6
720 minute summer	ACO	5.000	S16	0.1	0.312	0.015	0.0034	
720 minute summer	Tank02	2.000b	S08	0.2	-0.153	0.028	0.0013	

Results for 1 year 720 minute winter. 960 minute analysis at 15 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
720 minute winter	S01	345	120.722	0.012	0.2	0.0080	0.0000	OK
720 minute winter	S02	345	120.622	0.017	0.4	0.0096	0.0000	OK
720 minute winter	S03	345	120.477	0.017	0.4	0.0060	0.0000	OK
720 minute winter	S04	345	120.441	0.021	0.6	0.0133	0.0000	OK
720 minute winter	S05	345	120.417	0.022	0.7	0.0109	0.0000	OK
720 minute winter	S06	420	120.377	0.052	1.0	0.0411	0.0000	OK
720 minute winter	Tank01	435	120.377	0.067	2.7	11.4788	0.0000	OK
720 minute winter	S07	390	120.518	0.017	0.1	0.0062	0.0000	OK
720 minute winter	S08	390	120.518	0.019	0.5	0.0168	0.0000	OK
720 minute winter	S09	390	120.439	0.019	0.5	0.0030	0.0000	OK
720 minute winter	S10	435	120.377	0.047	0.7	0.0205	0.0000	OK
720 minute winter	S11	435	120.377	0.066	0.7	0.0105	0.0000	OK
720 minute winter	S12	315	120.534	0.009	0.2	0.0066	0.0000	OK
720 minute winter	S14	435	120.377	0.066	0.1	0.0164	0.0000	OK
720 minute winter	S15	435	120.377	0.068	1.4	0.0191	0.0000	OK
720 minute winter	S16	435	120.376	0.096	1.6	0.1389	0.0000	OK
720 minute winter	ACO	15	120.500	0.000	0.0	0.0000	0.0000	OK
720 minute winter	S17	435	120.224	0.034	1.6	0.0000	0.0000	OK
720 minute winter	Tank02	390	120.518	0.018	0.1	1.0184	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
720 minute winter	S01	1.000	S02	0.2	0.226	0.014	0.0135	
720 minute winter	S02	1.001	S03	0.4	0.364	0.027	0.0109	
720 minute winter	S03	1.002	S04	0.4	0.259	0.011	0.0122	
720 minute winter	S04	1.003	S05	0.6	0.322	0.017	0.0097	
720 minute winter	S05	1.004	S06	0.7	0.318	0.019	0.0606	
720 minute winter	S06	1.005	Tank01	1.8	0.518	0.037	0.0147	
720 minute winter	Tank01	1.006	S15	1.4	0.272	0.088	0.0099	
720 minute winter	S07	2.000a	Tank02	0.1	0.275	0.018	0.0012	
720 minute winter	S08	2.001	S09	0.5	0.388	0.032	0.0136	
720 minute winter	S09	2.002	S10	0.5	0.310	0.033	0.0376	
720 minute winter	S10	2.003	S11	0.7	0.245	0.044	0.0155	
720 minute winter	S11	2.004	Tank01	0.7	0.472	0.123	0.0075	
720 minute winter	S12	3.000	Tank01	0.2	0.451	0.007	0.0004	
720 minute winter	S14	4.000	Tank01	0.1	0.026	0.018	0.0075	
720 minute winter	S15	1.007	S16	1.4	0.121	0.032	0.0517	
720 minute winter	S16	1.008	S17	1.6	0.537	0.110	0.0399	33.4
720 minute winter	ACO	5.000	S16	0.0	0.000	0.000	0.0026	
720 minute winter	Tank02	2.000b	S08	0.1	-0.150	0.027	0.0012	

Results for 1 year 960 minute summer. 1200 minute analysis at 15 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
960 minute summer	S01	480	120.722	0.012	0.2	0.0080	0.0000	OK
960 minute summer	S02	480	120.622	0.017	0.4	0.0096	0.0000	OK
960 minute summer	S03	480	120.477	0.017	0.4	0.0060	0.0000	OK
960 minute summer	S04	480	120.441	0.021	0.6	0.0133	0.0000	OK
960 minute summer	S05	480	120.417	0.022	0.7	0.0109	0.0000	OK
960 minute summer	S06	570	120.371	0.046	1.1	0.0361	0.0000	OK
960 minute summer	Tank01	555	120.368	0.058	2.7	10.0166	0.0000	OK
960 minute summer	S07	510	120.518	0.017	0.1	0.0062	0.0000	OK
960 minute summer	S08	510	120.518	0.019	0.5	0.0167	0.0000	OK
960 minute summer	S09	510	120.439	0.018	0.5	0.0029	0.0000	OK
960 minute summer	S10	555	120.369	0.039	0.7	0.0168	0.0000	OK
960 minute summer	S11	555	120.369	0.058	0.7	0.0091	0.0000	OK
960 minute summer	S12	465	120.534	0.009	0.2	0.0066	0.0000	OK
960 minute summer	S14	540	120.369	0.057	0.1	0.0143	0.0000	OK
960 minute summer	S15	555	120.368	0.059	1.2	0.0167	0.0000	OK
960 minute summer	S16	555	120.368	0.088	1.4	0.1266	0.0000	OK
960 minute summer	ACO	15	120.500	0.000	0.0	0.0000	0.0000	OK
960 minute summer	S17	555	120.221	0.031	1.4	0.0000	0.0000	OK
960 minute summer	Tank02	510	120.518	0.018	0.2	1.0076	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
960 minute summer	S01	1.000	S02	0.2	0.226	0.014	0.0135	
960 minute summer	S02	1.001	S03	0.4	0.364	0.027	0.0109	
960 minute summer	S03	1.002	S04	0.4	0.259	0.011	0.0122	
960 minute summer	S04	1.003	S05	0.6	0.322	0.017	0.0097	
960 minute summer	S05	1.004	S06	0.7	0.326	0.019	0.0501	
960 minute summer	S06	1.005	Tank01	1.7	0.464	0.036	0.0122	
960 minute summer	Tank01	1.006	S15	1.2	0.269	0.077	0.0082	
960 minute summer	S07	2.000a	Tank02	0.1	0.286	0.018	0.0011	
960 minute summer	S08	2.001	S09	0.5	0.386	0.032	0.0134	
960 minute summer	S09	2.002	S10	0.5	0.303	0.032	0.0303	
960 minute summer	S10	2.003	S11	0.7	0.255	0.044	0.0125	
960 minute summer	S11	2.004	Tank01	0.7	0.485	0.123	0.0063	
960 minute summer	S12	3.000	Tank01	0.2	0.451	0.007	0.0004	
960 minute summer	S14	4.000	Tank01	0.1	0.030	0.017	0.0063	
960 minute summer	S15	1.007	S16	1.2	0.122	0.028	0.0446	
960 minute summer	S16	1.008	S17	1.4	0.514	0.094	0.0357	26.1
960 minute summer	ACO	5.000	S16	0.0	0.000	0.000	0.0003	
960 minute summer	Tank02	2.000b	S08	0.1	-0.153	0.027	0.0012	

Results for 1 year 960 minute winter. 1200 minute analysis at 15 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
960 minute winter	S01	315	120.719	0.009	0.1	0.0058	0.0000	OK
960 minute winter	S02	315	120.617	0.012	0.2	0.0069	0.0000	OK
960 minute winter	S03	330	120.472	0.012	0.2	0.0044	0.0000	OK
960 minute winter	S04	465	120.437	0.017	0.4	0.0108	0.0000	OK
960 minute winter	S05	465	120.413	0.018	0.5	0.0093	0.0000	OK
960 minute winter	S06	600	120.369	0.044	0.9	0.0346	0.0000	OK
960 minute winter	Tank01	600	120.366	0.056	2.0	9.6194	0.0000	OK
960 minute winter	S07	555	120.517	0.016	0.1	0.0058	0.0000	OK
960 minute winter	S08	555	120.516	0.017	0.4	0.0153	0.0000	OK
960 minute winter	S09	555	120.437	0.017	0.4	0.0027	0.0000	OK
960 minute winter	S10	600	120.366	0.036	0.5	0.0158	0.0000	OK
960 minute winter	S11	600	120.366	0.055	0.5	0.0088	0.0000	OK
960 minute winter	S12	465	120.534	0.009	0.2	0.0066	0.0000	OK
960 minute winter	S14	585	120.366	0.055	0.0	0.0137	0.0000	OK
960 minute winter	S15	600	120.366	0.057	1.2	0.0160	0.0000	OK
960 minute winter	S16	600	120.366	0.086	1.3	0.1233	0.0000	OK
960 minute winter	ACO	15	120.500	0.000	0.0	0.0000	0.0000	OK
960 minute winter	S17	600	120.220	0.030	1.3	0.0000	0.0000	OK
960 minute winter	Tank02	555	120.517	0.017	0.1	0.9360	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
960 minute winter	S01	1.000	S02	0.1	0.184	0.007	0.0083	
960 minute winter	S02	1.001	S03	0.2	0.296	0.013	0.0067	
960 minute winter	S03	1.002	S04	0.2	0.212	0.005	0.0084	
960 minute winter	S04	1.003	S05	0.4	0.280	0.011	0.0074	
960 minute winter	S05	1.004	S06	0.5	0.302	0.014	0.0478	
960 minute winter	S06	1.005	Tank01	1.4	0.426	0.029	0.0115	
960 minute winter	Tank01	1.006	S15	1.2	0.275	0.074	0.0078	
960 minute winter	S07	2.000a	Tank02	0.1	0.214	0.018	0.0010	
960 minute winter	S08	2.001	S09	0.4	0.366	0.026	0.0118	
960 minute winter	S09	2.002	S10	0.4	0.319	0.027	0.0277	
960 minute winter	S10	2.003	S11	0.5	0.246	0.033	0.0117	
960 minute winter	S11	2.004	Tank01	0.5	0.485	0.091	0.0059	
960 minute winter	S12	3.000	Tank01	0.2	0.451	0.007	0.0004	
960 minute winter	S14	4.000	Tank01	0.0	0.012	0.007	0.0059	
960 minute winter	S15	1.007	S16	1.2	0.123	0.027	0.0428	
960 minute winter	S16	1.008	S17	1.3	0.507	0.090	0.0346	32.6
960 minute winter	ACO	5.000	S16	0.0	0.000	0.000	0.0000	
960 minute winter	Tank02	2.000b	S08	0.1	0.139	0.025	0.0011	

Results for 1 year 1440 minute summer. 1680 minute analysis at 30 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
1440 minute summer	S01	600	120.719	0.009	0.1	0.0058	0.0000	OK
1440 minute summer	S02	600	120.617	0.012	0.2	0.0069	0.0000	OK
1440 minute summer	S03	600	120.472	0.012	0.2	0.0044	0.0000	OK
1440 minute summer	S04	750	120.437	0.017	0.4	0.0108	0.0000	OK
1440 minute summer	S05	750	120.413	0.018	0.5	0.0093	0.0000	OK
1440 minute summer	S06	810	120.365	0.040	0.8	0.0311	0.0000	OK
1440 minute summer	Tank01	840	120.362	0.052	1.9	8.9130	0.0000	OK
1440 minute summer	S07	780	120.517	0.016	0.1	0.0057	0.0000	OK
1440 minute summer	S08	780	120.516	0.017	0.4	0.0152	0.0000	OK
1440 minute summer	S09	780	120.437	0.017	0.4	0.0027	0.0000	OK
1440 minute summer	S10	810	120.362	0.032	0.5	0.0140	0.0000	OK
1440 minute summer	S11	840	120.362	0.051	0.5	0.0081	0.0000	OK
1440 minute summer	S12	750	120.534	0.009	0.2	0.0066	0.0000	OK
1440 minute summer	S14	840	120.362	0.051	0.0	0.0127	0.0000	OK
1440 minute summer	S15	840	120.361	0.052	1.1	0.0148	0.0000	OK
1440 minute summer	S16	810	120.361	0.081	1.2	0.1171	0.0000	OK
1440 minute summer	ACO	30	120.500	0.000	0.0	0.0000	0.0000	OK
1440 minute summer	S17	810	120.219	0.029	1.2	0.0000	0.0000	OK
1440 minute summer	Tank02	780	120.516	0.016	0.2	0.9278	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
1440 minute summer	S01	1.000	S02	0.1	0.184	0.007	0.0083	
1440 minute summer	S02	1.001	S03	0.2	0.296	0.013	0.0067	
1440 minute summer	S03	1.002	S04	0.2	0.212	0.005	0.0084	
1440 minute summer	S04	1.003	S05	0.4	0.280	0.011	0.0074	
1440 minute summer	S05	1.004	S06	0.5	0.300	0.014	0.0422	
1440 minute summer	S06	1.005	Tank01	1.2	0.478	0.026	0.0101	
1440 minute summer	Tank01	1.006	S15	1.1	0.275	0.068	0.0070	
1440 minute summer	S07	2.000a	Tank02	0.1	0.233	0.018	0.0010	
1440 minute summer	S08	2.001	S09	0.4	0.364	0.026	0.0117	
1440 minute summer	S09	2.002	S10	0.4	0.309	0.027	0.0239	
1440 minute summer	S10	2.003	S11	0.5	0.258	0.032	0.0102	
1440 minute summer	S11	2.004	Tank01	0.5	0.479	0.088	0.0054	
1440 minute summer	S12	3.000	Tank01	0.2	0.451	0.007	0.0004	
1440 minute summer	S14	4.000	Tank01	0.0	-0.009	0.006	0.0053	
1440 minute summer	S15	1.007	S16	1.1	0.123	0.025	0.0392	
1440 minute summer	S16	1.008	S17	1.2	0.494	0.082	0.0323	27.3
1440 minute summer	ACO	5.000	S16	0.0	0.000	0.000	0.0000	
1440 minute summer	Tank02	2.000b	S08	0.1	-0.150	0.024	0.0011	

Results for 1 year 1440 minute winter. 1680 minute analysis at 30 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
1440 minute winter	S01	540	120.719	0.009	0.1	0.0058	0.0000	OK
1440 minute winter	S02	540	120.617	0.012	0.2	0.0069	0.0000	OK
1440 minute winter	S03	540	120.472	0.012	0.2	0.0044	0.0000	OK
1440 minute winter	S04	540	120.435	0.015	0.3	0.0096	0.0000	OK
1440 minute winter	S05	600	120.412	0.017	0.4	0.0085	0.0000	OK
1440 minute winter	S06	870	120.362	0.037	0.7	0.0291	0.0000	OK
1440 minute winter	Tank01	840	120.361	0.051	1.9	8.6953	0.0000	OK
1440 minute winter	S07	840	120.516	0.015	0.1	0.0053	0.0000	OK
1440 minute winter	S08	840	120.514	0.015	0.3	0.0133	0.0000	OK
1440 minute winter	S09	840	120.435	0.015	0.3	0.0024	0.0000	OK
1440 minute winter	S10	840	120.361	0.031	0.4	0.0134	0.0000	OK
1440 minute winter	S11	840	120.361	0.050	0.4	0.0079	0.0000	OK
1440 minute winter	S12	510	120.532	0.007	0.1	0.0047	0.0000	OK
1440 minute winter	S14	840	120.361	0.050	0.0	0.0124	0.0000	OK
1440 minute winter	S15	840	120.360	0.051	1.1	0.0145	0.0000	OK
1440 minute winter	S16	840	120.360	0.080	1.2	0.1151	0.0000	OK
1440 minute winter	ACO	30	120.500	0.000	0.0	0.0000	0.0000	OK
1440 minute winter	S17	840	120.219	0.029	1.2	0.0000	0.0000	OK
1440 minute winter	Tank02	840	120.515	0.015	0.1	0.8345	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
1440 minute winter	S01	1.000	S02	0.1	0.184	0.007	0.0083	
1440 minute winter	S02	1.001	S03	0.2	0.296	0.013	0.0067	
1440 minute winter	S03	1.002	S04	0.2	0.212	0.005	0.0075	
1440 minute winter	S04	1.003	S05	0.3	0.274	0.008	0.0063	
1440 minute winter	S05	1.004	S06	0.4	0.308	0.011	0.0393	
1440 minute winter	S06	1.005	Tank01	1.4	0.468	0.029	0.0095	
1440 minute winter	Tank01	1.006	S15	1.1	0.263	0.066	0.0067	
1440 minute winter	S07	2.000a	Tank02	0.1	0.179	0.018	0.0009	
1440 minute winter	S08	2.001	S09	0.3	0.336	0.020	0.0096	
1440 minute winter	S09	2.002	S10	0.3	0.277	0.020	0.0225	
1440 minute winter	S10	2.003	S11	0.4	0.232	0.027	0.0098	
1440 minute winter	S11	2.004	Tank01	0.4	0.479	0.074	0.0052	
1440 minute winter	S12	3.000	Tank01	0.1	0.370	0.004	0.0003	
1440 minute winter	S14	4.000	Tank01	0.0	0.007	-0.006	0.0052	
1440 minute winter	S15	1.007	S16	1.1	0.120	0.024	0.0382	
1440 minute winter	S16	1.008	S17	1.2	0.490	0.080	0.0317	35.1
1440 minute winter	ACO	5.000	S16	0.0	0.000	0.000	0.0000	
1440 minute winter	Tank02	2.000b	S08	0.1	-0.144	0.018	0.0009	

Results for 30 year 15 minute summer. 255 minute analysis at 1 minute timestep. Mass balance: 99.83%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	S01	10	120.761	0.051	3.8	0.0334	0.0000	OK
15 minute summer	S02	10	120.685	0.080	7.6	0.0447	0.0000	OK
15 minute summer	S03	11	120.543	0.083	8.3	0.0301	0.0000	OK
15 minute summer	S04	11	120.528	0.108	12.6	0.0694	0.0000	OK
15 minute summer	S05	11	120.504	0.109	15.3	0.0549	0.0000	OK
15 minute summer	S06	11	120.431	0.106	22.0	0.0834	0.0000	OK
15 minute summer	Tank01	20	120.407	0.097	42.1	16.5541	0.0000	OK
15 minute summer	S07	10	120.553	0.052	2.2	0.0188	0.0000	OK
15 minute summer	S08	10	120.555	0.056	8.1	0.0503	0.0000	OK
15 minute summer	S09	10	120.474	0.054	4.1	0.0086	0.0000	OK
15 minute summer	S10	10	120.431	0.101	7.9	0.0440	0.0000	OK
15 minute summer	S11	10	120.415	0.104	7.9	0.0166	0.0000	OK
15 minute summer	S12	10	120.570	0.045	4.4	0.0313	0.0000	OK
15 minute summer	S14	20	120.407	0.096	1.3	0.0238	0.0000	OK
15 minute summer	S15	20	120.406	0.097	5.2	0.0275	0.0000	OK
15 minute summer	S16	20	120.406	0.126	7.2	0.1812	0.0000	OK
15 minute summer	ACO	11	120.525	0.025	0.9	0.0038	0.0000	OK
15 minute summer	S17	20	120.231	0.041	2.4	0.0000	0.0000	OK
15 minute summer	Tank02	15	120.539	0.039	6.6	2.2004	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	S01	1.000	S02	3.8	0.509	0.254	0.1120	
15 minute summer	S02	1.001	S03	7.4	0.816	0.496	0.0898	
15 minute summer	S03	1.002	S04	8.3	0.519	0.225	0.1260	
15 minute summer	S04	1.003	S05	12.6	0.667	0.350	0.0978	
15 minute summer	S05	1.004	S06	15.4	0.825	0.423	0.2634	
15 minute summer	S06	1.005	Tank01	22.1	2.103	0.459	0.0256	
15 minute summer	Tank01	1.006	S15	-5.1	-0.956	-0.315	0.0163	
15 minute summer	S07	2.000a	Tank02	2.7	0.914	0.494	0.0036	
15 minute summer	S08	2.001	S09	4.1	0.710	0.273	0.0630	
15 minute summer	S09	2.002	S10	4.1	0.449	0.278	0.1178	
15 minute summer	S10	2.003	S11	7.9	0.640	0.514	0.0327	
15 minute summer	S11	2.004	Tank01	10.2	1.113	1.855	0.0119	
15 minute summer	S12	3.000	Tank01	4.4	1.072	0.155	0.0041	
15 minute summer	S14	4.000	Tank01	1.2	0.608	0.210	0.0119	
15 minute summer	S15	1.007	S16	-5.2	-0.391	-0.116	0.0773	
15 minute summer	S16	1.008	S17	2.4	0.601	0.165	0.0534	17.6
15 minute summer	ACO	5.000	S16	0.9	0.594	0.133	0.0176	
15 minute summer	Tank02	2.000b	S08	-4.0	-1.189	-0.721	0.0040	

Results for 30 year 15 minute winter. 255 minute analysis at 1 minute timestep. Mass balance: 99.84%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	S01	10	120.763	0.053	4.0	0.0342	0.0000	OK
15 minute winter	S02	10	120.687	0.082	7.9	0.0459	0.0000	OK
15 minute winter	S03	10	120.545	0.085	8.7	0.0310	0.0000	OK
15 minute winter	S04	11	120.531	0.111	13.2	0.0711	0.0000	OK
15 minute winter	S05	11	120.506	0.111	16.0	0.0563	0.0000	OK
15 minute winter	S06	11	120.434	0.109	22.9	0.0853	0.0000	OK
15 minute winter	Tank01	20	120.419	0.109	45.8	18.7099	0.0000	OK
15 minute winter	S07	10	120.553	0.052	2.3	0.0186	0.0000	OK
15 minute winter	S08	10	120.556	0.057	8.6	0.0516	0.0000	OK
15 minute winter	S09	10	120.475	0.055	4.3	0.0087	0.0000	OK
15 minute winter	S10	10	120.433	0.103	8.3	0.0449	0.0000	OK
15 minute winter	S11	20	120.419	0.108	8.2	0.0172	0.0000	OK
15 minute winter	S12	10	120.571	0.046	4.6	0.0320	0.0000	OK
15 minute winter	S14	20	120.419	0.108	1.3	0.0269	0.0000	OK
15 minute winter	S15	20	120.419	0.110	5.4	0.0311	0.0000	OK
15 minute winter	S16	20	120.418	0.138	7.6	0.1993	0.0000	OK
15 minute winter	ACO	10	120.526	0.026	1.0	0.0040	0.0000	OK
15 minute winter	S17	20	120.234	0.044	2.7	0.0000	0.0000	OK
15 minute winter	Tank02	15	120.544	0.044	6.0	2.4813	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute winter	S01	1.000	S02	3.9	0.515	0.267	0.1158	
15 minute winter	S02	1.001	S03	7.7	0.824	0.517	0.0928	
15 minute winter	S03	1.002	S04	8.6	0.522	0.234	0.1304	
15 minute winter	S04	1.003	S05	13.1	0.671	0.364	0.1009	
15 minute winter	S05	1.004	S06	16.1	0.834	0.441	0.2715	
15 minute winter	S06	1.005	Tank01	23.0	2.084	0.478	0.0304	
15 minute winter	Tank01	1.006	S15	-5.3	-0.939	-0.328	0.0191	
15 minute winter	S07	2.000a	Tank02	2.2	0.878	0.396	0.0042	
15 minute winter	S08	2.001	S09	4.3	0.718	0.285	0.0649	
15 minute winter	S09	2.002	S10	4.3	0.457	0.289	0.1207	
15 minute winter	S10	2.003	S11	8.2	0.683	0.536	0.0328	
15 minute winter	S11	2.004	Tank01	12.2	1.372	2.224	0.0137	
15 minute winter	S12	3.000	Tank01	4.6	1.084	0.162	0.0042	
15 minute winter	S14	4.000	Tank01	1.2	0.663	0.225	0.0137	
15 minute winter	S15	1.007	S16	-5.4	-0.391	-0.122	0.0884	
15 minute winter	S16	1.008	S17	2.7	0.621	0.186	0.0581	19.9
15 minute winter	ACO	5.000	S16	1.0	0.604	0.144	0.0243	
15 minute winter	Tank02	2.000b	S08	-4.2	-1.177	-0.775	0.0043	

Results for 30 year 30 minute summer. 270 minute analysis at 1 minute timestep. Mass balance: 99.85%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
30 minute summer	S01	18	120.759	0.049	3.4	0.0317	0.0000	OK
30 minute summer	S02	18	120.680	0.075	6.8	0.0423	0.0000	OK
30 minute summer	S03	18	120.538	0.078	7.7	0.0285	0.0000	OK
30 minute summer	S04	18	120.523	0.103	11.7	0.0662	0.0000	OK
30 minute summer	S05	18	120.499	0.104	14.3	0.0525	0.0000	OK
30 minute summer	S06	34	120.436	0.111	20.5	0.0871	0.0000	OK
30 minute summer	Tank01	34	120.436	0.126	37.8	21.5826	0.0000	OK
30 minute summer	S07	18	120.549	0.048	2.0	0.0173	0.0000	OK
30 minute summer	S08	18	120.553	0.053	7.5	0.0482	0.0000	OK
30 minute summer	S09	18	120.472	0.052	3.8	0.0082	0.0000	OK
30 minute summer	S10	33	120.437	0.106	7.2	0.0463	0.0000	OK
30 minute summer	S11	33	120.436	0.125	7.4	0.0199	0.0000	OK
30 minute summer	S12	18	120.568	0.043	4.0	0.0298	0.0000	OK
30 minute summer	S14	33	120.436	0.125	1.1	0.0311	0.0000	OK
30 minute summer	S15	33	120.436	0.127	4.5	0.0358	0.0000	OK
30 minute summer	S16	33	120.435	0.155	6.6	0.2237	0.0000	SURCHARGED
30 minute summer	ACO	18	120.525	0.025	0.9	0.0038	0.0000	OK
30 minute summer	S17	34	120.237	0.047	3.1	0.0000	0.0000	OK
30 minute summer	Tank02	23	120.546	0.046	5.5	2.5907	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
30 minute summer	S01	1.000	S02	3.4	0.496	0.230	0.1044	
30 minute summer	S02	1.001	S03	6.8	0.799	0.455	0.0840	
30 minute summer	S03	1.002	S04	7.7	0.513	0.208	0.1179	
30 minute summer	S04	1.003	S05	11.7	0.655	0.324	0.0922	
30 minute summer	S05	1.004	S06	14.2	0.806	0.390	0.2489	
30 minute summer	S06	1.005	Tank01	20.5	1.706	0.426	0.0370	
30 minute summer	Tank01	1.006	S15	-4.3	-0.647	-0.267	0.0229	
30 minute summer	S07	2.000a	Tank02	2.0	0.763	0.368	0.0045	
30 minute summer	S08	2.001	S09	3.8	0.695	0.252	0.0595	
30 minute summer	S09	2.002	S10	3.8	0.458	0.258	0.1097	
30 minute summer	S10	2.003	S11	7.4	0.686	0.480	0.0370	
30 minute summer	S11	2.004	Tank01	9.2	1.119	1.688	0.0157	
30 minute summer	S12	3.000	Tank01	4.0	1.047	0.142	0.0038	
30 minute summer	S14	4.000	Tank01	0.9	0.476	0.164	0.0157	
30 minute summer	S15	1.007	S16	-4.5	-0.339	-0.101	0.1030	
30 minute summer	S16	1.008	S17	3.1	0.642	0.211	0.0637	24.0
30 minute summer	ACO	5.000	S16	0.9	0.588	0.133	0.0331	
30 minute summer	Tank02	2.000b	S08	-3.7	-1.030	-0.670	0.0045	

Results for 30 year 30 minute winter. 270 minute analysis at 1 minute timestep. Mass balance: 99.84%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
30 minute winter	S01	18	120.757	0.047	3.1	0.0302	0.0000	OK
30 minute winter	S02	18	120.676	0.071	6.2	0.0400	0.0000	OK
30 minute winter	S03	18	120.533	0.073	7.0	0.0267	0.0000	OK
30 minute winter	S04	18	120.517	0.097	10.6	0.0622	0.0000	OK
30 minute winter	S05	18	120.493	0.098	12.9	0.0494	0.0000	OK
30 minute winter	S06	33	120.453	0.128	18.5	0.1004	0.0000	OK
30 minute winter	Tank01	33	120.453	0.143	34.5	24.4957	0.0000	OK
30 minute winter	S07	23	120.551	0.050	1.8	0.0178	0.0000	OK
30 minute winter	S08	20	120.551	0.051	6.7	0.0464	0.0000	OK
30 minute winter	S09	20	120.470	0.050	3.6	0.0079	0.0000	OK
30 minute winter	S10	33	120.454	0.123	6.6	0.0537	0.0000	OK
30 minute winter	S11	33	120.453	0.142	6.6	0.0226	0.0000	OK
30 minute winter	S12	18	120.565	0.040	3.6	0.0281	0.0000	OK
30 minute winter	S14	33	120.453	0.142	1.0	0.0353	0.0000	OK
30 minute winter	S15	33	120.453	0.144	3.9	0.0407	0.0000	OK
30 minute winter	S16	33	120.452	0.172	6.0	0.2482	0.0000	SURCHARGED
30 minute winter	ACO	18	120.523	0.023	0.8	0.0035	0.0000	OK
30 minute winter	S17	33	120.238	0.048	3.2	0.0000	0.0000	OK
30 minute winter	Tank02	24	120.550	0.050	5.0	2.8439	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
30 minute winter	S01	1.000	S02	3.1	0.485	0.210	0.0974	
30 minute winter	S02	1.001	S03	6.2	0.781	0.415	0.0784	
30 minute winter	S03	1.002	S04	7.0	0.508	0.189	0.1083	
30 minute winter	S04	1.003	S05	10.6	0.643	0.294	0.0851	
30 minute winter	S05	1.004	S06	12.8	0.786	0.353	0.2324	
30 minute winter	S06	1.005	Tank01	18.5	1.643	0.385	0.0436	
30 minute winter	Tank01	1.006	S15	-3.7	-0.598	-0.232	0.0267	
30 minute winter	S07	2.000a	Tank02	2.0	0.815	0.361	0.0051	
30 minute winter	S08	2.001	S09	3.6	0.684	0.235	0.0562	
30 minute winter	S09	2.002	S10	3.5	0.461	0.237	0.1241	
30 minute winter	S10	2.003	S11	6.6	0.645	0.429	0.0417	
30 minute winter	S11	2.004	Tank01	8.5	1.141	1.555	0.0173	
30 minute winter	S12	3.000	Tank01	3.6	1.018	0.128	0.0035	
30 minute winter	S14	4.000	Tank01	0.8	0.541	0.151	0.0173	
30 minute winter	S15	1.007	S16	-3.9	-0.303	-0.087	0.1171	
30 minute winter	S16	1.008	S17	3.2	0.649	0.219	0.0656	27.0
30 minute winter	ACO	5.000	S16	0.8	0.568	0.119	0.0405	
30 minute winter	Tank02	2.000b	S08	-3.2	-0.936	-0.588	0.0052	

Results for 30 year 60 minute summer. 300 minute analysis at 1 minute timestep. Mass balance: 99.86%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute summer	S01	33	120.753	0.042	2.6	0.0276	0.0000	OK
60 minute summer	S02	33	120.669	0.064	5.2	0.0361	0.0000	OK
60 minute summer	S03	33	120.526	0.066	5.9	0.0238	0.0000	OK
60 minute summer	S04	33	120.508	0.088	9.0	0.0564	0.0000	OK
60 minute summer	S05	33	120.484	0.089	11.0	0.0452	0.0000	OK
60 minute summer	S06	62	120.462	0.137	15.8	0.1080	0.0000	OK
60 minute summer	Tank01	62	120.462	0.152	27.4	26.1314	0.0000	OK
60 minute summer	S07	39	120.550	0.049	1.5	0.0175	0.0000	OK
60 minute summer	S08	38	120.549	0.050	5.7	0.0448	0.0000	OK
60 minute summer	S09	38	120.468	0.048	3.3	0.0077	0.0000	OK
60 minute summer	S10	62	120.463	0.133	5.7	0.0577	0.0000	OK
60 minute summer	S11	62	120.463	0.152	5.6	0.0241	0.0000	SURCHARGED
60 minute summer	S12	33	120.562	0.037	3.1	0.0259	0.0000	OK
60 minute summer	S14	62	120.462	0.151	0.9	0.0377	0.0000	SURCHARGED
60 minute summer	S15	62	120.462	0.153	3.2	0.0434	0.0000	OK
60 minute summer	S16	62	120.462	0.182	5.1	0.2621	0.0000	SURCHARGED
60 minute summer	ACO	33	120.522	0.022	0.7	0.0033	0.0000	OK
60 minute summer	S17	62	120.238	0.048	3.2	0.0000	0.0000	OK
60 minute summer	Tank02	39	120.549	0.049	4.1	2.7894	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
60 minute summer	S01	1.000	S02	2.6	0.464	0.176	0.0854	
60 minute summer	S02	1.001	S03	5.2	0.747	0.348	0.0687	
60 minute summer	S03	1.002	S04	5.9	0.494	0.160	0.0941	
60 minute summer	S04	1.003	S05	9.0	0.619	0.250	0.0751	
60 minute summer	S05	1.004	S06	11.0	0.736	0.301	0.2491	
60 minute summer	S06	1.005	Tank01	15.5	1.393	0.323	0.0473	
60 minute summer	Tank01	1.006	S15	3.2	-0.294	0.196	0.0287	
60 minute summer	S07	2.000a	Tank02	1.4	0.672	0.265	0.0050	
60 minute summer	S08	2.001	S09	3.3	0.671	0.221	0.0539	
60 minute summer	S09	2.002	S10	3.3	0.438	0.225	0.1329	
60 minute summer	S10	2.003	S11	5.6	0.627	0.367	0.0434	
60 minute summer	S11	2.004	Tank01	5.5	0.769	1.002	0.0176	
60 minute summer	S12	3.000	Tank01	3.1	0.979	0.110	0.0032	
60 minute summer	S14	4.000	Tank01	0.7	0.462	0.136	0.0176	
60 minute summer	S15	1.007	S16	3.2	-0.208	0.071	0.1247	
60 minute summer	S16	1.008	S17	3.2	0.651	0.221	0.0661	31.3
60 minute summer	ACO	5.000	S16	0.7	0.529	0.103	0.0433	
60 minute summer	Tank02	2.000b	S08	-2.6	-0.741	-0.476	0.0050	

Results for 30 year 60 minute winter. 300 minute analysis at 1 minute timestep. Mass balance: 99.85%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute winter	S01	34	120.748	0.038	2.1	0.0247	0.0000	OK
60 minute winter	S02	34	120.662	0.057	4.2	0.0320	0.0000	OK
60 minute winter	S03	34	120.517	0.057	4.7	0.0207	0.0000	OK
60 minute winter	S04	33	120.497	0.077	7.2	0.0494	0.0000	OK
60 minute winter	S05	62	120.485	0.090	8.8	0.0453	0.0000	OK
60 minute winter	S06	61	120.484	0.159	12.7	0.1252	0.0000	OK
60 minute winter	Tank01	61	120.484	0.174	21.6	29.8958	0.0000	OK
60 minute winter	S07	40	120.552	0.051	1.2	0.0183	0.0000	OK
60 minute winter	S08	40	120.551	0.052	4.6	0.0469	0.0000	OK
60 minute winter	S09	61	120.485	0.065	3.6	0.0104	0.0000	OK
60 minute winter	S10	61	120.485	0.155	5.2	0.0674	0.0000	SURCHARGED
60 minute winter	S11	61	120.485	0.174	5.0	0.0276	0.0000	SURCHARGED
60 minute winter	S12	33	120.558	0.033	2.5	0.0231	0.0000	OK
60 minute winter	S14	61	120.484	0.173	0.7	0.0432	0.0000	SURCHARGED
60 minute winter	S15	61	120.484	0.175	3.2	0.0496	0.0000	OK
60 minute winter	S16	61	120.484	0.204	4.0	0.2937	0.0000	SURCHARGED
60 minute winter	ACO	30	120.519	0.019	0.5	0.0028	0.0000	OK
60 minute winter	S17	61	120.238	0.048	3.3	0.0000	0.0000	OK
60 minute winter	Tank02	40	120.552	0.051	3.1	2.9193	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
60 minute winter	S01	1.000	S02	2.1	0.439	0.142	0.0729	
60 minute winter	S02	1.001	S03	4.2	0.708	0.282	0.0587	
60 minute winter	S03	1.002	S04	4.7	0.481	0.127	0.0779	
60 minute winter	S04	1.003	S05	7.2	0.607	0.200	0.0626	
60 minute winter	S05	1.004	S06	8.8	0.666	0.242	0.3157	
60 minute winter	S06	1.005	Tank01	12.5	1.468	0.260	0.0552	
60 minute winter	Tank01	1.006	S15	3.2	-0.339	0.200	0.0331	
60 minute winter	S07	2.000a	Tank02	1.2	0.666	0.213	0.0053	
60 minute winter	S08	2.001	S09	3.6	0.686	0.241	0.0574	
60 minute winter	S09	2.002	S10	3.6	0.412	0.246	0.1604	
60 minute winter	S10	2.003	S11	5.0	0.570	0.326	0.0448	
60 minute winter	S11	2.004	Tank01	4.9	0.861	0.893	0.0176	
60 minute winter	S12	3.000	Tank01	2.5	0.925	0.089	0.0027	
60 minute winter	S14	4.000	Tank01	0.6	0.455	0.106	0.0176	
60 minute winter	S15	1.007	S16	3.2	-0.161	0.073	0.1401	
60 minute winter	S16	1.008	S17	3.3	0.654	0.225	0.0669	34.9
60 minute winter	ACO	5.000	S16	0.5	0.502	0.074	0.0448	
60 minute winter	Tank02	2.000b	S08	-1.9	-0.656	-0.346	0.0054	

Results for 30 year 120 minute summer. 360 minute analysis at 2 minute timestep. Mass balance: 99.87%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
120 minute summer	S01	64	120.744	0.034	1.7	0.0222	0.0000	OK
120 minute summer	S02	64	120.656	0.051	3.4	0.0285	0.0000	OK
120 minute summer	S03	64	120.510	0.050	3.8	0.0182	0.0000	OK
120 minute summer	S04	64	120.487	0.067	5.8	0.0433	0.0000	OK
120 minute summer	S05	102	120.479	0.084	7.1	0.0424	0.0000	OK
120 minute summer	S06	100	120.479	0.154	10.3	0.1208	0.0000	OK
120 minute summer	Tank01	100	120.479	0.169	17.2	28.9291	0.0000	OK
120 minute summer	S07	70	120.548	0.047	1.0	0.0169	0.0000	OK
120 minute summer	S08	70	120.547	0.048	3.7	0.0432	0.0000	OK
120 minute summer	S09	100	120.479	0.059	3.1	0.0094	0.0000	OK
120 minute summer	S10	100	120.479	0.149	4.5	0.0648	0.0000	OK
120 minute summer	S11	100	120.479	0.168	4.3	0.0267	0.0000	SURCHARGED
120 minute summer	S12	64	120.555	0.029	2.0	0.0206	0.0000	OK
120 minute summer	S14	100	120.479	0.168	0.6	0.0418	0.0000	SURCHARGED
120 minute summer	S15	100	120.479	0.170	3.2	0.0480	0.0000	OK
120 minute summer	S16	100	120.478	0.198	3.3	0.2857	0.0000	SURCHARGED
120 minute summer	ACO	66	120.517	0.017	0.4	0.0025	0.0000	OK
120 minute summer	S17	100	120.238	0.048	3.3	0.0000	0.0000	OK
120 minute summer	Tank02	70	120.547	0.047	2.1	2.6897	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
120 minute summer	S01	1.000	S02	1.7	0.415	0.115	0.0624	
120 minute summer	S02	1.001	S03	3.4	0.669	0.228	0.0502	
120 minute summer	S03	1.002	S04	3.8	0.463	0.103	0.0649	
120 minute summer	S04	1.003	S05	5.8	0.585	0.161	0.0562	
120 minute summer	S05	1.004	S06	7.1	0.582	0.196	0.2988	
120 minute summer	S06	1.005	Tank01	10.2	1.144	0.212	0.0532	
120 minute summer	Tank01	1.006	S15	3.2	0.212	0.198	0.0320	
120 minute summer	S07	2.000a	Tank02	1.0	0.516	0.178	0.0047	
120 minute summer	S08	2.001	S09	3.1	0.659	0.207	0.0514	
120 minute summer	S09	2.002	S10	3.1	0.386	0.211	0.1547	
120 minute summer	S10	2.003	S11	4.3	0.422	0.284	0.0448	
120 minute summer	S11	2.004	Tank01	4.3	0.780	0.780	0.0176	
120 minute summer	S12	3.000	Tank01	2.0	0.870	0.071	0.0023	
120 minute summer	S14	4.000	Tank01	0.5	0.446	0.091	0.0176	
120 minute summer	S15	1.007	S16	3.2	0.122	0.072	0.1365	
120 minute summer	S16	1.008	S17	3.3	0.653	0.224	0.0667	39.7
120 minute summer	ACO	5.000	S16	0.4	0.433	0.059	0.0443	
120 minute summer	Tank02	2.000b	S08	-1.2	-0.435	-0.215	0.0048	

Results for 30 year 120 minute winter. 360 minute analysis at 2 minute timestep. Mass balance: 99.87%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
120 minute winter	S01	64	120.740	0.030	1.3	0.0195	0.0000	OK
120 minute winter	S02	66	120.649	0.044	2.6	0.0247	0.0000	OK
120 minute winter	S03	66	120.503	0.043	2.9	0.0156	0.0000	OK
120 minute winter	S04	114	120.503	0.083	4.5	0.0530	0.0000	OK
120 minute winter	S05	114	120.502	0.107	5.5	0.0544	0.0000	OK
120 minute winter	S06	114	120.502	0.177	7.9	0.1394	0.0000	OK
120 minute winter	Tank01	114	120.502	0.192	13.3	32.9863	0.0000	OK
120 minute winter	S07	72	120.547	0.046	0.8	0.0165	0.0000	OK
120 minute winter	S08	72	120.546	0.047	3.0	0.0423	0.0000	OK
120 minute winter	S09	114	120.503	0.083	3.0	0.0132	0.0000	OK
120 minute winter	S10	114	120.503	0.173	4.2	0.0751	0.0000	SURCHARGED
120 minute winter	S11	114	120.502	0.191	4.1	0.0304	0.0000	SURCHARGED
120 minute winter	S12	64	120.551	0.026	1.6	0.0183	0.0000	OK
120 minute winter	S14	114	120.502	0.191	0.4	0.0477	0.0000	SURCHARGED
120 minute winter	S15	114	120.502	0.193	3.2	0.0547	0.0000	OK
120 minute winter	S16	114	120.502	0.222	3.3	0.3198	0.0000	SURCHARGED
120 minute winter	ACO	54	120.515	0.014	0.3	0.0022	0.0000	OK
120 minute winter	S17	114	120.238	0.048	3.3	0.0000	0.0000	OK
120 minute winter	Tank02	72	120.546	0.046	1.5	2.6332	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
120 minute winter	S01	1.000	S02	1.3	0.387	0.088	0.0513	
120 minute winter	S02	1.001	S03	2.6	0.623	0.174	0.0413	
120 minute winter	S03	1.002	S04	2.9	0.438	0.079	0.0722	
120 minute winter	S04	1.003	S05	4.5	0.549	0.125	0.0825	
120 minute winter	S05	1.004	S06	5.5	0.530	0.151	0.3688	
120 minute winter	S06	1.005	Tank01	7.7	1.221	0.161	0.0610	
120 minute winter	Tank01	1.006	S15	3.2	-0.201	0.201	0.0362	
120 minute winter	S07	2.000a	Tank02	0.8	0.515	0.144	0.0046	
120 minute winter	S08	2.001	S09	3.0	0.652	0.199	0.0669	
120 minute winter	S09	2.002	S10	3.0	0.366	0.204	0.1773	
120 minute winter	S10	2.003	S11	4.1	0.407	0.268	0.0448	
120 minute winter	S11	2.004	Tank01	4.0	0.868	0.737	0.0176	
120 minute winter	S12	3.000	Tank01	1.6	0.819	0.057	0.0020	
120 minute winter	S14	4.000	Tank01	0.3	0.442	0.062	0.0176	
120 minute winter	S15	1.007	S16	3.3	0.122	0.073	0.1498	
120 minute winter	S16	1.008	S17	3.3	0.655	0.227	0.0672	44.2
120 minute winter	ACO	5.000	S16	0.3	0.426	0.045	0.0455	
120 minute winter	Tank02	2.000b	S08	1.0	-0.417	0.189	0.0047	

Results for 30 year 180 minute summer. 420 minute analysis at 4 minute timestep. Mass balance: 99.89%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
180 minute summer	S01	96	120.740	0.030	1.3	0.0195	0.0000	OK
180 minute summer	S02	96	120.649	0.044	2.6	0.0247	0.0000	OK
180 minute summer	S03	96	120.503	0.043	2.9	0.0156	0.0000	OK
180 minute summer	S04	136	120.483	0.063	4.4	0.0405	0.0000	OK
180 minute summer	S05	136	120.483	0.088	5.4	0.0445	0.0000	OK
180 minute summer	S06	136	120.483	0.158	7.8	0.1242	0.0000	OK
180 minute summer	Tank01	136	120.483	0.173	13.1	29.6568	0.0000	OK
180 minute summer	S07	100	120.545	0.044	0.8	0.0157	0.0000	OK
180 minute summer	S08	100	120.544	0.045	2.8	0.0406	0.0000	OK
180 minute summer	S09	132	120.484	0.063	2.8	0.0101	0.0000	OK
180 minute summer	S10	136	120.483	0.153	3.9	0.0667	0.0000	SURCHARGED
180 minute summer	S11	136	120.483	0.172	3.8	0.0274	0.0000	SURCHARGED
180 minute summer	S12	96	120.550	0.025	1.5	0.0177	0.0000	OK
180 minute summer	S14	136	120.483	0.172	0.4	0.0428	0.0000	SURCHARGED
180 minute summer	S15	136	120.483	0.174	3.2	0.0492	0.0000	OK
180 minute summer	S16	136	120.483	0.203	3.3	0.2918	0.0000	SURCHARGED
180 minute summer	ACO	96	120.514	0.014	0.3	0.0022	0.0000	OK
180 minute summer	S17	136	120.238	0.048	3.3	0.0000	0.0000	OK
180 minute summer	Tank02	100	120.544	0.044	1.4	2.5128	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
180 minute summer	S01	1.000	S02	1.3	0.387	0.088	0.0513	
180 minute summer	S02	1.001	S03	2.6	0.623	0.174	0.0413	
180 minute summer	S03	1.002	S04	2.9	0.438	0.079	0.0523	
180 minute summer	S04	1.003	S05	4.4	0.545	0.122	0.0607	
180 minute summer	S05	1.004	S06	5.4	0.504	0.148	0.3115	
180 minute summer	S06	1.005	Tank01	7.6	0.972	0.159	0.0547	
180 minute summer	Tank01	1.006	S15	3.2	0.220	0.196	0.0328	
180 minute summer	S07	2.000a	Tank02	0.8	0.496	0.143	0.0043	
180 minute summer	S08	2.001	S09	2.8	0.639	0.184	0.0511	
180 minute summer	S09	2.002	S10	2.8	0.352	0.188	0.1588	
180 minute summer	S10	2.003	S11	3.8	0.350	0.248	0.0448	
180 minute summer	S11	2.004	Tank01	3.7	0.786	0.682	0.0176	
180 minute summer	S12	3.000	Tank01	1.5	0.805	0.053	0.0019	
180 minute summer	S14	4.000	Tank01	0.3	0.125	0.062	0.0176	
180 minute summer	S15	1.007	S16	3.2	0.122	0.071	0.1392	
180 minute summer	S16	1.008	S17	3.3	0.654	0.225	0.0669	45.1
180 minute summer	ACO	5.000	S16	0.3	0.383	0.044	0.0443	
180 minute summer	Tank02	2.000b	S08	1.0	0.275	0.178	0.0044	

Results for 30 year 180 minute winter. 420 minute analysis at 4 minute timestep. Mass balance: 99.89%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
180 minute winter	S01	92	120.736	0.026	1.0	0.0171	0.0000	OK
180 minute winter	S02	96	120.643	0.038	2.0	0.0215	0.0000	OK
180 minute winter	S03	144	120.504	0.044	2.2	0.0161	0.0000	OK
180 minute winter	S04	144	120.504	0.084	3.4	0.0541	0.0000	OK
180 minute winter	S05	144	120.504	0.109	4.1	0.0553	0.0000	OK
180 minute winter	S06	144	120.504	0.179	5.9	0.1408	0.0000	OK
180 minute winter	Tank01	144	120.504	0.194	10.4	33.2915	0.0000	OK
180 minute winter	S07	100	120.542	0.041	0.6	0.0149	0.0000	OK
180 minute winter	S08	100	120.542	0.042	2.5	0.0383	0.0000	OK
180 minute winter	S09	144	120.505	0.085	2.5	0.0135	0.0000	OK
180 minute winter	S10	144	120.505	0.174	3.5	0.0759	0.0000	SURCHARGED
180 minute winter	S11	144	120.504	0.193	3.4	0.0307	0.0000	SURCHARGED
180 minute winter	S12	96	120.548	0.023	1.2	0.0158	0.0000	OK
180 minute winter	S14	144	120.504	0.193	0.3	0.0481	0.0000	SURCHARGED
180 minute winter	S15	144	120.504	0.195	3.2	0.0552	0.0000	OK
180 minute winter	S16	144	120.504	0.224	3.3	0.3224	0.0000	SURCHARGED
180 minute winter	ACO	76	120.512	0.012	0.2	0.0018	0.0000	OK
180 minute winter	S17	144	120.238	0.048	3.3	0.0000	0.0000	OK
180 minute winter	Tank02	104	120.542	0.042	0.9	2.3811	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
180 minute winter	S01	1.000	S02	1.0	0.359	0.068	0.0424	
180 minute winter	S02	1.001	S03	2.0	0.579	0.134	0.0341	
180 minute winter	S03	1.002	S04	2.2	0.413	0.060	0.0749	
180 minute winter	S04	1.003	S05	3.4	0.514	0.095	0.0845	
180 minute winter	S05	1.004	S06	4.1	0.455	0.113	0.3739	
180 minute winter	S06	1.005	Tank01	5.8	1.038	0.120	0.0616	
180 minute winter	Tank01	1.006	S15	3.2	0.201	0.200	0.0365	
180 minute winter	S07	2.000a	Tank02	0.6	0.487	0.109	0.0040	
180 minute winter	S08	2.001	S09	2.5	0.620	0.165	0.0673	
180 minute winter	S09	2.002	S10	2.5	0.342	0.168	0.1791	
180 minute winter	S10	2.003	S11	3.4	0.348	0.223	0.0448	
180 minute winter	S11	2.004	Tank01	3.4	0.792	0.615	0.0176	
180 minute winter	S12	3.000	Tank01	1.2	0.757	0.043	0.0016	
180 minute winter	S14	4.000	Tank01	0.3	0.315	0.047	0.0176	
180 minute winter	S15	1.007	S16	3.2	0.122	0.073	0.1505	
180 minute winter	S16	1.008	S17	3.3	0.655	0.227	0.0673	50.3
180 minute winter	ACO	5.000	S16	0.2	0.383	0.029	0.0448	
180 minute winter	Tank02	2.000b	S08	0.8	-0.286	0.139	0.0041	

Results for 30 year 240 minute summer. 480 minute analysis at 4 minute timestep. Mass balance: 99.91%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
240 minute summer	S01	124	120.738	0.028	1.1	0.0179	0.0000	OK
240 minute summer	S02	124	120.645	0.040	2.2	0.0224	0.0000	OK
240 minute summer	S03	124	120.499	0.039	2.5	0.0143	0.0000	OK
240 minute summer	S04	168	120.484	0.064	3.8	0.0410	0.0000	OK
240 minute summer	S05	168	120.484	0.089	4.5	0.0449	0.0000	OK
240 minute summer	S06	168	120.484	0.159	6.5	0.1247	0.0000	OK
240 minute summer	Tank01	168	120.484	0.174	11.1	29.7823	0.0000	OK
240 minute summer	S07	132	120.542	0.041	0.6	0.0147	0.0000	OK
240 minute summer	S08	132	120.541	0.042	2.4	0.0379	0.0000	OK
240 minute summer	S09	168	120.484	0.064	2.5	0.0102	0.0000	OK
240 minute summer	S10	168	120.484	0.154	3.4	0.0670	0.0000	SURCHARGED
240 minute summer	S11	168	120.484	0.173	3.3	0.0275	0.0000	SURCHARGED
240 minute summer	S12	124	120.549	0.024	1.3	0.0164	0.0000	OK
240 minute summer	S14	168	120.484	0.173	0.4	0.0430	0.0000	SURCHARGED
240 minute summer	S15	168	120.484	0.175	3.1	0.0494	0.0000	OK
240 minute summer	S16	168	120.483	0.203	3.3	0.2929	0.0000	SURCHARGED
240 minute summer	ACO	128	120.514	0.014	0.3	0.0022	0.0000	OK
240 minute summer	S17	168	120.238	0.048	3.3	0.0000	0.0000	OK
240 minute summer	Tank02	132	120.542	0.042	0.9	2.3592	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
240 minute summer	S01	1.000	S02	1.1	0.369	0.074	0.0451	
240 minute summer	S02	1.001	S03	2.2	0.592	0.145	0.0362	
240 minute summer	S03	1.002	S04	2.5	0.423	0.067	0.0460	
240 minute summer	S04	1.003	S05	3.7	0.526	0.104	0.0615	
240 minute summer	S05	1.004	S06	4.5	0.455	0.124	0.3137	
240 minute summer	S06	1.005	Tank01	6.4	0.968	0.133	0.0550	
240 minute summer	Tank01	1.006	S15	3.1	0.233	0.192	0.0330	
240 minute summer	S07	2.000a	Tank02	0.6	0.506	0.108	0.0039	
240 minute summer	S08	2.001	S09	2.5	0.616	0.162	0.0509	
240 minute summer	S09	2.002	S10	2.5	0.333	0.166	0.1595	
240 minute summer	S10	2.003	S11	3.3	0.368	0.218	0.0448	
240 minute summer	S11	2.004	Tank01	3.3	0.719	0.598	0.0176	
240 minute summer	S12	3.000	Tank01	1.3	0.774	0.046	0.0017	
240 minute summer	S14	4.000	Tank01	0.3	-0.073	0.062	0.0176	
240 minute summer	S15	1.007	S16	3.1	0.122	0.070	0.1397	
240 minute summer	S16	1.008	S17	3.3	0.654	0.225	0.0669	49.5
240 minute summer	ACO	5.000	S16	0.3	0.375	0.044	0.0445	
240 minute summer	Tank02	2.000b	S08	0.8	0.248	0.143	0.0040	

Results for 30 year 240 minute winter. 480 minute analysis at 4 minute timestep. Mass balance: 99.90%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
240 minute winter	S01	124	120.734	0.024	0.8	0.0154	0.0000	OK
240 minute winter	S02	124	120.639	0.034	1.6	0.0192	0.0000	OK
240 minute winter	S03	184	120.501	0.041	1.8	0.0151	0.0000	OK
240 minute winter	S04	180	120.501	0.081	2.7	0.0522	0.0000	OK
240 minute winter	S05	180	120.501	0.106	3.3	0.0538	0.0000	OK
240 minute winter	S06	180	120.501	0.176	4.8	0.1386	0.0000	OK
240 minute winter	Tank01	180	120.501	0.191	8.6	32.8002	0.0000	OK
240 minute winter	S07	132	120.539	0.038	0.5	0.0136	0.0000	OK
240 minute winter	S08	132	120.538	0.039	2.1	0.0350	0.0000	OK
240 minute winter	S09	180	120.502	0.082	2.1	0.0130	0.0000	OK
240 minute winter	S10	180	120.502	0.172	2.9	0.0746	0.0000	SURCHARGED
240 minute winter	S11	180	120.501	0.190	2.8	0.0303	0.0000	SURCHARGED
240 minute winter	S12	116	120.545	0.020	0.9	0.0136	0.0000	OK
240 minute winter	S14	180	120.501	0.190	0.3	0.0474	0.0000	SURCHARGED
240 minute winter	S15	180	120.501	0.192	3.2	0.0544	0.0000	OK
240 minute winter	S16	180	120.501	0.221	3.3	0.3182	0.0000	SURCHARGED
240 minute winter	ACO	112	120.512	0.012	0.2	0.0018	0.0000	OK
240 minute winter	S17	180	120.238	0.048	3.3	0.0000	0.0000	OK
240 minute winter	Tank02	132	120.538	0.038	0.6	2.1694	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
240 minute winter	S01	1.000	S02	0.8	0.338	0.054	0.0361	
240 minute winter	S02	1.001	S03	1.6	0.545	0.107	0.0290	
240 minute winter	S03	1.002	S04	1.8	0.392	0.049	0.0704	
240 minute winter	S04	1.003	S05	2.7	0.481	0.075	0.0812	
240 minute winter	S05	1.004	S06	3.3	0.424	0.091	0.3656	
240 minute winter	S06	1.005	Tank01	4.7	0.952	0.098	0.0607	
240 minute winter	Tank01	1.006	S15	3.2	0.214	0.198	0.0361	
240 minute winter	S07	2.000a	Tank02	0.5	0.489	0.091	0.0035	
240 minute winter	S08	2.001	S09	2.1	0.591	0.139	0.0641	
240 minute winter	S09	2.002	S10	2.1	0.329	0.142	0.1763	
240 minute winter	S10	2.003	S11	2.8	0.327	0.186	0.0448	
240 minute winter	S11	2.004	Tank01	2.8	0.711	0.513	0.0176	
240 minute winter	S12	3.000	Tank01	0.9	0.698	0.032	0.0013	
240 minute winter	S14	4.000	Tank01	0.3	0.087	0.048	0.0176	
240 minute winter	S15	1.007	S16	3.2	0.122	0.072	0.1493	
240 minute winter	S16	1.008	S17	3.3	0.655	0.227	0.0672	54.8
240 minute winter	ACO	5.000	S16	0.2	0.312	0.029	0.0448	
240 minute winter	Tank02	2.000b	S08	0.6	-0.249	0.110	0.0036	

Results for 30 year 360 minute summer. 600 minute analysis at 8 minute timestep. Mass balance: 99.93%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
360 minute summer	S01	184	120.734	0.024	0.8	0.0153	0.0000	OK
360 minute summer	S02	184	120.639	0.034	1.6	0.0191	0.0000	OK
360 minute summer	S03	184	120.493	0.033	1.8	0.0122	0.0000	OK
360 minute summer	S04	232	120.478	0.058	2.8	0.0375	0.0000	OK
360 minute summer	S05	232	120.478	0.083	3.4	0.0421	0.0000	OK
360 minute summer	S06	232	120.478	0.153	4.8	0.1204	0.0000	OK
360 minute summer	Tank01	232	120.478	0.168	8.5	28.8440	0.0000	OK
360 minute summer	S07	192	120.537	0.036	0.5	0.0131	0.0000	OK
360 minute summer	S08	192	120.537	0.038	2.0	0.0339	0.0000	OK
360 minute summer	S09	232	120.479	0.059	2.0	0.0093	0.0000	OK
360 minute summer	S10	232	120.479	0.148	2.7	0.0646	0.0000	OK
360 minute summer	S11	232	120.478	0.167	2.6	0.0266	0.0000	SURCHARGED
360 minute summer	S12	184	120.546	0.021	1.0	0.0144	0.0000	OK
360 minute summer	S14	232	120.478	0.167	0.3	0.0416	0.0000	SURCHARGED
360 minute summer	S15	232	120.478	0.169	3.0	0.0479	0.0000	OK
360 minute summer	S16	232	120.478	0.198	3.3	0.2850	0.0000	SURCHARGED
360 minute summer	ACO	184	120.512	0.012	0.2	0.0018	0.0000	OK
360 minute summer	S17	232	120.238	0.048	3.3	0.0000	0.0000	OK
360 minute summer	Tank02	192	120.537	0.037	0.5	2.0981	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
360 minute summer	S01	1.000	S02	0.8	0.338	0.054	0.0359	
360 minute summer	S02	1.001	S03	1.6	0.543	0.106	0.0288	
360 minute summer	S03	1.002	S04	1.8	0.385	0.048	0.0385	
360 minute summer	S04	1.003	S05	2.8	0.485	0.077	0.0556	
360 minute summer	S05	1.004	S06	3.3	0.393	0.092	0.2973	
360 minute summer	S06	1.005	Tank01	4.7	0.914	0.099	0.0531	
360 minute summer	Tank01	1.006	S15	3.0	0.273	0.187	0.0319	
360 minute summer	S07	2.000a	Tank02	0.5	0.364	0.090	0.0033	
360 minute summer	S08	2.001	S09	2.0	0.581	0.131	0.0455	
360 minute summer	S09	2.002	S10	2.0	0.317	0.134	0.1541	
360 minute summer	S10	2.003	S11	2.6	0.302	0.172	0.0448	
360 minute summer	S11	2.004	Tank01	2.6	0.712	0.474	0.0176	
360 minute summer	S12	3.000	Tank01	1.0	0.719	0.035	0.0014	
360 minute summer	S14	4.000	Tank01	0.3	-0.070	0.047	0.0176	
360 minute summer	S15	1.007	S16	3.0	0.122	0.068	0.1361	
360 minute summer	S16	1.008	S17	3.3	0.653	0.224	0.0667	56.4
360 minute summer	ACO	5.000	S16	0.2	0.312	0.029	0.0437	
360 minute summer	Tank02	2.000b	S08	0.6	0.209	0.111	0.0034	

Results for 30 year 360 minute winter. 600 minute analysis at 8 minute timestep. Mass balance: 99.93%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
360 minute winter	S01	176	120.731	0.021	0.6	0.0134	0.0000	OK
360 minute winter	S02	176	120.634	0.029	1.2	0.0165	0.0000	OK
360 minute winter	S03	256	120.493	0.033	1.4	0.0121	0.0000	OK
360 minute winter	S04	256	120.493	0.073	2.1	0.0469	0.0000	OK
360 minute winter	S05	256	120.493	0.098	2.6	0.0496	0.0000	OK
360 minute winter	S06	256	120.493	0.168	3.7	0.1320	0.0000	OK
360 minute winter	Tank01	256	120.493	0.183	6.6	31.3767	0.0000	OK
360 minute winter	S07	192	120.533	0.032	0.4	0.0116	0.0000	OK
360 minute winter	S08	192	120.533	0.034	1.6	0.0303	0.0000	OK
360 minute winter	S09	256	120.493	0.073	1.6	0.0117	0.0000	OK
360 minute winter	S10	256	120.493	0.163	2.2	0.0710	0.0000	SURCHARGED
360 minute winter	S11	256	120.493	0.182	2.2	0.0289	0.0000	SURCHARGED
360 minute winter	S12	184	120.542	0.017	0.7	0.0120	0.0000	OK
360 minute winter	S14	256	120.493	0.182	0.2	0.0453	0.0000	SURCHARGED
360 minute winter	S15	256	120.493	0.184	3.0	0.0520	0.0000	OK
360 minute winter	S16	256	120.493	0.213	3.3	0.3063	0.0000	SURCHARGED
360 minute winter	ACO	184	120.512	0.012	0.2	0.0018	0.0000	OK
360 minute winter	S17	256	120.238	0.048	3.3	0.0000	0.0000	OK
360 minute winter	Tank02	192	120.533	0.033	0.4	1.8674	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
360 minute winter	S01	1.000	S02	0.6	0.311	0.041	0.0294	
360 minute winter	S02	1.001	S03	1.2	0.502	0.080	0.0236	
360 minute winter	S03	1.002	S04	1.4	0.367	0.038	0.0581	
360 minute winter	S04	1.003	S05	2.1	0.447	0.058	0.0719	
360 minute winter	S05	1.004	S06	2.6	0.376	0.071	0.3414	
360 minute winter	S06	1.005	Tank01	3.6	0.922	0.075	0.0581	
360 minute winter	Tank01	1.006	S15	3.0	0.249	0.189	0.0347	
360 minute winter	S07	2.000a	Tank02	0.4	0.494	0.072	0.0028	
360 minute winter	S08	2.001	S09	1.6	0.547	0.105	0.0563	
360 minute winter	S09	2.002	S10	1.6	0.326	0.107	0.1683	
360 minute winter	S10	2.003	S11	2.2	0.299	0.141	0.0448	
360 minute winter	S11	2.004	Tank01	2.1	0.634	0.389	0.0176	
360 minute winter	S12	3.000	Tank01	0.7	0.650	0.025	0.0011	
360 minute winter	S14	4.000	Tank01	0.2	0.051	0.034	0.0176	
360 minute winter	S15	1.007	S16	3.1	0.122	0.069	0.1452	
360 minute winter	S16	1.008	S17	3.3	0.654	0.226	0.0671	63.4
360 minute winter	ACO	5.000	S16	0.2	0.312	0.029	0.0437	
360 minute winter	Tank02	2.000b	S08	0.4	0.203	0.076	0.0029	

Results for 30 year 480 minute summer. 720 minute analysis at 8 minute timestep. Mass balance: 99.95%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
480 minute summer	S01	248	120.732	0.022	0.7	0.0144	0.0000	OK
480 minute summer	S02	248	120.637	0.032	1.4	0.0179	0.0000	OK
480 minute summer	S03	248	120.492	0.032	1.6	0.0115	0.0000	OK
480 minute summer	S04	304	120.475	0.055	2.4	0.0350	0.0000	OK
480 minute summer	S05	304	120.475	0.079	2.9	0.0402	0.0000	OK
480 minute summer	S06	304	120.474	0.149	4.1	0.1175	0.0000	OK
480 minute summer	Tank01	304	120.474	0.164	7.2	28.1930	0.0000	OK
480 minute summer	S07	248	120.534	0.033	0.4	0.0118	0.0000	OK
480 minute summer	S08	248	120.533	0.034	1.6	0.0306	0.0000	OK
480 minute summer	S09	304	120.475	0.055	1.6	0.0087	0.0000	OK
480 minute summer	S10	304	120.475	0.145	2.3	0.0629	0.0000	OK
480 minute summer	S11	304	120.475	0.163	2.3	0.0260	0.0000	SURCHARGED
480 minute summer	S12	248	120.543	0.018	0.8	0.0129	0.0000	OK
480 minute summer	S14	304	120.474	0.163	0.2	0.0407	0.0000	SURCHARGED
480 minute summer	S15	304	120.474	0.165	3.0	0.0468	0.0000	OK
480 minute summer	S16	304	120.474	0.194	3.3	0.2795	0.0000	SURCHARGED
480 minute summer	ACO	248	120.512	0.012	0.2	0.0018	0.0000	OK
480 minute summer	S17	304	120.238	0.048	3.2	0.0000	0.0000	OK
480 minute summer	Tank02	256	120.533	0.033	0.4	1.8905	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
480 minute summer	S01	1.000	S02	0.7	0.326	0.047	0.0328	
480 minute summer	S02	1.001	S03	1.4	0.524	0.094	0.0264	
480 minute summer	S03	1.002	S04	1.6	0.380	0.043	0.0364	
480 minute summer	S04	1.003	S05	2.4	0.467	0.067	0.0516	
480 minute summer	S05	1.004	S06	2.9	0.361	0.080	0.2858	
480 minute summer	S06	1.005	Tank01	4.0	0.856	0.084	0.0517	
480 minute summer	Tank01	1.006	S15	3.0	0.277	0.187	0.0312	
480 minute summer	S07	2.000a	Tank02	0.4	0.337	0.073	0.0029	
480 minute summer	S08	2.001	S09	1.6	0.550	0.107	0.0412	
480 minute summer	S09	2.002	S10	1.6	0.292	0.109	0.1494	
480 minute summer	S10	2.003	S11	2.3	0.270	0.148	0.0446	
480 minute summer	S11	2.004	Tank01	2.2	0.639	0.408	0.0176	
480 minute summer	S12	3.000	Tank01	0.8	0.675	0.028	0.0012	
480 minute summer	S14	4.000	Tank01	0.2	-0.059	0.033	0.0176	
480 minute summer	S15	1.007	S16	3.0	0.122	0.068	0.1335	
480 minute summer	S16	1.008	S17	3.2	0.653	0.224	0.0666	62.9
480 minute summer	ACO	5.000	S16	0.2	0.312	0.029	0.0437	
480 minute summer	Tank02	2.000b	S08	0.5	-0.201	0.085	0.0029	

Results for 30 year 480 minute winter. 720 minute analysis at 8 minute timestep. Mass balance: 99.95%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
480 minute winter	S01	232	120.729	0.019	0.5	0.0123	0.0000	OK
480 minute winter	S02	232	120.632	0.027	1.0	0.0151	0.0000	OK
480 minute winter	S03	232	120.487	0.027	1.1	0.0097	0.0000	OK
480 minute winter	S04	328	120.481	0.061	1.7	0.0391	0.0000	OK
480 minute winter	S05	328	120.481	0.086	2.1	0.0434	0.0000	OK
480 minute winter	S06	328	120.481	0.156	3.0	0.1224	0.0000	OK
480 minute winter	Tank01	328	120.481	0.171	5.5	29.2802	0.0000	OK
480 minute winter	S07	256	120.531	0.030	0.3	0.0106	0.0000	OK
480 minute winter	S08	248	120.530	0.031	1.3	0.0276	0.0000	OK
480 minute winter	S09	320	120.481	0.061	1.3	0.0097	0.0000	OK
480 minute winter	S10	320	120.481	0.151	1.8	0.0657	0.0000	SURCHARGED
480 minute winter	S11	328	120.481	0.170	1.8	0.0270	0.0000	SURCHARGED
480 minute winter	S12	240	120.541	0.016	0.6	0.0112	0.0000	OK
480 minute winter	S14	328	120.481	0.170	0.2	0.0423	0.0000	SURCHARGED
480 minute winter	S15	328	120.481	0.172	3.0	0.0486	0.0000	OK
480 minute winter	S16	328	120.481	0.200	3.3	0.2887	0.0000	SURCHARGED
480 minute winter	ACO	176	120.509	0.009	0.1	0.0013	0.0000	OK
480 minute winter	S17	328	120.238	0.048	3.3	0.0000	0.0000	OK
480 minute winter	Tank02	256	120.530	0.030	0.3	1.7090	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
480 minute winter	S01	1.000	S02	0.5	0.296	0.034	0.0258	
480 minute winter	S02	1.001	S03	1.0	0.476	0.067	0.0208	
480 minute winter	S03	1.002	S04	1.1	0.348	0.030	0.0415	
480 minute winter	S04	1.003	S05	1.7	0.423	0.047	0.0584	
480 minute winter	S05	1.004	S06	2.1	0.358	0.058	0.3050	
480 minute winter	S06	1.005	Tank01	3.0	0.836	0.061	0.0540	
480 minute winter	Tank01	1.006	S15	3.0	0.274	0.189	0.0324	
480 minute winter	S07	2.000a	Tank02	0.3	0.360	0.055	0.0025	
480 minute winter	S08	2.001	S09	1.3	0.520	0.088	0.0460	
480 minute winter	S09	2.002	S10	1.3	0.313	0.090	0.1565	
480 minute winter	S10	2.003	S11	1.8	0.301	0.118	0.0448	
480 minute winter	S11	2.004	Tank01	1.8	0.641	0.325	0.0176	
480 minute winter	S12	3.000	Tank01	0.6	0.622	0.021	0.0010	
480 minute winter	S14	4.000	Tank01	0.2	-0.062	0.034	0.0176	
480 minute winter	S15	1.007	S16	3.1	0.123	0.069	0.1378	
480 minute winter	S16	1.008	S17	3.3	0.653	0.225	0.0668	70.0
480 minute winter	ACO	5.000	S16	0.1	0.312	0.015	0.0437	
480 minute winter	Tank02	2.000b	S08	0.4	-0.205	0.066	0.0025	

Results for 30 year 600 minute summer. 840 minute analysis at 15 minute timestep. Mass balance: 99.95%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
600 minute summer	S01	315	120.729	0.019	0.5	0.0123	0.0000	OK
600 minute summer	S02	315	120.632	0.027	1.0	0.0151	0.0000	OK
600 minute summer	S03	315	120.487	0.027	1.1	0.0097	0.0000	OK
600 minute summer	S04	375	120.459	0.039	1.7	0.0253	0.0000	OK
600 minute summer	S05	375	120.459	0.064	2.1	0.0325	0.0000	OK
600 minute summer	S06	375	120.459	0.134	3.1	0.1054	0.0000	OK
600 minute summer	Tank01	375	120.459	0.149	5.7	25.5660	0.0000	OK
600 minute summer	S07	315	120.532	0.030	0.3	0.0109	0.0000	OK
600 minute summer	S08	315	120.531	0.032	1.4	0.0286	0.0000	OK
600 minute summer	S09	375	120.459	0.039	1.4	0.0063	0.0000	OK
600 minute summer	S10	375	120.459	0.129	1.9	0.0562	0.0000	OK
600 minute summer	S11	375	120.459	0.148	1.9	0.0236	0.0000	OK
600 minute summer	S12	315	120.541	0.016	0.6	0.0112	0.0000	OK
600 minute summer	S14	375	120.459	0.148	0.2	0.0369	0.0000	OK
600 minute summer	S15	375	120.459	0.150	2.9	0.0424	0.0000	OK
600 minute summer	S16	375	120.459	0.179	3.2	0.2574	0.0000	SURCHARGED
600 minute summer	ACO	255	120.509	0.009	0.1	0.0013	0.0000	OK
600 minute summer	S17	375	120.238	0.048	3.2	0.0000	0.0000	OK
600 minute summer	Tank02	315	120.531	0.031	0.3	1.7578	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
600 minute summer	S01	1.000	S02	0.5	0.296	0.034	0.0258	
600 minute summer	S02	1.001	S03	1.0	0.476	0.067	0.0208	
600 minute summer	S03	1.002	S04	1.1	0.339	0.030	0.0256	
600 minute summer	S04	1.003	S05	1.7	0.422	0.047	0.0362	
600 minute summer	S05	1.004	S06	2.1	0.336	0.058	0.2397	
600 minute summer	S06	1.005	Tank01	3.0	0.652	0.063	0.0460	
600 minute summer	Tank01	1.006	S15	2.9	0.274	0.182	0.0280	
600 minute summer	S07	2.000a	Tank02	0.3	0.299	0.055	0.0026	
600 minute summer	S08	2.001	S09	1.4	0.530	0.094	0.0299	
600 minute summer	S09	2.002	S10	1.4	0.271	0.096	0.1274	
600 minute summer	S10	2.003	S11	1.9	0.269	0.123	0.0429	
600 minute summer	S11	2.004	Tank01	1.9	0.465	0.341	0.0176	
600 minute summer	S12	3.000	Tank01	0.6	0.622	0.021	0.0010	
600 minute summer	S14	4.000	Tank01	0.2	0.029	0.033	0.0176	
600 minute summer	S15	1.007	S16	2.9	0.121	0.066	0.1221	
600 minute summer	S16	1.008	S17	3.2	0.650	0.221	0.0659	65.6
600 minute summer	ACO	5.000	S16	0.1	0.312	0.015	0.0426	
600 minute summer	Tank02	2.000b	S08	0.4	0.183	0.075	0.0027	

Results for 30 year 600 minute winter. 840 minute analysis at 15 minute timestep. Mass balance: 99.96%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
600 minute winter	S01	285	120.727	0.017	0.4	0.0110	0.0000	OK
600 minute winter	S02	285	120.629	0.024	0.8	0.0135	0.0000	OK
600 minute winter	S03	285	120.484	0.024	0.9	0.0088	0.0000	OK
600 minute winter	S04	390	120.465	0.045	1.4	0.0287	0.0000	OK
600 minute winter	S05	390	120.465	0.069	1.7	0.0352	0.0000	OK
600 minute winter	S06	390	120.464	0.139	2.4	0.1096	0.0000	OK
600 minute winter	Tank01	390	120.464	0.154	4.4	26.4742	0.0000	OK
600 minute winter	S07	315	120.527	0.026	0.2	0.0094	0.0000	OK
600 minute winter	S08	315	120.527	0.028	1.1	0.0248	0.0000	OK
600 minute winter	S09	390	120.465	0.045	1.1	0.0071	0.0000	OK
600 minute winter	S10	390	120.465	0.135	1.5	0.0585	0.0000	OK
600 minute winter	S11	390	120.465	0.153	1.5	0.0244	0.0000	SURCHARGED
600 minute winter	S12	300	120.540	0.015	0.5	0.0102	0.0000	OK
600 minute winter	S14	390	120.464	0.153	0.1	0.0382	0.0000	SURCHARGED
600 minute winter	S15	390	120.464	0.155	3.0	0.0439	0.0000	OK
600 minute winter	S16	390	120.464	0.184	3.2	0.2650	0.0000	SURCHARGED
600 minute winter	ACO	240	120.509	0.009	0.1	0.0013	0.0000	OK
600 minute winter	S17	390	120.238	0.048	3.2	0.0000	0.0000	OK
600 minute winter	Tank02	315	120.527	0.027	0.2	1.5206	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
600 minute winter	S01	1.000	S02	0.4	0.277	0.027	0.0220	
600 minute winter	S02	1.001	S03	0.8	0.447	0.054	0.0177	
600 minute winter	S03	1.002	S04	0.9	0.332	0.024	0.0284	
600 minute winter	S04	1.003	S05	1.4	0.403	0.039	0.0414	
600 minute winter	S05	1.004	S06	1.7	0.324	0.047	0.2556	
600 minute winter	S06	1.005	Tank01	2.4	0.701	0.049	0.0480	
600 minute winter	Tank01	1.006	S15	3.0	0.276	0.183	0.0291	
600 minute winter	S07	2.000a	Tank02	0.2	0.263	0.037	0.0021	
600 minute winter	S08	2.001	S09	1.1	0.489	0.071	0.0327	
600 minute winter	S09	2.002	S10	1.1	0.289	0.073	0.1354	
600 minute winter	S10	2.003	S11	1.5	0.295	0.095	0.0436	
600 minute winter	S11	2.004	Tank01	1.4	0.513	0.264	0.0176	
600 minute winter	S12	3.000	Tank01	0.5	0.591	0.018	0.0008	
600 minute winter	S14	4.000	Tank01	0.1	-0.044	0.019	0.0176	
600 minute winter	S15	1.007	S16	3.0	0.122	0.067	0.1262	
600 minute winter	S16	1.008	S17	3.2	0.651	0.222	0.0662	74.1
600 minute winter	ACO	5.000	S16	0.1	0.312	0.015	0.0436	
600 minute winter	Tank02	2.000b	S08	0.3	-0.203	0.049	0.0022	

Results for 30 year 720 minute summer. 960 minute analysis at 15 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
720 minute summer	S01	375	120.729	0.019	0.5	0.0123	0.0000	OK
720 minute summer	S02	375	120.632	0.027	1.0	0.0151	0.0000	OK
720 minute summer	S03	375	120.487	0.027	1.1	0.0097	0.0000	OK
720 minute summer	S04	435	120.457	0.037	1.7	0.0236	0.0000	OK
720 minute summer	S05	435	120.456	0.061	2.1	0.0310	0.0000	OK
720 minute summer	S06	435	120.456	0.131	3.0	0.1032	0.0000	OK
720 minute summer	Tank01	435	120.456	0.146	5.4	25.0756	0.0000	OK
720 minute summer	S07	375	120.530	0.029	0.3	0.0103	0.0000	OK
720 minute summer	S08	375	120.529	0.030	1.2	0.0267	0.0000	OK
720 minute summer	S09	435	120.457	0.037	1.2	0.0058	0.0000	OK
720 minute summer	S10	435	120.456	0.126	1.7	0.0550	0.0000	OK
720 minute summer	S11	435	120.456	0.145	1.7	0.0231	0.0000	OK
720 minute summer	S12	375	120.541	0.016	0.6	0.0112	0.0000	OK
720 minute summer	S14	435	120.456	0.145	0.2	0.0362	0.0000	OK
720 minute summer	S15	435	120.456	0.147	2.9	0.0416	0.0000	OK
720 minute summer	S16	435	120.456	0.176	3.2	0.2533	0.0000	SURCHARGED
720 minute summer	ACO	315	120.509	0.009	0.1	0.0013	0.0000	OK
720 minute summer	S17	435	120.238	0.048	3.2	0.0000	0.0000	OK
720 minute summer	Tank02	375	120.529	0.029	0.3	1.6422	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
720 minute summer	S01	1.000	S02	0.5	0.296	0.034	0.0258	
720 minute summer	S02	1.001	S03	1.0	0.476	0.067	0.0208	
720 minute summer	S03	1.002	S04	1.1	0.339	0.030	0.0256	
720 minute summer	S04	1.003	S05	1.7	0.422	0.047	0.0335	
720 minute summer	S05	1.004	S06	2.1	0.334	0.058	0.2313	
720 minute summer	S06	1.005	Tank01	3.0	0.579	0.061	0.0449	
720 minute summer	Tank01	1.006	S15	2.9	0.273	0.183	0.0274	
720 minute summer	S07	2.000a	Tank02	0.3	0.245	0.055	0.0024	
720 minute summer	S08	2.001	S09	1.2	0.510	0.082	0.0271	
720 minute summer	S09	2.002	S10	1.2	0.276	0.084	0.1232	
720 minute summer	S10	2.003	S11	1.7	0.237	0.112	0.0424	
720 minute summer	S11	2.004	Tank01	1.7	0.470	0.308	0.0175	
720 minute summer	S12	3.000	Tank01	0.6	0.622	0.021	0.0010	
720 minute summer	S14	4.000	Tank01	0.2	0.026	0.033	0.0175	
720 minute summer	S15	1.007	S16	2.9	0.123	0.066	0.1199	
720 minute summer	S16	1.008	S17	3.2	0.650	0.220	0.0658	68.8
720 minute summer	ACO	5.000	S16	0.1	0.312	0.015	0.0418	
720 minute summer	Tank02	2.000b	S08	0.3	0.168	0.061	0.0024	

Results for 30 year 720 minute winter. 960 minute analysis at 15 minute timestep. Mass balance: 99.96%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
720 minute winter	S01	375	120.727	0.017	0.4	0.0110	0.0000	OK
720 minute winter	S02	375	120.629	0.024	0.8	0.0135	0.0000	OK
720 minute winter	S03	375	120.484	0.024	0.9	0.0088	0.0000	OK
720 minute winter	S04	450	120.451	0.031	1.3	0.0200	0.0000	OK
720 minute winter	S05	450	120.450	0.055	1.6	0.0280	0.0000	OK
720 minute winter	S06	450	120.450	0.125	2.3	0.0985	0.0000	OK
720 minute winter	Tank01	450	120.450	0.140	4.1	24.0546	0.0000	OK
720 minute winter	S07	375	120.526	0.025	0.2	0.0090	0.0000	OK
720 minute winter	S08	375	120.525	0.026	1.0	0.0236	0.0000	OK
720 minute winter	S09	450	120.451	0.031	1.0	0.0049	0.0000	OK
720 minute winter	S10	450	120.450	0.120	1.4	0.0524	0.0000	OK
720 minute winter	S11	450	120.450	0.139	1.4	0.0222	0.0000	OK
720 minute winter	S12	345	120.538	0.013	0.4	0.0091	0.0000	OK
720 minute winter	S14	450	120.450	0.139	0.1	0.0347	0.0000	OK
720 minute winter	S15	450	120.450	0.141	2.9	0.0399	0.0000	OK
720 minute winter	S16	450	120.450	0.170	3.2	0.2447	0.0000	SURCHARGED
720 minute winter	ACO	285	120.509	0.009	0.1	0.0013	0.0000	OK
720 minute winter	S17	450	120.238	0.047	3.2	0.0000	0.0000	OK
720 minute winter	Tank02	375	120.526	0.026	0.2	1.4484	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
720 minute winter	S01	1.000	S02	0.4	0.277	0.027	0.0220	
720 minute winter	S02	1.001	S03	0.8	0.447	0.054	0.0177	
720 minute winter	S03	1.002	S04	0.9	0.331	0.024	0.0214	
720 minute winter	S04	1.003	S05	1.3	0.391	0.036	0.0281	
720 minute winter	S05	1.004	S06	1.6	0.321	0.043	0.2137	
720 minute winter	S06	1.005	Tank01	2.2	0.747	0.047	0.0426	
720 minute winter	Tank01	1.006	S15	2.9	0.269	0.178	0.0261	
720 minute winter	S07	2.000a	Tank02	0.2	0.294	0.037	0.0020	
720 minute winter	S08	2.001	S09	1.0	0.475	0.064	0.0228	
720 minute winter	S09	2.002	S10	1.0	0.271	0.066	0.1140	
720 minute winter	S10	2.003	S11	1.4	0.269	0.089	0.0410	
720 minute winter	S11	2.004	Tank01	1.3	0.570	0.246	0.0171	
720 minute winter	S12	3.000	Tank01	0.4	0.555	0.014	0.0007	
720 minute winter	S14	4.000	Tank01	0.1	-0.063	0.019	0.0171	
720 minute winter	S15	1.007	S16	2.9	0.122	0.065	0.1151	
720 minute winter	S16	1.008	S17	3.2	0.649	0.219	0.0655	77.9
720 minute winter	ACO	5.000	S16	0.1	0.312	0.015	0.0397	
720 minute winter	Tank02	2.000b	S08	0.3	-0.165	0.047	0.0020	

Results for 30 year 960 minute summer. 1200 minute analysis at 15 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
960 minute summer	S01	495	120.727	0.017	0.4	0.0110	0.0000	OK
960 minute summer	S02	495	120.629	0.024	0.8	0.0135	0.0000	OK
960 minute summer	S03	495	120.484	0.024	0.9	0.0088	0.0000	OK
960 minute summer	S04	495	120.452	0.032	1.4	0.0203	0.0000	OK
960 minute summer	S05	555	120.440	0.045	1.7	0.0225	0.0000	OK
960 minute summer	S06	555	120.439	0.114	2.4	0.0899	0.0000	OK
960 minute summer	Tank01	555	120.439	0.129	4.3	22.1774	0.0000	OK
960 minute summer	S07	495	120.526	0.025	0.2	0.0089	0.0000	OK
960 minute summer	S08	495	120.525	0.026	1.0	0.0235	0.0000	OK
960 minute summer	S09	495	120.446	0.026	1.0	0.0041	0.0000	OK
960 minute summer	S10	555	120.440	0.110	1.4	0.0476	0.0000	OK
960 minute summer	S11	555	120.439	0.128	1.3	0.0204	0.0000	OK
960 minute summer	S12	495	120.540	0.015	0.5	0.0102	0.0000	OK
960 minute summer	S14	555	120.439	0.128	0.1	0.0320	0.0000	OK
960 minute summer	S15	555	120.439	0.130	2.8	0.0368	0.0000	OK
960 minute summer	S16	555	120.439	0.159	3.1	0.2289	0.0000	SURCHARGED
960 minute summer	ACO	435	120.509	0.009	0.1	0.0013	0.0000	OK
960 minute summer	S17	555	120.237	0.047	3.1	0.0000	0.0000	OK
960 minute summer	Tank02	495	120.525	0.025	0.2	1.4405	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
960 minute summer	S01	1.000	S02	0.4	0.277	0.027	0.0220	
960 minute summer	S02	1.001	S03	0.8	0.447	0.054	0.0177	
960 minute summer	S03	1.002	S04	0.9	0.320	0.024	0.0222	
960 minute summer	S04	1.003	S05	1.4	0.403	0.039	0.0200	
960 minute summer	S05	1.004	S06	1.7	0.308	0.047	0.1820	
960 minute summer	S06	1.005	Tank01	2.4	0.530	0.049	0.0384	
960 minute summer	Tank01	1.006	S15	2.8	0.269	0.172	0.0237	
960 minute summer	S07	2.000a	Tank02	0.2	0.200	0.037	0.0019	
960 minute summer	S08	2.001	S09	1.0	0.474	0.064	0.0220	
960 minute summer	S09	2.002	S10	1.0	0.312	0.065	0.0993	
960 minute summer	S10	2.003	S11	1.3	0.217	0.088	0.0380	
960 minute summer	S11	2.004	Tank01	1.3	0.470	0.243	0.0161	
960 minute summer	S12	3.000	Tank01	0.5	0.591	0.018	0.0008	
960 minute summer	S14	4.000	Tank01	0.1	0.024	0.019	0.0161	
960 minute summer	S15	1.007	S16	2.8	0.122	0.062	0.1060	
960 minute summer	S16	1.008	S17	3.1	0.646	0.215	0.0647	72.0
960 minute summer	ACO	5.000	S16	0.1	0.312	0.015	0.0350	
960 minute summer	Tank02	2.000b	S08	0.3	0.152	0.048	0.0020	

Results for 30 year 960 minute winter. 1200 minute analysis at 15 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
960 minute winter	S01	450	120.725	0.015	0.3	0.0096	0.0000	OK
960 minute winter	S02	450	120.626	0.021	0.6	0.0117	0.0000	OK
960 minute winter	S03	450	120.481	0.021	0.7	0.0078	0.0000	OK
960 minute winter	S04	450	120.447	0.027	1.0	0.0171	0.0000	OK
960 minute winter	S05	570	120.435	0.040	1.2	0.0204	0.0000	OK
960 minute winter	S06	570	120.435	0.110	1.7	0.0865	0.0000	OK
960 minute winter	Tank01	570	120.435	0.125	3.2	21.4300	0.0000	OK
960 minute winter	S07	540	120.524	0.023	0.2	0.0082	0.0000	OK
960 minute winter	S08	540	120.523	0.024	0.8	0.0214	0.0000	OK
960 minute winter	S09	540	120.444	0.024	0.8	0.0038	0.0000	OK
960 minute winter	S10	570	120.435	0.105	1.1	0.0457	0.0000	OK
960 minute winter	S11	570	120.435	0.124	1.1	0.0197	0.0000	OK
960 minute winter	S12	420	120.536	0.011	0.3	0.0079	0.0000	OK
960 minute winter	S14	570	120.435	0.124	0.1	0.0309	0.0000	OK
960 minute winter	S15	570	120.435	0.126	2.7	0.0356	0.0000	OK
960 minute winter	S16	570	120.435	0.155	3.0	0.2226	0.0000	SURCHARGED
960 minute winter	ACO	405	120.509	0.009	0.1	0.0013	0.0000	OK
960 minute winter	S17	570	120.236	0.046	3.0	0.0000	0.0000	OK
960 minute winter	Tank02	540	120.523	0.023	0.2	1.3241	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
960 minute winter	S01	1.000	S02	0.3	0.255	0.020	0.0180	
960 minute winter	S02	1.001	S03	0.6	0.411	0.040	0.0144	
960 minute winter	S03	1.002	S04	0.7	0.319	0.019	0.0178	
960 minute winter	S04	1.003	S05	1.0	0.368	0.028	0.0179	
960 minute winter	S05	1.004	S06	1.2	0.308	0.033	0.1698	
960 minute winter	S06	1.005	Tank01	2.1	0.553	0.044	0.0367	
960 minute winter	Tank01	1.006	S15	2.7	0.270	0.166	0.0227	
960 minute winter	S07	2.000a	Tank02	0.2	0.243	0.037	0.0017	
960 minute winter	S08	2.001	S09	0.8	0.449	0.053	0.0192	
960 minute winter	S09	2.002	S10	0.8	0.265	0.054	0.0947	
960 minute winter	S10	2.003	S11	1.1	0.264	0.071	0.0366	
960 minute winter	S11	2.004	Tank01	1.1	0.445	0.199	0.0156	
960 minute winter	S12	3.000	Tank01	0.3	0.509	0.011	0.0006	
960 minute winter	S14	4.000	Tank01	0.1	-0.047	0.019	0.0156	
960 minute winter	S15	1.007	S16	2.7	0.122	0.060	0.1023	
960 minute winter	S16	1.008	S17	3.0	0.641	0.209	0.0635	85.1
960 minute winter	ACO	5.000	S16	0.1	0.307	0.015	0.0329	
960 minute winter	Tank02	2.000b	S08	0.2	-0.146	0.039	0.0018	

Results for 30 year 1440 minute summer. 1680 minute analysis at 30 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
1440 minute summer	S01	750	120.725	0.015	0.3	0.0096	0.0000	OK
1440 minute summer	S02	750	120.626	0.021	0.6	0.0117	0.0000	OK
1440 minute summer	S03	750	120.481	0.021	0.7	0.0078	0.0000	OK
1440 minute summer	S04	750	120.447	0.027	1.0	0.0171	0.0000	OK
1440 minute summer	S05	750	120.423	0.028	1.2	0.0141	0.0000	OK
1440 minute summer	S06	810	120.419	0.094	1.7	0.0740	0.0000	OK
1440 minute summer	Tank01	810	120.419	0.109	3.1	18.7105	0.0000	OK
1440 minute summer	S07	750	120.524	0.023	0.2	0.0081	0.0000	OK
1440 minute summer	S08	750	120.523	0.023	0.8	0.0212	0.0000	OK
1440 minute summer	S09	750	120.443	0.023	0.8	0.0037	0.0000	OK
1440 minute summer	S10	810	120.419	0.089	1.1	0.0388	0.0000	OK
1440 minute summer	S11	810	120.419	0.108	1.1	0.0172	0.0000	OK
1440 minute summer	S12	720	120.536	0.011	0.3	0.0079	0.0000	OK
1440 minute summer	S14	810	120.419	0.108	0.1	0.0269	0.0000	OK
1440 minute summer	S15	810	120.419	0.110	2.4	0.0311	0.0000	OK
1440 minute summer	S16	810	120.419	0.139	2.7	0.1996	0.0000	OK
1440 minute summer	ACO	720	120.509	0.009	0.1	0.0013	0.0000	OK
1440 minute summer	S17	810	120.234	0.044	2.7	0.0000	0.0000	OK
1440 minute summer	Tank02	750	120.523	0.023	0.2	1.3025	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
1440 minute summer	S01	1.000	S02	0.3	0.255	0.020	0.0180	
1440 minute summer	S02	1.001	S03	0.6	0.411	0.040	0.0144	
1440 minute summer	S03	1.002	S04	0.7	0.310	0.019	0.0178	
1440 minute summer	S04	1.003	S05	1.0	0.368	0.028	0.0141	
1440 minute summer	S05	1.004	S06	1.2	0.307	0.033	0.1272	
1440 minute summer	S06	1.005	Tank01	2.0	0.363	0.042	0.0305	
1440 minute summer	Tank01	1.006	S15	2.4	0.271	0.148	0.0192	
1440 minute summer	S07	2.000a	Tank02	0.2	0.152	0.036	0.0017	
1440 minute summer	S08	2.001	S09	0.8	0.446	0.051	0.0189	
1440 minute summer	S09	2.002	S10	0.8	0.281	0.053	0.0793	
1440 minute summer	S10	2.003	S11	1.1	0.213	0.070	0.0312	
1440 minute summer	S11	2.004	Tank01	1.1	0.470	0.194	0.0137	
1440 minute summer	S12	3.000	Tank01	0.3	0.509	0.011	0.0006	
1440 minute summer	S14	4.000	Tank01	0.1	0.020	0.019	0.0137	
1440 minute summer	S15	1.007	S16	2.4	0.123	0.054	0.0885	
1440 minute summer	S16	1.008	S17	2.7	0.621	0.186	0.0582	74.9
1440 minute summer	ACO	5.000	S16	0.1	0.204	0.015	0.0240	
1440 minute summer	Tank02	2.000b	S08	0.2	0.139	0.033	0.0017	

Results for 30 year 1440 minute winter. 1680 minute analysis at 30 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
1440 minute winter	S01	630	120.722	0.012	0.2	0.0080	0.0000	OK
1440 minute winter	S02	630	120.622	0.017	0.4	0.0096	0.0000	OK
1440 minute winter	S03	720	120.478	0.018	0.5	0.0067	0.0000	OK
1440 minute winter	S04	720	120.442	0.022	0.7	0.0142	0.0000	OK
1440 minute winter	S05	720	120.419	0.024	0.9	0.0123	0.0000	OK
1440 minute winter	S06	810	120.408	0.083	1.3	0.0651	0.0000	OK
1440 minute winter	Tank01	810	120.408	0.098	2.4	16.7793	0.0000	OK
1440 minute winter	S07	750	120.520	0.019	0.1	0.0068	0.0000	OK
1440 minute winter	S08	750	120.520	0.020	0.6	0.0185	0.0000	OK
1440 minute winter	S09	750	120.440	0.020	0.6	0.0032	0.0000	OK
1440 minute winter	S10	810	120.408	0.078	0.8	0.0339	0.0000	OK
1440 minute winter	S11	810	120.408	0.097	0.8	0.0154	0.0000	OK
1440 minute winter	S12	600	120.534	0.009	0.2	0.0066	0.0000	OK
1440 minute winter	S14	810	120.408	0.097	0.1	0.0241	0.0000	OK
1440 minute winter	S15	810	120.408	0.099	2.1	0.0279	0.0000	OK
1440 minute winter	S16	810	120.407	0.127	2.4	0.1834	0.0000	OK
1440 minute winter	ACO	720	120.509	0.009	0.1	0.0013	0.0000	OK
1440 minute winter	S17	810	120.231	0.041	2.4	0.0000	0.0000	OK
1440 minute winter	Tank02	750	120.520	0.020	0.1	1.1168	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
1440 minute winter	S01	1.000	S02	0.2	0.226	0.014	0.0135	
1440 minute winter	S02	1.001	S03	0.4	0.364	0.027	0.0109	
1440 minute winter	S03	1.002	S04	0.5	0.286	0.014	0.0138	
1440 minute winter	S04	1.003	S05	0.7	0.326	0.019	0.0111	
1440 minute winter	S05	1.004	S06	0.9	0.308	0.025	0.1073	
1440 minute winter	S06	1.005	Tank01	1.3	0.522	0.027	0.0261	
1440 minute winter	Tank01	1.006	S15	2.1	0.273	0.132	0.0166	
1440 minute winter	S07	2.000a	Tank02	0.1	0.159	0.018	0.0013	
1440 minute winter	S08	2.001	S09	0.6	0.411	0.039	0.0155	
1440 minute winter	S09	2.002	S10	0.6	0.283	0.040	0.0678	
1440 minute winter	S10	2.003	S11	0.8	0.204	0.051	0.0271	
1440 minute winter	S11	2.004	Tank01	0.8	0.447	0.143	0.0121	
1440 minute winter	S12	3.000	Tank01	0.2	0.451	0.007	0.0004	
1440 minute winter	S14	4.000	Tank01	0.1	0.019	0.018	0.0121	
1440 minute winter	S15	1.007	S16	2.1	0.123	0.048	0.0787	
1440 minute winter	S16	1.008	S17	2.4	0.604	0.168	0.0540	85.5
1440 minute winter	ACO	5.000	S16	0.1	0.133	0.015	0.0178	
1440 minute winter	Tank02	2.000b	S08	0.1	0.136	0.025	0.0014	

Results for 100 year +45% CC 15 minute summer. 255 minute analysis at 1 minute timestep. Mass balance: 99.84%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	S01	10	120.783	0.073	7.1	0.0471	0.0000	OK
15 minute summer	S02	10	120.731	0.126	14.1	0.0707	0.0000	OK
15 minute summer	S03	11	120.601	0.141	15.6	0.0512	0.0000	OK
15 minute summer	S04	11	120.589	0.169	23.6	0.1085	0.0000	OK
15 minute summer	S05	11	120.562	0.167	28.7	0.0845	0.0000	OK
15 minute summer	S06	21	120.497	0.172	41.2	0.1352	0.0000	OK
15 minute summer	Tank01	21	120.497	0.187	73.3	32.0658	0.0000	OK
15 minute summer	S07	14	120.572	0.071	4.1	0.0255	0.0000	OK
15 minute summer	S08	11	120.576	0.077	15.3	0.0690	0.0000	OK
15 minute summer	S09	17	120.508	0.088	7.1	0.0139	0.0000	OK
15 minute summer	S10	18	120.500	0.170	13.9	0.0740	0.0000	SURCHARGED
15 minute summer	S11	20	120.498	0.187	13.9	0.0297	0.0000	SURCHARGED
15 minute summer	S12	10	120.589	0.064	8.2	0.0444	0.0000	OK
15 minute summer	S14	21	120.497	0.186	2.4	0.0463	0.0000	SURCHARGED
15 minute summer	S15	21	120.497	0.188	10.2	0.0532	0.0000	OK
15 minute summer	S16	21	120.497	0.217	13.6	0.3119	0.0000	SURCHARGED
15 minute summer	ACO	10	120.535	0.035	1.8	0.0053	0.0000	OK
15 minute summer	S17	21	120.238	0.048	3.3	0.0000	0.0000	OK
15 minute summer	Tank02	14	120.572	0.072	11.6	4.0622	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	S01	1.000	S02	7.0	0.573	0.476	0.1830	
15 minute summer	S02	1.001	S03	13.8	0.935	0.924	0.1457	
15 minute summer	S03	1.002	S04	15.5	0.537	0.421	0.2282	
15 minute summer	S04	1.003	S05	23.6	0.742	0.656	0.1645	
15 minute summer	S05	1.004	S06	28.8	0.937	0.792	0.4341	
15 minute summer	S06	1.005	Tank01	41.4	2.197	0.860	0.0594	
15 minute summer	Tank01	1.006	S15	-9.9	-1.087	-0.614	0.0354	
15 minute summer	S07	2.000a	Tank02	4.2	0.873	0.762	0.0082	
15 minute summer	S08	2.001	S09	7.1	0.807	0.469	0.0989	
15 minute summer	S09	2.002	S10	7.2	0.537	0.488	0.1819	
15 minute summer	S10	2.003	S11	13.9	0.822	0.911	0.0448	
15 minute summer	S11	2.004	Tank01	17.6	1.499	3.222	0.0176	
15 minute summer	S12	3.000	Tank01	8.2	1.259	0.290	0.0065	
15 minute summer	S14	4.000	Tank01	2.0	0.707	0.360	0.0176	
15 minute summer	S15	1.007	S16	-10.2	-0.521	-0.229	0.1473	
15 minute summer	S16	1.008	S17	3.3	0.655	0.226	0.0672	33.4
15 minute summer	ACO	5.000	S16	1.8	0.567	0.263	0.0500	
15 minute summer	Tank02	2.000b	S08	-8.1	-1.430	-1.487	0.0083	

Results for 100 year +45% CC 15 minute winter. 255 minute analysis at 1 minute timestep. Mass balance: 99.84%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	S01	10	120.784	0.074	7.4	0.0483	0.0000	OK
15 minute winter	S02	10	120.736	0.131	14.7	0.0738	0.0000	OK
15 minute winter	S03	11	120.607	0.147	16.3	0.0534	0.0000	OK
15 minute winter	S04	11	120.595	0.175	24.7	0.1123	0.0000	OK
15 minute winter	S05	11	120.568	0.173	29.9	0.0873	0.0000	OK
15 minute winter	S06	22	120.521	0.196	43.1	0.1542	0.0000	OK
15 minute winter	Tank01	22	120.521	0.211	83.6	36.2078	0.0000	OK
15 minute winter	S07	14	120.580	0.079	4.3	0.0284	0.0000	OK
15 minute winter	S08	12	120.580	0.081	16.1	0.0728	0.0000	OK
15 minute winter	S09	15	120.547	0.127	7.9	0.0202	0.0000	OK
15 minute winter	S10	17	120.527	0.197	14.6	0.0855	0.0000	SURCHARGED
15 minute winter	S11	21	120.522	0.211	14.4	0.0336	0.0000	SURCHARGED
15 minute winter	S12	10	120.591	0.066	8.7	0.0459	0.0000	OK
15 minute winter	S14	22	120.521	0.210	2.5	0.0523	0.0000	SURCHARGED
15 minute winter	S15	22	120.521	0.212	10.7	0.0600	0.0000	OK
15 minute winter	S16	23	120.521	0.241	14.3	0.3466	0.0000	SURCHARGED
15 minute winter	ACO	10	120.536	0.036	1.9	0.0054	0.0000	OK
15 minute winter	S17	23	120.238	0.048	3.3	0.0000	0.0000	OK
15 minute winter	Tank02	14	120.580	0.080	12.3	4.5130	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute winter	S01	1.000	S02	7.3	0.576	0.497	0.1894	
15 minute winter	S02	1.001	S03	14.4	0.945	0.963	0.1500	
15 minute winter	S03	1.002	S04	16.2	0.538	0.439	0.2380	
15 minute winter	S04	1.003	S05	24.6	0.747	0.683	0.1703	
15 minute winter	S05	1.004	S06	30.0	0.943	0.824	0.4489	
15 minute winter	S06	1.005	Tank01	43.0	2.195	0.895	0.0660	
15 minute winter	Tank01	1.006	S15	-10.3	-1.049	-0.642	0.0388	
15 minute winter	S07	2.000a	Tank02	4.2	1.059	0.765	0.0095	
15 minute winter	S08	2.001	S09	7.9	0.811	0.522	0.1345	
15 minute winter	S09	2.002	S10	7.6	0.502	0.512	0.2154	
15 minute winter	S10	2.003	S11	14.4	0.834	0.943	0.0448	
15 minute winter	S11	2.004	Tank01	19.9	1.562	3.626	0.0176	
15 minute winter	S12	3.000	Tank01	8.7	1.277	0.307	0.0068	
15 minute winter	S14	4.000	Tank01	2.0	0.709	0.373	0.0176	
15 minute winter	S15	1.007	S16	-10.7	-0.512	-0.241	0.1550	
15 minute winter	S16	1.008	S17	3.3	0.655	0.227	0.0674	37.0
15 minute winter	ACO	5.000	S16	1.9	0.606	0.275	0.0529	
15 minute winter	Tank02	2.000b	S08	-8.6	-1.396	-1.564	0.0095	

Results for 100 year +45% CC 30 minute summer. 270 minute analysis at 1 minute timestep. Mass balance: 99.84%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
30 minute summer	S01	18	120.779	0.069	6.5	0.0450	0.0000	OK
30 minute summer	S02	18	120.724	0.119	13.0	0.0667	0.0000	OK
30 minute summer	S03	18	120.592	0.132	14.6	0.0479	0.0000	OK
30 minute summer	S04	18	120.580	0.160	22.1	0.1029	0.0000	OK
30 minute summer	S05	34	120.559	0.164	27.0	0.0832	0.0000	OK
30 minute summer	S06	34	120.560	0.235	38.9	0.1844	0.0000	SURCHARGED
30 minute summer	Tank01	34	120.560	0.250	69.0	42.8146	0.0000	SURCHARGED
30 minute summer	S07	22	120.583	0.082	3.8	0.0293	0.0000	OK
30 minute summer	S08	21	120.581	0.082	14.1	0.0742	0.0000	OK
30 minute summer	S09	23	120.565	0.145	8.1	0.0231	0.0000	OK
30 minute summer	S10	33	120.560	0.230	13.4	0.1002	0.0000	SURCHARGED
30 minute summer	S11	34	120.560	0.249	13.2	0.0396	0.0000	SURCHARGED
30 minute summer	S12	18	120.586	0.061	7.6	0.0426	0.0000	OK
30 minute summer	S14	34	120.560	0.249	2.2	0.0619	0.0000	SURCHARGED
30 minute summer	S15	34	120.560	0.251	8.9	0.0709	0.0000	SURCHARGED
30 minute summer	S16	34	120.559	0.279	12.5	0.4021	0.0000	SURCHARGED
30 minute summer	ACO	34	120.560	0.060	1.6	0.0090	0.0000	OK
30 minute summer	S17	71	120.238	0.048	3.3	0.0000	0.0000	OK
30 minute summer	Tank02	22	120.582	0.082	11.3	4.6665	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
30 minute summer	S01	1.000	S02	6.5	0.565	0.440	0.1731	
30 minute summer	S02	1.001	S03	13.0	0.918	0.870	0.1394	
30 minute summer	S03	1.002	S04	14.5	0.534	0.394	0.2136	
30 minute summer	S04	1.003	S05	22.1	0.735	0.614	0.1556	
30 minute summer	S05	1.004	S06	26.9	0.922	0.739	0.4998	
30 minute summer	S06	1.005	Tank01	38.5	1.790	0.801	0.0696	
30 minute summer	Tank01	1.006	S15	-8.5	-0.611	-0.530	0.0398	
30 minute summer	S07	2.000a	Tank02	4.6	0.865	0.832	0.0098	
30 minute summer	S08	2.001	S09	8.1	0.810	0.536	0.1471	
30 minute summer	S09	2.002	S10	7.8	0.524	0.528	0.2254	
30 minute summer	S10	2.003	S11	13.2	0.793	0.861	0.0448	
30 minute summer	S11	2.004	Tank01	15.5	1.221	2.823	0.0176	
30 minute summer	S12	3.000	Tank01	7.6	1.236	0.270	0.0062	
30 minute summer	S14	4.000	Tank01	1.8	0.599	0.331	0.0176	
30 minute summer	S15	1.007	S16	-8.9	-0.398	-0.199	0.1569	
30 minute summer	S16	1.008	S17	3.3	0.656	0.227	0.0674	43.6
30 minute summer	ACO	5.000	S16	1.6	0.574	0.236	0.0681	
30 minute summer	Tank02	2.000b	S08	-7.2	-1.150	-1.311	0.0099	

Results for 100 year +45% CC 30 minute winter. 270 minute analysis at 1 minute timestep. Mass balance: 99.83%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
30 minute winter	S01	18	120.776	0.066	5.9	0.0426	0.0000	OK
30 minute winter	S02	18	120.715	0.109	11.8	0.0615	0.0000	OK
30 minute winter	S03	33	120.586	0.126	13.3	0.0458	0.0000	OK
30 minute winter	S04	33	120.586	0.166	20.2	0.1065	0.0000	OK
30 minute winter	S05	33	120.586	0.191	24.5	0.0967	0.0000	OK
30 minute winter	S06	33	120.586	0.261	35.2	0.2054	0.0000	SURCHARGED
30 minute winter	Tank01	33	120.586	0.276	61.8	47.3736	0.0000	SURCHARGED
30 minute winter	S07	24	120.593	0.092	3.4	0.0330	0.0000	OK
30 minute winter	S08	24	120.592	0.093	12.8	0.0841	0.0000	OK
30 minute winter	S09	31	120.588	0.168	8.3	0.0267	0.0000	SURCHARGED
30 minute winter	S10	32	120.587	0.257	12.8	0.1117	0.0000	SURCHARGED
30 minute winter	S11	33	120.586	0.275	12.5	0.0438	0.0000	SURCHARGED
30 minute winter	S12	35	120.588	0.063	6.9	0.0438	0.0000	OK
30 minute winter	S14	33	120.586	0.275	2.0	0.0685	0.0000	SURCHARGED
30 minute winter	S15	33	120.586	0.277	7.4	0.0784	0.0000	SURCHARGED
30 minute winter	S16	34	120.586	0.306	11.3	0.4404	0.0000	SURCHARGED
30 minute winter	ACO	33	120.586	0.086	1.5	0.0130	0.0000	OK
30 minute winter	S17	104	120.238	0.048	3.3	0.0000	0.0000	OK
30 minute winter	Tank02	24	120.593	0.093	9.6	5.2541	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
30 minute winter	S01	1.000	S02	5.9	0.556	0.400	0.1601	
30 minute winter	S02	1.001	S03	11.8	0.897	0.790	0.1297	
30 minute winter	S03	1.002	S04	13.3	0.534	0.359	0.2130	
30 minute winter	S04	1.003	S05	20.1	0.720	0.558	0.1743	
30 minute winter	S05	1.004	S06	24.4	0.884	0.669	0.5342	
30 minute winter	S06	1.005	Tank01	34.6	1.870	0.719	0.0696	
30 minute winter	Tank01	1.006	S15	-7.1	-0.681	-0.441	0.0398	
30 minute winter	S07	2.000a	Tank02	3.6	0.737	0.657	0.0114	
30 minute winter	S08	2.001	S09	8.3	0.800	0.545	0.1573	
30 minute winter	S09	2.002	S10	7.8	0.502	0.526	0.2264	
30 minute winter	S10	2.003	S11	12.5	0.735	0.815	0.0448	
30 minute winter	S11	2.004	Tank01	12.2	0.984	2.219	0.0176	
30 minute winter	S12	3.000	Tank01	6.9	1.206	0.245	0.0087	
30 minute winter	S14	4.000	Tank01	1.6	0.620	0.301	0.0176	
30 minute winter	S15	1.007	S16	-7.4	-0.346	-0.167	0.1569	
30 minute winter	S16	1.008	S17	3.3	0.656	0.227	0.0674	47.2
30 minute winter	ACO	5.000	S16	1.5	0.581	0.221	0.0803	
30 minute winter	Tank02	2.000b	S08	-6.1	-1.045	-1.110	0.0115	

Results for 100 year +45% CC 60 minute summer. 300 minute analysis at 1 minute timestep. Mass balance: 99.82%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute summer	S01	33	120.770	0.060	5.0	0.0389	0.0000	OK
60 minute summer	S02	33	120.702	0.096	10.0	0.0542	0.0000	OK
60 minute summer	S03	62	120.607	0.147	11.2	0.0535	0.0000	OK
60 minute summer	S04	62	120.607	0.187	17.0	0.1200	0.0000	OK
60 minute summer	S05	62	120.607	0.212	20.6	0.1073	0.0000	OK
60 minute summer	S06	62	120.607	0.282	29.6	0.2218	0.0000	SURCHARGED
60 minute summer	Tank01	62	120.607	0.297	52.2	50.9593	0.0000	SURCHARGED
60 minute summer	S07	63	120.608	0.107	2.9	0.0383	0.0000	OK
60 minute summer	S08	63	120.608	0.109	10.8	0.0980	0.0000	OK
60 minute summer	S09	63	120.608	0.188	7.9	0.0298	0.0000	SURCHARGED
60 minute summer	S10	63	120.607	0.277	11.9	0.1206	0.0000	SURCHARGED
60 minute summer	S11	62	120.607	0.296	11.6	0.0471	0.0000	SURCHARGED
60 minute summer	S12	59	120.609	0.084	5.8	0.0589	0.0000	OK
60 minute summer	S14	62	120.607	0.296	1.7	0.0738	0.0000	SURCHARGED
60 minute summer	S15	62	120.607	0.298	5.7	0.0844	0.0000	SURCHARGED
60 minute summer	S16	62	120.607	0.327	9.5	0.4706	0.0000	SURCHARGED
60 minute summer	ACO	62	120.607	0.107	1.2	0.0161	0.0000	SURCHARGED
60 minute summer	S17	160	120.238	0.048	3.3	0.0000	0.0000	OK
60 minute summer	Tank02	63	120.608	0.108	7.0	6.1111	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
60 minute summer	S01	1.000	S02	5.0	0.541	0.339	0.1401	
60 minute summer	S02	1.001	S03	10.0	0.872	0.670	0.1132	
60 minute summer	S03	1.002	S04	11.2	0.524	0.303	0.2466	
60 minute summer	S04	1.003	S05	16.9	0.688	0.470	0.1918	
60 minute summer	S05	1.004	S06	20.5	0.774	0.562	0.5545	
60 minute summer	S06	1.005	Tank01	29.0	1.612	0.603	0.0696	
60 minute summer	Tank01	1.006	S15	-5.4	-0.441	-0.333	0.0398	
60 minute summer	S07	2.000a	Tank02	2.8	0.743	0.512	0.0135	
60 minute summer	S08	2.001	S09	7.9	0.798	0.519	0.1689	
60 minute summer	S09	2.002	S10	7.6	0.463	0.512	0.2264	
60 minute summer	S10	2.003	S11	11.6	0.658	0.756	0.0448	
60 minute summer	S11	2.004	Tank01	11.3	1.037	2.067	0.0176	
60 minute summer	S12	3.000	Tank01	5.8	1.154	0.206	0.0118	
60 minute summer	S14	4.000	Tank01	1.4	0.527	0.255	0.0176	
60 minute summer	S15	1.007	S16	-5.7	-0.205	-0.127	0.1569	
60 minute summer	S16	1.008	S17	3.3	0.656	0.227	0.0674	52.8
60 minute summer	ACO	5.000	S16	1.2	0.520	0.177	0.0840	
60 minute summer	Tank02	2.000b	S08	-4.3	-0.704	-0.785	0.0136	

Results for 100 year +45% CC 60 minute winter. 300 minute analysis at 1 minute timestep. Mass balance: 99.77%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute winter	S01	34	120.763	0.053	4.0	0.0345	0.0000	OK
60 minute winter	S02	34	120.688	0.083	8.0	0.0468	0.0000	OK
60 minute winter	S03	61	120.640	0.180	9.0	0.0656	0.0000	OK
60 minute winter	S04	61	120.640	0.220	13.7	0.1414	0.0000	OK
60 minute winter	S05	61	120.640	0.245	16.6	0.1241	0.0000	SURCHARGED
60 minute winter	S06	62	120.640	0.315	23.9	0.2479	0.0000	SURCHARGED
60 minute winter	Tank01	62	120.641	0.330	42.7	56.6669	0.0000	SURCHARGED
60 minute winter	S07	62	120.641	0.140	2.4	0.0504	0.0000	OK
60 minute winter	S08	62	120.641	0.142	8.7	0.1282	0.0000	OK
60 minute winter	S09	61	120.641	0.221	7.6	0.0351	0.0000	SURCHARGED
60 minute winter	S10	62	120.641	0.311	11.2	0.1351	0.0000	SURCHARGED
60 minute winter	S11	62	120.641	0.330	10.9	0.0524	0.0000	SURCHARGED
60 minute winter	S12	61	120.641	0.116	4.7	0.0809	0.0000	OK
60 minute winter	S14	62	120.641	0.329	1.3	0.0820	0.0000	SURCHARGED
60 minute winter	S15	61	120.640	0.331	4.0	0.0938	0.0000	SURCHARGED
60 minute winter	S16	61	120.640	0.360	7.7	0.5186	0.0000	SURCHARGED
60 minute winter	ACO	61	120.640	0.140	1.0	0.0212	0.0000	SURCHARGED
60 minute winter	S17	201	120.238	0.048	3.3	0.0000	0.0000	OK
60 minute winter	Tank02	62	120.641	0.141	4.9	8.0123	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
60 minute winter	S01	1.000	S02	4.0	0.515	0.271	0.1180	
60 minute winter	S02	1.001	S03	8.0	0.830	0.536	0.0952	
60 minute winter	S03	1.002	S04	9.0	0.518	0.244	0.2893	
60 minute winter	S04	1.003	S05	13.6	0.660	0.379	0.2052	
60 minute winter	S05	1.004	S06	16.5	0.714	0.452	0.5611	
60 minute winter	S06	1.005	Tank01	23.4	1.669	0.486	0.0696	
60 minute winter	Tank01	1.006	S15	-3.7	-0.526	-0.231	0.0398	
60 minute winter	S07	2.000a	Tank02	2.3	0.768	0.427	0.0172	
60 minute winter	S08	2.001	S09	7.6	0.768	0.504	0.1883	
60 minute winter	S09	2.002	S10	7.2	0.443	0.484	0.2264	
60 minute winter	S10	2.003	S11	10.9	0.619	0.712	0.0448	
60 minute winter	S11	2.004	Tank01	10.6	1.057	1.944	0.0176	
60 minute winter	S12	3.000	Tank01	5.0	1.092	0.177	0.0159	
60 minute winter	S14	4.000	Tank01	1.1	0.508	0.196	0.0176	
60 minute winter	S15	1.007	S16	-4.0	-0.167	-0.089	0.1569	
60 minute winter	S16	1.008	S17	3.3	0.656	0.227	0.0674	54.6
60 minute winter	ACO	5.000	S16	1.0	0.520	0.147	0.0840	
60 minute winter	Tank02	2.000b	S08	-2.8	-0.656	-0.513	0.0172	

Results for 100 year +45% CC 120 minute summer. 360 minute analysis at 2 minute timestep. Mass balance: 99.79%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
120 minute summer	S01	64	120.758	0.048	3.3	0.0312	0.0000	OK
120 minute summer	S02	64	120.679	0.074	6.6	0.0416	0.0000	OK
120 minute summer	S03	120	120.642	0.182	7.4	0.0661	0.0000	OK
120 minute summer	S04	120	120.642	0.222	11.2	0.1422	0.0000	OK
120 minute summer	S05	120	120.642	0.246	13.4	0.1247	0.0000	SURCHARGED
120 minute summer	S06	122	120.641	0.316	19.0	0.2487	0.0000	SURCHARGED
120 minute summer	Tank01	122	120.641	0.331	35.0	56.8245	0.0000	SURCHARGED
120 minute summer	S07	122	120.642	0.141	1.9	0.0506	0.0000	OK
120 minute summer	S08	122	120.642	0.143	7.1	0.1288	0.0000	OK
120 minute summer	S09	122	120.642	0.222	6.9	0.0353	0.0000	SURCHARGED
120 minute summer	S10	122	120.642	0.312	9.8	0.1355	0.0000	SURCHARGED
120 minute summer	S11	122	120.641	0.330	9.6	0.0525	0.0000	SURCHARGED
120 minute summer	S12	122	120.641	0.116	3.8	0.0812	0.0000	OK
120 minute summer	S14	122	120.641	0.330	1.1	0.0823	0.0000	SURCHARGED
120 minute summer	S15	122	120.641	0.332	3.2	0.0940	0.0000	SURCHARGED
120 minute summer	S16	120	120.641	0.361	6.3	0.5199	0.0000	SURCHARGED
120 minute summer	ACO	120	120.641	0.141	0.8	0.0213	0.0000	SURCHARGED
120 minute summer	S17	66	120.238	0.048	3.3	0.0000	0.0000	OK
120 minute summer	Tank02	122	120.642	0.142	3.3	8.0550	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
120 minute summer	S01	1.000	S02	3.3	0.492	0.224	0.1021	
120 minute summer	S02	1.001	S03	6.6	0.793	0.442	0.0825	
120 minute summer	S03	1.002	S04	7.4	0.504	0.199	0.2906	
120 minute summer	S04	1.003	S05	10.9	0.635	0.304	0.2054	
120 minute summer	S05	1.004	S06	13.0	0.579	0.358	0.5611	
120 minute summer	S06	1.005	Tank01	18.6	1.413	0.386	0.0696	
120 minute summer	Tank01	1.006	S15	3.2	-0.288	0.201	0.0398	
120 minute summer	S07	2.000a	Tank02	1.9	0.649	0.341	0.0172	
120 minute summer	S08	2.001	S09	6.9	0.739	0.457	0.1886	
120 minute summer	S09	2.002	S10	6.5	0.375	0.440	0.2264	
120 minute summer	S10	2.003	S11	9.6	0.545	0.627	0.0448	
120 minute summer	S11	2.004	Tank01	9.4	0.725	1.713	0.0176	
120 minute summer	S12	3.000	Tank01	4.5	1.033	0.161	0.0159	
120 minute summer	S14	4.000	Tank01	0.9	0.461	0.165	0.0176	
120 minute summer	S15	1.007	S16	3.3	0.115	0.073	0.1569	
120 minute summer	S16	1.008	S17	3.3	0.656	0.227	0.0674	62.2
120 minute summer	ACO	5.000	S16	0.8	0.384	0.118	0.0840	
120 minute summer	Tank02	2.000b	S08	-2.3	-0.392	-0.421	0.0173	

Results for 100 year +45% CC 120 minute winter. 360 minute analysis at 2 minute timestep. Mass balance: 99.69%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
120 minute winter	S01	64	120.752	0.042	2.5	0.0270	0.0000	OK
120 minute winter	S02	118	120.693	0.088	5.0	0.0493	0.0000	OK
120 minute winter	S03	118	120.693	0.233	5.6	0.0847	0.0000	SURCHARGED
120 minute winter	S04	118	120.693	0.273	8.5	0.1751	0.0000	SURCHARGED
120 minute winter	S05	118	120.693	0.298	10.2	0.1506	0.0000	SURCHARGED
120 minute winter	S06	120	120.693	0.368	14.3	0.2890	0.0000	SURCHARGED
120 minute winter	Tank01	120	120.693	0.383	26.6	65.6252	0.0000	SURCHARGED
120 minute winter	S07	118	120.693	0.192	1.5	0.0690	0.0000	SURCHARGED
120 minute winter	S08	118	120.693	0.194	6.0	0.1751	0.0000	SURCHARGED
120 minute winter	S09	118	120.693	0.273	5.9	0.0434	0.0000	SURCHARGED
120 minute winter	S10	118	120.693	0.363	8.2	0.1579	0.0000	SURCHARGED
120 minute winter	S11	118	120.693	0.382	8.0	0.0607	0.0000	SURCHARGED
120 minute winter	S12	120	120.693	0.168	3.6	0.1171	0.0000	SURCHARGED
120 minute winter	S14	120	120.693	0.382	0.8	0.0950	0.0000	SURCHARGED
120 minute winter	S15	120	120.693	0.384	3.2	0.1086	0.0000	SURCHARGED
120 minute winter	S16	118	120.692	0.412	4.8	0.5938	0.0000	SURCHARGED
120 minute winter	ACO	118	120.692	0.192	0.6	0.0291	0.0000	FLOOD RISK
120 minute winter	S17	64	120.238	0.048	3.3	0.0000	0.0000	OK
120 minute winter	Tank02	118	120.693	0.193	5.1	8.5356	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
120 minute winter	S01	1.000	S02	2.5	0.459	0.169	0.0887	
120 minute winter	S02	1.001	S03	5.0	0.740	0.335	0.1399	
120 minute winter	S03	1.002	S04	5.5	0.485	0.150	0.3126	
120 minute winter	S04	1.003	S05	8.3	0.613	0.230	0.2059	
120 minute winter	S05	1.004	S06	9.8	0.549	0.269	0.5611	
120 minute winter	S06	1.005	Tank01	14.0	1.433	0.291	0.0696	
120 minute winter	Tank01	1.006	S15	3.2	-0.352	0.201	0.0398	
120 minute winter	S07	2.000a	Tank02	1.5	0.640	0.271	0.0176	
120 minute winter	S08	2.001	S09	5.9	0.714	0.393	0.1901	
120 minute winter	S09	2.002	S10	5.7	0.374	0.382	0.2264	
120 minute winter	S10	2.003	S11	8.0	0.454	0.522	0.0448	
120 minute winter	S11	2.004	Tank01	7.8	0.895	1.431	0.0176	
120 minute winter	S12	3.000	Tank01	4.7	0.971	0.166	0.0176	
120 minute winter	S14	4.000	Tank01	0.7	0.445	0.122	0.0176	
120 minute winter	S15	1.007	S16	3.3	0.089	0.073	0.1569	
120 minute winter	S16	1.008	S17	3.3	0.656	0.227	0.0674	62.6
120 minute winter	ACO	5.000	S16	0.6	0.433	0.088	0.0840	
120 minute winter	Tank02	2.000b	S08	-4.2	-0.447	-0.766	0.0176	

Results for 100 year +45% CC 180 minute summer. 420 minute analysis at 4 minute timestep. Mass balance: 99.79%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
180 minute summer	S01	96	120.751	0.041	2.4	0.0265	0.0000	OK
180 minute summer	S02	96	120.666	0.061	4.8	0.0345	0.0000	OK
180 minute summer	S03	172	120.651	0.191	5.4	0.0695	0.0000	OK
180 minute summer	S04	172	120.651	0.231	8.1	0.1483	0.0000	SURCHARGED
180 minute summer	S05	168	120.651	0.256	9.7	0.1296	0.0000	SURCHARGED
180 minute summer	S06	168	120.651	0.326	13.8	0.2562	0.0000	SURCHARGED
180 minute summer	Tank01	168	120.651	0.341	25.4	58.4687	0.0000	SURCHARGED
180 minute summer	S07	168	120.652	0.151	1.4	0.0540	0.0000	SURCHARGED
180 minute summer	S08	168	120.652	0.152	5.5	0.1374	0.0000	SURCHARGED
180 minute summer	S09	168	120.651	0.231	5.5	0.0368	0.0000	SURCHARGED
180 minute summer	S10	168	120.651	0.321	7.9	0.1397	0.0000	SURCHARGED
180 minute summer	S11	168	120.651	0.340	7.8	0.0541	0.0000	SURCHARGED
180 minute summer	S12	168	120.651	0.126	2.8	0.0879	0.0000	OK
180 minute summer	S14	168	120.651	0.340	0.8	0.0847	0.0000	SURCHARGED
180 minute summer	S15	168	120.651	0.342	3.2	0.0968	0.0000	SURCHARGED
180 minute summer	S16	168	120.651	0.371	4.7	0.5338	0.0000	SURCHARGED
180 minute summer	ACO	168	120.651	0.151	0.6	0.0228	0.0000	FLOOD RISK
180 minute summer	S17	336	120.238	0.048	3.3	0.0000	0.0000	OK
180 minute summer	Tank02	168	120.652	0.152	3.9	8.5356	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
180 minute summer	S01	1.000	S02	2.4	0.454	0.163	0.0805	
180 minute summer	S02	1.001	S03	4.8	0.733	0.322	0.0949	
180 minute summer	S03	1.002	S04	5.3	0.478	0.143	0.2976	
180 minute summer	S04	1.003	S05	7.9	0.591	0.219	0.2059	
180 minute summer	S05	1.004	S06	9.3	0.465	0.256	0.5611	
180 minute summer	S06	1.005	Tank01	13.5	1.222	0.280	0.0696	
180 minute summer	Tank01	1.006	S15	3.2	-0.247	0.201	0.0398	
180 minute summer	S07	2.000a	Tank02	1.4	0.515	0.252	0.0176	
180 minute summer	S08	2.001	S09	5.5	0.691	0.365	0.1901	
180 minute summer	S09	2.002	S10	5.5	0.318	0.373	0.2264	
180 minute summer	S10	2.003	S11	7.8	0.445	0.512	0.0448	
180 minute summer	S11	2.004	Tank01	7.7	0.608	1.405	0.0176	
180 minute summer	S12	3.000	Tank01	4.5	0.954	0.160	0.0167	
180 minute summer	S14	4.000	Tank01	0.7	0.400	0.120	0.0176	
180 minute summer	S15	1.007	S16	3.3	0.108	0.073	0.1569	
180 minute summer	S16	1.008	S17	3.3	0.656	0.227	0.0674	70.3
180 minute summer	ACO	5.000	S16	0.6	0.343	0.087	0.0840	
180 minute summer	Tank02	2.000b	S08	-3.1	-0.328	-0.574	0.0176	

Results for 100 year +45% CC 180 minute winter. 420 minute analysis at 4 minute timestep. Mass balance: 99.68%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
180 minute winter	S01	96	120.746	0.036	1.9	0.0235	0.0000	OK
180 minute winter	S02	176	120.709	0.104	3.8	0.0586	0.0000	OK
180 minute winter	S03	176	120.709	0.249	4.3	0.0908	0.0000	SURCHARGED
180 minute winter	S04	176	120.709	0.289	6.4	0.1858	0.0000	SURCHARGED
180 minute winter	S05	176	120.709	0.314	7.6	0.1590	0.0000	SURCHARGED
180 minute winter	S06	176	120.709	0.384	10.7	0.3020	0.0000	SURCHARGED
180 minute winter	Tank01	176	120.709	0.399	19.3	68.4617	0.0000	SURCHARGED
180 minute winter	S07	176	120.710	0.209	1.1	0.0749	0.0000	SURCHARGED
180 minute winter	S08	176	120.710	0.211	4.7	0.1898	0.0000	SURCHARGED
180 minute winter	S09	176	120.710	0.290	4.7	0.0460	0.0000	SURCHARGED
180 minute winter	S10	176	120.709	0.379	6.4	0.1650	0.0000	SURCHARGED
180 minute winter	S11	176	120.709	0.398	6.3	0.0633	0.0000	SURCHARGED
180 minute winter	S12	176	120.709	0.184	2.2	0.1286	0.0000	SURCHARGED
180 minute winter	S14	176	120.709	0.398	0.6	0.0992	0.0000	SURCHARGED
180 minute winter	S15	176	120.709	0.400	3.2	0.1132	0.0000	SURCHARGED
180 minute winter	S16	176	120.709	0.429	3.5	0.6177	0.0000	SURCHARGED
180 minute winter	ACO	176	120.709	0.209	0.5	0.0316	0.0000	FLOOD RISK
180 minute winter	S17	392	120.238	0.048	3.3	0.0000	0.0000	OK
180 minute winter	Tank02	176	120.710	0.210	4.8	8.5356	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
180 minute winter	S01	1.000	S02	1.9	0.427	0.129	0.1053	
180 minute winter	S02	1.001	S03	3.8	0.689	0.255	0.1516	
180 minute winter	S03	1.002	S04	4.2	0.451	0.113	0.3126	
180 minute winter	S04	1.003	S05	6.2	0.567	0.171	0.2059	
180 minute winter	S05	1.004	S06	7.3	0.466	0.201	0.5611	
180 minute winter	S06	1.005	Tank01	10.6	1.222	0.220	0.0696	
180 minute winter	Tank01	1.006	S15	3.2	-0.277	0.201	0.0398	
180 minute winter	S07	2.000a	Tank02	1.1	0.572	0.199	0.0176	
180 minute winter	S08	2.001	S09	4.7	0.662	0.311	0.1901	
180 minute winter	S09	2.002	S10	4.5	0.341	0.305	0.2264	
180 minute winter	S10	2.003	S11	6.3	0.393	0.412	0.0448	
180 minute winter	S11	2.004	Tank01	6.2	0.779	1.131	0.0176	
180 minute winter	S12	3.000	Tank01	4.1	0.894	0.145	0.0176	
180 minute winter	S14	4.000	Tank01	0.5	0.340	0.093	0.0176	
180 minute winter	S15	1.007	S16	3.3	0.084	0.073	0.1569	
180 minute winter	S16	1.008	S17	3.3	0.656	0.227	0.0674	70.6
180 minute winter	ACO	5.000	S16	0.5	0.383	0.073	0.0840	
180 minute winter	Tank02	2.000b	S08	-3.9	-0.375	-0.705	0.0176	

Results for 100 year +45% CC 240 minute summer. 480 minute analysis at 4 minute timestep. Mass balance: 99.82%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
240 minute summer	S01	124	120.748	0.038	2.1	0.0247	0.0000	OK
240 minute summer	S02	124	120.662	0.057	4.2	0.0318	0.0000	OK
240 minute summer	S03	200	120.650	0.190	4.6	0.0693	0.0000	OK
240 minute summer	S04	196	120.650	0.230	6.9	0.1478	0.0000	SURCHARGED
240 minute summer	S05	196	120.650	0.255	8.2	0.1292	0.0000	SURCHARGED
240 minute summer	S06	196	120.650	0.325	11.6	0.2556	0.0000	SURCHARGED
240 minute summer	Tank01	196	120.650	0.340	21.0	58.3369	0.0000	SURCHARGED
240 minute summer	S07	200	120.651	0.150	1.2	0.0537	0.0000	OK
240 minute summer	S08	200	120.651	0.152	4.8	0.1367	0.0000	SURCHARGED
240 minute summer	S09	200	120.651	0.231	4.8	0.0367	0.0000	SURCHARGED
240 minute summer	S10	196	120.650	0.320	6.7	0.1393	0.0000	SURCHARGED
240 minute summer	S11	196	120.650	0.339	6.5	0.0539	0.0000	SURCHARGED
240 minute summer	S12	196	120.650	0.125	2.4	0.0874	0.0000	OK
240 minute summer	S14	196	120.650	0.339	0.7	0.0845	0.0000	SURCHARGED
240 minute summer	S15	196	120.650	0.341	3.2	0.0965	0.0000	SURCHARGED
240 minute summer	S16	196	120.650	0.370	3.9	0.5326	0.0000	SURCHARGED
240 minute summer	ACO	196	120.650	0.150	0.5	0.0226	0.0000	SURCHARGED
240 minute summer	S17	388	120.238	0.048	3.3	0.0000	0.0000	OK
240 minute summer	Tank02	200	120.651	0.151	3.8	8.5332	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
240 minute summer	S01	1.000	S02	2.1	0.439	0.141	0.0724	
240 minute summer	S02	1.001	S03	4.1	0.705	0.278	0.0939	
240 minute summer	S03	1.002	S04	4.5	0.453	0.122	0.2971	
240 minute summer	S04	1.003	S05	6.7	0.558	0.185	0.2059	
240 minute summer	S05	1.004	S06	7.8	0.394	0.215	0.5611	
240 minute summer	S06	1.005	Tank01	11.4	1.104	0.237	0.0696	
240 minute summer	Tank01	1.006	S15	3.2	0.128	0.201	0.0398	
240 minute summer	S07	2.000a	Tank02	1.2	0.518	0.217	0.0176	
240 minute summer	S08	2.001	S09	4.8	0.640	0.317	0.1901	
240 minute summer	S09	2.002	S10	4.6	0.309	0.309	0.2264	
240 minute summer	S10	2.003	S11	6.5	0.372	0.428	0.0448	
240 minute summer	S11	2.004	Tank01	6.4	0.714	1.173	0.0176	
240 minute summer	S12	3.000	Tank01	3.3	0.914	0.117	0.0167	
240 minute summer	S14	4.000	Tank01	0.6	0.413	0.105	0.0176	
240 minute summer	S15	1.007	S16	3.3	0.113	0.073	0.1569	
240 minute summer	S16	1.008	S17	3.3	0.656	0.227	0.0674	78.4
240 minute summer	ACO	5.000	S16	0.5	0.312	0.073	0.0840	
240 minute summer	Tank02	2.000b	S08	-3.1	0.322	-0.558	0.0176	

Results for 100 year +45% CC 240 minute winter. 480 minute analysis at 4 minute timestep. Mass balance: 99.70%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
240 minute winter	S01	120	120.742	0.032	1.5	0.0209	0.0000	OK
240 minute winter	S02	228	120.711	0.106	3.0	0.0594	0.0000	OK
240 minute winter	S03	228	120.711	0.251	3.4	0.0912	0.0000	SURCHARGED
240 minute winter	S04	228	120.711	0.291	5.1	0.1866	0.0000	SURCHARGED
240 minute winter	S05	228	120.711	0.316	6.1	0.1597	0.0000	SURCHARGED
240 minute winter	S06	228	120.711	0.386	8.7	0.3031	0.0000	SURCHARGED
240 minute winter	Tank01	228	120.711	0.401	15.6	68.6583	0.0000	SURCHARGED
240 minute winter	S07	228	120.711	0.210	0.9	0.0754	0.0000	SURCHARGED
240 minute winter	S08	228	120.711	0.212	3.8	0.1910	0.0000	SURCHARGED
240 minute winter	S09	228	120.711	0.291	3.8	0.0462	0.0000	SURCHARGED
240 minute winter	S10	228	120.711	0.381	5.2	0.1656	0.0000	SURCHARGED
240 minute winter	S11	228	120.711	0.400	5.1	0.0635	0.0000	SURCHARGED
240 minute winter	S12	228	120.711	0.186	2.8	0.1295	0.0000	SURCHARGED
240 minute winter	S14	228	120.711	0.400	0.5	0.0995	0.0000	SURCHARGED
240 minute winter	S15	228	120.711	0.401	3.2	0.1136	0.0000	SURCHARGED
240 minute winter	S16	228	120.710	0.430	3.5	0.6196	0.0000	SURCHARGED
240 minute winter	ACO	228	120.710	0.210	0.4	0.0318	0.0000	FLOOD RISK
240 minute winter	S17	448	120.238	0.048	3.3	0.0000	0.0000	OK
240 minute winter	Tank02	228	120.711	0.211	4.0	8.5356	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
240 minute winter	S01	1.000	S02	1.5	0.407	0.102	0.1067	
240 minute winter	S02	1.001	S03	3.0	0.647	0.201	0.1525	
240 minute winter	S03	1.002	S04	3.3	0.427	0.090	0.3126	
240 minute winter	S04	1.003	S05	5.0	0.526	0.138	0.2059	
240 minute winter	S05	1.004	S06	5.9	0.413	0.162	0.5611	
240 minute winter	S06	1.005	Tank01	8.6	1.174	0.179	0.0696	
240 minute winter	Tank01	1.006	S15	3.2	-0.169	0.201	0.0398	
240 minute winter	S07	2.000a	Tank02	0.9	0.484	0.163	0.0176	
240 minute winter	S08	2.001	S09	3.8	0.632	0.252	0.1901	
240 minute winter	S09	2.002	S10	3.7	0.320	0.248	0.2264	
240 minute winter	S10	2.003	S11	5.1	0.382	0.333	0.0448	
240 minute winter	S11	2.004	Tank01	5.0	0.821	0.914	0.0176	
240 minute winter	S12	3.000	Tank01	4.8	0.836	0.170	0.0176	
240 minute winter	S14	4.000	Tank01	0.5	0.378	0.083	0.0176	
240 minute winter	S15	1.007	S16	3.3	0.085	0.073	0.1569	
240 minute winter	S16	1.008	S17	3.3	0.655	0.227	0.0674	79.2
240 minute winter	ACO	5.000	S16	0.4	0.312	0.058	0.0840	
240 minute winter	Tank02	2.000b	S08	-3.3	-0.349	-0.594	0.0176	

Results for 100 year +45% CC 360 minute summer. 600 minute analysis at 8 minute timestep. Mass balance: 99.87%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
360 minute summer	S01	184	120.743	0.033	1.6	0.0215	0.0000	OK
360 minute summer	S02	184	120.654	0.049	3.2	0.0274	0.0000	OK
360 minute summer	S03	264	120.646	0.186	3.6	0.0675	0.0000	OK
360 minute summer	S04	264	120.646	0.226	5.3	0.1448	0.0000	SURCHARGED
360 minute summer	S05	264	120.646	0.251	6.3	0.1268	0.0000	SURCHARGED
360 minute summer	S06	264	120.645	0.320	8.8	0.2519	0.0000	SURCHARGED
360 minute summer	Tank01	264	120.645	0.335	15.9	57.5157	0.0000	SURCHARGED
360 minute summer	S07	264	120.646	0.145	0.9	0.0520	0.0000	OK
360 minute summer	S08	264	120.646	0.147	3.8	0.1324	0.0000	OK
360 minute summer	S09	264	120.646	0.226	3.7	0.0359	0.0000	SURCHARGED
360 minute summer	S10	264	120.646	0.316	5.2	0.1373	0.0000	SURCHARGED
360 minute summer	S11	264	120.646	0.334	5.1	0.0532	0.0000	SURCHARGED
360 minute summer	S12	264	120.645	0.120	3.0	0.0841	0.0000	OK
360 minute summer	S14	264	120.645	0.334	0.5	0.0833	0.0000	SURCHARGED
360 minute summer	S15	264	120.645	0.336	3.2	0.0952	0.0000	SURCHARGED
360 minute summer	S16	264	120.645	0.365	3.4	0.5257	0.0000	SURCHARGED
360 minute summer	ACO	264	120.645	0.145	0.4	0.0219	0.0000	SURCHARGED
360 minute summer	S17	480	120.238	0.048	3.3	0.0000	0.0000	OK
360 minute summer	Tank02	264	120.646	0.146	2.9	8.2773	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
360 minute summer	S01	1.000	S02	1.6	0.408	0.108	0.0593	
360 minute summer	S02	1.001	S03	3.2	0.656	0.212	0.0877	
360 minute summer	S03	1.002	S04	3.5	0.418	0.094	0.2938	
360 minute summer	S04	1.003	S05	5.1	0.495	0.141	0.2058	
360 minute summer	S05	1.004	S06	6.0	0.356	0.166	0.5611	
360 minute summer	S06	1.005	Tank01	8.6	0.984	0.180	0.0696	
360 minute summer	Tank01	1.006	S15	3.2	0.172	0.202	0.0398	
360 minute summer	S07	2.000a	Tank02	0.9	0.475	0.163	0.0175	
360 minute summer	S08	2.001	S09	3.7	0.614	0.247	0.1897	
360 minute summer	S09	2.002	S10	3.6	0.303	0.243	0.2264	
360 minute summer	S10	2.003	S11	5.1	0.328	0.333	0.0448	
360 minute summer	S11	2.004	Tank01	5.0	0.740	0.915	0.0176	
360 minute summer	S12	3.000	Tank01	1.8	0.846	0.064	0.0163	
360 minute summer	S14	4.000	Tank01	0.4	0.088	0.075	0.0176	
360 minute summer	S15	1.007	S16	3.3	0.120	0.073	0.1569	
360 minute summer	S16	1.008	S17	3.3	0.655	0.227	0.0674	93.7
360 minute summer	ACO	5.000	S16	0.3	0.312	0.051	0.0840	
360 minute summer	Tank02	2.000b	S08	-2.3	0.307	-0.427	0.0175	

Results for 100 year +45% CC 360 minute winter. 600 minute analysis at 8 minute timestep. Mass balance: 99.80%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
360 minute winter	S01	184	120.738	0.028	1.1	0.0180	0.0000	OK
360 minute winter	S02	288	120.699	0.094	2.2	0.0530	0.0000	OK
360 minute winter	S03	288	120.699	0.239	2.5	0.0871	0.0000	SURCHARGED
360 minute winter	S04	288	120.699	0.279	3.7	0.1793	0.0000	SURCHARGED
360 minute winter	S05	288	120.699	0.304	4.4	0.1540	0.0000	SURCHARGED
360 minute winter	S06	288	120.699	0.374	6.4	0.2941	0.0000	SURCHARGED
360 minute winter	Tank01	288	120.699	0.389	11.5	66.7341	0.0000	SURCHARGED
360 minute winter	S07	288	120.700	0.199	0.7	0.0713	0.0000	SURCHARGED
360 minute winter	S08	288	120.700	0.201	2.9	0.1808	0.0000	SURCHARGED
360 minute winter	S09	288	120.700	0.280	2.9	0.0444	0.0000	SURCHARGED
360 minute winter	S10	288	120.699	0.369	3.9	0.1607	0.0000	SURCHARGED
360 minute winter	S11	288	120.699	0.388	3.8	0.0617	0.0000	SURCHARGED
360 minute winter	S12	288	120.699	0.174	1.9	0.1216	0.0000	SURCHARGED
360 minute winter	S14	288	120.699	0.388	0.4	0.0967	0.0000	SURCHARGED
360 minute winter	S15	288	120.699	0.390	3.2	0.1104	0.0000	SURCHARGED
360 minute winter	S16	288	120.699	0.419	3.4	0.6032	0.0000	SURCHARGED
360 minute winter	ACO	288	120.699	0.199	0.3	0.0300	0.0000	FLOOD RISK
360 minute winter	S17	544	120.238	0.048	3.3	0.0000	0.0000	OK
360 minute winter	Tank02	288	120.700	0.200	2.9	8.5356	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
360 minute winter	S01	1.000	S02	1.1	0.369	0.075	0.0945	
360 minute winter	S02	1.001	S03	2.2	0.595	0.148	0.1446	
360 minute winter	S03	1.002	S04	2.4	0.399	0.066	0.3126	
360 minute winter	S04	1.003	S05	3.6	0.479	0.101	0.2059	
360 minute winter	S05	1.004	S06	4.4	0.368	0.120	0.5611	
360 minute winter	S06	1.005	Tank01	6.3	0.995	0.132	0.0696	
360 minute winter	Tank01	1.006	S15	3.2	0.121	0.201	0.0398	
360 minute winter	S07	2.000a	Tank02	0.7	0.491	0.122	0.0176	
360 minute winter	S08	2.001	S09	2.9	0.586	0.188	0.1901	
360 minute winter	S09	2.002	S10	2.8	0.311	0.186	0.2264	
360 minute winter	S10	2.003	S11	3.8	0.350	0.248	0.0448	
360 minute winter	S11	2.004	Tank01	3.7	0.787	0.682	0.0176	
360 minute winter	S12	3.000	Tank01	3.6	0.757	0.128	0.0176	
360 minute winter	S14	4.000	Tank01	0.4	0.304	0.071	0.0176	
360 minute winter	S15	1.007	S16	3.3	0.095	0.073	0.1569	
360 minute winter	S16	1.008	S17	3.3	0.655	0.227	0.0674	96.1
360 minute winter	ACO	5.000	S16	0.3	0.312	0.043	0.0840	
360 minute winter	Tank02	2.000b	S08	-2.3	0.309	-0.429	0.0176	

Results for 100 year +45% CC 480 minute summer. 720 minute analysis at 8 minute timestep. Mass balance: 99.91%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
480 minute summer	S01	248	120.739	0.029	1.2	0.0187	0.0000	OK
480 minute summer	S02	248	120.647	0.042	2.4	0.0236	0.0000	OK
480 minute summer	S03	336	120.640	0.180	2.7	0.0655	0.0000	OK
480 minute summer	S04	336	120.640	0.220	4.0	0.1412	0.0000	OK
480 minute summer	S05	336	120.640	0.245	4.8	0.1239	0.0000	SURCHARGED
480 minute summer	S06	336	120.640	0.315	6.8	0.2475	0.0000	SURCHARGED
480 minute summer	Tank01	336	120.640	0.330	12.3	56.5598	0.0000	SURCHARGED
480 minute summer	S07	336	120.640	0.139	0.7	0.0500	0.0000	OK
480 minute summer	S08	336	120.640	0.141	2.9	0.1274	0.0000	OK
480 minute summer	S09	336	120.640	0.220	2.9	0.0350	0.0000	SURCHARGED
480 minute summer	S10	336	120.640	0.310	4.0	0.1349	0.0000	SURCHARGED
480 minute summer	S11	336	120.640	0.329	3.9	0.0523	0.0000	SURCHARGED
480 minute summer	S12	336	120.640	0.115	2.0	0.0801	0.0000	OK
480 minute summer	S14	336	120.640	0.329	0.4	0.0819	0.0000	SURCHARGED
480 minute summer	S15	336	120.640	0.331	3.2	0.0936	0.0000	SURCHARGED
480 minute summer	S16	336	120.640	0.360	3.4	0.5177	0.0000	SURCHARGED
480 minute summer	ACO	336	120.640	0.140	0.3	0.0211	0.0000	SURCHARGED
480 minute summer	S17	552	120.238	0.048	3.3	0.0000	0.0000	OK
480 minute summer	Tank02	336	120.640	0.140	2.7	7.9623	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
480 minute summer	S01	1.000	S02	1.2	0.378	0.081	0.0484	
480 minute summer	S02	1.001	S03	2.4	0.609	0.161	0.0804	
480 minute summer	S03	1.002	S04	2.6	0.391	0.071	0.2891	
480 minute summer	S04	1.003	S05	3.9	0.479	0.108	0.2052	
480 minute summer	S05	1.004	S06	4.6	0.332	0.127	0.5611	
480 minute summer	S06	1.005	Tank01	6.7	0.967	0.140	0.0696	
480 minute summer	Tank01	1.006	S15	3.2	0.167	0.202	0.0398	
480 minute summer	S07	2.000a	Tank02	0.7	0.489	0.127	0.0171	
480 minute summer	S08	2.001	S09	2.9	0.578	0.192	0.1880	
480 minute summer	S09	2.002	S10	2.8	0.314	0.189	0.2264	
480 minute summer	S10	2.003	S11	3.9	0.304	0.257	0.0448	
480 minute summer	S11	2.004	Tank01	3.9	0.693	0.706	0.0176	
480 minute summer	S12	3.000	Tank01	2.3	0.790	0.082	0.0158	
480 minute summer	S14	4.000	Tank01	0.4	-0.067	0.069	0.0176	
480 minute summer	S15	1.007	S16	3.3	0.122	0.073	0.1569	
480 minute summer	S16	1.008	S17	3.3	0.655	0.227	0.0674	106.9
480 minute summer	ACO	5.000	S16	0.3	0.312	0.044	0.0840	
480 minute summer	Tank02	2.000b	S08	-2.1	0.324	-0.392	0.0172	

Results for 100 year +45% CC 480 minute winter. 720 minute analysis at 8 minute timestep. Mass balance: 99.87%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
480 minute winter	S01	240	120.735	0.025	0.9	0.0163	0.0000	OK
480 minute winter	S02	360	120.683	0.077	1.8	0.0436	0.0000	OK
480 minute winter	S03	360	120.683	0.222	2.0	0.0810	0.0000	OK
480 minute winter	S04	360	120.683	0.262	3.1	0.1685	0.0000	SURCHARGED
480 minute winter	S05	360	120.683	0.287	3.7	0.1455	0.0000	SURCHARGED
480 minute winter	S06	360	120.682	0.357	5.3	0.2809	0.0000	SURCHARGED
480 minute winter	Tank01	360	120.682	0.372	9.2	63.8549	0.0000	SURCHARGED
480 minute winter	S07	360	120.683	0.182	0.5	0.0653	0.0000	SURCHARGED
480 minute winter	S08	360	120.683	0.184	2.3	0.1656	0.0000	SURCHARGED
480 minute winter	S09	360	120.683	0.263	2.3	0.0418	0.0000	SURCHARGED
480 minute winter	S10	360	120.683	0.353	3.1	0.1534	0.0000	SURCHARGED
480 minute winter	S11	360	120.682	0.371	3.1	0.0591	0.0000	SURCHARGED
480 minute winter	S12	360	120.682	0.157	2.2	0.1099	0.0000	SURCHARGED
480 minute winter	S14	360	120.682	0.371	0.3	0.0925	0.0000	SURCHARGED
480 minute winter	S15	360	120.682	0.373	3.2	0.1056	0.0000	SURCHARGED
480 minute winter	S16	360	120.682	0.402	3.4	0.5790	0.0000	SURCHARGED
480 minute winter	ACO	360	120.682	0.182	0.2	0.0275	0.0000	FLOOD RISK
480 minute winter	S17	624	120.238	0.048	3.3	0.0000	0.0000	OK
480 minute winter	Tank02	360	120.683	0.183	2.1	8.5356	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
480 minute winter	S01	1.000	S02	0.9	0.350	0.061	0.0754	
480 minute winter	S02	1.001	S03	1.8	0.563	0.121	0.1320	
480 minute winter	S03	1.002	S04	2.0	0.379	0.053	0.3122	
480 minute winter	S04	1.003	S05	3.0	0.447	0.083	0.2059	
480 minute winter	S05	1.004	S06	3.6	0.349	0.099	0.5611	
480 minute winter	S06	1.005	Tank01	5.3	0.894	0.109	0.0696	
480 minute winter	Tank01	1.006	S15	3.2	0.153	0.201	0.0398	
480 minute winter	S07	2.000a	Tank02	0.5	0.474	0.091	0.0176	
480 minute winter	S08	2.001	S09	2.3	0.556	0.150	0.1901	
480 minute winter	S09	2.002	S10	2.2	0.297	0.149	0.2264	
480 minute winter	S10	2.003	S11	3.1	0.336	0.200	0.0448	
480 minute winter	S11	2.004	Tank01	3.0	0.736	0.551	0.0176	
480 minute winter	S12	3.000	Tank01	-1.3	0.720	-0.048	0.0176	
480 minute winter	S14	4.000	Tank01	0.3	0.119	0.055	0.0176	
480 minute winter	S15	1.007	S16	3.3	0.116	0.073	0.1569	
480 minute winter	S16	1.008	S17	3.3	0.655	0.227	0.0674	113.6
480 minute winter	ACO	5.000	S16	0.2	0.312	0.029	0.0840	
480 minute winter	Tank02	2.000b	S08	-1.7	0.308	-0.306	0.0176	

Results for 100 year +45% CC 600 minute summer. 840 minute analysis at 15 minute timestep. Mass balance: 99.93%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
600 minute summer	S01	315	120.736	0.026	1.0	0.0171	0.0000	OK
600 minute summer	S02	315	120.643	0.038	2.0	0.0215	0.0000	OK
600 minute summer	S03	405	120.627	0.167	2.2	0.0607	0.0000	OK
600 minute summer	S04	405	120.627	0.207	3.3	0.1327	0.0000	OK
600 minute summer	S05	405	120.627	0.232	3.9	0.1172	0.0000	SURCHARGED
600 minute summer	S06	405	120.627	0.302	5.6	0.2370	0.0000	SURCHARGED
600 minute summer	Tank01	405	120.627	0.317	10.2	54.2763	0.0000	SURCHARGED
600 minute summer	S07	405	120.627	0.126	0.6	0.0452	0.0000	OK
600 minute summer	S08	405	120.627	0.128	2.4	0.1154	0.0000	OK
600 minute summer	S09	405	120.627	0.207	2.4	0.0329	0.0000	SURCHARGED
600 minute summer	S10	405	120.627	0.297	3.3	0.1291	0.0000	SURCHARGED
600 minute summer	S11	405	120.627	0.316	3.3	0.0502	0.0000	SURCHARGED
600 minute summer	S12	405	120.626	0.101	1.9	0.0706	0.0000	OK
600 minute summer	S14	405	120.627	0.316	0.3	0.0786	0.0000	SURCHARGED
600 minute summer	S15	405	120.626	0.317	3.2	0.0898	0.0000	SURCHARGED
600 minute summer	S16	405	120.626	0.346	3.4	0.4985	0.0000	SURCHARGED
600 minute summer	ACO	405	120.626	0.126	0.2	0.0191	0.0000	SURCHARGED
600 minute summer	S17	630	120.238	0.048	3.3	0.0000	0.0000	OK
600 minute summer	Tank02	405	120.627	0.127	1.7	7.2051	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
600 minute summer	S01	1.000	S02	1.0	0.359	0.068	0.0424	
600 minute summer	S02	1.001	S03	2.0	0.579	0.134	0.0634	
600 minute summer	S03	1.002	S04	2.1	0.382	0.058	0.2740	
600 minute summer	S04	1.003	S05	3.2	0.446	0.090	0.2018	
600 minute summer	S05	1.004	S06	3.8	0.311	0.105	0.5611	
600 minute summer	S06	1.005	Tank01	5.6	0.834	0.116	0.0696	
600 minute summer	Tank01	1.006	S15	3.2	0.169	0.202	0.0398	
600 minute summer	S07	2.000a	Tank02	0.6	0.426	0.109	0.0159	
600 minute summer	S08	2.001	S09	2.4	0.541	0.161	0.1816	
600 minute summer	S09	2.002	S10	2.3	0.330	0.158	0.2264	
600 minute summer	S10	2.003	S11	3.3	0.301	0.215	0.0448	
600 minute summer	S11	2.004	Tank01	3.2	0.566	0.591	0.0176	
600 minute summer	S12	3.000	Tank01	1.7	0.756	0.060	0.0142	
600 minute summer	S14	4.000	Tank01	0.3	0.025	0.052	0.0176	
600 minute summer	S15	1.007	S16	3.3	0.122	0.073	0.1569	
600 minute summer	S16	1.008	S17	3.3	0.655	0.227	0.0674	117.2
600 minute summer	ACO	5.000	S16	0.2	0.307	0.029	0.0840	
600 minute summer	Tank02	2.000b	S08	-1.2	0.317	-0.227	0.0160	

Results for 100 year +45% CC 600 minute winter. 840 minute analysis at 15 minute timestep. Mass balance: 99.92%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
600 minute winter	S01	315	120.734	0.024	0.8	0.0154	0.0000	OK
600 minute winter	S02	435	120.659	0.054	1.6	0.0305	0.0000	OK
600 minute winter	S03	435	120.659	0.199	1.8	0.0725	0.0000	OK
600 minute winter	S04	435	120.659	0.239	2.7	0.1536	0.0000	SURCHARGED
600 minute winter	S05	435	120.659	0.264	3.2	0.1337	0.0000	SURCHARGED
600 minute winter	S06	435	120.659	0.334	4.5	0.2626	0.0000	SURCHARGED
600 minute winter	Tank01	435	120.659	0.349	8.2	59.8588	0.0000	SURCHARGED
600 minute winter	S07	435	120.660	0.159	0.4	0.0569	0.0000	SURCHARGED
600 minute winter	S08	435	120.660	0.161	2.0	0.1447	0.0000	SURCHARGED
600 minute winter	S09	435	120.659	0.239	2.0	0.0381	0.0000	SURCHARGED
600 minute winter	S10	435	120.659	0.329	2.7	0.1432	0.0000	SURCHARGED
600 minute winter	S11	435	120.659	0.348	2.7	0.0554	0.0000	SURCHARGED
600 minute winter	S12	435	120.659	0.134	1.2	0.0936	0.0000	OK
600 minute winter	S14	435	120.659	0.348	0.3	0.0867	0.0000	SURCHARGED
600 minute winter	S15	435	120.659	0.350	3.2	0.0990	0.0000	SURCHARGED
600 minute winter	S16	435	120.659	0.379	3.4	0.5454	0.0000	SURCHARGED
600 minute winter	ACO	435	120.659	0.159	0.2	0.0240	0.0000	FLOOD RISK
600 minute winter	S17	690	120.238	0.048	3.3	0.0000	0.0000	OK
600 minute winter	Tank02	435	120.660	0.160	1.8	8.5356	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
600 minute winter	S01	1.000	S02	0.8	0.338	0.054	0.0503	
600 minute winter	S02	1.001	S03	1.6	0.545	0.107	0.1055	
600 minute winter	S03	1.002	S04	1.8	0.358	0.048	0.3025	
600 minute winter	S04	1.003	S05	2.6	0.421	0.073	0.2059	
600 minute winter	S05	1.004	S06	3.1	0.322	0.086	0.5611	
600 minute winter	S06	1.005	Tank01	4.5	0.902	0.094	0.0696	
600 minute winter	Tank01	1.006	S15	3.2	0.169	0.201	0.0398	
600 minute winter	S07	2.000a	Tank02	0.4	0.421	0.073	0.0176	
600 minute winter	S08	2.001	S09	2.0	0.534	0.130	0.1901	
600 minute winter	S09	2.002	S10	1.9	0.316	0.129	0.2264	
600 minute winter	S10	2.003	S11	2.7	0.321	0.175	0.0448	
600 minute winter	S11	2.004	Tank01	2.6	0.652	0.481	0.0176	
600 minute winter	S12	3.000	Tank01	1.2	0.675	0.043	0.0171	
600 minute winter	S14	4.000	Tank01	0.3	-0.068	0.051	0.0176	
600 minute winter	S15	1.007	S16	3.3	0.122	0.073	0.1569	
600 minute winter	S16	1.008	S17	3.3	0.656	0.227	0.0674	127.3
600 minute winter	ACO	5.000	S16	0.2	0.312	0.029	0.0840	
600 minute winter	Tank02	2.000b	S08	-1.4	0.325	-0.257	0.0176	

Results for 100 year +45% CC 720 minute summer. 960 minute analysis at 15 minute timestep. Mass balance: 99.95%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
720 minute summer	S01	375	120.735	0.025	0.9	0.0163	0.0000	OK
720 minute summer	S02	375	120.641	0.036	1.8	0.0204	0.0000	OK
720 minute summer	S03	480	120.617	0.157	2.0	0.0573	0.0000	OK
720 minute summer	S04	480	120.617	0.197	2.9	0.1267	0.0000	OK
720 minute summer	S05	480	120.617	0.222	3.6	0.1125	0.0000	OK
720 minute summer	S06	480	120.617	0.292	5.1	0.2297	0.0000	SURCHARGED
720 minute summer	Tank01	480	120.617	0.307	9.1	52.6878	0.0000	SURCHARGED
720 minute summer	S07	480	120.618	0.117	0.5	0.0419	0.0000	OK
720 minute summer	S08	480	120.618	0.119	2.2	0.1071	0.0000	OK
720 minute summer	S09	480	120.618	0.198	2.2	0.0314	0.0000	SURCHARGED
720 minute summer	S10	480	120.617	0.287	3.0	0.1250	0.0000	SURCHARGED
720 minute summer	S11	480	120.617	0.306	3.0	0.0487	0.0000	SURCHARGED
720 minute summer	S12	465	120.618	0.093	1.6	0.0650	0.0000	OK
720 minute summer	S14	480	120.617	0.306	0.3	0.0763	0.0000	SURCHARGED
720 minute summer	S15	480	120.617	0.308	3.2	0.0872	0.0000	SURCHARGED
720 minute summer	S16	480	120.617	0.337	3.4	0.4852	0.0000	SURCHARGED
720 minute summer	ACO	480	120.617	0.117	0.2	0.0177	0.0000	SURCHARGED
720 minute summer	S17	690	120.238	0.048	3.3	0.0000	0.0000	OK
720 minute summer	Tank02	480	120.618	0.118	1.5	6.6836	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
720 minute summer	S01	1.000	S02	0.9	0.349	0.061	0.0393	
720 minute summer	S02	1.001	S03	1.8	0.563	0.121	0.0559	
720 minute summer	S03	1.002	S04	1.9	0.366	0.053	0.2616	
720 minute summer	S04	1.003	S05	2.9	0.423	0.079	0.1982	
720 minute summer	S05	1.004	S06	3.5	0.304	0.095	0.5604	
720 minute summer	S06	1.005	Tank01	5.0	0.796	0.103	0.0696	
720 minute summer	Tank01	1.006	S15	3.2	0.250	0.201	0.0398	
720 minute summer	S07	2.000a	Tank02	0.5	0.351	0.091	0.0148	
720 minute summer	S08	2.001	S09	2.2	0.535	0.144	0.1759	
720 minute summer	S09	2.002	S10	2.1	0.308	0.141	0.2264	
720 minute summer	S10	2.003	S11	3.0	0.302	0.193	0.0448	
720 minute summer	S11	2.004	Tank01	2.9	0.594	0.531	0.0176	
720 minute summer	S12	3.000	Tank01	1.2	0.720	0.041	0.0131	
720 minute summer	S14	4.000	Tank01	0.3	0.018	0.047	0.0176	
720 minute summer	S15	1.007	S16	3.2	0.122	0.073	0.1569	
720 minute summer	S16	1.008	S17	3.3	0.655	0.227	0.0674	126.2
720 minute summer	ACO	5.000	S16	0.2	0.307	0.029	0.0840	
720 minute summer	Tank02	2.000b	S08	-1.2	0.241	-0.215	0.0149	

Results for 100 year +45% CC 720 minute winter. 960 minute analysis at 15 minute timestep. Mass balance: 99.94%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
720 minute winter	S01	375	120.732	0.022	0.7	0.0144	0.0000	OK
720 minute winter	S02	510	120.637	0.032	1.4	0.0180	0.0000	OK
720 minute winter	S03	510	120.637	0.177	1.6	0.0645	0.0000	OK
720 minute winter	S04	510	120.637	0.217	2.4	0.1394	0.0000	OK
720 minute winter	S05	510	120.637	0.242	2.8	0.1225	0.0000	SURCHARGED
720 minute winter	S06	510	120.637	0.312	4.0	0.2452	0.0000	SURCHARGED
720 minute winter	Tank01	510	120.637	0.327	7.4	56.0638	0.0000	SURCHARGED
720 minute winter	S07	510	120.637	0.136	0.4	0.0490	0.0000	OK
720 minute winter	S08	510	120.637	0.138	1.8	0.1247	0.0000	OK
720 minute winter	S09	510	120.637	0.217	1.8	0.0345	0.0000	SURCHARGED
720 minute winter	S10	510	120.637	0.307	2.4	0.1336	0.0000	SURCHARGED
720 minute winter	S11	510	120.637	0.326	2.4	0.0518	0.0000	SURCHARGED
720 minute winter	S12	510	120.637	0.112	1.3	0.0781	0.0000	OK
720 minute winter	S14	510	120.637	0.326	0.2	0.0812	0.0000	SURCHARGED
720 minute winter	S15	510	120.637	0.328	3.2	0.0928	0.0000	SURCHARGED
720 minute winter	S16	510	120.637	0.357	3.4	0.5135	0.0000	SURCHARGED
720 minute winter	ACO	510	120.637	0.137	0.2	0.0206	0.0000	SURCHARGED
720 minute winter	S17	750	120.238	0.048	3.3	0.0000	0.0000	OK
720 minute winter	Tank02	510	120.637	0.137	1.3	7.7951	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
720 minute winter	S01	1.000	S02	0.7	0.326	0.047	0.0328	
720 minute winter	S02	1.001	S03	1.4	0.524	0.094	0.0767	
720 minute winter	S03	1.002	S04	1.6	0.364	0.043	0.2862	
720 minute winter	S04	1.003	S05	2.3	0.403	0.065	0.2046	
720 minute winter	S05	1.004	S06	2.8	0.303	0.076	0.5611	
720 minute winter	S06	1.005	Tank01	3.9	0.802	0.082	0.0696	
720 minute winter	Tank01	1.006	S15	3.2	0.169	0.201	0.0398	
720 minute winter	S07	2.000a	Tank02	0.4	0.467	0.073	0.0169	
720 minute winter	S08	2.001	S09	1.8	0.525	0.117	0.1868	
720 minute winter	S09	2.002	S10	1.7	0.334	0.116	0.2264	
720 minute winter	S10	2.003	S11	2.4	0.297	0.156	0.0448	
720 minute winter	S11	2.004	Tank01	2.4	0.610	0.430	0.0176	
720 minute winter	S12	3.000	Tank01	2.9	0.650	0.101	0.0155	
720 minute winter	S14	4.000	Tank01	0.2	-0.063	0.038	0.0176	
720 minute winter	S15	1.007	S16	3.3	0.122	0.073	0.1569	
720 minute winter	S16	1.008	S17	3.3	0.655	0.227	0.0674	137.5
720 minute winter	ACO	5.000	S16	0.2	0.312	0.029	0.0840	
720 minute winter	Tank02	2.000b	S08	-0.9	0.319	-0.169	0.0169	

Results for 100 year +45% CC 960 minute summer. 1200 minute analysis at 15 minute timestep. Mass balance: 99.97%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
960 minute summer	S01	495	120.732	0.022	0.7	0.0144	0.0000	OK
960 minute summer	S02	495	120.637	0.032	1.4	0.0179	0.0000	OK
960 minute summer	S03	615	120.596	0.136	1.6	0.0496	0.0000	OK
960 minute summer	S04	615	120.596	0.176	2.4	0.1131	0.0000	OK
960 minute summer	S05	615	120.596	0.201	2.8	0.1019	0.0000	OK
960 minute summer	S06	615	120.596	0.271	4.0	0.2132	0.0000	SURCHARGED
960 minute summer	Tank01	615	120.596	0.286	7.5	49.0795	0.0000	SURCHARGED
960 minute summer	S07	615	120.597	0.096	0.4	0.0344	0.0000	OK
960 minute summer	S08	615	120.597	0.098	2.0	0.0880	0.0000	OK
960 minute summer	S09	615	120.597	0.177	2.0	0.0281	0.0000	SURCHARGED
960 minute summer	S10	615	120.596	0.266	2.6	0.1159	0.0000	SURCHARGED
960 minute summer	S11	615	120.596	0.285	2.6	0.0454	0.0000	SURCHARGED
960 minute summer	S12	585	120.597	0.072	2.0	0.0504	0.0000	OK
960 minute summer	S14	615	120.596	0.285	0.2	0.0710	0.0000	SURCHARGED
960 minute summer	S15	615	120.596	0.287	3.2	0.0813	0.0000	SURCHARGED
960 minute summer	S16	615	120.596	0.316	3.3	0.4548	0.0000	SURCHARGED
960 minute summer	ACO	615	120.596	0.096	0.2	0.0145	0.0000	OK
960 minute summer	S17	780	120.238	0.048	3.3	0.0000	0.0000	OK
960 minute summer	Tank02	615	120.597	0.097	1.3	5.4851	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
960 minute summer	S01	1.000	S02	0.7	0.326	0.047	0.0328	
960 minute summer	S02	1.001	S03	1.4	0.524	0.094	0.0405	
960 minute summer	S03	1.002	S04	1.6	0.348	0.042	0.2300	
960 minute summer	S04	1.003	S05	2.3	0.421	0.064	0.1834	
960 minute summer	S05	1.004	S06	2.7	0.308	0.075	0.5451	
960 minute summer	S06	1.005	Tank01	3.9	0.763	0.082	0.0696	
960 minute summer	Tank01	1.006	S15	3.2	0.271	0.196	0.0398	
960 minute summer	S07	2.000a	Tank02	0.4	0.212	0.073	0.0119	
960 minute summer	S08	2.001	S09	2.0	0.522	0.130	0.1607	
960 minute summer	S09	2.002	S10	1.9	0.248	0.129	0.2264	
960 minute summer	S10	2.003	S11	2.6	0.270	0.169	0.0448	
960 minute summer	S11	2.004	Tank01	2.5	0.537	0.465	0.0176	
960 minute summer	S12	3.000	Tank01	2.2	0.675	0.077	0.0100	
960 minute summer	S14	4.000	Tank01	0.2	-0.055	0.036	0.0176	
960 minute summer	S15	1.007	S16	3.2	0.122	0.071	0.1569	
960 minute summer	S16	1.008	S17	3.3	0.655	0.227	0.0674	139.7
960 minute summer	ACO	5.000	S16	0.2	0.307	0.029	0.0834	
960 minute summer	Tank02	2.000b	S08	-0.9	0.231	-0.161	0.0121	

Results for 100 year +45% CC 960 minute winter. 1200 minute analysis at 15 minute timestep. Mass balance: 99.97%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
960 minute winter	S01	450	120.729	0.019	0.5	0.0123	0.0000	OK
960 minute winter	S02	450	120.632	0.027	1.0	0.0151	0.0000	OK
960 minute winter	S03	660	120.601	0.141	1.1	0.0513	0.0000	OK
960 minute winter	S04	660	120.601	0.181	1.7	0.1162	0.0000	OK
960 minute winter	S05	660	120.601	0.206	2.1	0.1042	0.0000	OK
960 minute winter	S06	660	120.601	0.276	3.0	0.2169	0.0000	SURCHARGED
960 minute winter	Tank01	660	120.601	0.291	5.6	49.8798	0.0000	SURCHARGED
960 minute winter	S07	660	120.601	0.100	0.3	0.0360	0.0000	OK
960 minute winter	S08	660	120.601	0.102	1.5	0.0922	0.0000	OK
960 minute winter	S09	660	120.601	0.181	1.5	0.0288	0.0000	SURCHARGED
960 minute winter	S10	660	120.601	0.271	2.0	0.1179	0.0000	SURCHARGED
960 minute winter	S11	660	120.601	0.290	1.9	0.0461	0.0000	SURCHARGED
960 minute winter	S12	645	120.602	0.077	0.8	0.0535	0.0000	OK
960 minute winter	S14	660	120.601	0.290	0.2	0.0722	0.0000	SURCHARGED
960 minute winter	S15	660	120.601	0.292	3.2	0.0826	0.0000	SURCHARGED
960 minute winter	S16	660	120.601	0.321	3.3	0.4616	0.0000	SURCHARGED
960 minute winter	ACO	660	120.601	0.101	0.1	0.0152	0.0000	SURCHARGED
960 minute winter	S17	840	120.238	0.048	3.3	0.0000	0.0000	OK
960 minute winter	Tank02	660	120.601	0.101	0.8	5.7501	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
960 minute winter	S01	1.000	S02	0.5	0.296	0.034	0.0258	
960 minute winter	S02	1.001	S03	1.0	0.476	0.067	0.0437	
960 minute winter	S03	1.002	S04	1.1	0.332	0.030	0.2374	
960 minute winter	S04	1.003	S05	1.7	0.391	0.046	0.1872	
960 minute winter	S05	1.004	S06	2.0	0.302	0.056	0.5494	
960 minute winter	S06	1.005	Tank01	3.0	0.747	0.062	0.0696	
960 minute winter	Tank01	1.006	S15	3.2	0.236	0.195	0.0398	
960 minute winter	S07	2.000a	Tank02	0.3	0.377	0.055	0.0126	
960 minute winter	S08	2.001	S09	1.5	0.500	0.098	0.1642	
960 minute winter	S09	2.002	S10	1.5	0.290	0.098	0.2264	
960 minute winter	S10	2.003	S11	1.9	0.297	0.126	0.0448	
960 minute winter	S11	2.004	Tank01	1.9	0.570	0.350	0.0176	
960 minute winter	S12	3.000	Tank01	1.5	0.622	0.054	0.0108	
960 minute winter	S14	4.000	Tank01	0.2	-0.067	0.035	0.0176	
960 minute winter	S15	1.007	S16	3.2	0.122	0.071	0.1569	
960 minute winter	S16	1.008	S17	3.3	0.655	0.227	0.0674	154.7
960 minute winter	ACO	5.000	S16	0.1	0.307	0.015	0.0839	
960 minute winter	Tank02	2.000b	S08	0.6	0.233	0.105	0.0127	

Results for 100 year +45% CC 1440 minute summer. 1680 minute analysis at 30 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
1440 minute summer	S01	750	120.729	0.019	0.5	0.0123	0.0000	OK
1440 minute summer	S02	750	120.632	0.027	1.0	0.0151	0.0000	OK
1440 minute summer	S03	870	120.546	0.086	1.1	0.0312	0.0000	OK
1440 minute summer	S04	870	120.546	0.126	1.7	0.0807	0.0000	OK
1440 minute summer	S05	870	120.546	0.151	2.1	0.0763	0.0000	OK
1440 minute summer	S06	870	120.546	0.221	2.9	0.1735	0.0000	OK
1440 minute summer	Tank01	870	120.546	0.236	5.5	40.4065	0.0000	SURCHARGED
1440 minute summer	S07	870	120.546	0.045	0.3	0.0162	0.0000	OK
1440 minute summer	S08	870	120.546	0.047	1.4	0.0424	0.0000	OK
1440 minute summer	S09	870	120.546	0.126	1.4	0.0200	0.0000	OK
1440 minute summer	S10	870	120.546	0.216	1.9	0.0939	0.0000	SURCHARGED
1440 minute summer	S11	870	120.546	0.235	1.8	0.0373	0.0000	SURCHARGED
1440 minute summer	S12	870	120.544	0.019	0.6	0.0134	0.0000	OK
1440 minute summer	S14	870	120.546	0.235	0.2	0.0584	0.0000	SURCHARGED
1440 minute summer	S15	870	120.546	0.237	3.1	0.0669	0.0000	SURCHARGED
1440 minute summer	S16	870	120.545	0.265	3.3	0.3820	0.0000	SURCHARGED
1440 minute summer	ACO	870	120.545	0.045	0.1	0.0068	0.0000	OK
1440 minute summer	S17	930	120.238	0.048	3.3	0.0000	0.0000	OK
1440 minute summer	Tank02	870	120.546	0.046	0.4	2.6146	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
1440 minute summer	S01	1.000	S02	0.5	0.296	0.034	0.0258	
1440 minute summer	S02	1.001	S03	1.0	0.476	0.067	0.0208	
1440 minute summer	S03	1.002	S04	1.1	0.330	0.030	0.1441	
1440 minute summer	S04	1.003	S05	1.7	0.392	0.046	0.1322	
1440 minute summer	S05	1.004	S06	2.0	0.303	0.055	0.4785	
1440 minute summer	S06	1.005	Tank01	2.9	0.522	0.060	0.0694	
1440 minute summer	Tank01	1.006	S15	3.1	0.260	0.192	0.0398	
1440 minute summer	S07	2.000a	Tank02	0.3	0.144	0.055	0.0045	
1440 minute summer	S08	2.001	S09	1.4	0.486	0.092	0.1108	
1440 minute summer	S09	2.002	S10	1.4	0.230	0.092	0.2147	
1440 minute summer	S10	2.003	S11	1.8	0.220	0.120	0.0448	
1440 minute summer	S11	2.004	Tank01	1.8	0.322	0.333	0.0176	
1440 minute summer	S12	3.000	Tank01	0.6	0.622	0.021	0.0029	
1440 minute summer	S14	4.000	Tank01	0.2	0.019	0.033	0.0176	
1440 minute summer	S15	1.007	S16	3.1	0.121	0.070	0.1569	
1440 minute summer	S16	1.008	S17	3.3	0.655	0.227	0.0674	152.1
1440 minute summer	ACO	5.000	S16	0.1	0.178	0.015	0.0605	
1440 minute summer	Tank02	2.000b	S08	0.4	0.217	0.075	0.0047	

Results for 100 year +45% CC 1440 minute winter. 1680 minute analysis at 30 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
1440 minute winter	S01	720	120.727	0.017	0.4	0.0110	0.0000	OK
1440 minute winter	S02	720	120.629	0.024	0.8	0.0135	0.0000	OK
1440 minute winter	S03	930	120.536	0.076	0.9	0.0278	0.0000	OK
1440 minute winter	S04	930	120.536	0.116	1.4	0.0746	0.0000	OK
1440 minute winter	S05	930	120.536	0.141	1.7	0.0715	0.0000	OK
1440 minute winter	S06	930	120.536	0.211	2.4	0.1660	0.0000	OK
1440 minute winter	Tank01	930	120.536	0.226	4.3	38.7820	0.0000	SURCHARGED
1440 minute winter	S07	930	120.537	0.036	0.2	0.0128	0.0000	OK
1440 minute winter	S08	930	120.537	0.038	1.0	0.0339	0.0000	OK
1440 minute winter	S09	930	120.537	0.117	1.0	0.0185	0.0000	OK
1440 minute winter	S10	930	120.536	0.206	1.4	0.0898	0.0000	SURCHARGED
1440 minute winter	S11	930	120.536	0.225	1.4	0.0358	0.0000	SURCHARGED
1440 minute winter	S12	750	120.540	0.015	0.5	0.0102	0.0000	OK
1440 minute winter	S14	930	120.536	0.225	0.1	0.0561	0.0000	SURCHARGED
1440 minute winter	S15	930	120.536	0.227	3.1	0.0643	0.0000	SURCHARGED
1440 minute winter	S16	930	120.536	0.256	3.3	0.3684	0.0000	SURCHARGED
1440 minute winter	ACO	930	120.536	0.036	0.1	0.0054	0.0000	OK
1440 minute winter	S17	870	120.238	0.048	3.3	0.0000	0.0000	OK
1440 minute winter	Tank02	930	120.537	0.037	0.2	2.0784	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
1440 minute winter	S01	1.000	S02	0.4	0.277	0.027	0.0220	
1440 minute winter	S02	1.001	S03	0.8	0.447	0.054	0.0177	
1440 minute winter	S03	1.002	S04	0.9	0.310	0.024	0.1278	
1440 minute winter	S04	1.003	S05	1.4	0.372	0.038	0.1214	
1440 minute winter	S05	1.004	S06	1.7	0.308	0.045	0.4582	
1440 minute winter	S06	1.005	Tank01	2.3	0.641	0.048	0.0687	
1440 minute winter	Tank01	1.006	S15	3.1	0.261	0.191	0.0398	
1440 minute winter	S07	2.000a	Tank02	0.2	0.159	0.037	0.0033	
1440 minute winter	S08	2.001	S09	1.0	0.473	0.067	0.0979	
1440 minute winter	S09	2.002	S10	1.0	0.241	0.067	0.2076	
1440 minute winter	S10	2.003	S11	1.4	0.268	0.090	0.0448	
1440 minute winter	S11	2.004	Tank01	1.4	0.447	0.251	0.0176	
1440 minute winter	S12	3.000	Tank01	0.5	0.591	0.018	0.0019	
1440 minute winter	S14	4.000	Tank01	0.1	-0.055	0.019	0.0176	
1440 minute winter	S15	1.007	S16	3.1	0.120	0.069	0.1568	
1440 minute winter	S16	1.008	S17	3.3	0.655	0.227	0.0674	171.0
1440 minute winter	ACO	5.000	S16	0.1	0.146	0.015	0.0555	
1440 minute winter	Tank02	2.000b	S08	0.3	0.175	0.056	0.0034	

APPENDIX D – Drainage Maintenance Schedules

General Drainage

Where specialist products are included within the drainage system, at detailed design, these and their specific maintenance requirements should be incorporated within the final drainage maintenance strategy.

Regular Inspection	Frequency
Inspect all gullies, channels, inspection chambers, catch pits and flow controls to ensure they are in good condition and operating as intended.	Monthly for 3 months Then annually
Survey inside of pipe runs for sediment build-up and other defects and remove is necessary	Every 5 years or more frequently if deemed necessary
Regular Maintenance	Frequency
Remove debris from the catchment surface (where it may cause risk to performance)	Monthly
Remove sediment from gullies, channels, catch pits and flow control chambers.	6 monthly or as required
Remedial Actions	Frequency
Rehabilitate/repair pipework, gullies, channels, chambers and flow controls.	As required

Attenuation Tank

Monitoring	Frequency
Inspect/check all inlets, outlets, vents and overflows to ensure they are in good condition and operating as intended.	Annually
Survey inside of tank/distribution pipe for sediment build-up and other defects and remove is necessary	Every 5 years or as required
Regular Maintenance	Frequency
Inspect and identify any areas that are not operating correctly. If required, take remedial action.	Monthly for 3 months, then annually
Remove debris from the catchment surface (where it may cause risk to performance)	Monthly
For systems where rainfall infiltrates into the tank from above, check surface of filter for blockage by sediment, algae or other matter, remove and replace surface infiltration medium as necessary.	Annually
Remove sediment from pre-treatment structures and/or forebays	Annually or as required
Remedial Actions	Frequency
Rehabilitate/repair inlets, outlets, vents, overflows etc..	As required

Pervious Paving

Regular Inspection	Frequency
Initial Inspection	Monthly for 3 months after installation
Inspect for evidence of poor operation and weed growth. If required take remedial action.	3 monthly 48 hours after large storms in first 6 months
Inspect silt accumulation rates and establish appropriate brushing frequencies.	Annually
Monitor inspection chambers	Annually
Regular Maintenance	Frequency
Brushing and vacuuming (standard cosmetic sweep over whole surface.	Annually after autumn leaf fall or reduced frequency as required. Based upon site specific observation of clogging or manufacturer's recommendations. Particular attention to be paid to areas where water runs onto the surface from adjacent impermeable areas where more sediment may collect.
Occasional Maintenance	Frequency
Remove all weeds or manage using glyphosate applied directly onto the weeds by an applicator rather than spraying	As required – once per year on less frequently used pavements
Stabilise and mow contributing and adjacent areas	As required
Remedial Actions	Frequency
Remediate any landscaping which through vegetation maintenance or soil slip, has been raised to within 50mm of the level of the paving	As required
Remedial works to any depressions, rutting and cracked or broken blocks considered detrimental to the structural performance or a hazard to users, and replace lost jointing material	As required
Rehabilitation of surface and upper sub-structure by remedial sweeping.	Every 10-15 years or as required if infiltration performance is reduced due to significant clogging.

Roofs

Where roof finishes (ie: glazed) are included and require specific maintenance regimes the requirements should be incorporated within the final drainage maintenance strategy.

Regular Inspection	Frequency
Inspect all roof areas, gutters, outlets, overflows and downpipes	Monthly for 3 months Then annually
Regular Maintenance	Frequency
Remove debris from the catchment surface (where it may cause risk to performance)	Monthly
Remove sediment from gutters and outlets	Annually or as required
Remedial Actions	Frequency
Rehabilitate/repair gutters and outlets	As required