

Cooper & Withycombe

CONSULTING ENGINEERS

**Proposed Cottage
Longacre
Maypole Lane
Yapton
BN18 0DR**

Stormwater Drainage

September 2017

Third Floor
Norwich House
14-15 North Street
Guildford
Surrey
GU1 4AF

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STORMWATER DRAINAGE

1. Introduction and Design Criteria

A new cottage is being erected on land adjoining Longacre, Maypole Lane, Yapton, West Sussex BN18 0DR.

As part of the Planning Approval, Condition 3 required the detailed design of the surface water drainage system be provided. This document describes the site situation, standards to be adopted and provides an assessment of the final drainage design for the proposed development. It should be read in conjunction with Philips Chartered Surveyors Foul and Surface water Drainage Statement dated April 2015 and their initial Surface Water Calculation.

As part of this design process it is intended that the civil engineering design for the building and its infrastructure shall take into account its use and serviceability requirements, for a minimum time to first maintenance of 25 years. The drainage systems shall meet the local Water Authority and Environment Agency standards and requirements together with the Building Regulations.

2. Sustainable Design

The design concept takes into account the requirements of the NPPF for sustainable drainage together with the local authorities sustainable development policies where appropriate, National Guidance and Policy and with current best practice, ensuring:

- ☐ Use of recycled building materials where appropriate.
- ☐ Use of materials from renewable resources.
- ☐ Use of recyclable materials.
- ☐ Use of materials that use low energy in their manufacturing, fabrication, transport and installation.
- ☐ Environmental good practice in the control and discharge of storm water outflows from the site to comply with The Environment Agency guidelines for Sustainable Urban Drainage and the local Water Authorities requirements.
- ☐ Compliance with National Standards for Sustainable Drainage Systems published by Defra

3. Existing Situation

The site is located on the north side of the village of Yapton, West Sussex and on the south west side of Maypole Lane.

It is on the south side of The Paddocks Longacre and surrounded on three sides by flat land. On the other side by the Maypole Inn.

The Environment Agency Flood Map, included in the initial assessment, indicates the site would not be at risk in a 1 in 1,000 (0.1 AEP) event. Hence, it is considered the site was generally not at risk from flooding.

No surface water drainage serves the site or is available for connection.

The Local Geological Survey Map indicates that the site is generally underlain by sand and silt of the River Terrace Deposits overlying the London Clay Formation.

A soakage test was also undertaken in the excavated trial holes in accordance with the procedure described in BRE Digest 365. The test has confirmed that soil infiltration may be adopted on the site as part of a surface water drainage system. The calculation for infiltration rate is included in Philips Chartered Surveyors Surface water Calculation

4. **Storm Water**

The building will increase the impermeable area of the site. This is principally on the east side of the site. The remainder of the area will be landscaped as garden.

With the underlying gravel of the River Terrace Deposits, although undifferentiated, the soakage test has demonstrated that infiltration is considered a viable option for stormwater drainage for the site. This complies with the hierarchy of destination preference for surface water run off from the site.

The design includes for:-

- Source control. Rainwater from the roof will discharge through water butts into the underground drainage system. Rainwater collected by the water butts will be used for irrigation of the gardens.
- Paved areas. Permeable paving will be provided.
- Infiltration. Surface water collected from the buildings will discharge to 2 No. soakaways constructed using proprietary storm cells manufactured from recycled plastic with high free volume and efficient surface discharge potential.

In accordance with the SUDS Guidance Table C1 for maintaining water quality, the level of hazard for roof discharge is considered low and only a single treatment stage (G3) is required before infiltration. This will be achieved by the rainwater butts allowing settlement of fine material.

The drainage system and location of the proposed soakaways is shown on the appended drawing by Philips Chartered Surveyors HL-C-05.

In accordance with Part H of the Building Regulations, the capacity of the soakaways is demonstrated in the appended calculation sheets together with an assessment of the drainage system for a range of storm durations and intensities.

5. **Maintenance**

To ensure the long term function and efficiency of the stormwater system, regular

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STORMWATER DRAINAGE

maintenance is essential. A Management Plan for this is appended.

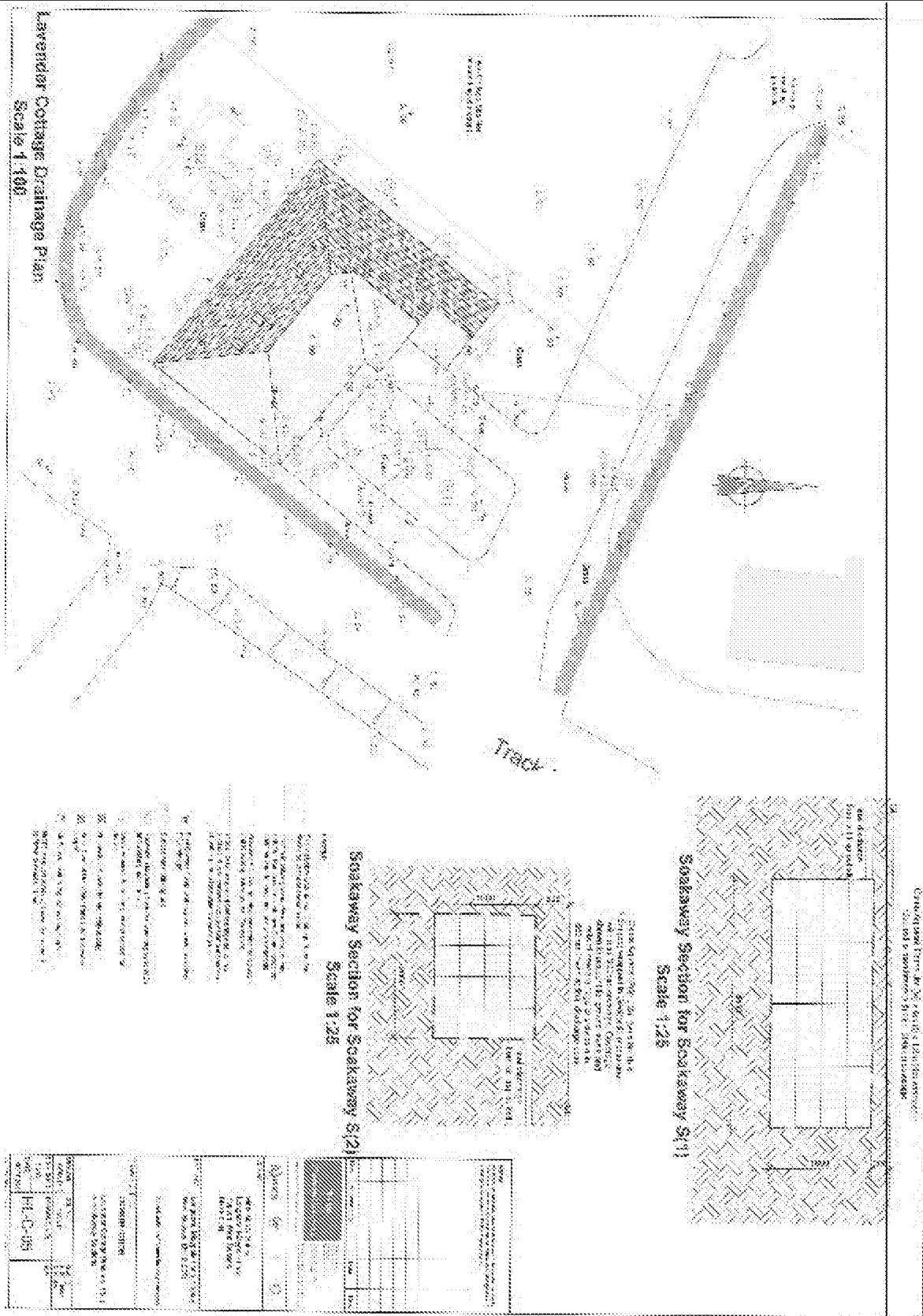
Responsibility for the maintenance of the system will be by the site owner/
Landlord for the development.

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Appendix A - Site Plan – Drainage

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Appendix B - Soakaway Estimate

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C&W Cooper & Withycombe CONSULTING ENGINEERS	SHEET NO. OF Longacre, Maypole Lane Yapton, W Sussex BN18 0DR. Front Soakaway Job No. 17 -1779 Prepared By AJP Date Aug 2017	
	Design to the critical 1 in 100 flood event	

Length (m)	4						
Depth Below invert (m)	1.6						
Width (m)	4						
free volume	95%						
Return Period	100 years						
r =	0.36						
Impermeable Area (m ²)=	54						
Soil infiltration rate (l)	3.58E-06						
A _{loss} (m ²)	12.8						
Outflow factor OF (m ³ /s)= f x A _{loss}	4.56E-05						

Duration (mins)	Z1	M5 (mm)	Z2	M100 (mm)	Inflow (m ³)	Outflow (m ³)	Resultant Volume
5	0.36	7.0	1.85	13.3	1.3	0.138	1.1
10	0.51	10.2	1.92	19.8	1.8	0.276	1.6
15	0.62	12.4	1.95	24.2	2.3	0.414	1.9
30	0.79	15.8	2.00	31.6	3.0	0.690	2.3
60	1.00	20.0	2.03	40.6	3.8	1.058	2.8
120	1.22	24.5	2.01	49.2	4.6	1.312	3.3
240	1.48	29.9	1.98	59.2	5.6	1.658	4.9
360	1.67	33.8	1.95	65.9	6.2	1.984	5.2
505	1.82	36.9	1.92	74.7	7.0	1.540	5.4
1440	2.26	49.6	1.85	91.8	8.6	3.937	6.7

ASL (m ³)	2.0						
Storage capacity=LxWxDx66%	24.3	ok					
Time for emptying half 24 hours	(MS x OF X 0.5) / (3600)	66	ok				

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Appendix C - Drainage Assessment

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C&W Cooper & Withycombe CONSULTING ENGINEERS	SHEET NO. DF 1 OF	
	Proposed Cottage Longacre, Maypole Lane Yapton BN18 0DR	Job No. 15- 1779 Prepared By ajp Date September 2017
Drainage Design Report – Front of Cottage		

Drainage Assessment by Flow

v4.0

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Network Storm Network
Last analysed 15/09/2017 11:47:22
Report produced on 15/09/2017 11:53:53

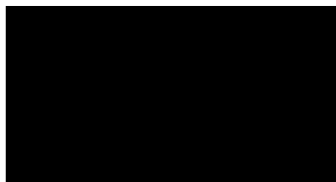
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Rainfall Methodology	FSR
Return Period (years)	100
Additional Flow (%)	0
FSR Region	England and Wales
M5-60 (mm)	20.000
Ratio-R	0.360
CV	0.750
Time of Entry (mins)	1.00
Maximum Time of Concentration (mins)	30.00
Maximum Rainfall (mm/hr)	50.0
Minimum Velocity (m/s)	1.00
Connection Type	Level Soffits
Minimum Backdrop Height (m)	0.200
Preferred Cover Depth (m)	0.200
Enforce best practice design rules	✓

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	Name	US Node	DS Node	Length (m)	ks (mm) / n	Velocity Equation	US IL (m)	DS IL (m)	Fall (m)	Slope (1:X)	Dia (mm)	Link Type	T of C (mins)	Rain (mm/hr)	C.Offset (m)	Min DS IL (m)
?	1	SWM 1	SWM 2	8.000	0.800	Colebrook-White	6.580	6.510	0.050	160.0	100	Circular	1.22	50.0		
✓	2	SWM 2	SWM 3	1.000	0.800	Colebrook-White	6.510	6.480	0.030	30.3	150	Circular	1.23	50.0		
✓	3	SWM 3	S1	1.000	0.600	Colebrook-White	6.480	6.480	0.000	33.3	150	Circular	1.24	50.0		
✓	4	SWM 4	SWM 2	4.000	0.800	Colebrook-White	6.590	6.510	0.080	50.0	100	Circular	1.08	50.0		
?	5	SWM 5	SWM 6	5.500	0.800	Colebrook-White	6.700	6.590	0.110	80.0	100	Circular	1.09	50.0		
?	6	SWM 6	SWM 2	5.000	0.800	Colebrook-White	6.590	6.510	0.080	80.0	100	Circular	1.17	50.0		

	Name	US Node	DS Node	Vel (m/s)	Cap (l/s)	Flow (l/s)	US Depth (m)	DS Depth (m)	Σ Area (ha)	Σ Add Inflow (ha)	Pro Depth (mm)	Pro Velocity (m/s)	Notes
?	1	SWM 1	SWM 2	0.866	4.8	0.4	0.240	0.290	0.003	0.0	20	0.367	Velocity is less than the specified minimum
✓	2	SWM 2	SWM 3	1.749	30.9	1.4	0.240	0.270	0.010	0.0	21	0.877	
✓	3	SWM 3	S1	1.749	30.9	1.4	0.270	0.300	0.010	0.0	21	0.877	
✓	4	SWM 4	SWM 2	1.092	8.6	0.5	0.210	0.290	0.004	0.0	17	0.599	
?	5	SWM 5	SWM 6	1.092	8.6	0.3	0.100	0.210	0.002	0.0	12	0.484	Upstream Depth is less than the specified minimum
?	6	SWM 6	SWM 2	0.370	7.7	0.4	0.210	0.290	0.003	0.0	16	0.518	Velocity is less than the specified minimum

Link ID	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)	US Node ID	Dia (mm)	Width (mm)	Node Type	MH Type	DS Node ID	Dia (mm)	Width (mm)	Node Type	MH Type
1	8.000	1:50.0	100	Pipe	6.900	6.580	0.240	6.800	6.510	0.290	SWM 1	800		Manhole	Access	SWM 2	500		Manhole	Access
2	1.000	2:5.0	150	Pipe	6.800	6.510	0.240	6.900	6.480	0.270	SWM 2	600		Manhole	Access	SWM 3	800		Manhole	Access
3	1.000	1:0.0	150	Pipe	6.900	6.480	0.270	6.800	6.450	0.300	SWM 3	800		Manhole	Access	S1	500		Manhole	Access
4	4.000	5:1.0	100	Pipe	6.800	6.580	0.210	6.900	6.510	0.290	SWM 4	600		Manhole	Access	SWM 2	800		Manhole	Access
5	5.500	1:0.0	100	Pipe	6.900	6.700	0.110	6.800	6.580	0.210	SWM 5	800		Manhole	Access	SWM 6	800		Manhole	Access
6	5.000	8:1.0	100	Pipe	6.900	6.590	0.210	6.900	6.510	0.290	SWM 6	600		Manhole	Access	SWM 2	600		Manhole	Access

Rainfall Methodology	FSR		Return Period (years)	Climate Change (%)
FSR Region	England and Wales		100	20
M5-60 (mm)	20.000			
Ratio-R	0.360			
Summer CV	0.750			
Winter CV	0.840			
Analysis Speed	Normal			
Drain Down Time (mins)	240			
Additional Storage (m³/ha)	20.0			
Storm Durations (mins)	15			
	30			
	60			
	120			
	180			
	240			
	360			
	480			
	600			
	720			
	960			
	1440			
Check Discharge Rate(s)	x			
1 year (l/s)				
30 year (l/s)				
100 year (l/s)				
Check Discharge Volume	x			
100 year 360 minute (m³)				

Soakaway											
Node	Base Infiltration Coefficient (m/hr)	Side Infiltration Coefficient (m/hr)	Safety Factor	Porosity	Invert Level (m)	Time to half empty (mins)	Pit Width (m)	Pit Length (m)	Depth (m)	Inf. Depth (m)	Number Required
S1	0.01282	0.01282	2.0	0.95	6.350	1824	3.000	4.000	1.900	1.600	1

Node Size	✓
Node Losses	✓
Link Size	✓
Minimum Diameter (mm)	100
Link Length	✓
Maximum Length (m)	100.000
Coordinates	✓
Accuracy (m)	1.000
Crossings	✓
Cover Depth	✓
Minimum Cover Depth (m)	0.200
Maximum Cover Depth (m)	3.000
Backdrops	✓
Minimum Backdrop Height (m)	0.200
Maximum Backdrop Height (m)	1.500
Full Bore Velocity	✓
Minimum Full Bore Velocity (m/s)	1.000
Maximum Full Bore Velocity (m/s)	3.000
Proportional Velocity	✓
Return Period (years)	100
Minimum Proportional Velocity (m/s)	0.750
Maximum Proportional Velocity (m/s)	3.000
Surcharged Depth	✓
Return Period (years)	100
Maximum Surcharged Depth (m)	0.100
Flooding	✓
Return Period (years)	30
Discharge Rates	✓
1 year (l/s)	0.0
30 year (l/s)	
100 year (l/s)	
Discharge Volume	✓

100 year 360 minute (m³)	0
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Summary					
The network has been designed for a 1 in 100 year storm using FSR rainfall					
It contains 7 nodes (1 outfall) and 6 links					
The total impermeable area is 0.010 ha					
1 structure has been defined, providing 0m ³ of storage below the flood risk level					
Infiltration based on BRE 365 has been applied at 1 of the structures					
Simulations have been completed using FSR summer and winter storms from 15 to 1440 minute duration					
Test Results					
7 manholes are smaller than that required by the library					
	Node	Required Dia (mm)	Required Width (mm)	Actual Dia (mm)	Actual Width (mm)
	SWM 1	1050		600	
	SWM 2	1050		600	
	SWM 3	1050		600	
	SWM 4	1050		600	
	SWM 5	1050		600	
	SWM 6	1050		600	
	S1	1050		600	
No connections have combined exit and entry losses less than the recommended total					
No circular links have diameters < 100mm					
No links have lengths > 100.000m					
No links have lengths that differ from their coordinated length by more than 1.000m					
No links cross one or more other links					
1 link has cover depth outside the range 0.200-3.000m					
	US Node	DS Node	Link	Minimum Depth (m)	Maximum Depth (m)
	SWM 5	SWM 6	5	0.100	0.210
No nodes have backdrops outside the range 0.200-1.500m					
2 links have full bore velocity outside the range 1.000-3.000m/s					
	US Node	DS Node	Link	Velocity (m/s)	
	SWM 1	SWM 2	1	0.605	
	SWM 6	SWM 2	6	0.976	
4 links have peak proportional velocity outside the range 0.750-3.000m/s during the 100 year return period					

	US Node	DS Node	Link	Velocity (m/s)	Event
	SWM 1	SWM 2	1	0.478	100 year +20% 15 minute summer
	SWM 4	SWM 2	4	0.712	100 year +20% 15 minute winter
	SWM 5	SWM 6	5	0.696	100 year +20% 15 minute summer
	SWM 6	SWM 2	6	0.539	100 year +20% 15 minute summer
1 link has a surcharged depth greater than 0.100m during the 100 year return period					
	US Node	DS Node	Link	Surcharged Depth (m)	Event
	SWM 3	S1	3	0.106	100 year +20% 360 minute winter
No nodes flood during the 30 year return period					
No outfalls have a discharge rate greater than 0.0l/s during the 1 year return period					
The 30 year discharge rate test has not been completed					
The 100 year discharge rate test has not been completed					
No outfalls have a discharge volume greater than 0m ³ during the 100 year 360 minute storm					

Results for 1 year Critical Storm Duration. Lowest mass balance: 91.01%															
Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	SWM 1	6	6.583	0.023	0.7	0.0106	0.0000	OK	1	SWM 2	0.6	0.360	0.117	0.0126	
15 minute summer	SWM 2	9	6.599	0.023	1.6	0.0082	0.0000	OK	2	SWM 3	1.6	0.788	0.056	0.0024	
15 minute summer	SWM 3	9	6.509	0.029	1.6	0.0083	0.0000	OK	3	S1	1.6	0.857	0.060	0.0022	
15 minute summer	SWM 4	8	6.611	0.021	0.9	0.0116	0.0000	OK	4	SWM 2	0.8	0.566	0.036	0.0053	
15 minute summer	SWM 5	8	6.714	0.014	0.4	0.0068	0.0000	OK	5	SWM 6	0.4	0.489	0.042	0.0042	
15 minute summer	SWM 6	9	6.607	0.017	0.6	0.0058	0.0000	OK	6	SWM 2	0.5	0.365	0.033	0.0039	
240 minute winter	S1	172	6.442	-0.008	0.3	1.0511	0.0000	OK	Infiltration		0.0				

Results for 30 year Critical Storm Duration. Lowest mass balance: 91.01%															
Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	SWM 1	6	6.597	0.037	1.6	0.0170	0.0000	OK	1	SWM 2	1.4	0.435	0.293	0.0256	
240 minute winter	SWM 2	200	6.590	0.080	1.1	0.0225	0.0000	OK	2	SWM 3	1.4	0.668	0.046	0.0116	
180 minute winter	SWM 3	186	6.580	0.110	0.8	0.0313	0.0000	OK	3	S1	0.8	0.691	0.026	0.0155	
15 minute summer	SWM 4	6	6.625	0.035	2.2	0.0191	0.0000	OK	4	SWM 2	2.0	0.855	0.237	0.0125	
15 minute summer	SWM 5	6	6.723	0.023	1.1	0.0113	0.0000	OK	5	SWM 6	1.0	0.624	0.116	0.0088	
15 minute summer	SWM 6	6	6.618	0.028	1.5	0.0096	0.0000	OK	6	SWM 2	1.3	0.481	0.173	0.0139	
240 minute winter	S1	196	6.589	0.139	1.7	2.7697	0.0000	OK	Infiltration		0.0				

Results for 100 year -20% Critical Storm Duration. Lowest mass balance: 91.01%															
Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
360 minute winter	SWM 1	344	6.737	0.177	0.2	0.0811	0.0000	FLOOD RISK	1	SWM 2	0.4	0.273	0.092	0.0028	
360 minute winter	SWM 2	344	6.738	0.228	1.8	0.0648	0.0000	FLOOD RISK	2	SWM 3	2.3	0.640	0.073	0.0176	
360 minute winter	SWM 3	336	6.736	0.256	2.8	0.0725	0.0000	FLOOD RISK	3	S1	1.2	0.831	0.038	0.0178	
360 minute winter	SWM 4	344	6.737	0.147	0.3	0.0794	0.0000	FLOOD RISK	4	SWM 2	0.5	0.404	0.058	0.0313	
360 minute winter	SWM 5	344	6.737	0.037	0.2	0.0177	0.0000	OK	5	SWM 6	0.2	0.371	0.023	0.0287	
360 minute winter	SWM 6	344	6.737	0.147	0.3	0.0510	0.0000	FLOOD RISK	6	SWM 2	0.5	0.315	0.068	0.0391	
360 minute winter	S1	344	6.737	0.287	1.2	4.4878	0.0000	OK	Infiltration		0.0				

Results for 1 year 15 minute summer: 255 minute analysis at 1 minute timestep: Mass balance: 100.00%															
Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	SWM 1	8	6.583	0.023	0.7	0.0106	0.0000	OK	1	SWM 2	0.6	0.360	0.117	0.0126	
15 minute summer	SWM 2	9	6.599	0.023	1.8	0.0082	0.0000	OK	2	SWM 3	1.8	0.788	0.058	0.0024	
15 minute summer	SWM 3	9	6.503	0.029	1.8	0.0083	0.0000	OK	3	S1	1.8	0.857	0.060	0.0022	
15 minute summer	SWM 4	8	6.611	0.021	0.9	0.0116	0.0000	OK	4	SWM 2	0.8	0.566	0.036	0.0053	
15 minute summer	SWM 5	8	6.714	0.014	0.4	0.0068	0.0000	OK	5	SWM 6	0.4	0.483	0.042	0.0042	
15 minute summer	SWM 6	9	6.607	0.017	0.6	0.0058	0.0000	OK	6	SWM 2	0.5	0.365	0.033	0.0039	
15 minute summer	S1	23	6.385	-0.055	1.8	0.5162	0.0000	OK	Infiltration		0.0				

Results for 1 year 15 minute winter, 255 minute analysis at 1 minute timestep, Mass balance: 100.00%															
Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute winter	SWM 1	6	6.581	0.021	0.5	0.0095	0.0000	OK	1	SWM 2	0.4	0.325	0.094	0.0112	
15 minute winter	SWM 2	9	6.597	0.027	1.6	0.0075	0.0000	OK	2	SWM 3	1.5	0.740	0.050	0.0021	
15 minute winter	SWM 3	9	6.507	0.027	1.5	0.0075	0.0000	OK	3	S1	1.6	0.821	0.051	0.0019	
15 minute winter	SWM 4	5	6.609	0.019	0.7	0.0103	0.0000	OK	4	SWM 2	0.7	0.516	0.078	0.0053	
15 minute winter	SWM 5	9	6.713	0.013	0.3	0.0062	0.0000	OK	5	SWM 6	0.3	0.482	0.035	0.0033	
15 minute winter	SWM 6	8	6.608	0.016	0.5	0.0057	0.0000	OK	6	SWM 2	0.4	0.369	0.058	0.0082	
15 minute winter	S1	23	6.400	-0.050	1.6	0.5710	0.0000	OK	Infiltration		0.0				

Results for 1 year 30 minute summer: 270 minute analysis at 1 minute timestep. Mass balance: 100.00%															
Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
30 minute summer	SWM 1	16	6.579	0.019	0.4	0.0089	0.0000	OK	1	SWM 2	0.4	0.308	0.082	0.0102	
30 minute summer	SWM 2	16	6.535	0.025	1.4	0.0070	0.0000	OK	2	SWM 3	1.3	0.722	0.043	0.0019	
30 minute summer	SWM 3	16	6.504	0.024	1.3	0.0069	0.0000	OK	3	S1	1.3	0.788	0.043	0.0017	
30 minute summer	SWM 4	16	6.608	0.018	0.6	0.0097	0.0000	OK	4	SWM 2	0.6	0.502	0.070	0.0048	
30 minute summer	SWM 5	16	6.713	0.013	0.3	0.0062	0.0000	OK	5	SWM 6	0.3	0.483	0.035	0.0037	
30 minute summer	SWM 6	16	6.605	0.015	0.4	0.0053	0.0000	OK	6	SWM 2	0.4	0.356	0.050	0.0056	
30 minute summer	S1	35	6.408	-0.042	1.3	0.6648	0.0000	OK	Infiltration		0.0				

Results for 1 year 30 minute winter, 270 minute analysis at 1 minute timestep, Mass balance: 100.00%															
Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
30 minute winter	SWM 1	17	6.577	0.017	0.3	0.0078	0.0000	OK	1	SWM 2	0.3	0.291	0.063	0.0086	
30 minute winter	SWM 2	16	6.592	0.022	1.1	0.0062	0.0000	OK	2	SWM 3	1.1	0.669	0.035	0.0016	
30 minute winter	SWM 3	16	6.502	0.022	1.1	0.0062	0.0000	OK	3	S1	1.1	0.746	0.035	0.0015	
30 minute winter	SWM 4	16	6.606	0.016	0.5	0.0089	0.0000	OK	4	SWM 2	0.5	0.464	0.056	0.0042	
30 minute winter	SWM 5	18	6.711	0.011	0.2	0.0051	0.0000	OK	5	SWM 6	0.2	0.484	0.023	0.0030	
30 minute winter	SWM 6	16	6.604	0.014	0.3	0.0047	0.0000	OK	6	SWM 2	0.3	0.356	0.033	0.0047	
30 minute winter	S1	35	6.416	-0.034	1.1	0.7498	0.0000	OK	Infiltration		0.0				

Results for 1 year 60 minute summer: 360 minute analysis at 1 minute timestep. Mass balance: 100.00%															
Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
60 minute summer	SWM 1	32	6.577	0.017	0.3	0.0076	0.0000	OK	1	SWM 2	0.3	0.292	0.063	0.0082	
60 minute summer	SWM 2	32	6.531	0.021	1.0	0.0058	0.0000	OK	2	SWM 3	1.0	0.674	0.032	0.0015	
60 minute summer	SWM 3	32	6.501	0.021	1.0	0.0059	0.0000	OK	3	S1	1.0	0.734	0.032	0.0014	
60 minute summer	SWM 4	31	6.605	0.015	0.4	0.0080	0.0000	OK	4	SWM 2	0.4	0.485	0.047	0.0038	
60 minute summer	SWM 5	32	6.711	0.011	0.2	0.0051	0.0000	OK	5	SWM 6	0.2	0.489	0.023	0.0030	
60 minute summer	SWM 6	30	6.604	0.014	0.3	0.0047	0.0000	OK	6	SWM 2	0.3	0.345	0.029	0.0045	
60 minute summer	S1	52	6.417	-0.033	1.0	0.7588	0.0000	OK	Infiltration		0.0				

Results for 1 year 60 minute winter, 300 minute analysis at 1 minute timestep, Mass balance: 100.00%															
Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
60 minute winter	SWM 1	35	6.574	0.014	0.2	0.0084	0.0000	OK	1	SWM 2	0.2	0.274	0.042	0.0065	
60 minute winter	SWM 2	32	6.528	0.018	0.8	0.0052	0.0000	OK	2	SWM 3	0.8	0.639	0.025	0.0012	
60 minute winter	SWM 3	32	6.493	0.018	0.3	0.0052	0.0000	OK	3	S1	0.3	0.636	0.025	0.0011	
60 minute winter	SWM 4	32	6.503	0.013	0.3	0.0070	0.0000	OK	4	SWM 2	0.3	0.485	0.035	0.0031	
60 minute winter	SWM 5	31	6.710	0.010	0.2	0.0051	0.0000	OK	5	SWM 6	0.2	0.483	0.023	0.0028	
60 minute winter	SWM 6	31	6.603	0.010	0.3	0.0045	0.0000	OK	6	SWM 2	0.3	0.356	0.036	0.0039	
60 minute winter	S1	60	6.431	-0.019	0.8	0.9548	0.0000	OK	Infiltration		0.0				

Results for 1 year 120 minute summer, 360 minute analysis at 2 minute timestep. Mass balance: 105.00%															
Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
120 minute summer	SWM 1	64	6.574	0.014	0.2	0.0064	0.0000	OK	1	SWM 2	0.2	0.268	0.042	0.0062	
120 minute summer	SWM 2	62	6.527	0.017	0.7	0.0049	0.0000	OK	2	SWM 3	0.7	0.623	0.023	0.0011	
120 minute summer	SWM 3	62	6.497	0.017	0.7	0.0048	0.0000	OK	3	S1	0.7	0.689	0.023	0.0010	
120 minute summer	SWM 4	62	6.603	0.013	0.3	0.0070	0.0000	OK	4	SWM 2	0.3	0.429	0.035	0.0030	
120 minute summer	SWM 5	52	6.708	0.008	0.1	0.0038	0.0000	OK	5	SWM 6	0.1	0.420	0.012	0.0021	
120 minute summer	SWM 6	62	6.601	0.011	0.2	0.0039	0.0000	OK	6	SWM 2	0.2	0.367	0.025	0.0004	
120 minute summer	S1	85	6.419	-0.031	0.7	0.7861	0.0000	OK	Infiltration		0.0				

Results for 1 year 120 minute winter, 360 minute analysis at 2 minute timestep. Mass balance: 100.00%															
Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
120 minute winter	SWM 1	44	6.576	0.010	0.1	0.0047	0.0000	OK	1	SWM 2	0.1	0.257	0.021	0.0040	
120 minute winter	SWM 2	60	6.523	0.013	0.4	0.0037	0.0000	OK	2	SWM 3	0.4	0.546	0.013	0.0007	
120 minute winter	SWM 3	60	6.493	0.013	0.4	0.0037	0.0000	OK	3	S1	0.4	0.574	0.013	0.0007	
120 minute winter	SWM 4	60	6.601	0.011	0.2	0.0057	0.0000	OK	4	SWM 2	0.2	0.429	0.023	0.0021	
120 minute winter	SWM 5	46	6.708	0.008	0.1	0.0036	0.0000	OK	5	SWM 8	0.1	0.420	0.012	0.0016	
120 minute winter	SWM 6	50	6.566	0.008	0.1	0.0028	0.0000	OK	6	SWM 2	0.1	0.262	0.013	0.0022	
120 minute winter	S1	96	6.430	-0.020	0.4	0.0136	0.0000	OK	Infiltration		0.0				

Results for 1 year 180 minute summer, 420 minute analysis at 6 minute timestep, Mass balance: 105.00%															
Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
180 minute summer	SWM 1	92	6.573	0.013	0.2	0.0061	0.0000	OK	1	SWM 2	0.2	0.265	0.038	0.0055	
180 minute summer	SWM 2	92	6.525	0.015	0.6	0.0043	0.0000	OK	2	SWM 3	0.5	0.582	0.018	0.0009	
180 minute summer	SWM 3	92	6.495	0.015	0.5	0.0043	0.0000	OK	3	S1	0.5	0.620	0.017	0.0008	
180 minute summer	SWM 4	92	6.601	0.011	0.2	0.0057	0.0000	OK	4	SWM 2	0.2	0.455	0.023	0.0024	
180 minute summer	SWM 5	84	6.708	0.008	0.1	0.0037	0.0000	OK	5	SWM 6	0.1	0.452	0.012	0.0020	
180 minute summer	SWM 6	92	6.601	0.011	0.2	0.0037	0.0000	OK	6	SWM 2	0.2	0.310	0.024	0.0000	
180 minute summer	S1	124	6.420	-0.030	0.5	0.0022	0.0000	OK	Infiltration		0.0				

Results for 1 year 180 minute winter, 420 minute analysis at 4 minute timestep, Mass balance: 100.00%															
Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
180 minute winter	SWM 1	72	6.576	0.010	0.1	0.0047	0.0000	OK	1	SWM 2	0.1	0.258	0.021	0.0035	
180 minute winter	SWM 2	80	6.521	0.011	0.3	0.0032	0.0000	OK	2	SWM 3	0.3	0.508	0.010	0.0006	
180 minute winter	SWM 3	84	6.491	0.011	0.3	0.0032	0.0000	OK	3	S1	0.3	0.509	0.010	0.0006	
180 minute winter	SWM 4	90	6.593	0.008	0.1	0.0043	0.0000	OK	4	SWM 2	0.1	0.455	0.012	0.0015	
180 minute winter	SWM 5	80	6.708	0.008	0.1	0.0037	0.0000	OK	5	SWM 8	0.1	0.452	0.012	0.0016	
180 minute winter	SWM 6	80	6.566	0.008	0.1	0.0028	0.0000	OK	6	SWM 2	0.1	0.262	0.013	0.0019	
180 minute winter	S1	136	6.433	-0.017	0.3	0.9457	0.0000	OK	Infiltration		0.0				

Results for 1 year 240 minute summer. 480 minute analysis at 6 minute timestep. Mass balance: 105.00%															
Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
240 minute summer	SWM 1	108	6.570	0.010	0.1	0.0047	0.0000	OK	1	SWM 2	0.1	0.257	0.021	0.0040	
240 minute summer	SWM 2	124	6.523	0.013	0.4	0.0037	0.0000	OK	2	SWM 3	0.4	0.547	0.013	0.0007	
240 minute summer	SWM 3	124	6.493	0.013	0.4	0.0037	0.0000	OK	3	S1	0.4	0.574	0.013	0.0007	
240 minute summer	SWM 4	124	6.601	0.011	0.2	0.0057	0.0000	OK	4	SWM 2	0.2	0.455	0.023	0.0021	
240 minute summer	SWM 5	112	6.708	0.008	0.1	0.0037	0.0000	OK	5	SWM 6	0.1	0.452	0.012	0.0016	
240 minute summer	SWM 6	112	6.598	0.008	0.1	0.0028	0.0000	OK	6	SWM 2	0.1	0.252	0.013	0.0022	
240 minute summer	S1	160	6.424	-0.026	0.4	0.0400	0.0000	OK	Infiltration		0.0				

Results for 1 year 240 minute winter, 480 minute analysis at 4 minute timestep, Mass balance: 100.00%															
Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
240 minute winter	SWM 1	104	6.576	0.010	0.1	0.0047	0.0000	OK	1	SWM 2	0.1	0.258	0.021	0.0035	
240 minute winter	SWM 2	112	6.521	0.011	0.3	0.0032	0.0000	OK	2	SWM 3	0.3	0.508	0.010	0.0006	
240 minute winter	SWM 3	116	6.491	0.011	0.3	0.0032	0.0000	OK	3	S1	0.3	0.509	0.010	0.0006	
240 minute winter	SWM 4	84	6.593	0.008	0.1	0.0043	0.0000	OK	4	SWM 2	0.1	0.455	0.012	0.0015	
240 minute winter	SWM 5	112	6.708	0.008	0.1	0.0037	0.0000	OK	5	SWM 8	0.1	0.452	0.012	0.0016	
240 minute winter	SWM 6	112	6.568	0.008	0.1	0.0028	0.0000	OK	6	SWM 2	0.1	0.262	0.013	0.0019	
240 minute winter	S1	172	6.442	-0.008	0.3	1.0511	0.0000	OK	Infiltration		0.0				

Results for 1 year 360 minute summer. 600 minute analysis at 5 minute timestep. Mass balance: 105.00%															
Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
360 minute summer	SWM 1	168	6.570	0.010	0.1	0.0047	0.0000	OK	1	SWM 2	0.1	0.258	0.021	0.0005	
360 minute summer	SWM 2	184	6.521	0.011	0.3	0.0032	0.0000	OK	2	SWM 3	0.3	0.507	0.010	0.0006	
360 minute summer	SWM 3	184	6.491	0.011	0.3	0.0032	0.0000	OK	3	S1	0.3	0.529	0.010	0.0006	
360 minute summer	SWM 4	218	6.598	0.008	0.1	0.0042	0.0000	OK	4	SWM 2	0.1	0.388	0.012	0.0015	
360 minute summer	SWM 5	184	6.708	0.008	0.1	0.0037	0.0000	OK	5	SWM 6	0.1	0.385	0.012	0.0016	
360 minute summer	SWM 6	184	6.598	0.008	0.1	0.0028	0.0000	OK	6	SWM 2	0.1	0.252	0.013	0.0019	
360 minute summer	S1	224	6.423	-0.027	0.3	0.0008	0.0000	OK	Infiltration		0.0				

Results for 1 year 360 minute winter, 600 minute analysis at 6 minute timestep, Mass balance: 100.00%															
Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
360 minute winter	SWM 1	168	6.576	0.010	0.1	0.0047	0.0000	OK	1	SWM 2	0.1	0.258	0.021	0.0031	
360 minute winter	SWM 2	176	6.519	0.009	0.2	0.0028	0.0000	OK	2	SWM 3	0.2	0.456	0.006	0.0004	
360 minute winter	SWM 3	163	6.469	0.009	0.2	0.0026	0.0000	OK	3	S1	0.2	0.471	0.006	0.0004	
360 minute winter	SWM 4	144	6.593	0.008	0.1	0.0043	0.0000	OK	4	SWM 2	0.1	0.397	0.012	0.0013	
360 minute winter	SWM 5	8	6.700	0.000	0.0	0.0000	0.0000	OK	5	SWM 8	0.0	0.000	0.000	0.0000	
360 minute winter	SWM 6	8	6.560	0.000	0.0	0.0000	0.0000	OK	6	SWM 2	0.0	0.000	0.000	0.0000	
360 minute winter	S1	240	6.433	-0.017	0.2	0.0415	0.0000	OK	Infiltration		0.0				

Results for 1 year 480 minute summer, 720 minute analysis at 5 minute timestep, Mass balance: 105.00%															
Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
480 minute summer	SWM 1	240	6.570	0.010	0.1	0.0047	0.0000	OK	1	SWM 2	0.1	0.258	0.021	0.0001	
480 minute summer	SWM 2	248	6.513	0.009	0.2	0.0028	0.0000	OK	2	SWM 3	0.2	0.456	0.006	0.0004	
480 minute summer	SWM 3	240	6.489	0.008	0.2	0.0026	0.0000	OK	3	S1	0.2	0.471	0.008	0.0004	
480 minute summer	SWM 4	218	6.598	0.008	0.1	0.0043	0.0000	OK	4	SWM 2	0.1	0.387	0.012	0.0013	
480 minute summer	SWM 5	8	6.700	0.000	0.0	0.0000	0.0000	OK	5	SWM 6	0.0	0.000	0.000	0.0000	
480 minute summer	SWM 6	8	6.590	0.000	0.0	0.0000	0.0000	OK	6	SWM 2	0.0	0.000	0.000	0.0000	
480 minute summer	S1	288	6.410	-0.040	0.2	0.0877	0.0000	OK	Infiltration		0.0				

Results for 1 year 480 minute winter, 720 minute analysis at 6 minute timestep, Mass balance: 100.00%															
Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
480 minute winter	SWM 1	240	6.576	0.010	0.1	0.0047	0.0000	OK	1	SWM 2	0.1	0.258	0.021	0.0031	
480 minute winter	SWM 2	248	6.519	0.009	0.2	0.0028	0.0000	OK	2	SWM 3	0.2	0.456	0.006	0.0004	
480 minute winter	SWM 3	240	6.469	0.009	0.2	0.0026	0.0000	OK	3	S1	0.2	0.471	0.006	0.0004	
480 minute winter	SWM 4	268	6.596	0.008	0.1	0.0043	0.0000	OK	4	SWM 2	0.1	0.397	0.012	0.0013	
480 minute winter	SWM 5	8	6.700	0.000	0.0	0.0000	0.0000	OK	5	SWM 6	0.0	0.000	0.000	0.0000	
480 minute winter	SWM 6	8	6.560	0.000	0.0	0.0000	0.0000	OK	6	SWM 2	0.0	0.000	0.000	0.0000	
480 minute winter	S1	304	6.424	-0.026	0.2	0.8441	0.0000	OK	Infiltration		0.0				

Results for 1 year 600 minute summer, 600 minute analysis at 15 minute timestep, Mass balance: 100.00%															
Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
600 minute summer	SWM 1	315	6.570	0.010	0.1	0.0047	0.0000	OK	1	SWM 2	0.1	0.258	0.021	0.0001	
600 minute summer	SWM 2	315	6.513	0.009	0.2	0.0028	0.0000	OK	2	SWM 3	0.2	0.456	0.006	0.0004	
600 minute summer	SWM 3	315	6.489	0.008	0.2	0.0026	0.0000	OK	3	S1	0.2	0.471	0.008	0.0004	
600 minute summer	SWM 4	285	6.598	0.008	0.1	0.0043	0.0000	OK	4	SWM 2	0.1	0.387	0.012	0.0013	
600 minute summer	SWM 5	15	6.700	0.000	0.0	0.0000	0.0000	OK	5	SWM 6	0.0	0.000	0.000	0.0000	
600 minute summer	SWM 6	15	6.590	0.000	0.0	0.0000	0.0000	OK	6	SWM 2	0.0	0.000	0.000	0.0000	
600 minute summer	S1	360	6.405	-0.045	0.2	0.0024	0.0000	OK	Infiltration		0.0				

Results for 1 year 600 minute winter, 640 minute analysis at 15 minute timestep. Mass balance: 100.00%															
Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
600 minute winter	SWM 1	15	6.566	0.000	0.0	0.0000	0.0000	OK	1	SWM 2	0.0	0.000	0.000	0.0000	
600 minute winter	SWM 2	265	6.517	0.007	0.1	0.0019	0.0000	OK	2	SWM 3	0.1	0.381	0.003	0.0003	
600 minute winter	SWM 3	285	6.467	0.007	0.1	0.0019	0.0000	OK	3	S1	0.1	0.390	0.003	0.0003	
600 minute winter	SWM 4	285	6.593	0.008	0.1	0.0043	0.0000	OK	4	SWM 2	0.1	0.397	0.012	0.0010	
600 minute winter	SWM 5	15	6.700	0.000	0.0	0.0000	0.0000	OK	5	SWM 8	0.0	0.000	0.000	0.0000	
600 minute winter	SWM 6	15	6.566	0.000	0.0	0.0000	0.0000	OK	6	SWM 2	0.0	0.000	0.000	0.0000	
600 minute winter	S1	360	6.391	-0.059	0.1	0.4714	0.0000	OK	Infiltration		0.0				

Results for 1 year 720 minute summer, 960 minute analysis at 15 minute timestep, Mass balance: 100.00%															
Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
720 minute summer	SWM 1	375	6.570	0.010	0.1	0.0047	0.0000	OK	1	SWM 2	0.1	0.258	0.021	0.0001	
720 minute summer	SWM 2	375	6.513	0.009	0.2	0.0028	0.0000	OK	2	SWM 3	0.2	0.456	0.006	0.0004	
720 minute summer	SWM 3	375	6.489	0.008	0.2	0.0026	0.0000	OK	3	S1	0.2	0.471	0.008	0.0004	
720 minute summer	SWM 4	345	6.598	0.008	0.1	0.0043	0.0000	OK	4	SWM 2	0.1	0.387	0.012	0.0013	
720 minute summer	SWM 5	15	6.700	0.000	0.0	0.0000	0.0000	OK	5	SWM 6	0.0	0.000	0.000	0.0000	
720 minute summer	SWM 6	15	6.590	0.000	0.0	0.0000	0.0000	OK	6	SWM 2	0.0	0.000	0.000	0.0000	
720 minute summer	S1	420	6.405	-0.045	0.2	0.0024	0.0000	OK	Infiltration		0.0				

Results for 1 year 720 minute winter, 960 minute analysis at 15 minute timestep. Mass balance: 100.00%															
Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
720 minute winter	SWM 1	15	6.566	0.000	0.0	0.0000	0.0000	OK	1	SWM 2	0.0	0.000	0.000	0.0000	
720 minute winter	SWM 2	345	6.517	0.007	0.1	0.0019	0.0000	OK	2	SWM 3	0.1	0.381	0.003	0.0003	
720 minute winter	SWM 3	345	6.467	0.007	0.1	0.0019	0.0000	OK	3	S1	0.1	0.390	0.003	0.0003	
720 minute winter	SWM 4	345	6.593	0.008	0.1	0.0043	0.0000	OK	4	SWM 2	0.1	0.397	0.012	0.0010	
720 minute winter	SWM 5	15	6.700	0.000	0.0	0.0000	0.0000	OK	5	SWM 8	0.0	0.000	0.000	0.0000	
720 minute winter	SWM 6	15	6.566	0.000	0.0	0.0000	0.0000	OK	6	SWM 2	0.0	0.000	0.000	0.0000	
720 minute winter	S1	420	6.391	-0.059	0.1	0.4714	0.0000	OK	Infiltration		0.0				

Results for 1 year 960 minute summer, 1200 minute analysis at 15 minute timestep, Mass balances: 100.50%															
Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
960 minute summer	SWM 1	15	6.560	0.000	0.0	0.0000	0.0000	OK	1	SWM 2	0.0	0.000	0.000	0.0000	
960 minute summer	SWM 2	480	6.517	0.007	0.1	0.0019	0.0000	OK	2	SWM 3	0.1	0.381	0.003	0.0003	
960 minute summer	SWM 3	480	6.487	0.007	0.1	0.0018	0.0000	OK	3	S1	0.1	0.390	0.003	0.0003	
960 minute summer	SWM 4	480	6.598	0.008	0.1	0.0043	0.0000	OK	4	SWM 2	0.1	0.387	0.012	0.0010	
960 minute summer	SWM 5	15	6.700	0.000	0.0	0.0000	0.0000	OK	5	SWM 6	0.0	0.000	0.000	0.0000	
960 minute summer	SWM 6	15	6.590	0.000	0.0	0.0000	0.0000	OK	6	SWM 2	0.0	0.000	0.000	0.0000	
960 minute summer	S1	525	6.378	-0.072	0.1	0.3025	0.0000	OK	Infiltration		0.0				

Results for 1 year 960 minute winter, 1200 minute analysis at 15 minute timestep. Mass balance: 100.00%															
Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
960 minute winter	SWM 1	15	6.560	0.000	0.0	0.0000	0.0000	OK	1	SWM 2	0.0	0.000	0.000	0.0000	
960 minute winter	SWM 2	15	6.510	0.000	0.0	0.0000	0.0000	OK	2	SWM 3	0.0	0.000	0.000	0.0000	
960 minute winter	SWM 3	15	6.460	0.000	0.0	0.0000	0.0000	OK	3	S1	0.0	0.000	0.000	0.0000	
960 minute winter	SWM 4	15	6.590	0.000	0.0	0.0000	0.0000	OK	4	SWM 2	0.0	0.000	0.000	0.0000	
960 minute winter	SWM 5	15	6.700	0.000	0.0	0.0000	0.0000	OK	5	SWM 8	0.0	0.000	0.000	0.0000	
960 minute winter	SWM 6	15	6.560	0.000	0.0	0.0000	0.0000	OK	6	SWM 2	0.0	0.000	0.000	0.0000	
960 minute winter	S1	15	6.350	-0.100	0.0	0.0000	0.0000	OK	Infiltration		0.0				

Results for 1 year 1440 minute summer, 1680 minute analysis at 30 minute timestep. Mass balance: 105.00%															
Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
1440 minute summer	SWM 1	30	6.560	0.000	0.0	0.0000	0.0000	OK	1	SWM 2	0.0	0.000	0.000	0.0000	
1440 minute summer	SWM 2	30	6.510	0.000	0.0	0.0000	0.0000	OK	2	SWM 3	0.0	0.000	0.000	0.0000	
1440 minute summer	SWM 3	30	6.480	0.000	0.0	0.0000	0.0000	OK	3	S1	0.0	0.000	0.000	0.0000	
1440 minute summer	SWM 4	30	6.530	0.000	0.0	0.0000	0.0000	OK	4	SWM 2	0.0	0.000	0.000	0.0000	
1440 minute summer	SWM 5	30	6.700	0.000	0.0	0.0000	0.0000	OK	5	SWM 6	0.0	0.000	0.000	0.0000	
1440 minute summer	SWM 6	30	6.590	0.000	0.0	0.0000	0.0000	OK	6	SWM 2	0.0	0.000	0.000	0.0000	
1440 minute summer	S1	30	6.350	-0.100	0.0	0.0000	0.0000	OK	Infiltration		0.0				

Results for 1 year 1440 minute winter, 1680 minute analysis at 30 minute timestep. Mass balance: 100.00%															
Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
1440 minute winter	SWM 1	30	6.580	0.000	0.0	0.0000	0.0000	OK	1	SWM 2	0.0	0.000	0.000	0.0000	
1440 minute winter	SWM 2	30	6.510	0.000	0.0	0.0000	0.0000	OK	2	SWM 3	0.0	0.000	0.000	0.0000	
1440 minute winter	SWM 3	30	6.480	0.000	0.0	0.0000	0.0000	OK	3	S1	0.0	0.000	0.000	0.0000	
1440 minute winter	SWM 4	30	6.580	0.000	0.0	0.0000	0.0000	OK	4	SWM 2	0.0	0.000	0.000	0.0000	
1440 minute winter	SWM 5	30	6.700	0.000	0.0	0.0000	0.0000	OK	5	SWM 6	0.0	0.000	0.000	0.0000	
1440 minute winter	SWM 6	30	6.580	0.000	0.0	0.0000	0.0000	OK	6	SWM 2	0.0	0.000	0.000	0.0000	
1440 minute winter	S1	30	6.350	-0.100	0.0	0.0000	0.0000	OK	Infiltration		0.0				

Results for 30 year 15 minute summer, 255 minute analysis at 1 minute timestep. Mass balance: 105.00%															
Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	SWM 1	8	6.597	0.037	1.6	0.0170	0.0000	OK	1	SWM 2	1.4	0.435	0.293	0.0256	
15 minute summer	SWM 2	9	6.559	0.043	4.6	0.0138	0.0000	OK	2	SWM 3	4.3	0.908	0.146	0.0043	
15 minute summer	SWM 3	9	6.528	0.048	4.3	0.0137	0.0000	OK	3	S1	4.5	1.063	0.146	0.0042	
15 minute summer	SWM 4	8	6.625	0.035	2.2	0.0191	0.0000	OK	4	SWM 2	2.0	0.855	0.237	0.0125	
15 minute summer	SWM 5	8	6.723	0.023	1.1	0.0113	0.0000	OK	5	SWM 6	1.0	0.624	0.116	0.0088	
15 minute summer	SWM 6	8	6.618	0.028	1.5	0.0098	0.0000	OK	6	SWM 2	1.3	0.481	0.173	0.0139	
15 minute summer	S1	23	6.467	0.017	4.5	1.3361	0.0000	OK	Infiltration		0.0				

Results for 30 year 15 minute winter, 255 minute analysis at 1 minute timestep. Mass balance: 100.00%															
Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute winter	SWM 1	8	6.595	0.035	1.3	0.0159	0.0000	OK	1	SWM 2	1.2	0.419	0.258	0.0235	
15 minute winter	SWM 2	9	6.556	0.046	4.0	0.0130	0.0000	OK	2	SWM 3	3.9	0.660	0.127	0.0045	
15 minute winter	SWM 3	9	6.525	0.045	3.9	0.0128	0.0000	OK	3	S1	4.0	1.030	0.129	0.0039	
15 minute winter	SWM 4	8	6.521	0.031	1.7	0.0183	0.0000	OK	4	SWM 2	1.7	0.632	0.193	0.0111	
15 minute winter	SWM 5	8	6.720	0.020	0.8	0.0098	0.0000	OK	5	SWM 6	0.8	0.562	0.099	0.0078	
15 minute winter	SWM 6	9	6.618	0.026	1.2	0.0091	0.0000	OK	6	SWM 2	1.1	0.451	0.150	0.0129	
15 minute winter	S1	23	6.480	0.030	4.0	1.4964	0.0000	OK	Infiltration		0.0				

Results for 30 year 30 minute summer, 270 minute analysis at 1 minute timestep. Mass balance: 105.00%															
Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
30 minute summer	SWM 1	16	6.593	0.030	1.1	0.0146	0.0000	OK	1	SWM 2	1.1	0.403	0.230	0.0218	
30 minute summer	SWM 2	16	6.553	0.043	3.6	0.0122	0.0000	OK	2	SWM 3	3.6	0.863	0.115	0.0041	
30 minute summer	SWM 3	16	6.522	0.042	3.6	0.0119	0.0000	OK	3	S1	3.5	1.003	0.114	0.0035	
30 minute summer	SWM 4	16	6.616	0.028	1.4	0.0151	0.0000	OK	4	SWM 2	1.4	0.581	0.183	0.0160	
30 minute summer	SWM 5	16	6.713	0.019	0.7	0.0033	0.0000	OK	5	SWM 6	0.7	0.534	0.081	0.0072	
30 minute summer	SWM 6	16	6.616	0.026	1.1	0.0098	0.0000	OK	6	SWM 2	1.1	0.458	0.142	0.0120	
30 minute summer	S1	38	6.550	0.050	3.5	1.7187	0.0000	OK	Infiltration		0.0				

Results for 30 year 30 minute winter, 270 minute analysis at 1 minute timestep. Mass balance: 100.00%															
Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
30 minute winter	SWM 1	17	6.588	0.025	0.8	0.0127	0.0000	OK	1	SWM 2	0.8	0.374	0.168	0.0177	
30 minute winter	SWM 2	16	6.547	0.037	2.8	0.0106	0.0000	OK	2	SWM 3	2.8	0.825	0.090	0.0034	
30 minute winter	SWM 3	33	6.522	0.042	2.3	0.0119	0.0000	OK	3	S1	2.3	0.945	0.090	0.0062	
30 minute winter	SWM 4	16	6.614	0.024	1.1	0.0132	0.0000	OK	4	SWM 2	1.1	0.545	0.128	0.0083	
30 minute winter	SWM 5	16	6.715	0.018	0.6	0.0057	0.0000	OK	5	SWM 6	0.6	0.519	0.070	0.0064	
30 minute winter	SWM 6	16	6.613	0.023	0.9	0.0080	0.0000	OK	6	SWM 2	0.9	0.449	0.117	0.0101	
30 minute winter	S1	34	6.522	0.072	2.8	1.9859	0.0000	OK	Infiltration		0.0				

Results for 30 year 60 minute summer, 300 minute analysis at 1 minute timestep. Mass balance: 105.00%															
Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
60 minute summer	SWM 1	31	6.586	0.026	0.7	0.0116	0.0000	OK	1	SWM 2	0.7	0.356	0.146	0.0157	
60 minute summer	SWM 2	31	6.544	0.034	2.4	0.0096	0.0000	OK	2	SWM 3	2.4	0.802	0.077	0.0036	
60 minute summer	SWM 3	65	6.532	0.052	2.4	0.0146	0.0000	OK	3	S1	2.4	0.908	0.076	0.0077	
60 minute summer	SWM 4	31	6.613	0.023	1.0	0.0126	0.0000	OK	4	SWM 2	1.0	0.546	0.117	0.0074	
60 minute summer	SWM 5	31	6.718	0.016	0.5	0.0079	0.0000	OK	5	SWM 6	0.5	0.507	0.058	0.0054	
60 minute summer	SWM 6	31	6.610	0.020	0.7	0.0071	0.0000	OK	6	SWM 2	0.7	0.406	0.090	0.0067	
60 minute summer	S1	61	6.533	0.083	2.4	2.1102	0.0000	OK	Infiltration		0.0				

Results for 30 year 60 minute winter, 300 minute analysis at 1 minute timestep. Mass balance: 96.26%															
Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
60 minute winter	SWM 1	33	6.582	0.022	0.5	0.0100	0.0000	OK	1	SWM 2	0.5	0.332	0.105	0.0139	
60 minute winter	SWM 2	61	6.552	0.042	1.8	0.0119	0.0000	OK	2	SWM 3	1.8	0.760	0.058	0.0062	
60 minute winter	SWM 3	61	6.552	0.072	1.8	0.0202	0.0000	OK	3	S1	1.8	0.851	0.058	0.0105	
60 minute winter	SWM 4	32	6.609	0.019	0.7	0.0105	0.0000	OK	4	SWM 2	0.7	0.492	0.082	0.0067	
60 minute winter	SWM 5	32	6.715	0.015	0.4	0.0071	0.0000	OK	5	SWM 6	0.4	0.483	0.047	0.0048	
60 minute winter	SWM 6	32	6.609	0.019	0.6	0.0086	0.0000	OK	6	SWM 2	0.6	0.417	0.078	0.0083	
60 minute winter	S1	62	6.551	0.101	1.8	2.3545	0.0000	OK	Infiltration		0.0				

Results for 30 year 120 minute summer, 360 minute analysis at 2 minute timestep. Mass balance: 95.20%															
Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
120 minute summer	SWM 1	62	6.580	0.020	0.4	0.0060	0.0000	OK	1	SWM 2	0.4	0.316	0.084	0.0134	
120 minute summer	SWM 2	124	6.554	0.044	1.4	0.0125	0.0000	OK	2	SWM 3	1.4	0.723	0.045	0.0065	
120 minute summer	SWM 3	124	6.554	0.074	1.4	0.0210	0.0000	OK	3	S1	1.4	0.739	0.045	0.0108	
120 minute summer	SWM 4	62	6.606	0.018	0.6	0.0087	0.0000	OK	4	SWM 2	0.6	0.485	0.070	0.0070	
120 minute summer	SWM 5	62	6.713	0.013	0.3	0.0062	0.0000	OK	5	SWM 6	0.3	0.442	0.035	0.0037	
120 minute summer	SWM 6	64	6.606	0.016	0.4	0.0054	0.0000	OK	6	SWM 2	0.4	0.350	0.052	0.0064	
120 minute summer	S1	122	6.554	0.104	1.4	2.3596	0.0000	OK	Infiltration		0.0				

Results for 30 year 120 minute winter, 360 minute analysis at 2 minute timestep. Mass balance: 97.97%															
Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
120 minute winter	SWM 1	118	6.585	0.025	0.3	0.0115	0.0000	OK	1	SWM 2	0.3	0.312	0.083	0.0313	
120 minute winter	SWM 2	118	6.585	0.075	1.3	0.0212	0.0000	OK	2	SWM 3	1.6	0.734	0.052	0.0110	
120 minute winter	SWM 3	120	6.565	0.105	1.6	0.0299	0.0000	OK	3	S1	1.6	0.734	0.050	0.0149	
120 minute winter	SWM 4	56	6.605	0.015	0.4	0.0050	0.0000	OK	4	SWM 2	0.4	0.425	0.047	0.0129	
120 minute winter	SWM 5	56	6.711	0.011	0.2	0.0051	0.0000	OK	5	SWM 8	0.2	0.420	0.023	0.0030	
120 minute winter	SWM 6	56	6.604	0.014	0.3	0.0047	0.0000	OK	6	SWM 2	0.3	0.365	0.039	0.0158	
120 minute winter	S1	118	6.585	0.135	1.6	2.7148	0.0000	OK	Infiltration		0.0				

Results for 30 year 180 minute summer, 420 minute analysis at 4 minute timestep, Mass balance: 95.22%															
Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
180 minute summer	SWM 1	96	6.577	0.017	0.3	0.0078	0.0000	OK	1	SWM 2	0.3	0.290	0.063	0.0148	
180 minute summer	SWM 2	158	6.558	0.048	1.1	0.0135	0.0000	OK	2	SWM 3	1.2	0.683	0.038	0.0076	
180 minute summer	SWM 3	152	6.558	0.078	1.2	0.0221	0.0000	OK	3	S1	1.4	0.748	0.045	0.0114	
180 minute summer	SWM 4	92	6.606	0.018	0.5	0.0088	0.0000	OK	4	SWM 2	0.5	0.474	0.057	0.0077	
180 minute summer	SWM 5	92	6.711	0.011	0.2	0.0051	0.0000	OK	5	SWM 6	0.2	0.452	0.023	0.0030	
180 minute summer	SWM 6	92	6.604	0.014	0.3	0.0047	0.0000	OK	6	SWM 2	0.3	0.352	0.038	0.0083	
180 minute summer	S1	152	6.558	0.108	1.4	2.4013	0.0000	OK	Infiltration		0.0				

Results for 30 year 180 minute winter, 420 minute analysis at 4 minute timestep. Mass balance: 98.95%															
Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
180 minute winter	SWM 1	176	6.589	0.029	0.2	0.0134	0.0000	OK	1	SWM 2	0.2	0.268	0.042	0.0340	
180 minute winter	SWM 2	172	6.589	0.079	0.9	0.0224	0.0000	OK	2	SWM 3	0.8	0.691	0.026	0.0116	
180 minute winter	SWM 3	163	6.590	0.110	0.8	0.0313	0.0000	OK	3	S1	0.8	0.691	0.026	0.0155	
180 minute winter	SWM 4	84	6.603	0.013	0.3	0.0070	0.0000	OK	4	SWM 2	0.3	0.455	0.035	0.0137	
180 minute winter	SWM 5	32	6.711	0.011	0.2	0.0051	0.0000	OK	5	SWM 8	0.2	0.452	0.023	0.0030	
180 minute winter	SWM 6	82	6.604	0.014	0.3	0.0047	0.0000	OK	6	SWM 2	0.3	0.371	0.039	0.0165	
180 minute winter	S1	172	6.589	0.139	0.8	2.7660	0.0000	OK	Infiltration		0.0				

Results for 30 year 240 minute summer, 480 minute analysis at 4 minute timestep, Mass balance: 95.60%															
Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
240 minute summer	SWM 1	124	6.577	0.017	0.3	0.0078	0.0000	OK	1	SWM 2	0.3	0.292	0.063	0.0128	
240 minute summer	SWM 2	188	6.553	0.043	1.0	0.0123	0.0000	OK	2	SWM 3	1.0	0.676	0.032	0.0063	
240 minute summer	SWM 3	184	6.553	0.073	1.0	0.0206	0.0000	OK	3	S1	1.5	0.734	0.049	0.0107	
240 minute summer	SWM 4	124	6.605	0.015	0.4	0.0080	0.0000	OK	4	SWM 2	0.4	0.455	0.047	0.0087	
240 minute summer	SWM 5	124	6.711	0.011	0.2	0.0051	0.0000	OK	5	SWM 6	0.2	0.452	0.023	0.0030	
240 minute summer	SWM 6	124	6.604	0.014	0.3	0.0047	0.0000	OK	6	SWM 2	0.3	0.358	0.039	0.0080	
240 minute summer	S1	184	6.553	0.103	1.5	2.3407	0.0000	OK	Infiltration		0.0				

Results for 30 year 240 minute winter, 480 minute analysis at 4 minute timestep. Mass balance: 97.16%															
Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
240 minute winter	SWM 1	186	6.596	0.030	0.2	0.0139	0.0000	OK	1	SWM 2	0.2	0.291	0.042	0.0348	
240 minute winter	SWM 2	200	6.590	0.030	1.1	0.0225	0.0000	OK	2	SWM 3	1.4	0.669	0.046	0.0116	
240 minute winter	SWM 3	196	6.569	0.103	1.4	0.0303	0.0000	OK	3	S1	1.7	0.662	0.055	0.0153	
240 minute winter	SWM 4	124	6.603	0.013	0.3	0.0070	0.0000	OK	4	SWM 2	0.3	0.455	0.035	0.0139	
240 minute winter	SWM 5	80	6.708	0.008	0.1	0.0037	0.0000	OK	5	SWM 8	0.1	0.452	0.012	0.0021	
240 minute winter	SWM 6	108	6.661	0.011	0.2	0.0038	0.0000	OK	6	SWM 2	0.2	0.340	0.026	0.0168	
240 minute winter	S1	196	6.589	0.139	1.7	2.7697	0.0000	OK	Infiltration		0.0				

Results for 30 year 360 minute summer, 600 minute analysis at 6 minute timestep, Mass balance: 150.05%															
Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
360 minute summer	SWM 1	184	6.574	0.014	0.2	0.0064	0.0000	OK	1	SWM 2	0.2	0.272	0.042	0.0095	
360 minute summer	SWM 2	256	6.544	0.034	0.7	0.0097	0.0000	OK	2	SWM 3	0.7	0.622	0.022	0.0051	
360 minute summer	SWM 3	256	6.545	0.065	1.0	0.0183	0.0000	OK	3	S1	0.7	0.685	0.023	0.0095	
360 minute summer	SWM 4	184	6.603	0.013	0.3	0.0069	0.0000	OK	4	SWM 2	0.3	0.404	0.034	0.0052	
360 minute summer	SWM 5	160	6.708	0.008	0.1	0.0037	0.0000	OK	5	SWM 6	0.1	0.385	0.012	0.0021	
360 minute summer	SWM 6	184	6.601	0.011	0.2	0.0039	0.0000	OK	6	SWM 2	0.2	0.314	0.025	0.0059	
360 minute summer	S1	256	6.545	0.095	0.7	2.2462	0.0000	OK	Infiltration		0.0				

Results for 30 year 360 minute winter, 600 minute analysis at 5 minute timestep. Mass balance: 97.71%															
Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
360 minute winter	SWM 1	280	6.580	0.020	0.1	0.0093	0.0000	OK	1	SWM 2	0.1	0.258	0.021	0.0279	
360 minute winter	SWM 2	280	6.580	0.070	0.6	0.0198	0.0000	OK	2	SWM 3	1.3	0.574	0.041	0.0103	
360 minute winter	SWM 3	280	6.580	0.100	1.3	0.0284	0.0000	OK	3	S1	1.3	0.574	0.041	0.0144	
360 minute winter	SWM 4	160	6.601	0.011	0.2	0.0057	0.0000	OK	4	SWM 2	0.2	0.411	0.023	0.0122	
360 minute winter	SWM 5	136	6.708	0.008	0.1	0.0037	0.0000	OK	5	SWM 8	0.1	0.365	0.012	0.0016	
360 minute winter	SWM 6	136	6.598	0.008	0.1	0.0028	0.0000	OK	6	SWM 2	0.1	0.262	0.013	0.0146	
360 minute winter	S1	280	6.580	0.130	1.3	2.6600	0.0000	OK	Infiltration		0.0				

Results for 30 year 480 minute summer, 720 minute analysis at 8 minute timestep, Mass balance: 150.05%															
Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
480 minute summer	SWM 1	248	6.574	0.014	0.2	0.0064	0.0000	OK	1	SWM 2	0.2	0.274	0.042	0.0107	
480 minute summer	SWM 2	323	6.547	0.037	0.7	0.0105	0.0000	OK	2	SWM 3	0.6	0.602	0.018	0.0055	
480 minute summer	SWM 3	320	6.547	0.067	0.6	0.0188	0.0000	OK	3	S1	1.0	0.640	0.034	0.0098	
480 minute summer	SWM 4	232	6.601	0.011	0.2	0.0057	0.0000	OK	4	SWM 2	0.2	0.383	0.023	0.0055	
480 minute summer	SWM 5	215	6.708	0.008	0.1	0.0037	0.0000	OK	5	SWM 6	0.1	0.385	0.012	0.0021	
480 minute summer	SWM 6	248	6.601	0.011	0.2	0.0039	0.0000	OK	6	SWM 2	0.2	0.316	0.025	0.0067	
480 minute summer	S1	320	6.547	0.097	1.0	2.2700	0.0000	OK	Infiltration		0.0				

Results for 30 year 480 minute winter, 720 minute analysis at 5 minute timestep. Mass balance: 98.03%															
Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
480 minute winter	SWM 1	352	6.576	0.018	0.1	0.0063	0.0000	OK	1	SWM 2	0.1	0.258	0.021	0.0265	
480 minute winter	SWM 2	352	6.578	0.068	0.5	0.0193	0.0000	OK	2	SWM 3	0.8	0.574	0.026	0.0100	
480 minute winter	SWM 3	352	6.579	0.093	0.8	0.0280	0.0000	OK	3	S1	1.3	0.568	0.041	0.0142	
480 minute winter	SWM 4	240	6.601	0.011	0.2	0.0057	0.0000	OK	4	SWM 2	0.2	0.397	0.023	0.0118	
480 minute winter	SWM 5	200	6.708	0.008	0.1	0.0037	0.0000	OK	5	SWM 8	0.1	0.365	0.012	0.0016	
480 minute winter	SWM 6	200	6.566	0.008	0.1	0.0028	0.0000	OK	6	SWM 2	0.1	0.274	0.013	0.0142	
480 minute winter	S1	352	6.578	0.128	1.3	2.6364	0.0000	OK	Infiltration		0.0				

Results for 30 year 600 minute summer, 840 minute analysis at 15 minute timestep. Mass balance: 100.50%															
Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
600 minute summer	SWM 1	360	6.570	0.010	0.1	0.0046	0.0000	OK	1	SWM 2	0.1	0.250	0.021	0.0077	
600 minute summer	SWM 2	405	6.533	0.029	0.4	0.0083	0.0000	OK	2	SWM 3	0.5	0.547	0.016	0.0044	
600 minute summer	SWM 3	405	6.539	0.059	0.5	0.0167	0.0000	OK	3	S1	0.8	0.571	0.027	0.0087	
600 minute summer	SWM 4	315	6.601	0.011	0.2	0.0057	0.0000	OK	4	SWM 2	0.2	0.387	0.023	0.0039	
600 minute summer	SWM 5	285	6.708	0.008	0.1	0.0037	0.0000	OK	5	SWM 6	0.1	0.354	0.012	0.0016	
600 minute summer	SWM 6	285	6.598	0.008	0.1	0.0028	0.0000	OK	6	SWM 2	0.1	0.273	0.013	0.0048	
600 minute summer	S1	405	6.539	0.088	0.8	2.1791	0.0000	OK	Infiltration		0.0				

Results for 30 year 600 minute winter, 240 minute analysis at 15 minute timestep. Mass balance: 98.17%															
Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
600 minute winter	SWM 1	435	6.586	0.020	0.1	0.0092	0.0000	OK	1	SWM 2	0.1	0.258	0.021	0.0278	
600 minute winter	SWM 2	435	6.580	0.070	0.8	0.0198	0.0000	OK	2	SWM 3	-0.5	0.529	-0.015	0.0103	
600 minute winter	SWM 3	435	6.580	0.100	0.8	0.0283	0.0000	OK	3	S1	-0.7	0.509	-0.024	0.0144	
600 minute winter	SWM 4	210	6.593	0.058	0.1	0.0043	0.0000	OK	4	SWM 2	0.1	0.397	0.012	0.0120	
600 minute winter	SWM 5	270	6.708	0.008	0.1	0.0037	0.0000	OK	5	SWM 8	0.1	0.354	0.012	0.0016	
600 minute winter	SWM 6	270	6.598	0.008	0.1	0.0028	0.0000	OK	6	SWM 2	0.1	0.272	0.013	0.0146	
600 minute winter	S1	435	6.580	0.130	0.5	2.6551	0.0000	OK	Infiltration		0.0				

Results for 30 year 720 minute summer, 360 minute analysis at 15 minute timestep. Mass balance: 100.50%															
Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
720 minute summer	SWM 1	315	6.570	0.010	0.1	0.0047	0.0000	OK	1	SWM 2	0.1	0.258	0.021	0.0121	
720 minute summer	SWM 2	465	6.551	0.041	0.4	0.0118	0.0000	OK	2	SWM 3	0.5	0.556	0.016	0.0066	
720 minute summer	SWM 3	465	6.551	0.071	0.5	0.0200	0.0000	OK	3	S1	0.5	0.571	0.018	0.0104	
720 minute summer	SWM 4	375	6.601	0.011	0.2	0.0057	0.0000	OK	4	SWM 2	0.2	0.387	0.023	0.0083	
720 minute summer	SWM 5	345	6.708	0.008	0.1	0.0037	0.0000	OK	5	SWM 6	0.1	0.354	0.012	0.0016	
720 minute summer	SWM 6	345	6.598	0.008	0.1	0.0028	0.0000	OK	6	SWM 2	0.1	0.274	0.013	0.0075	
720 minute summer	S1	465	6.551	0.101	0.5	2.3151	0.0000	OK	Infiltration		0.0				

Results for 30 year 720 minute winter, 960 minute analysis at 15 minute timestep. Mass balance: 96.11%															
Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
720 minute winter	SWM 1	510	6.586	0.028	0.1	0.0130	0.0000	OK	1	SWM 2	0.1	0.258	0.021	0.0336	
720 minute winter	SWM 2	510	6.586	0.078	0.7	0.0221	0.0000	OK	2	SWM 3	0.7	0.529	0.024	0.0114	
720 minute winter	SWM 3	510	6.568	0.108	0.7	0.0305	0.0000	OK	3	S1	1.3	0.509	0.043	0.0152	
720 minute winter	SWM 4	265	6.593	0.058	0.1	0.0043	0.0000	OK	4	SWM 2	0.1	0.397	0.012	0.0135	
720 minute winter	SWM 5	345	6.708	0.008	0.1	0.0037	0.0000	OK	5	SWM 8	0.1	0.354	0.012	0.0016	
720 minute winter	SWM 6	345	6.566	0.008	0.1	0.0028	0.0000	OK	6	SWM 2	0.1	0.274	0.013	0.0164	
720 minute winter	S1	510	6.586	0.138	1.3	2.7524	0.0000	OK	Infiltration		0.0				

Results for 30 year 960 minute summer, 1200 minute analysis at 15 minute timestep. Mass balance: 105.00%															
Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
960 minute summer	SWM 1	540	6.570	0.010	0.1	0.0047	0.0000	OK	1	SWM 2	0.1	0.264	0.021	0.0064	
960 minute summer	SWM 2	600	6.536	0.028	0.4	0.0073	0.0000	OK	2	SWM 3	0.3	0.523	0.010	0.0040	
960 minute summer	SWM 3	600	6.536	0.056	0.5	0.0158	0.0000	OK	3	S1	0.5	0.529	0.018	0.0082	
960 minute summer	SWM 4	405	6.598	0.008	0.1	0.0043	0.0000	OK	4	SWM 2	0.1	0.387	0.012	0.0034	
960 minute summer	SWM 5	480	6.708	0.008	0.1	0.0037	0.0000	OK	5	SWM 6	0.1	0.354	0.012	0.0016	
960 minute summer	SWM 6	480	6.598	0.008	0.1	0.0028	0.0000	OK	6	SWM 2	0.1	0.252	0.013	0.0040	
960 minute summer	S1	800	6.536	0.086	0.5	2.1475	0.0000	OK	Infiltration		0.0				

Results for 30 year 960 minute winter, 1200 minute analysis at 15 minute timestep. Mass balance: 100.00%															
Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
960 minute winter	SWM 1	540	6.576	0.010	0.1	0.0048	0.0000	OK	1	SWM 2	0.1	0.265	0.021	0.0175	
960 minute winter	SWM 2	645	6.564	0.054	0.5	0.0152	0.0000	OK	2	SWM 3	0.5	0.471	0.016	0.0079	
960 minute winter	SWM 3	645	6.564	0.084	0.5	0.0237	0.0000	OK	3	S1	0.6	0.471	0.021	0.0122	
960 minute winter	SWM 4	360	6.593	0.058	0.1	0.0043	0.0000	OK	4	SWM 2	0.1	0.397	0.012	0.0037	
960 minute winter	SWM 5	15	8.700	0.000	0.0	0.0000	0.0000	OK	5	SWM 8	0.0	0.000	0.000	0.0000	
960 minute winter	SWM 6	15	6.560	0.000	0.0	0.0000	0.0000	OK	6	SWM 2	0.0	0.000	0.000	0.0107	
960 minute winter	S1	645	6.564	0.114	0.6	2.4689	0.0000	OK	Infiltration		0.0				

Results for 30 year 1440 minute summer, 1680 minute analysis at 30 minute timestep. Mass balance: 160.00%															
Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
1440 minute summer	SWM 1	720	6.570	0.010	0.1	0.0047	0.0000	OK	1	SWM 2	0.1	0.258	0.021	0.0031	
1440 minute summer	SWM 2	780	6.519	0.008	0.2	0.0026	0.0000	OK	2	SWM 3	0.2	0.471	0.006	0.0012	
1440 minute summer	SWM 3	870	6.508	0.028	0.2	0.0080	0.0000	OK	3	S1	0.4	0.471	0.014	0.0043	
1440 minute summer	SWM 4	840	6.538	0.008	0.1	0.0043	0.0000	OK	4	SWM 2	0.1	0.403	0.012	0.0013	
1440 minute summer	SWM 5	30	6.700	0.000	0.0	0.0000	0.0000	OK	5	SWM 6	0.0	0.000	0.000	0.0000	
1440 minute summer	SWM 6	30	6.590	0.000	0.0	0.0000	0.0000	OK	6	SWM 2	0.0	0.000	0.000	0.0000	
1440 minute summer	S1	870	6.508	0.038	0.4	1.8205	0.0000	OK	Infiltration		0.0				

Results for 30 year 1440 minute winter, 1680 minute analysis at 30 minute timestep. Mass balance: 100.00%															
Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
1440 minute winter	SWM 1	750	6.570	0.010	0.1	0.0047	0.0000	OK	1	SWM 2	0.1	0.258	0.021	0.0031	
1440 minute winter	SWM 2	750	6.519	0.009	0.2	0.0026	0.0000	OK	2	SWM 3	0.2	0.456	0.006	0.0008	
1440 minute winter	SWM 3	800	6.502	0.022	0.2	0.0063	0.0000	OK	3	S1	0.2	0.471	0.006	0.0005	
1440 minute winter	SWM 4	870	6.588	0.008	0.1	0.0043	0.0000	OK	4	SWM 2	0.1	0.403	0.012	0.0013	
1440 minute winter	SWM 5	30	6.700	0.000	0.0	0.0000	0.0000	OK	5	SWM 6	0.0	0.000	0.000	0.0000	
1440 minute winter	SWM 6	30	6.580	0.000	0.0	0.0000	0.0000	OK	6	SWM 2	0.0	0.000	0.000	0.0000	
1440 minute winter	S1	900	6.502	0.052	0.2	1.7508	0.0000	OK	Infiltration		0.0				

Results for 100 year +20% 15 minute summer, 255 minute analysis at 1 minute timestep, Mass balance: 100.50%															
Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	SWM 1	8	6.609	0.049	2.5	0.0225	0.0000	OK	1	SWM 2	2.2	0.475	0.465	0.0359	
15 minute summer	SWM 2	8	6.575	0.065	7.5	0.0185	0.0000	OK	2	SWM 3	6.9	0.964	0.224	0.0071	
15 minute summer	SWM 3	9	6.543	0.080	6.9	0.0177	0.0000	OK	3	S1	7.0	1.180	0.227	0.0067	
15 minute summer	SWM 4	8	6.697	0.047	3.4	0.0254	0.0000	OK	4	SWM 2	3.2	0.897	0.388	0.0150	
15 minute summer	SWM 5	8	6.730	0.030	1.7	0.0144	0.0000	OK	5	SWM 6	1.6	0.696	0.193	0.0124	
15 minute summer	SWM 6	8	6.626	0.036	2.4	0.0126	0.0000	OK	6	SWM 2	2.2	0.538	0.281	0.0200	
15 minute summer	S1	19	6.525	0.075	7.0	2.0197	0.0000	OK	Infiltration		0.0				

Results for 100 year +20% 15 minute winter, 255 minute analysis at 1 minute timestep, Mass balance: 98.62%															
Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute winter	SWM 1	8	6.604	0.044	2.0	0.0202	0.0000	OK	1	SWM 2	1.9	0.480	0.400	0.0330	
15 minute winter	SWM 2	8	6.570	0.060	6.3	0.0171	0.0000	OK	2	SWM 3	6.1	0.952	0.198	0.0065	
15 minute winter	SWM 3	20	6.543	0.063	6.1	0.0177	0.0000	OK	3	S1	6.2	1.144	0.200	0.0092	
15 minute winter	SWM 4	8	6.600	0.040	2.6	0.0219	0.0000	OK	4	SWM 2	2.5	0.712	0.295	0.0156	
15 minute winter	SWM 5	8	6.726	0.026	1.3	0.0126	0.0000	OK	5	SWM 6	1.3	0.638	0.146	0.0108	
15 minute winter	SWM 6	8	6.624	0.034	2.0	0.0117	0.0000	OK	6	SWM 2	1.9	0.518	0.245	0.0182	
15 minute winter	S1	18	6.543	0.093	6.2	2.2222	0.0000	OK	Infiltration		0.0				

Results for 100 year +20% 30 minute summer, 270 minute analysis at 1 minute timestep, Mass balance: 97.32%															
Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
30 minute summer	SWM 1	16	6.601	0.041	1.7	0.0189	0.0000	OK	1	SWM 2	1.7	0.448	0.357	0.0305	
30 minute summer	SWM 2	31	6.575	0.065	5.6	0.0184	0.0000	OK	2	SWM 3	5.6	0.932	0.186	0.0095	
30 minute summer	SWM 3	33	6.576	0.096	5.6	0.0271	0.0000	OK	3	S1	5.5	1.113	0.173	0.0137	
30 minute summer	SWM 4	16	6.627	0.037	2.2	0.0198	0.0000	OK	4	SWM 2	2.2	0.830	0.256	0.0144	
30 minute summer	SWM 5	16	6.724	0.024	1.1	0.0117	0.0000	OK	5	SWM 6	1.1	0.611	0.128	0.0039	
30 minute summer	SWM 6	16	6.622	0.032	1.7	0.0111	0.0000	OK	6	SWM 2	1.7	0.504	0.221	0.0169	
30 minute summer	S1	35	6.575	0.125	5.5	2.5871	0.0000	OK	Infiltration		0.0				

Results for 100 year +20% 30 minute winter, 270 minute analysis at 1 minute timestep, Mass balance: 96.49%															
Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
30 minute winter	SWM 1	31	6.598	0.036	1.3	0.0184	0.0000	OK	1	SWM 2	1.3	0.414	0.273	0.0386	
30 minute winter	SWM 2	31	6.594	0.084	4.4	0.0239	0.0000	OK	2	SWM 3	4.4	0.893	0.142	0.0124	
30 minute winter	SWM 3	31	6.596	0.116	4.4	0.0329	0.0000	OK	3	S1	4.4	1.054	0.142	0.0159	
30 minute winter	SWM 4	16	6.622	0.032	1.8	0.0176	0.0000	OK	4	SWM 2	1.8	0.603	0.210	0.0147	
30 minute winter	SWM 5	16	6.722	0.022	0.9	0.0106	0.0000	OK	5	SWM 6	0.9	0.593	0.195	0.0084	
30 minute winter	SWM 6	16	6.618	0.028	1.3	0.0097	0.0000	OK	6	SWM 2	1.3	0.487	0.169	0.0185	
30 minute winter	S1	33	6.594	0.144	4.4	2.8214	0.0000	OK	Infiltration		0.0				

Results for 100 year +20% 60 minute summer, 300 minute analysis at 1 minute timestep, Mass balance: 93.93%															
Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
60 minute summer	SWM 1	61	6.613	0.050	1.1	0.0246	0.0000	OK	1	SWM 2	1.1	0.397	0.231	0.0480	
60 minute summer	SWM 2	61	6.614	0.104	3.6	0.0294	0.0000	OK	2	SWM 3	3.6	0.865	0.122	0.0146	
60 minute summer	SWM 3	65	6.624	0.144	3.9	0.0407	0.0000	OK	3	S1	3.7	0.994	0.121	0.0175	
60 minute summer	SWM 4	31	6.619	0.029	1.5	0.0158	0.0000	OK	4	SWM 2	1.5	0.577	0.175	0.0164	
60 minute summer	SWM 5	31	6.721	0.021	0.8	0.0106	0.0000	OK	5	SWM 6	0.8	0.567	0.093	0.0076	
60 minute summer	SWM 6	31	6.617	0.027	1.2	0.0090	0.0000	OK	6	SWM 2	1.2	0.475	0.156	0.0229	
60 minute summer	S1	82	6.612	0.182	3.7	0.0304	0.0000	OK	Infiltration		0.0				

Results for 100 year +20% 60 minute winter, 360 minute analysis at 1 minute timestep. Mass balance: 91.72%															
Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
60 minute winter	SWM 1	59	6.644	0.084	0.9	0.0385	0.0000	OK	1	SWM 2	0.9	0.380	0.189	0.0594	
60 minute winter	SWM 2	59	6.645	0.135	2.9	0.0363	0.0000	OK	2	SWM 3	4.2	0.818	0.136	0.0172	
60 minute winter	SWM 3	67	6.646	0.166	5.3	0.0489	0.0000	Blocked Pipe	3	S1	4.6	0.931	0.149	0.0176	
60 minute winter	SWM 4	59	6.644	0.054	1.1	0.0293	0.0000	OK	4	SWM 2	1.1	0.542	0.128	0.0243	
60 minute winter	SWM 5	32	6.718	0.018	0.6	0.0087	0.0000	OK	5	SWM 6	0.6	0.519	0.070	0.0125	
60 minute winter	SWM 6	59	6.644	0.054	0.9	0.0156	0.0000	OK	6	SWM 2	0.9	0.442	0.117	0.0304	
60 minute winter	S1	80	6.644	0.134	4.8	3.4016	0.0000	OK	Infiltration		0.0				

Results for 100 year +20% 120 minute summer, 360 minute analysis at 2 minute timestep, Mass balance: 93.02%															
Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
120 minute summer	SWM 1	122	6.655	0.095	0.7	0.0438	0.0000	OK	1	SWM 2	0.7	0.359	0.147	0.0821	
120 minute summer	SWM 2	124	6.656	0.146	2.3	0.0414	0.0000	OK	2	SWM 3	2.5	0.756	0.082	0.0175	
120 minute summer	SWM 3	134	6.656	0.176	2.5	0.0499	0.0000	FLOOD FUSEK	3	S1	2.6	0.889	0.084	0.0176	
120 minute summer	SWM 4	122	6.655	0.085	0.9	0.0353	0.0000	OK	4	SWM 2	0.9	0.515	0.105	0.0265	
120 minute summer	SWM 5	62	6.716	0.016	0.5	0.0079	0.0000	OK	5	SWM 6	0.5	0.505	0.058	0.0149	
120 minute summer	SWM 6	122	6.655	0.085	0.7	0.0227	0.0000	OK	6	SWM 2	0.7	0.407	0.091	0.0321	
120 minute summer	S1	122	6.655	0.205	2.6	3.5377	0.0000	OK	Infiltration		0.0				

Results for 100 year +20% 120 minute winter. 360 minute analysis at 2 minute timestep. Mass balance: 92.20%															
Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
120 minute winter	SWM 1	116	6.687	0.127	0.5	0.0582	0.0000	FLOOD RISK	1	SWM 2	0.5	0.333	0.105	0.0628	
120 minute winter	SWM 2	124	6.688	0.178	1.8	0.0505	0.0000	FLOOD RISK	2	SWM 3	2.5	0.729	0.082	0.0176	
120 minute winter	SWM 3	118	6.688	0.208	3.2	0.0590	0.0000	FLOOD RISK	3	S1	2.5	0.773	0.081	0.0178	
120 minute winter	SWM 4	118	6.688	0.038	0.7	0.0523	0.0000	OK	4	SWM 2	0.7	0.430	0.082	0.0312	
120 minute winter	SWM 5	62	6.715	0.015	0.4	0.0071	0.0000	OK	5	SWM 6	0.4	0.450	0.047	0.0218	
120 minute winter	SWM 6	118	6.687	0.097	0.6	0.0336	0.0000	OK	6	SWM 2	0.6	0.387	0.078	0.0389	
120 minute winter	S1	120	6.687	0.237	2.5	3.8055	0.0000	OK	Infiltration		0.0				

Results for 100 year +20% 180 minute summer. 420 minute analysis at 4 minute timestep. Mass balance: 92.47%															
Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
180 minute summer	SWM 1	184	6.680	0.120	0.5	0.0551	0.0000	FLOOD RISK	1	SWM 2	0.5	0.337	0.111	0.0626	
180 minute summer	SWM 2	184	6.681	0.171	2.0	0.0484	0.0000	FLOOD RISK	2	SWM 3	1.9	0.750	0.061	0.0176	
180 minute summer	SWM 3	212	6.680	0.200	2.8	0.0567	0.0000	FLOOD RISK	3	S1	3.6	0.729	0.115	0.0176	
180 minute summer	SWM 4	184	6.680	0.090	0.7	0.0488	0.0000	OK	4	SWM 2	0.7	0.466	0.065	0.0305	
180 minute summer	SWM 5	92	6.715	0.015	0.4	0.0070	0.0000	OK	5	SWM 6	0.4	0.459	0.048	0.0205	
180 minute summer	SWM 6	184	6.680	0.090	0.6	0.0313	0.0000	OK	6	SWM 2	0.6	0.337	0.076	0.0381	
180 minute summer	S1	184	6.680	0.230	3.6	3.8254	0.0000	OK	Infiltration		0.0				

Results for 100 year +20% 180 minute winter. 420 minute analysis at 4 minute timestep. Mass balance: 91.53%															
Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
180 minute winter	SWM 1	180	6.712	0.152	0.4	0.0700	0.0000	FLOODED PIPE	1	SWM 2	0.4	0.318	0.064	0.0028	
180 minute winter	SWM 2	178	6.714	0.204	1.3	0.0578	0.0000	FLOODED PIPE	2	SWM 3	2.5	0.733	0.080	0.0176	
180 minute winter	SWM 3	180	6.711	0.231	2.5	0.0853	0.0000	FLOODED PIPE	3	S1	2.0	0.723	0.084	0.0178	
180 minute winter	SWM 4	180	6.713	0.128	0.5	0.0663	0.0000	FLOODED PIPE	4	SWM 2	0.6	0.455	0.069	0.0313	
180 minute winter	SWM 5	92	6.713	0.013	0.3	0.0062	0.0000	OK	5	SWM 6	0.3	0.452	0.035	0.0231	
180 minute winter	SWM 6	184	6.712	0.122	0.4	0.0424	0.0000	FLOODED PIPE	6	SWM 2	0.5	0.355	0.071	0.0391	
180 minute winter	S1	180	6.712	0.262	2.0	4.2046	0.0000	OK	Infiltration		0.0				

Results for 100 year +20% 240 minute summer. 480 minute analysis at 4 minute timestep. Mass balance: 92.82%															
Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
240 minute summer	SWM 1	238	6.686	0.126	0.4	0.0577	0.0000	FLOOD RISK	1	SWM 2	0.4	0.324	0.084	0.0826	
240 minute summer	SWM 2	236	6.687	0.177	1.7	0.0501	0.0000	FLOOD RISK	2	SWM 3	1.6	0.676	0.052	0.0176	
240 minute summer	SWM 3	224	6.686	0.206	1.6	0.0582	0.0000	FLOOD RISK	3	S1	3.4	0.690	0.110	0.0176	
240 minute summer	SWM 4	236	6.686	0.096	0.6	0.0517	0.0000	OK	4	SWM 2	0.6	0.493	0.070	0.0311	
240 minute summer	SWM 5	124	6.713	0.013	0.3	0.0062	0.0000	OK	5	SWM 6	0.3	0.452	0.035	0.0212	
240 minute summer	SWM 6	236	6.686	0.036	0.4	0.0331	0.0000	OK	6	SWM 2	0.4	0.355	0.052	0.0368	
240 minute summer	S1	236	6.685	0.235	3.4	3.8806	0.0000	OK	Infiltration		0.0				

Results for 100 year +20% 240 minute winter: 480 minute analysis at 4 minute timestep. Mass balance: 91.06%															
Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
240 minute winter	SWM 1	232	6.731	0.171	0.3	0.0786	0.0000	FLOODED PIPE	1	SWM 2	0.3	0.310	0.063	0.0628	
240 minute winter	SWM 2	228	6.733	0.223	1.4	0.6631	0.0000	FLOODED PIPE	2	SWM 3	1.4	0.738	0.044	0.0176	
240 minute winter	SWM 3	224	6.731	0.251	1.4	0.6708	0.0000	FLOODED PIPE	3	S1	1.5	0.862	0.048	0.0178	
240 minute winter	SWM 4	228	6.732	0.142	0.4	0.6767	0.0000	FLOODED PIPE	4	SWM 2	0.7	0.455	0.086	0.0313	
240 minute winter	SWM 5	232	6.731	0.031	0.2	0.0151	0.0000	OK	5	SWM 6	0.2	0.452	0.023	0.0273	
240 minute winter	SWM 6	232	6.731	0.141	0.5	0.0483	0.0000	FLOODED PIPE	6	SWM 2	0.3	0.358	0.042	0.0391	
240 minute winter	S1	232	6.731	0.281	1.5	4.4217	0.0000	OK	Infiltration		0.0				

Results for 100 year +20% 360 minute summer. 10080 minute analysis at 8 minute timestep. Mass balance: 95.86%															
Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
360 minute summer	SWM 1	298	6.683	0.103	0.3	0.0472	0.0000	FLOOD RISK	1	SWM 2	0.3	0.294	0.083	0.0826	
360 minute summer	SWM 2	288	6.663	0.153	1.3	0.0434	0.0000	FLOOD RISK	2	SWM 3	2.8	0.727	0.082	0.0176	
360 minute summer	SWM 3	296	6.685	0.185	2.8	0.0525	0.0000	FLOOD RISK	3	S1	3.1	0.665	0.098	0.0176	
360 minute summer	SWM 4	296	6.683	0.073	0.4	0.0394	0.0000	OK	4	SWM 2	0.4	0.430	0.047	0.0279	
360 minute summer	SWM 5	164	6.711	0.011	0.2	0.0051	0.0000	OK	5	SWM 6	0.2	0.374	0.023	0.0167	
360 minute summer	SWM 6	296	6.683	0.073	0.3	0.0252	0.0000	OK	6	SWM 2	0.5	0.338	0.062	0.0348	
360 minute summer	S1	296	6.683	0.213	3.1	3.6274	0.0000	OK	Infiltration		0.0				

Results for 100 year +20% 360 minute winter. 18000 minute analysis at 6 minute timestep. Mass balance: 97.03%															
Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
360 minute winter	SWM 1	344	6.737	0.177	0.2	0.0811	0.0000	FLOODED PIPE	1	SWM 2	0.4	0.273	0.092	0.0628	
360 minute winter	SWM 2	344	6.738	0.228	1.8	0.6648	0.0000	FLOODED PIPE	2	SWM 3	2.3	0.640	0.073	0.0176	
360 minute winter	SWM 3	336	6.736	0.256	2.8	0.0725	0.0000	FLOODED PIPE	3	S1	1.2	0.831	0.038	0.0178	
360 minute winter	SWM 4	344	6.737	0.147	0.3	0.0794	0.0000	FLOODED PIPE	4	SWM 2	0.5	0.404	0.058	0.0313	
360 minute winter	SWM 5	344	6.737	0.037	0.2	0.0177	0.0000	OK	5	SWM 6	0.2	0.371	0.023	0.0287	
360 minute winter	SWM 6	344	6.737	0.147	0.3	0.0510	0.0000	FLOODED PIPE	6	SWM 2	0.5	0.315	0.068	0.0391	
360 minute winter	S1	344	6.737	0.287	1.2	4.4878	0.0000	OK	Infiltration		0.0				

Results for 100 year +20% 480 minute summer. 720 minute analysis at 8 minute timestep. Mass balance: 93.37%															
Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
480 minute summer	SWM 1	360	6.688	0.108	0.2	0.0495	0.0000	FLOOD RISK	1	SWM 2	0.2	0.274	0.042	0.0826	
480 minute summer	SWM 2	360	6.669	0.159	1.5	0.0451	0.0000	FLOOD RISK	2	SWM 3	1.4	0.867	0.045	0.0176	
480 minute summer	SWM 3	376	6.688	0.188	1.4	0.0532	0.0000	FLOOD RISK	3	S1	1.4	0.681	0.046	0.0176	
480 minute summer	SWM 4	352	6.688	0.078	0.3	0.0421	0.0000	OK	4	SWM 2	0.4	0.402	0.045	0.0287	
480 minute summer	SWM 5	248	6.711	0.011	0.2	0.0051	0.0000	OK	5	SWM 6	0.2	0.374	0.023	0.0180	
480 minute summer	SWM 6	360	6.688	0.078	0.2	0.0270	0.0000	OK	6	SWM 2	0.3	0.376	0.038	0.0359	
480 minute summer	S1	360	6.688	0.218	1.4	3.6816	0.0000	OK	Infiltration		0.0				

Results for 100 year +20% 480 minute winter- 720 minute analysis at 8 minute timestep. Mass balance: 91.97%															
Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
480 minute winter	SWM 1	384	6.718	0.158	0.2	0.0725	0.0000	FLOODED PIPE	1	SWM 2	0.4	0.288	0.076	0.0028	
480 minute winter	SWM 2	382	6.718	0.209	0.8	0.0592	0.0000	FLOODED PIPE	2	SWM 3	2.7	0.640	0.088	0.0176	
480 minute winter	SWM 3	376	6.719	0.233	2.7	0.0877	0.0000	FLOODED PIPE	3	S1	1.1	0.574	0.036	0.0178	
480 minute winter	SWM 4	378	6.719	0.129	0.3	0.0585	0.0000	FLOODED PIPE	4	SWM 2	0.3	0.387	0.039	0.0313	
480 minute winter	SWM 5	384	6.718	0.018	0.1	0.0068	0.0000	OK	5	SWM 6	0.1	0.365	0.012	0.0242	
480 minute winter	SWM 6	384	6.718	0.128	0.2	0.0445	0.0000	FLOODED PIPE	6	SWM 2	0.2	0.334	0.026	0.0391	
480 minute winter	S1	384	6.718	0.268	1.1	4.2695	0.0000	OK	Infiltration		0.0				

Results for 100 year +20% 600 minute summer, 840 minute analysis at 15 minute timestep, Mass balance: 93.10%															
Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
600 minute summer	SWM 1	435	6.689	0.109	0.2	0.0498	0.0000	FLOOD RISK	1	SWM 2	0.2	0.272	0.045	0.0826	
600 minute summer	SWM 2	435	6.670	0.160	1.0	0.0453	0.0000	FLOOD RISK	2	SWM 3	2.2	0.804	0.071	0.0176	
600 minute summer	SWM 3	420	6.689	0.189	2.2	0.0536	0.0000	FLOOD RISK	3	S1	2.5	0.871	0.080	0.0176	
600 minute summer	SWM 4	435	6.689	0.079	0.3	0.0425	0.0000	OK	4	SWM 2	0.3	0.416	0.035	0.0288	
600 minute summer	SWM 5	255	6.708	0.008	0.1	0.0037	0.0000	OK	5	SWM 6	0.1	0.354	0.012	0.0162	
600 minute summer	SWM 6	435	6.689	0.079	0.2	0.0273	0.0000	OK	6	SWM 2	0.2	0.315	0.026	0.0361	
600 minute summer	S1	435	6.689	0.219	2.5	3.6836	0.0000	OK	Infiltration		0.0				

Results for 100 year +20% 600 minute winter: 640 minute analysis at 15 minute timestep. Mass balance: 92.35%															
Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
600 minute winter	SWM 1	465	6.710	0.150	0.2	0.0887	0.0000	FLOODED PIPE	1	SWM 2	0.2	0.258	0.060	0.0628	
600 minute winter	SWM 2	465	6.711	0.201	0.9	0.0568	0.0000	FLOODED PIPE	2	SWM 3	1.0	0.574	0.032	0.0176	
600 minute winter	SWM 3	465	6.708	0.228	1.0	0.0844	0.0000	FLOODED PIPE	3	S1	0.7	0.571	0.024	0.0178	
600 minute winter	SWM 4	465	6.710	0.120	0.2	0.0647	0.0000	FLOODED PIPE	4	SWM 2	0.3	0.404	0.034	0.0313	
600 minute winter	SWM 5	465	6.710	0.010	0.1	0.0048	0.0000	OK	5	SWM 6	0.1	0.354	0.012	0.0228	
600 minute winter	SWM 6	465	6.709	0.119	0.2	0.0415	0.0000	FLOODED PIPE	6	SWM 2	0.2	0.262	0.026	0.0391	
600 minute winter	S1	465	6.709	0.258	0.7	4.1899	0.0000	OK	Infiltration		0.0				

Results for 100 year +20% 720 minute summer, 960 minute analysis at 15 minute timestep, Mass balance: 91.51%															
Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
720 minute summer	SWM 1	495	6.646	0.086	0.2	0.0394	0.0000	OK	1	SWM 2	0.3	0.272	0.058	0.0588	
720 minute summer	SWM 2	495	6.648	0.128	2.6	0.0389	0.0000	OK	2	SWM 3	-1.5	0.556	-0.049	0.0173	
720 minute summer	SWM 3	480	6.648	0.168	0.8	0.0474	0.0000	FLOOD FUSEK	3	S1	2.1	0.671	0.068	0.0176	
720 minute summer	SWM 4	495	6.646	0.056	0.2	0.0302	0.0000	OK	4	SWM 2	0.5	0.397	0.063	0.0246	
720 minute summer	SWM 5	315	6.708	0.008	0.1	0.0037	0.0000	OK	5	SWM 6	0.1	0.354	0.012	0.0124	
720 minute summer	SWM 6	495	6.646	0.056	0.2	0.0194	0.0000	OK	6	SWM 2	0.4	0.314	0.051	0.0308	
720 minute summer	S1	495	6.646	0.196	2.1	3.4340	0.0000	OK	Infiltration		0.0				

Results for 100 year +20% 720 minute winter: 960 minute analysis at 15 minute timestep. Mass balance: 92.82%															
Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
720 minute winter	SWM 1	540	6.691	0.131	0.1	0.0900	0.0000	FLOODED PIPE	1	SWM 2	0.2	0.259	0.035	0.0029	
720 minute winter	SWM 2	540	6.692	0.182	1.1	0.0515	0.0000	FLOODED PIPE	2	SWM 3	0.6	0.572	0.027	0.0176	
720 minute winter	SWM 3	540	6.688	0.208	0.9	0.0508	0.0000	FLOODED PIPE	3	S1	0.8	0.529	0.026	0.0178	
720 minute winter	SWM 4	540	6.691	0.101	0.2	0.0548	0.0000	FLOODED PIPE	4	SWM 2	0.2	0.411	0.023	0.0313	
720 minute winter	SWM 5	285	6.708	0.008	0.1	0.0037	0.0000	OK	5	SWM 6	0.1	0.354	0.012	0.0215	
720 minute winter	SWM 6	540	6.691	0.101	0.1	0.0350	0.0000	FLOODED PIPE	6	SWM 2	0.1	0.262	0.013	0.0091	
720 minute winter	S1	540	6.691	0.241	0.8	3.8515	0.0000	OK	Infiltration		0.0				

Results for 100 year +20% 960 minute summer. 1200 minute analysis at 15 minute timestep. Mass balance: 91.69%															
Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
960 minute summer	SWM 1	630	6.633	0.073	0.1	0.0334	0.0000	OK	1	SWM 2	0.1	0.256	0.031	0.0657	
960 minute summer	SWM 2	615	6.634	0.124	2.5	0.0350	0.0000	OK	2	SWM 3	-2.2	0.572	-0.070	0.0186	
960 minute summer	SWM 3	630	6.632	0.152	1.2	0.0430	0.0000	FLOOD FUSEK	3	S1	1.8	0.629	0.057	0.0176	
960 minute summer	SWM 4	630	6.633	0.040	0.2	0.0232	0.0000	OK	4	SWM 2	0.2	0.399	0.023	0.0221	
960 minute summer	SWM 5	435	6.708	0.008	0.1	0.0037	0.0000	OK	5	SWM 6	0.1	0.354	0.012	0.0089	
960 minute summer	SWM 6	630	6.633	0.043	0.1	0.0148	0.0000	OK	6	SWM 2	0.1	0.262	0.017	0.0276	
960 minute summer	S1	630	6.633	0.180	1.8	3.2739	0.0000	OK	Infiltration		0.0				

Results for 100 year +20% 960 minute winter. 1200 minute analysis at 15 minute timestep. Mass balance: 93.06%															
Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
960 minute winter	SWM 1	690	6.695	0.135	0.3	0.0820	0.0000	FLOODED PIPE	1	SWM 2	-0.2	0.258	-0.048	0.0028	
960 minute winter	SWM 2	690	6.696	0.186	0.7	0.0527	0.0000	FLOODED PIPE	2	SWM 3	0.9	0.529	0.028	0.0176	
960 minute winter	SWM 3	690	6.692	0.212	0.9	0.0800	0.0000	FLOODED PIPE	3	S1	1.3	0.529	0.043	0.0178	
960 minute winter	SWM 4	690	6.695	0.105	0.3	0.0566	0.0000	FLOODED PIPE	4	SWM 2	0.2	0.397	0.028	0.0313	
960 minute winter	SWM 5	405	6.708	0.008	0.1	0.0037	0.0000	OK	5	SWM 6	0.1	0.354	0.012	0.0215	
960 minute winter	SWM 6	690	6.695	0.105	0.3	0.0365	0.0000	FLOODED PIPE	6	SWM 2	-0.2	0.274	-0.029	0.0091	
960 minute winter	S1	690	6.695	0.245	1.3	4.0004	0.0000	OK	Infiltration		0.0				

Results for 100 year +20% 1440 minute summer, 1680 minute analysis at 30 minute timestep. Mass balance: 92.67%															
Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
1440 minute summer	SWM 1	930	6.623	0.063	0.1	0.0291	0.0000	OK	1	SWM 2	0.3	0.258	0.058	0.0523	
1440 minute summer	SWM 2	900	6.622	0.112	0.7	0.0316	0.0000	OK	2	SWM 3	0.4	0.505	0.013	0.0158	
1440 minute summer	SWM 3	960	6.631	0.151	0.4	0.0427	0.0000	Blocked Pipe	3	S1	1.5	0.525	0.049	0.0175	
1440 minute summer	SWM 4	930	6.624	0.034	0.1	0.0181	0.0000	OK	4	SWM 2	0.4	0.397	0.048	0.0200	
1440 minute summer	SWM 5	720	6.708	0.008	0.1	0.0037	0.0000	OK	5	SWM 6	0.1	0.353	0.012	0.0063	
1440 minute summer	SWM 6	930	6.624	0.034	0.1	0.0118	0.0000	OK	6	SWM 2	0.2	0.263	0.020	0.0253	
1440 minute summer	S1	930	6.623	0.173	1.5	3.1633	0.0000	OK	Infiltration		0.0				

Results for 100 year +20% 1440 minute winter. 1680 minute analysis at 30 minute timestep. Mass balance: 93.65%															
Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
1440 minute winter	SWM 1	990	6.697	0.137	0.1	0.0828	0.0000	FLOOD PEAK	1	SWM 2	0.2	0.258	0.034	0.0628	
1440 minute winter	SWM 2	990	6.698	0.188	0.7	0.0533	0.0000	FLOOD PEAK	2	SWM 3	1.0	0.471	0.032	0.0176	
1440 minute winter	SWM 3	990	6.695	0.215	1.0	0.0699	0.0000	FLOOD PEAK	3	S1	-0.8	0.471	-0.027	0.0176	
1440 minute winter	SWM 4	990	6.697	0.107	0.1	0.0580	0.0000	FLOOD PEAK	4	SWM 2	0.2	0.397	0.024	0.0013	
1440 minute winter	SWM 5	720	6.708	0.008	0.1	0.0037	0.0000	OK	5	SWM 6	0.1	0.353	0.012	0.0215	
1440 minute winter	SWM 6	990	6.697	0.107	0.1	0.0371	0.0000	FLOOD PEAK	6	SWM 2	0.1	0.285	0.012	0.0391	
1440 minute winter	S1	990	6.697	0.247	0.8	4.0245	0.0000	OK	Infiltration		0.0				

C&W Cooper & Withycombe CONSULTING ENGINEERS	SHEET NO. DR 1 OF	
	Proposed Cottage Longacre, Maypole Lane Yapton BN18 0DR	Job No. 15- 1779 Prepared By ajp Date September 2017
Drainage Design Report – Rear of Cottage		

Drainage Assessment by Flow

v4.0

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Network Storm Network
Last analysed 15/09/2017 12:43:12
Report produced on 15/09/2017 12:45:36

Causeway Sales

Tel: +44(0) 1628 552000
Fax: +44(0) 1628 552001
Email: marketing@causeway.com
Web: www.causeway.com

Technical support web portal:

<http://support.causeway.com>

Rainfall Methodology	FSR
Return Period (years)	100
Additional Flow (%)	0
FSR Region	England and Wales
M5-60 (mm)	20.000
Ratio-R	0.360
CV	0.750
Time of Entry (mins)	1.00
Maximum Time of Concentration (mins)	30.00
Maximum Rainfall (mm/hr)	50.0
Minimum Velocity (m/s)	1.00
Connection Type	Level Soffits
Minimum Backdrop Height (m)	0.200
Preferred Cover Depth (m)	0.200
Enforce best practice design rules	✓

	Name	Area (ha)	T of E (mins)	Add Inflow (l/s)	Cover Level (m)	Node Type	Manhole Type	Diameter (mm)	Width (mm)	Easting (m)	Northing (m)	Depth (m)	Notes
✓	SWM 7	0.002	1.00		7.000	Manhole	Adoptable	600				0.350	
✓	SWM 8	0.003	1.00		7.000	Manhole	Adoptable	600				0.410	
✓	SWM 9				6.900	Manhole	Adoptable	600				0.400	
✓	SWM 10				6.900	Manhole	Adoptable	600				0.420	
✓	SWM 11	0.004	1.00		7.200	Manhole	Adoptable	600				0.480	
✓	SWM 12	0.001	1.00		7.200	Manhole	Adoptable	600				0.500	
✓	S2				6.900	Manhole	Adoptable	600				0.470	

	Name	US Node	DS Node	Length (m)	ks (mm) / n	Velocity Equation	US IL (m)	DS IL (m)	Fall (m)	Slope (1:X)	Dia (mm)	Link Type	T of C (mins)	Rain (mm/hr)	C.Offset (m)	Min DS IL (m)
?	1	SWM 7	SWM 8	5.000	0.800	Colebrook-White	6.670	6.590	0.080	60.0	100	Circular	1.09	50.0		
✓	2	SWM 8	SWM 9	5.000	0.800	Colebrook-White	6.660	6.500	0.060	60.0	100	Circular	1.17	50.0		
✓	3	SWM 9	SWM 10	1.500	0.600	Colebrook-White	6.500	6.480	0.020	75.0	150	Circular	1.24	50.0		
?	4	SWM 10	S2	3.000	0.800	Colebrook-White	6.480	6.430	0.050	60.0	100	Circular	1.09	50.0		
✓	5	SWM 11	SWM 12	1.000	0.800	Colebrook-White	6.720	6.700	0.020	60.0	100	Circular	1.02	50.0		
?	6	SWM 12	SWM 9	12.000	0.600	Colebrook-White	6.700	6.500	0.000	60.0	100	Circular	1.22	50.0		

	Name	US Node	DS Node	Vel (m/s)	Cap (l/s)	Flow (l/s)	US Depth (m)	DS Depth (m)	Σ Area (ha)	Σ Add Inflow (ha)	Pro Depth (mm)	Pro Velocity (m/s)	Notes
?	1	SWM 7	SWM 8	0.876	7.7	0.3	0.230	0.310	0.002	0.0	13	0.450	Velocity is less than the specified minimum
✓	2	SWM 8	SWM 9	1.035	8.1	0.7	0.310	0.300	0.005	0.0	20	0.531	
✓	3	SWM 9	SWM 10	1.162	20.5	1.4	0.250	0.270	0.010	0.0	26	0.557	
?	4	SWM 10	S2	0.888	7.8	1.4	0.320	0.370	0.010	0.0	29	0.750	Velocity is less than the specified minimum
✓	5	SWM 11	SWM 12	1.092	8.6	0.5	0.380	0.400	0.004	0.0	17	0.599	
?	6	SWM 12	SWM 9	0.939	7.8	0.7	0.400	0.300	0.005	0.0	20	0.607	Velocity is less than the specified minimum

Link ID	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)	US Node ID	Dia (mm)	Width (mm)	Node Type	MH Type	DS Node ID	Dia (mm)	Width (mm)	Node Type	MH Type
1	5.000	82.5	100	Pipe	7.000	6.570	0.230	7.000	6.580	0.310	SWM 7	800		Manhole	Access	SWM 8	600		Manhole	Access
2	5.000	75.8	100	Pipe	7.000	6.585	0.315	6.900	6.500	0.300	SWM 8	600		Manhole	Access	SWM 9	800		Manhole	Access
3	1.500	75.0	150	Pipe	6.900	6.500	0.250	6.800	6.480	0.370	SWM 9	800		Manhole	Access	SWM 10	500		Manhole	Access
4	3.000	80.0	100	Pipe	6.800	6.480	0.320	6.500	6.430	0.370	SWM 10	600		Manhole	Access	S2	600		Manhole	Access
5	1.500	90.0	100	Pipe	7.200	6.720	0.390	7.200	6.730	0.400	SWM 11	800		Manhole	Access	SWM 12	800		Manhole	Access
6	12.000	80.0	100	Pipe	7.200	6.700	0.400	6.500	6.500	0.300	SWM 12	600		Manhole	Access	SWM 9	600		Manhole	Access

Rainfall Methodology	FSR		Return Period (years)	Climate Change (%)
FSR Region	England and Wales		100	20
M5-60 (mm)	20.000			
Ratio-R	0.360			
Summer CV	0.750			
Winter CV	0.840			
Analysis Speed	Normal			
Drain Down Time (mins)	240			
Additional Storage (m³/ha)	20.0			
Storm Durations (mins)	15			
	30			
	60			
	120			
	180			
	240			
	360			
	480			
	600			
	720			
	960			
	1440			
Check Discharge Rate(s)	x			
1 year (l/s)				
30 year (l/s)				
100 year (l/s)				
Check Discharge Volume	x			
100 year 360 minute (m³)				

Soakaway											
Node	Base Infiltration Coefficient (m/hr)	Side Infiltration Coefficient (m/hr)	Safety Factor	Porosity	Invert Level (m)	Time to half empty (mins)	Pit Width (m)	Pit Length (m)	Depth (m)	Inf. Depth (m)	Number Required
S2	0.01282	0.01282	2.0	0.95	6.350	1784	2.000	6.000	2.135	1.600	1

Node Size	✓
Node Losses	✓
Link Size	✓
Minimum Diameter (mm)	100
Link Length	✓
Maximum Length (m)	100.000
Coordinates	✓
Accuracy (m)	1.000
Crossings	✓
Cover Depth	✓
Minimum Cover Depth (m)	0.200
Maximum Cover Depth (m)	3.000
Backdrops	✓
Minimum Backdrop Height (m)	0.200
Maximum Backdrop Height (m)	1.500
Full Bore Velocity	✓
Minimum Full Bore Velocity (m/s)	1.000
Maximum Full Bore Velocity (m/s)	3.000
Proportional Velocity	✓
Return Period (years)	100
Minimum Proportional Velocity (m/s)	0.750
Maximum Proportional Velocity (m/s)	3.000
Surcharged Depth	✓
Return Period (years)	100
Maximum Surcharged Depth (m)	0.100
Flooding	✓
Return Period (years)	30
Discharge Rates	✓
1 year (l/s)	0.0
30 year (l/s)	
100 year (l/s)	
Discharge Volume	✓

100 year 360 minute (m³)	0
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Summary					
The network has been designed for a 1 in 100 year storm using FSR rainfall					
It contains 7 nodes (1 outfall) and 6 links					
The total impermeable area is 0.010 ha					
1 structure has been defined, providing 0m ³ of storage below the flood risk level					
Infiltration based on BRE 365 has been applied at 1 of the structures					
Simulations have been completed using FSR summer and winter storms from 15 to 1440 minute duration					
Test Results					
7 manholes are smaller than that required by the library					
	Node	Required Dia (mm)	Required Width (mm)	Actual Dia (mm)	Actual Width (mm)
	SWM 7	1050		600	
	SWM 8	1050		600	
	SWM 9	1050		600	
	SWM 10	1050		600	
	SWM 11	1050		600	
	SWM 12	1050		600	
	S2	1050		600	
No connections have combined exit and entry losses less than the recommended total					
No circular links have diameters < 100mm					
No links have lengths > 100.000m					
No links have lengths that differ from their coordinated length by more than 1.000m					
No links cross one or more other links					
No links have cover depth outside the range 0.200-3.000m					
No nodes have backdrops outside the range 0.200-1.500m					
3 links have full bore velocity outside the range 1.000-3.000m/s					
	US Node	DS Node	Link	Velocity (m/s)	
	SWM 7	SWM 8	1	0.976	
	SWM 10	S2	4	0.996	
	SWM 12	SWM 9	6	0.996	
4 links have peak proportional velocity outside the range 0.750-3.000m/s during the 100 year return period					
	US Node	DS Node	Link	Velocity (m/s)	Event

	SWM 7	SWM 8	1	0.511	100 year +20% 15 minute summer
	SWM 8	SWM 9	2	0.701	100 year +20% 15 minute summer
	SWM 9	SWM 10	3	0.723	100 year +20% 15 minute summer
	SWM 12	SWM 9	6	0.707	100 year +20% 15 minute summer
1 link has a surcharged depth greater than 0.100m during the 100 year return period					
	US Node	DS Node	Link	Surcharged Depth (m)	Event
	SWM 10	S2	4	0.167	100 year +20% 360 minute winter
No nodes flood during the 30 year return period					
No outfalls have a discharge rate greater than 0.0l/s during the 1 year return period					
The 30 year discharge rate test has not been completed					
The 100 year discharge rate test has not been completed					
No outfalls have a discharge volume greater than 0m ³ during the 100 year 360 minute storm					

Results for 1 year Critical Storm Duration. Lowest mass balance: 91.96%															
Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	SWM 7	8	6.685	0.015	0.4	0.0059	0.0000	OK	1	SWM 8	0.4	0.351	0.046	0.0052	
15 minute summer	SWM 8	8	6.613	0.023	1.1	0.0098	0.0000	OK	2	SWM 9	0.9	0.543	0.113	0.0092	
15 minute summer	SWM 9	9	6.535	0.035	1.8	0.0096	0.0000	OK	3	SWM 10	1.8	0.593	0.393	0.0047	
15 minute summer	SWM 10	9	6.516	0.036	1.8	0.0101	0.0000	OK	4	S2	1.8	0.767	0.232	0.0071	
15 minute summer	SWM 11	8	6.744	0.024	0.9	0.0107	0.0000	OK	5	SWM 12	0.8	0.592	0.084	0.0014	
15 minute summer	SWM 12	9	6.723	0.023	1.0	0.0073	0.0000	OK	6	SWM 9	0.9	0.519	0.112	0.0225	
240 minute winter	S2	172	6.441	0.011	0.3	1.0459	0.0000	OK	Infiltration		0.0				

Results for 30 year Critical Storm Duration. Lowest mass balance: 91.567%															
Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	SWM 7	8	6.694	0.024	1.1	0.0099	0.0000	OK	1	SWM 8	1.0	0.468	0.130	0.0197	
15 minute summer	SWM 8	8	6.629	0.039	2.6	0.0167	0.0000	OK	2	SWM 9	2.3	0.640	0.267	0.0184	
240 minute winter	SWM 9	196	6.569	0.089	0.7	0.0252	0.0000	OK	3	SWM 10	1.2	0.488	0.057	0.0184	
240 minute winter	SWM 10	196	6.589	0.109	1.2	0.0306	0.0000	EXCEEDING	4	SE	1.1	0.572	0.139	0.0205	
15 minute summer	SWM 11	8	6.780	0.040	2.2	0.0181	0.0000	OK	5	SWM 12	2.0	0.725	0.236	0.0028	
15 minute summer	SWM 12	8	6.737	0.037	2.5	0.0120	0.0000	OK	6	SWM 9	2.3	0.642	0.291	0.0446	
240 minute winter	SE	196	6.589	0.159	1.1	2.7696	0.0000	OK	Infiltration		0.0				

Results for 100 year +20% Critical Storm Duration. Lowest mass balance: 91.86%															
Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
360 minute winter	SWM 7	344	6.747	0.077	0.2	0.0311	0.0000	OK	1	SWM 8	0.2	0.326	0.025	0.0357	
360 minute winter	SWM 8	344	6.747	0.157	0.4	0.0673	0.0000	FLOOD RISK	2	SWM 9	0.4	0.371	0.048	0.0391	
360 minute winter	SWM 9	344	6.747	0.247	0.8	0.0998	0.0000	FLOOD RISK	3	SWM 10	1.1	0.469	0.054	0.0264	
360 minute winter	SWM 10	344	6.747	0.267	1.1	0.0755	0.0000	FLOOD RISK	4	S2	0.6	0.510	0.081	0.0235	
15 minute summer	SWM 11	8	6.773	0.053	3.4	0.0233	0.0000	OK	5	SWM 12	3.2	0.796	0.368	0.0040	
15 minute summer	SWM 12	8	6.748	0.048	4.0	0.0155	0.0000	OK	6	SWM 3	3.6	0.707	0.466	0.0627	
360 minute winter	S2	344	6.747	0.217	0.6	4.6134	0.0000	OK	Infiltration		0.0				

Results for 1 year 15 minute summer: 255 minute analysis at 1 minute timestep: Mass balance: 100.00%															
Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	SWM 7	8	6.685	0.015	0.4	0.0056	0.0000	OK	1	SWM 8	0.4	0.351	0.046	0.0052	
15 minute summer	SWM 8	8	6.613	0.023	1.1	0.0098	0.0000	OK	2	SWM 9	0.9	0.543	0.113	0.0092	
15 minute summer	SWM 9	9	6.535	0.035	1.8	0.0096	0.0000	OK	3	SWM 10	1.8	0.593	0.368	0.0047	
15 minute summer	SWM 10	9	6.516	0.036	1.8	0.0101	0.0000	OK	4	S2	1.8	0.767	0.232	0.0071	
15 minute summer	SWM 11	8	6.744	0.024	0.9	0.0107	0.0000	OK	5	SWM 12	0.8	0.592	0.084	0.0014	
15 minute summer	SWM 12	9	6.723	0.023	1.0	0.0073	0.0000	OK	6	SWM 9	0.9	0.519	0.112	0.0225	
15 minute summer	S2	24	6.385	-0.035	1.8	0.5144	0.0000	OK	Infiltration		0.0				

Results for 1 year 15 minute winter, 255 minute analysis at 1 minute timestep, Mass balance: 100.00%															
Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute winter	SWM 7	9	6.684	0.014	0.3	0.0055	0.0000	OK	1	SWM 8	0.3	0.344	0.039	0.0045	
15 minute winter	SWM 8	8	6.611	0.021	0.8	0.0088	0.0000	OK	2	SWM 9	0.8	0.497	0.093	0.0082	
15 minute winter	SWM 9	9	6.532	0.032	1.5	0.0090	0.0000	OK	3	SWM 10	1.5	0.564	0.075	0.0042	
15 minute winter	SWM 10	9	6.513	0.033	1.5	0.0092	0.0000	OK	4	S2	1.5	0.736	0.197	0.0063	
15 minute winter	SWM 11	8	6.741	0.021	0.7	0.0086	0.0000	OK	5	SWM 12	0.7	0.543	0.078	0.0012	
15 minute winter	SWM 12	8	6.721	0.021	0.9	0.0089	0.0000	OK	6	SWM 9	0.8	0.495	0.101	0.0202	
15 minute winter	S2	24	6.400	-0.030	1.5	0.5689	0.0000	OK	Infiltration		0.0				

Results for 1 year 30 minute summer: 270 minute analysis at 1 minute timestep: Mass balance: 100.00%															
Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
30 minute summer	SWM 7	16	6.683	0.013	0.3	0.0054	0.0000	OK	1	SWM 8	0.3	0.349	0.033	0.0043	
30 minute summer	SWM 8	16	6.610	0.020	0.7	0.0084	0.0000	OK	2	SWM 9	0.7	0.472	0.084	0.0074	
30 minute summer	SWM 9	16	6.529	0.029	1.4	0.0082	0.0000	OK	3	SWM 10	1.3	0.549	0.063	0.0036	
30 minute summer	SWM 10	17	6.510	0.030	1.3	0.0084	0.0000	OK	4	S2	1.3	0.708	0.189	0.0058	
30 minute summer	SWM 11	16	6.740	0.020	0.6	0.0030	0.0000	OK	5	SWM 12	0.6	0.537	0.070	0.0011	
30 minute summer	SWM 12	16	6.720	0.020	0.7	0.0065	0.0000	OK	6	SWM 9	0.7	0.460	0.087	0.0179	
30 minute summer	S2	38	6.408	-0.022	1.3	0.6610	0.0000	OK	Infiltration		0.0				

Results for 1 year 30 minute winter, 270 minute analysis at 1 minute timestep, Mass balance: 100.00%															
Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
30 minute winter	SWM 7	16	6.681	0.011	0.2	0.0045	0.0000	OK	1	SWM 8	0.2	0.319	0.026	0.0034	
30 minute winter	SWM 8	16	6.607	0.017	0.5	0.0072	0.0000	OK	2	SWM 9	0.5	0.437	0.061	0.0062	
30 minute winter	SWM 9	17	6.526	0.026	1.1	0.0074	0.0000	OK	3	SWM 10	1.1	0.520	0.052	0.0031	
30 minute winter	SWM 10	17	6.507	0.027	1.1	0.0076	0.0000	OK	4	S2	1.1	0.671	0.136	0.0046	
30 minute winter	SWM 11	16	6.736	0.018	0.5	0.0062	0.0000	OK	5	SWM 12	0.5	0.505	0.056	0.0010	
30 minute winter	SWM 12	16	6.719	0.019	0.6	0.0080	0.0000	OK	6	SWM 9	0.6	0.454	0.075	0.0167	
30 minute winter	S2	37	6.416	-0.014	1.1	0.7469	0.0000	OK	Infiltration		0.0				

Results for 1 year 60 minute summer. 300 minute analysis at 1 minute timestep. Mass balance: 100.00%															
Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
60 minute summer	SWM 7	32	6.681	0.011	0.2	0.0046	0.0000	OK	1	SWM 8	0.2	0.319	0.026	0.0034	
60 minute summer	SWM 8	32	6.697	0.017	0.5	0.0072	0.0000	OK	2	SWM 9	0.5	0.428	0.061	0.0060	
60 minute summer	SWM 9	32	6.525	0.025	1.0	0.0071	0.0000	OK	3	SWM 10	1.0	0.510	0.043	0.0029	
60 minute summer	SWM 10	32	6.506	0.026	1.0	0.0073	0.0000	OK	4	S2	1.0	0.856	0.127	0.0048	
60 minute summer	SWM 11	32	6.738	0.016	0.4	0.0073	0.0000	OK	5	SWM 12	0.4	0.476	0.047	0.0009	
60 minute summer	SWM 12	32	6.717	0.017	0.5	0.0056	0.0000	OK	6	SWM 9	0.5	0.450	0.064	0.0145	
60 minute summer	S2	55	6.418	-0.014	1.0	0.7650	0.0000	OK	Infiltration		0.0				

Results for 1 year 60 minute winter. 300 minute analysis at 1 minute timestep. Mass balance: 100.00%															
Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
60 minute winter	SWM 7	31	6.681	0.011	0.2	0.0044	0.0000	OK	1	SWM 8	0.2	0.328	0.025	0.0029	
60 minute winter	SWM 8	31	6.805	0.015	0.4	0.0063	0.0000	OK	2	SWM 9	0.4	0.391	0.046	0.0049	
60 minute winter	SWM 9	32	6.522	0.022	0.8	0.0082	0.0000	OK	3	SWM 10	0.8	0.481	0.033	0.0024	
60 minute winter	SWM 10	32	6.502	0.022	0.8	0.0064	0.0000	OK	4	S2	0.8	0.614	0.099	0.0033	
60 minute winter	SWM 11	33	6.734	0.014	0.2	0.0062	0.0000	OK	5	SWM 12	0.2	0.476	0.035	0.0007	
60 minute winter	SWM 12	34	6.715	0.015	0.4	0.0050	0.0000	OK	6	SWM 9	0.4	0.450	0.051	0.0121	
60 minute winter	S2	62	6.431	0.001	0.8	0.9200	0.0000	OK	Infiltration		0.0				

Results for 1 year 120 minute summer, 360 minute analysis at 2 minute timestep. Mass balance: 105.00%															
Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
120 minute summer	SWM 7	62	6.678	0.008	0.1	0.0033	0.0000	OK	1	SWM 8	0.1	0.268	0.013	0.0023	
120 minute summer	SWM 8	62	6.603	0.013	0.3	0.0057	0.0000	OK	2	SWM 9	0.3	0.374	0.037	0.0044	
120 minute summer	SWM 9	62	6.521	0.021	0.7	0.0058	0.0000	OK	3	SWM 10	0.7	0.489	0.034	0.0022	
120 minute summer	SWM 10	62	6.501	0.021	0.7	0.0060	0.0000	OK	4	S2	0.7	0.584	0.088	0.0035	
120 minute summer	SWM 11	62	6.734	0.014	0.3	0.0062	0.0000	OK	5	SWM 12	0.3	0.428	0.035	0.0007	
120 minute summer	SWM 12	62	6.715	0.015	0.4	0.0050	0.0000	OK	6	SWM 9	0.4	0.441	0.051	0.0115	
120 minute summer	S2	90	6.419	-0.011	0.7	0.7822	0.0000	OK	Infiltration		0.0				

Results for 1 year 120 minute winter, 360 minute analysis at 2 minute timestep, Mass balance: 100.00%															
Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
120 minute winter	SWM 7	56	6.676	0.008	0.1	0.0033	0.0000	OK	1	SWM 8	0.1	0.268	0.013	0.0019	
120 minute winter	SWM 8	56	6.601	0.011	0.2	0.0047	0.0000	OK	2	SWM 9	0.2	0.371	0.025	0.0031	
120 minute winter	SWM 9	62	6.515	0.015	0.4	0.0044	0.0000	OK	3	SWM 10	0.4	0.410	0.019	0.0015	
120 minute winter	SWM 10	62	6.496	0.016	0.4	0.0045	0.0000	OK	4	S2	0.4	0.510	0.051	0.0024	
120 minute winter	SWM 11	54	6.731	0.011	0.2	0.0051	0.0000	OK	5	SWM 12	0.2	0.426	0.023	0.0005	
120 minute winter	SWM 12	60	6.711	0.011	0.2	0.0036	0.0000	OK	6	SWM 9	0.2	0.441	0.026	0.0074	
120 minute winter	S2	98	6.430	0.000	0.4	0.0095	0.0000	OK	Infiltration		0.0				

Results for 1 year 180 minute summer. 420 minute analysis at 6 minute timestep. Mass balance: 105.00%															
Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
180 minute summer	SWM 7	92	6.678	0.008	0.1	0.0033	0.0000	OK	1	SWM 8	0.1	0.267	0.013	0.0022	
180 minute summer	SWM 8	92	6.603	0.013	0.3	0.0058	0.0000	OK	2	SWM 9	0.3	0.371	0.035	0.0039	
180 minute summer	SWM 9	92	6.518	0.018	0.6	0.0052	0.0000	OK	3	SWM 10	0.5	0.448	0.027	0.0018	
180 minute summer	SWM 10	92	6.498	0.018	0.5	0.0052	0.0000	OK	4	S2	0.5	0.551	0.068	0.0029	
180 minute summer	SWM 11	95	6.731	0.011	0.2	0.0050	0.0000	OK	5	SWM 12	0.2	0.444	0.023	0.0006	
180 minute summer	SWM 12	92	6.710	0.013	0.3	0.0042	0.0000	OK	6	SWM 9	0.3	0.356	0.037	0.0095	
180 minute summer	S2	124	6.420	-0.010	0.5	0.7980	0.0000	OK	Infiltration		0.0				

Results for 1 year 180 minute winter, 420 minute analysis at 4 minute timestep, Mass balance: 100.00%															
Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
180 minute winter	SWM 7	88	6.676	0.008	0.1	0.0033	0.0000	OK	1	SWM 8	0.1	0.267	0.013	0.0019	
180 minute winter	SWM 8	88	6.601	0.011	0.2	0.0047	0.0000	OK	2	SWM 9	0.2	0.371	0.025	0.0027	
180 minute winter	SWM 9	88	6.513	0.013	0.3	0.0038	0.0000	OK	3	SWM 10	0.3	0.381	0.015	0.0012	
180 minute winter	SWM 10	92	6.494	0.014	0.3	0.0039	0.0000	OK	4	S2	0.3	0.470	0.033	0.0019	
180 minute winter	SWM 11	72	6.728	0.008	0.1	0.0036	0.0000	OK	5	SWM 12	0.1	0.444	0.012	0.0003	
180 minute winter	SWM 12	60	6.760	0.008	0.1	0.0027	0.0000	OK	6	SWM 9	0.1	0.353	0.013	0.0055	
180 minute winter	S2	136	6.432	0.002	0.3	0.9410	0.0000	OK	Infiltration		0.0				

Results for 1 year 240 minute summer. 480 minute analysis at 6 minute timestep. Mass balance: 105.00%															
Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
240 minute summer	SWM 7	120	6.678	0.008	0.1	0.0033	0.0000	OK	1	SWM 8	0.1	0.267	0.013	0.0019	
240 minute summer	SWM 8	123	6.601	0.011	0.2	0.0047	0.0000	OK	2	SWM 9	0.2	0.371	0.025	0.0031	
240 minute summer	SWM 9	124	6.515	0.015	0.4	0.0044	0.0000	OK	3	SWM 10	0.4	0.499	0.019	0.0015	
240 minute summer	SWM 10	124	6.496	0.016	0.4	0.0045	0.0000	OK	4	S2	0.4	0.510	0.051	0.0023	
240 minute summer	SWM 11	124	6.731	0.011	0.2	0.0051	0.0000	OK	5	SWM 12	0.2	0.444	0.023	0.0006	
240 minute summer	SWM 12	124	6.711	0.011	0.2	0.0036	0.0000	OK	6	SWM 9	0.2	0.353	0.025	0.0074	
240 minute summer	S2	160	6.423	-0.007	0.4	0.0055	0.0000	OK	Infiltration		0.0				

Results for 1 year 240 minute winter, 480 minute analysis at 4 minute timestep, Mass balance: 100.00%															
Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
240 minute winter	SWM 7	120	6.676	0.008	0.1	0.0033	0.0000	OK	1	SWM 8	0.1	0.267	0.013	0.0019	
240 minute winter	SWM 8	120	6.601	0.011	0.2	0.0047	0.0000	OK	2	SWM 9	0.2	0.371	0.025	0.0027	
240 minute winter	SWM 9	120	6.513	0.013	0.3	0.0038	0.0000	OK	3	SWM 10	0.3	0.381	0.015	0.0012	
240 minute winter	SWM 10	124	6.494	0.014	0.3	0.0039	0.0000	OK	4	S2	0.3	0.470	0.033	0.0019	
240 minute winter	SWM 11	96	6.728	0.008	0.1	0.0036	0.0000	OK	5	SWM 12	0.1	0.444	0.012	0.0003	
240 minute winter	SWM 12	84	6.768	0.008	0.1	0.0027	0.0000	OK	6	SWM 9	0.1	0.353	0.013	0.0055	
240 minute winter	S2	172	6.441	0.011	0.3	1.0459	0.0000	OK	Infiltration		0.0				

Results for 1 year 360 minute summer. 600 minute analysis at 5 minute timestep. Mass balance: 105.00%															
Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
360 minute summer	SWM 7	184	6.678	0.008	0.1	0.0033	0.0000	OK	1	SWM 8	0.1	0.267	0.013	0.0019	
360 minute summer	SWM 8	192	6.601	0.011	0.2	0.0047	0.0000	OK	2	SWM 9	0.2	0.371	0.025	0.0027	
360 minute summer	SWM 9	192	6.513	0.013	0.3	0.0038	0.0000	OK	3	SWM 10	0.3	0.381	0.015	0.0012	
360 minute summer	SWM 10	192	6.494	0.014	0.3	0.0039	0.0000	OK	4	S2	0.3	0.470	0.038	0.0019	
360 minute summer	SWM 11	165	6.728	0.008	0.1	0.0036	0.0000	OK	5	SWM 12	0.1	0.345	0.012	0.0008	
360 minute summer	SWM 12	168	6.708	0.008	0.1	0.0028	0.0000	OK	6	SWM 9	0.1	0.380	0.013	0.0005	
360 minute summer	S2	232	6.422	-0.006	0.3	0.0057	0.0000	OK	Infiltration		0.0				

Results for 1 year 360 minute winter, 600 minute analysis at 6 minute timestep, Mass balance: 100.00%															
Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
360 minute winter	SWM 7	8	6.676	0.000	0.0	0.0000	0.0000	OK	1	SWM 8	0.0	0.000	0.000	0.0007	
360 minute winter	SWM 8	168	6.598	0.008	0.1	0.0034	0.0000	OK	2	SWM 9	0.1	0.271	0.012	0.0019	
360 minute winter	SWM 9	168	6.511	0.011	0.2	0.0081	0.0000	OK	3	SWM 10	0.2	0.341	0.010	0.0009	
360 minute winter	SWM 10	168	6.491	0.011	0.2	0.0032	0.0000	OK	4	S2	0.2	0.413	0.026	0.0014	
360 minute winter	SWM 11	160	6.728	0.008	0.1	0.0036	0.0000	OK	5	SWM 12	0.1	0.345	0.012	0.0003	
360 minute winter	SWM 12	144	6.768	0.008	0.1	0.0026	0.0000	OK	6	SWM 9	0.1	0.390	0.013	0.0045	
360 minute winter	S2	248	6.432	0.002	0.2	0.9353	0.0000	OK	Infiltration		0.0				

Results for 1 year 480 minute summer. 720 minute analysis at 5 minute timestep. Mass balance: 105.00%															
Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
480 minute summer	SWM 7	8	6.670	0.000	0.0	0.0000	0.0000	OK	1	SWM 8	0.0	0.000	0.000	0.0007	
480 minute summer	SWM 8	240	6.598	0.008	0.1	0.0034	0.0000	OK	2	SWM 9	0.1	0.271	0.012	0.0019	
480 minute summer	SWM 9	240	6.511	0.011	0.2	0.0031	0.0000	OK	3	SWM 10	0.2	0.341	0.010	0.0008	
480 minute summer	SWM 10	240	6.491	0.011	0.2	0.0032	0.0000	OK	4	S2	0.2	0.418	0.026	0.0014	
480 minute summer	SWM 11	232	6.728	0.008	0.1	0.0036	0.0000	OK	5	SWM 12	0.1	0.345	0.012	0.0008	
480 minute summer	SWM 12	216	6.708	0.008	0.1	0.0028	0.0000	OK	6	SWM 9	0.1	0.390	0.013	0.0045	
480 minute summer	S2	296	6.410	-0.020	0.2	0.0819	0.0000	OK	Infiltration		0.0				

Results for 1 year 480 minute winter, 720 minute analysis at 6 minute timestep, Mass balance: 100.00%															
Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
480 minute winter	SWM 7	8	6.676	0.000	0.0	0.0000	0.0000	OK	1	SWM 8	0.0	0.000	0.000	0.0007	
480 minute winter	SWM 8	240	6.598	0.008	0.1	0.0034	0.0000	OK	2	SWM 9	0.1	0.271	0.012	0.0019	
480 minute winter	SWM 9	240	6.511	0.011	0.2	0.0081	0.0000	OK	3	SWM 10	0.2	0.341	0.010	0.0009	
480 minute winter	SWM 10	240	6.491	0.011	0.2	0.0032	0.0000	OK	4	S2	0.2	0.413	0.026	0.0014	
480 minute winter	SWM 11	232	6.728	0.008	0.1	0.0036	0.0000	OK	5	SWM 12	0.1	0.345	0.012	0.0009	
480 minute winter	SWM 12	216	6.768	0.008	0.1	0.0026	0.0000	OK	6	SWM 9	0.1	0.390	0.013	0.0045	
480 minute winter	S2	312	6.424	-0.007	0.2	0.8379	0.0000	OK	Infiltration		0.0				

Results for 1 year 600 minute summer. 600 minute analysis at 15 minute timestep. Mass balance: 100.00%															
Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
600 minute summer	SWM 7	15	6.670	0.000	0.0	0.0000	0.0000	OK	1	SWM 8	0.0	0.000	0.000	0.0007	
600 minute summer	SWM 8	315	6.598	0.008	0.1	0.0034	0.0000	OK	2	SWM 9	0.1	0.271	0.012	0.0019	
600 minute summer	SWM 9	315	6.511	0.011	0.2	0.0031	0.0000	OK	3	SWM 10	0.2	0.341	0.010	0.0008	
600 minute summer	SWM 10	315	6.491	0.011	0.2	0.0032	0.0000	OK	4	S2	0.2	0.418	0.026	0.0014	
600 minute summer	SWM 11	300	6.728	0.008	0.1	0.0036	0.0000	OK	5	SWM 12	0.1	0.345	0.012	0.0008	
600 minute summer	SWM 12	285	6.708	0.008	0.1	0.0028	0.0000	OK	6	SWM 9	0.1	0.348	0.013	0.0045	
600 minute summer	S2	360	6.405	-0.028	0.2	0.0074	0.0000	OK	Infiltration		0.0				

Results for 1 year 600 minute winter, 640 minute analysis at 15 minute timestep. Mass balance: 100.00%															
Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
600 minute winter	SWM 7	15	6.676	0.000	0.0	0.0000	0.0000	OK	1	SWM 8	0.0	0.000	0.000	0.0000	
600 minute winter	SWM 8	15	6.590	0.000	0.0	0.0000	0.0000	OK	2	SWM 9	0.0	0.000	0.000	0.0007	
600 minute winter	SWM 9	285	6.508	0.008	0.1	0.0022	0.0000	OK	3	SWM 10	0.1	0.281	0.005	0.0005	
600 minute winter	SWM 10	360	6.486	0.008	0.1	0.0023	0.0000	OK	4	S2	0.1	0.340	0.013	0.0009	
600 minute winter	SWM 11	285	6.728	0.008	0.1	0.0036	0.0000	OK	5	SWM 12	0.1	0.344	0.012	0.0003	
600 minute winter	SWM 12	285	6.768	0.008	0.1	0.0026	0.0000	OK	6	SWM 9	0.1	0.348	0.013	0.0035	
600 minute winter	S2	360	6.391	-0.039	0.1	0.4666	0.0000	OK	Infiltration		0.0				

Results for 1 year 720 minute summer, 960 minute analysis at 15 minute timestep, Mass balance: 100.00%															
Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
720 minute summer	SWM 7	15	6.670	0.000	0.0	0.0000	0.0000	OK	1	SWM 8	0.0	0.000	0.000	0.0007	
720 minute summer	SWM 8	375	6.598	0.008	0.1	0.0034	0.0000	OK	2	SWM 9	0.1	0.271	0.012	0.0019	
720 minute summer	SWM 9	375	6.511	0.011	0.2	0.0031	0.0000	OK	3	SWM 10	0.2	0.341	0.013	0.0008	
720 minute summer	SWM 10	375	6.491	0.011	0.2	0.0032	0.0000	OK	4	S2	0.2	0.418	0.025	0.0014	
720 minute summer	SWM 11	360	6.728	0.008	0.1	0.0036	0.0000	OK	5	SWM 12	0.1	0.345	0.012	0.0003	
720 minute summer	SWM 12	345	6.708	0.008	0.1	0.0028	0.0000	OK	6	SWM 9	0.1	0.348	0.013	0.0045	
720 minute summer	S2	420	6.405	-0.025	0.2	0.0074	0.0000	OK	Infiltration		0.0				

Results for 1 year 720 minute winter, 960 minute analysis at 15 minute timestep. Mass balance: 100.00%															
Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
720 minute winter	SWM 7	15	6.676	0.000	0.0	0.0000	0.0000	OK	1	SWM 8	0.0	0.000	0.000	0.0000	
720 minute winter	SWM 8	15	6.590	0.000	0.0	0.0000	0.0000	OK	2	SWM 9	0.0	0.000	0.000	0.0007	
720 minute winter	SWM 9	345	6.508	0.008	0.1	0.0022	0.0000	OK	3	SWM 10	0.1	0.281	0.005	0.0005	
720 minute winter	SWM 10	360	6.486	0.008	0.1	0.0023	0.0000	OK	4	S2	0.1	0.340	0.013	0.0009	
720 minute winter	SWM 11	345	6.728	0.008	0.1	0.0036	0.0000	OK	5	SWM 12	0.1	0.344	0.012	0.0003	
720 minute winter	SWM 12	345	6.768	0.008	0.1	0.0026	0.0000	OK	6	SWM 9	0.1	0.348	0.013	0.0035	
720 minute winter	S2	420	6.391	-0.039	0.1	0.4666	0.0000	OK	Infiltration		0.0				

Results for 1 year 960 minute summer, 1200 minute analysis at 15 minute timestep, Mass balances: 100.50%															
Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
960 minute summer	SWM 7	15	6.670	0.000	0.0	0.0000	0.0000	OK	1	SWM 8	0.0	0.000	0.000	0.0000	
960 minute summer	SWM 8	15	6.590	0.000	0.0	0.0000	0.0000	OK	2	SWM 9	0.0	0.000	0.000	0.0007	
960 minute summer	SWM 9	480	6.508	0.008	0.1	0.0022	0.0000	OK	3	SWM 10	0.1	0.281	0.005	0.0005	
960 minute summer	SWM 10	485	6.468	0.008	0.1	0.0023	0.0000	OK	4	S2	0.1	0.340	0.013	0.0009	
960 minute summer	SWM 11	480	6.728	0.008	0.1	0.0036	0.0000	OK	5	SWM 12	0.1	0.344	0.012	0.0008	
960 minute summer	SWM 12	480	6.708	0.008	0.1	0.0026	0.0000	OK	6	SWM 9	0.1	0.348	0.013	0.0005	
960 minute summer	S2	525	6.378	-0.052	0.1	0.3168	0.0000	OK	Infiltration		0.0				

Results for 1 year 960 minute winter, 1200 minute analysis at 15 minute timestep. Mass balance: 100.00%															
Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
960 minute winter	SWM 7	15	6.676	0.000	0.0	0.0000	0.0000	OK	1	SWM 8	0.0	0.000	0.000	0.0000	
960 minute winter	SWM 8	15	6.590	0.000	0.0	0.0000	0.0000	OK	2	SWM 9	0.0	0.000	0.000	0.0000	
960 minute winter	SWM 9	15	6.500	0.000	0.0	0.0000	0.0000	OK	3	SWM 10	0.0	0.000	0.000	0.0000	
960 minute winter	SWM 10	15	6.480	0.000	0.0	0.0000	0.0000	OK	4	S2	0.0	0.000	0.000	0.0000	
960 minute winter	SWM 11	15	6.720	0.000	0.0	0.0000	0.0000	OK	5	SWM 12	0.0	0.000	0.000	0.0000	
960 minute winter	SWM 12	15	6.760	0.000	0.0	0.0000	0.0000	OK	6	SWM 9	0.0	0.000	0.000	0.0000	
960 minute winter	S2	15	6.350	-0.080	0.0	0.0000	0.0000	OK	Infiltration		0.0				

Results for 1 year 1440 minute summer, 1680 minute analysis at 30 minute timestep. Mass balance: 105.00%															
Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
1440 minute summer	SWM 7	30	6.670	0.000	0.0	0.0000	0.0000	OK	1	SWM 8	0.0	0.000	0.000	0.0000	
1440 minute summer	SWM 8	30	6.590	0.000	0.0	0.0000	0.0000	OK	2	SWM 9	0.0	0.000	0.000	0.0000	
1440 minute summer	SWM 9	30	6.500	0.000	0.0	0.0000	0.0000	OK	3	SWM 10	0.0	0.000	0.000	0.0000	
1440 minute summer	SWM 10	30	6.480	0.000	0.0	0.0000	0.0000	OK	4	S2	0.0	0.000	0.000	0.0000	
1440 minute summer	SWM 11	30	6.720	0.000	0.0	0.0000	0.0000	OK	5	SWM 12	0.0	0.000	0.000	0.0000	
1440 minute summer	SWM 12	30	6.700	0.000	0.0	0.0000	0.0000	OK	6	SWM 9	0.0	0.000	0.000	0.0000	
1440 minute summer	S2	30	6.350	-0.060	0.0	0.0000	0.0000	OK	Infiltration		0.0				

Results for 1 year 1440 minute winter, 1680 minute analysis at 30 minute timestep. Mass balance: 100.00%															
Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
1440 minute winter	SWM 7	30	6.670	0.000	0.0	0.0000	0.0000	OK	1	SWM 8	0.0	0.000	0.000	0.0000	
1440 minute winter	SWM 8	30	6.580	0.000	0.0	0.0000	0.0000	OK	2	SWM 9	0.0	0.000	0.000	0.0000	
1440 minute winter	SWM 9	30	6.500	0.000	0.0	0.0000	0.0000	OK	3	SWM 10	0.0	0.000	0.000	0.0000	
1440 minute winter	SWM 10	30	6.480	0.000	0.0	0.0000	0.0000	OK	4	S2	0.0	0.000	0.000	0.0000	
1440 minute winter	SWM 11	30	6.720	0.000	0.0	0.0000	0.0000	OK	5	SWM 12	0.0	0.000	0.000	0.0000	
1440 minute winter	SWM 12	30	6.750	0.000	0.0	0.0000	0.0000	OK	6	SWM 9	0.0	0.000	0.000	0.0000	
1440 minute winter	S2	30	6.350	-0.050	0.0	0.0000	0.0000	OK	Infiltration		0.0				

Results for 30 year 15 minute summer, 255 minute analysis at 1 minute timestep. Mass balance: 105.00%															
Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	SWM 7	6	6.634	0.024	1.1	0.0036	0.0000	OK	1	SWM 8	1.0	0.466	0.130	0.0107	
15 minute summer	SWM 8	8	6.629	0.033	2.6	0.0167	0.0000	OK	2	SWM 9	2.3	0.640	0.287	0.0184	
15 minute summer	SWM 9	9	6.561	0.081	4.6	0.0172	0.0000	OK	3	SWM 10	4.5	0.636	0.217	0.0103	
15 minute summer	SWM 10	9	6.543	0.063	4.5	0.0178	0.0000	OK	4	S2	4.6	0.360	0.530	0.0144	
15 minute summer	SWM 11	8	6.760	0.040	2.2	0.0181	0.0000	OK	5	SWM 12	2.0	0.725	0.236	0.0026	
15 minute summer	SWM 12	6	6.737	0.037	2.5	0.0120	0.0000	OK	6	SWM 9	2.3	0.642	0.291	0.0446	
15 minute summer	S2	24	6.466	0.036	4.6	1.3311	0.0000	OK	Infiltration		0.0				

Results for 30 year 15 minute winter, 255 minute analysis at 1 minute timestep. Mass balance: 100.00%															
Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute winter	SWM 7	8	6.691	0.021	0.8	0.0087	0.0000	OK	1	SWM 8	0.8	0.425	0.101	0.0092	
15 minute winter	SWM 8	8	6.825	0.035	2.1	0.0150	0.0000	OK	2	SWM 9	2.0	0.590	0.244	0.0170	
15 minute winter	SWM 9	9	6.556	0.056	4.0	0.0139	0.0000	OK	3	SWM 10	4.0	0.662	0.193	0.0091	
15 minute winter	SWM 10	9	6.507	0.057	4.0	0.0182	0.0000	OK	4	S2	4.0	0.929	0.511	0.0129	
15 minute winter	SWM 11	8	6.756	0.038	1.7	0.0161	0.0000	OK	5	SWM 12	1.7	0.673	0.193	0.0025	
15 minute winter	SWM 12	8	6.734	0.034	2.1	0.0111	0.0000	OK	6	SWM 9	2.0	0.597	0.255	0.0415	
15 minute winter	S2	24	6.479	0.049	4.0	1.4899	0.0000	OK	Infiltration		0.0				

Results for 30 year 30 minute summer, 270 minute analysis at 1 minute timestep. Mass balance: 105.00%															
Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
30 minute summer	SWM 7	16	6.690	0.020	0.7	0.0083	0.0000	OK	1	SWM 8	0.7	0.419	0.091	0.0094	
30 minute summer	SWM 8	16	6.623	0.033	1.8	0.0140	0.0000	OK	2	SWM 9	1.8	0.576	0.226	0.0158	
30 minute summer	SWM 9	16	6.552	0.052	3.6	0.0147	0.0000	OK	3	SWM 10	3.5	0.648	0.171	0.0081	
30 minute summer	SWM 10	16	6.532	0.052	3.5	0.0148	0.0000	OK	4	S2	3.4	0.896	0.446	0.0115	
30 minute summer	SWM 11	16	6.763	0.033	1.4	0.0147	0.0000	OK	5	SWM 12	1.4	0.635	0.163	0.0022	
30 minute summer	SWM 12	16	6.733	0.033	1.8	0.0105	0.0000	OK	6	SWM 9	1.8	0.590	0.226	0.0378	
30 minute summer	S2	38	6.488	0.088	3.4	1.7120	0.0000	OK	Infiltration		0.0				

Results for 30 year 30 minute winter, 270 minute analysis at 1 minute timestep. Mass balance: 100.00%															
Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
30 minute winter	SWM 7	16	6.683	0.019	0.8	0.0077	0.0000	OK	1	SWM 8	0.8	0.426	0.078	0.0071	
30 minute winter	SWM 8	16	6.618	0.028	1.4	0.0121	0.0000	OK	2	SWM 9	1.4	0.545	0.172	0.0130	
30 minute winter	SWM 9	16	6.545	0.045	2.3	0.0127	0.0000	OK	3	SWM 10	2.3	0.622	0.135	0.0067	
30 minute winter	SWM 10	17	6.525	0.045	2.8	0.0129	0.0000	OK	4	S2	2.8	0.652	0.353	0.0153	
30 minute winter	SWM 11	16	6.748	0.028	1.1	0.0128	0.0000	OK	5	SWM 12	1.1	0.598	0.123	0.0018	
30 minute winter	SWM 12	16	6.729	0.029	1.4	0.0092	0.0000	OK	6	SWM 9	1.4	0.536	0.178	0.0315	
30 minute winter	S2	36	6.520	0.090	2.8	1.9624	0.0000	OK	Infiltration		0.0				

Results for 30 year 60 minute summer. 300 minute analysis at 1 minute timestep. Mass balance: 105.00%															
Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
60 minute summer	SWM 7	31	6.687	0.017	0.5	0.0070	0.0000	OK	1	SWM 8	0.5	0.401	0.065	0.0060	
60 minute summer	SWM 8	31	6.616	0.026	1.2	0.0111	0.0000	OK	2	SWM 9	1.2	0.528	0.147	0.0115	
60 minute summer	SWM 9	31	6.541	0.041	2.4	0.0115	0.0000	OK	3	SWM 10	2.3	0.607	0.114	0.0058	
60 minute summer	SWM 10	58	6.531	0.051	2.3	0.0144	0.0000	OK	4	S2	2.3	0.817	0.236	0.0177	
60 minute summer	SWM 11	31	6.747	0.027	1.0	0.0120	0.0000	OK	5	SWM 12	1.0	0.600	0.116	0.0017	
60 minute summer	SWM 12	31	6.726	0.026	1.2	0.0085	0.0000	OK	6	SWM 9	1.2	0.519	0.152	0.0278	
60 minute summer	S2	85	6.530	0.100	2.3	2.0790	0.0000	OK	Infiltration		0.0				

Results for 30 year 60 minute winter, 300 minute analysis at 1 minute timestep. Mass balance: 98.15%															
Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
60 minute winter	SWM 7	32	6.688	0.016	0.4	0.0083	0.0000	OK	1	SWM 8	0.4	0.386	0.052	0.0052	
60 minute winter	SWM 8	32	6.613	0.023	0.9	0.0097	0.0000	OK	2	SWM 9	0.9	0.467	0.111	0.0099	
60 minute winter	SWM 9	65	6.549	0.049	1.8	0.0138	0.0000	OK	3	SWM 10	1.8	0.590	0.083	0.0096	
60 minute winter	SWM 10	61	6.549	0.069	1.8	0.0195	0.0000	OK	4	S2	1.8	0.766	0.230	0.0204	
60 minute winter	SWM 11	32	6.742	0.022	0.7	0.0089	0.0000	OK	5	SWM 12	0.7	0.535	0.062	0.0013	
60 minute winter	SWM 12	33	6.723	0.023	0.9	0.0074	0.0000	OK	6	SWM 9	0.9	0.492	0.115	0.0241	
60 minute winter	S2	64	6.549	0.119	1.8	2.2983	0.0000	OK	Infiltration		0.0				

Results for 30 year 120 minute summer, 360 minute analysis at 2 minute timestep, Mass balance: 95.09%															
Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
120 minute summer	SWM 7	62	6.694	0.014	0.3	0.0065	0.0000	OK	1	SWM 8	0.3	0.350	0.039	0.0043	
120 minute summer	SWM 8	64	6.610	0.020	0.7	0.0085	0.0000	OK	2	SWM 9	0.7	0.472	0.066	0.0101	
120 minute summer	SWM 9	124	6.551	0.051	1.4	0.0145	0.0000	OK	3	SWM 10	1.4	0.547	0.068	0.0102	
120 minute summer	SWM 10	124	6.551	0.071	1.4	0.0202	0.0000	OK	4	S2	1.4	0.717	0.179	0.0207	
120 minute summer	SWM 11	62	6.740	0.020	0.6	0.0090	0.0000	OK	5	SWM 12	0.6	0.594	0.070	0.0011	
120 minute summer	SWM 12	62	6.720	0.020	0.7	0.0065	0.0000	OK	6	SWM 9	0.7	0.458	0.099	0.0256	
120 minute summer	S2	124	6.551	0.121	1.4	2.3293	0.0000	OK	Infiltration		0.0				

Results for 30 year 120 minute winter, 360 minute analysis at 2 minute timestep, Mass balance: 97.95%															
Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
120 minute winter	SWM 7	56	6.681	0.011	0.2	0.0045	0.0000	OK	1	SWM 8	0.2	0.324	0.026	0.0034	
120 minute winter	SWM 8	56	6.697	0.017	0.5	0.0072	0.0000	OK	2	SWM 9	0.5	0.438	0.061	0.0179	
120 minute winter	SWM 9	120	6.584	0.084	1.0	0.0237	0.0000	OK	3	SWM 10	1.4	0.534	0.068	0.0173	
120 minute winter	SWM 10	120	6.584	0.104	1.4	0.0284	0.0000	OK	4	S2	1.7	0.657	0.222	0.0235	
120 minute winter	SWM 11	56	6.736	0.016	0.4	0.0073	0.0000	OK	5	SWM 12	0.4	0.468	0.047	0.0038	
120 minute winter	SWM 12	60	6.717	0.017	0.5	0.0056	0.0000	OK	6	SWM 9	0.5	0.423	0.064	0.0433	
120 minute winter	S2	120	6.584	0.154	1.7	2.7088	0.0000	OK	Infiltration		0.0				

Results for 30 year 180 minute summer, 420 minute analysis at 4 minute timestep, Mass balance: 95.11%															
Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
180 minute summer	SWM 7	92	6.681	0.011	0.2	0.0045	0.0000	OK	1	SWM 8	0.2	0.327	0.026	0.0034	
180 minute summer	SWM 8	92	6.607	0.017	0.5	0.0072	0.0000	OK	2	SWM 9	0.5	0.425	0.061	0.0110	
180 minute summer	SWM 9	152	6.555	0.055	1.1	0.0155	0.0000	OK	3	SWM 10	1.1	0.528	0.052	0.0110	
180 minute summer	SWM 10	152	6.555	0.075	1.1	0.0212	0.0000	OK	4	S2	1.1	0.668	0.137	0.0212	
180 minute summer	SWM 11	92	6.738	0.018	0.5	0.0081	0.0000	OK	5	SWM 12	0.5	0.503	0.057	0.0010	
180 minute summer	SWM 12	92	6.718	0.018	0.6	0.0060	0.0000	OK	6	SWM 9	0.6	0.449	0.074	0.0276	
180 minute summer	S2	152	6.555	0.125	1.1	2.3706	0.0000	OK	Infiltration		0.0				

Results for 30 year 180 minute winter. 420 minute analysis at 4 minute timestep. Mass balance: 96.94%															
Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
180 minute winter	SWM 7	92	6.681	0.011	0.2	0.0045	0.0000	OK	1	SWM 8	0.2	0.330	0.026	0.0030	
180 minute winter	SWM 8	92	6.605	0.015	0.4	0.0065	0.0000	OK	2	SWM 9	0.4	0.399	0.049	0.0180	
180 minute winter	SWM 9	172	6.589	0.089	0.8	0.0250	0.0000	OK	3	SWM 10	0.9	0.505	0.041	0.0183	
180 minute winter	SWM 10	172	6.589	0.109	0.9	0.0307	0.0000	OK	4	S2	1.2	0.609	0.154	0.0235	
180 minute winter	SWM 11	64	6.734	0.014	0.3	0.0062	0.0000	OK	5	SWM 12	0.3	0.444	0.035	0.0097	
180 minute winter	SWM 12	84	6.715	0.015	0.4	0.0050	0.0000	OK	6	SWM 9	0.4	0.417	0.051	0.0454	
180 minute winter	S2	172	6.589	0.159	1.2	2.7941	0.0000	OK	Infiltration		0.0				

Results for 30 year 240 minute summer, 480 minute analysis at 4 minute timestep, Mass balance: 95.49%															
Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
240 minute summer	SWM 7	124	6.681	0.011	0.2	0.0045	0.0000	OK	1	SWM 8	0.2	0.327	0.026	0.0004	
240 minute summer	SWM 8	124	6.607	0.017	0.5	0.0072	0.0000	OK	2	SWM 9	0.5	0.425	0.061	0.0037	
240 minute summer	SWM 9	188	6.550	0.050	1.0	0.0141	0.0000	OK	3	SWM 10	1.0	0.512	0.049	0.0098	
240 minute summer	SWM 10	188	6.550	0.070	1.0	0.0187	0.0000	OK	4	S2	1.0	0.644	0.128	0.0205	
240 minute summer	SWM 11	124	6.736	0.016	0.4	0.0073	0.0000	OK	5	SWM 12	0.4	0.488	0.047	0.0008	
240 minute summer	SWM 12	124	6.717	0.017	0.5	0.0056	0.0000	OK	6	SWM 9	0.5	0.416	0.064	0.0245	
240 minute summer	S2	184	6.550	0.120	1.0	2.3104	0.0000	OK	Infiltration		0.0				

Results for 30 year 240 minute winter. 480 minute analysis at 4 minute timestep. Mass balance: 97.15%															
Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
240 minute winter	SWM 7	88	6.678	0.008	0.1	0.0033	0.0003	OK	1	SWM 8	0.1	0.267	0.013	0.0023	
240 minute winter	SWM 8	108	6.603	0.013	0.3	0.0057	0.0006	OK	2	SWM 9	0.3	0.371	0.037	0.0184	
240 minute winter	SWM 9	186	6.589	0.089	0.7	0.0252	0.0003	OK	3	SWM 10	1.2	0.488	0.057	0.0184	
240 minute winter	SWM 10	196	6.589	0.109	1.2	0.0308	0.0003	EXCEEDED	4	S2	1.1	0.572	0.109	0.0235	
240 minute winter	SWM 11	124	6.734	0.014	0.3	0.0062	0.0003	OK	5	SWM 12	0.3	0.444	0.033	0.0037	
240 minute winter	SWM 12	124	6.715	0.015	0.4	0.0050	0.0003	OK	6	SWM 9	0.4	0.418	0.051	0.0458	
240 minute winter	S2	196	6.589	0.159	1.1	2.7998	0.0003	OK	Infiltration		0.0				

Results for 30 year 360 minute summer, 600 minute analysis at 8 minute timestep, Mass balance: 150.05%															
Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
360 minute summer	SWM 7	168	6.678	0.008	0.1	0.0033	0.0000	OK	1	SWM 8	0.1	0.267	0.013	0.0028	
360 minute summer	SWM 8	184	6.603	0.013	0.3	0.0057	0.0000	OK	2	SWM 9	0.3	0.363	0.037	0.0077	
360 minute summer	SWM 9	256	6.542	0.042	0.7	0.0118	0.0000	OK	3	SWM 10	0.7	0.472	0.033	0.0081	
360 minute summer	SWM 10	258	6.542	0.062	0.7	0.0175	0.0000	OK	4	S2	0.7	0.581	0.087	0.0183	
360 minute summer	SWM 11	184	6.734	0.014	0.3	0.0062	0.0000	OK	5	SWM 12	0.3	0.423	0.034	0.0067	
360 minute summer	SWM 12	184	6.715	0.015	0.4	0.0049	0.0000	OK	6	SWM 9	0.4	0.413	0.055	0.0195	
360 minute summer	S2	256	6.542	0.112	0.7	2.2175	0.0000	OK	Infiltration		0.0				

Results for 30 year 360 minute winter, 600 minute analysis at 5 minute timestep. Mass balance: 97.62%															
Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
360 minute winter	SWM 7	144	6.676	0.068	0.1	0.0033	0.0000	OK	1	SWM 8	0.1	0.267	0.013	0.0019	
360 minute winter	SWM 8	144	6.601	0.011	0.2	0.0047	0.0000	OK	2	SWM 9	0.2	0.371	0.025	0.0185	
360 minute winter	SWM 9	280	6.579	0.079	0.4	0.0223	0.0000	OK	3	SWM 10	0.9	0.401	0.045	0.0162	
360 minute winter	SWM 10	280	6.579	0.099	1.1	0.0279	0.0000	OK	4	S2	0.4	0.510	0.057	0.0234	
360 minute winter	SWM 11	160	6.731	0.011	0.2	0.0051	0.0000	OK	5	SWM 12	0.2	0.422	0.023	0.0005	
360 minute winter	SWM 12	160	6.711	0.011	0.2	0.0006	0.0000	OK	6	SWM 9	0.2	0.390	0.026	0.0407	
360 minute winter	S2	280	6.579	0.149	0.4	2.6493	0.0000	OK	Infiltration		0.0				

Results for 30 year 480 minute summer, 720 minute analysis at 8 minute timestep, Mass balance: 150.05%															
Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
480 minute summer	SWM 7	224	6.678	0.008	0.1	0.0033	0.0000	OK	1	SWM 8	0.1	0.267	0.013	0.0023	
480 minute summer	SWM 8	248	6.603	0.013	0.3	0.0057	0.0000	OK	2	SWM 9	0.3	0.376	0.037	0.0083	
480 minute summer	SWM 9	320	6.544	0.044	0.6	0.0124	0.0000	OK	3	SWM 10	0.6	0.485	0.029	0.0086	
480 minute summer	SWM 10	320	6.544	0.064	0.6	0.0181	0.0000	OK	4	S2	0.7	0.562	0.088	0.0187	
480 minute summer	SWM 11	232	6.731	0.011	0.2	0.0051	0.0000	OK	5	SWM 12	0.2	0.422	0.023	0.0006	
480 minute summer	SWM 12	248	6.710	0.013	0.3	0.0043	0.0000	OK	6	SWM 9	0.3	0.390	0.038	0.0206	
480 minute summer	S2	320	6.544	0.114	0.7	2.2425	0.0000	OK	Infiltration		0.0				

Results for 30 year 480 minute winter, 720 minute analysis at 8 minute timestep. Mass balance: 97.95%															
Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
480 minute winter	SWM 7	208	6.676	0.068	0.1	0.0033	0.0000	OK	1	SWM 8	0.1	0.267	0.013	0.0019	
480 minute winter	SWM 8	208	6.601	0.011	0.2	0.0047	0.0000	OK	2	SWM 9	0.2	0.373	0.025	0.0181	
480 minute winter	SWM 9	352	6.576	0.076	0.4	0.0216	0.0000	OK	3	SWM 10	0.4	0.401	0.019	0.0157	
480 minute winter	SWM 10	352	6.576	0.086	0.7	0.0273	0.0000	OK	4	S2	0.6	0.470	0.075	0.0233	
480 minute winter	SWM 11	240	6.731	0.011	0.2	0.0051	0.0000	OK	5	SWM 12	0.2	0.422	0.023	0.0005	
480 minute winter	SWM 12	240	6.711	0.011	0.2	0.0036	0.0000	OK	6	SWM 9	0.2	0.390	0.026	0.0086	
480 minute winter	S2	352	6.576	0.146	0.6	2.6233	0.0000	OK	Infiltration		0.0				

Results for 30 year 600 minute summer, 840 minute analysis at 15 minute timestep. Mass balance: 100.50%															
Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
600 minute summer	SWM 7	285	6.678	0.008	0.1	0.0033	0.0000	OK	1	SWM 8	0.1	0.267	0.013	0.0019	
600 minute summer	SWM 8	285	6.601	0.011	0.2	0.0047	0.0000	OK	2	SWM 9	0.2	0.386	0.025	0.0064	
600 minute summer	SWM 9	405	6.536	0.036	0.4	0.0102	0.0000	OK	3	SWM 10	0.5	0.421	0.028	0.0068	
600 minute summer	SWM 10	405	6.536	0.056	0.7	0.0159	0.0000	OK	4	S2	0.6	0.505	0.080	0.0185	
600 minute summer	SWM 11	315	6.791	0.011	0.2	0.0051	0.0000	OK	5	SWM 12	0.2	0.421	0.029	0.0066	
600 minute summer	SWM 12	315	6.711	0.011	0.2	0.0036	0.0000	OK	6	SWM 9	0.2	0.348	0.026	0.0158	
600 minute summer	S2	405	6.536	0.106	0.6	2.1526	0.0000	OK	Infiltration		0.0				

Results for 30 year 600 minute winter, 240 minute analysis at 15 minute timestep. Mass balance: 96.10%															
Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
600 minute winter	SWM 7	270	6.676	0.068	0.1	0.0033	0.0000	OK	1	SWM 8	0.1	0.267	0.013	0.0019	
600 minute winter	SWM 8	270	6.601	0.011	0.2	0.0047	0.0000	OK	2	SWM 9	0.2	0.384	0.025	0.0185	
600 minute winter	SWM 9	435	6.578	0.078	0.4	0.0222	0.0000	OK	3	SWM 10	0.3	0.390	0.015	0.0161	
600 minute winter	SWM 10	435	6.573	0.098	0.3	0.0275	0.0000	OK	4	S2	0.6	0.470	0.081	0.0234	
600 minute winter	SWM 11	225	6.728	0.008	0.1	0.0036	0.0000	OK	5	SWM 12	0.1	0.345	0.012	0.0003	
600 minute winter	SWM 12	210	6.768	0.008	0.1	0.0026	0.0000	OK	6	SWM 9	0.1	0.348	0.013	0.0401	
600 minute winter	S2	435	6.573	0.148	0.6	2.6449	0.0000	OK	Infiltration		0.0				

Results for 30 year 720 minute summer, 360 minute analysis at 15 minute timestep. Mass balance: 100.50%															
Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
720 minute summer	SWM 7	345	6.678	0.008	0.1	0.0033	0.0000	OK	1	SWM 8	0.1	0.267	0.013	0.0019	
720 minute summer	SWM 8	345	6.601	0.011	0.2	0.0047	0.0000	OK	2	SWM 9	0.2	0.378	0.025	0.0032	
720 minute summer	SWM 9	465	6.548	0.048	0.4	0.0135	0.0000	OK	3	SWM 10	0.4	0.421	0.019	0.0094	
720 minute summer	SWM 10	465	6.548	0.068	0.4	0.0182	0.0000	OK	4	S2	0.4	0.505	0.051	0.0202	
720 minute summer	SWM 11	375	6.731	0.011	0.2	0.0051	0.0000	OK	5	SWM 12	0.2	0.421	0.023	0.0006	
720 minute summer	SWM 12	375	6.711	0.011	0.2	0.0036	0.0000	OK	6	SWM 9	0.2	0.341	0.025	0.0227	
720 minute summer	S2	465	6.548	0.118	0.4	2.2871	0.0000	OK	Infiltration		0.0				

Results for 30 year 720 minute winter, 960 minute analysis at 15 minute timestep, Mass balance: 98.65%															
Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
720 minute winter	SWM 7	345	6.678	0.008	0.1	0.0033	0.0003	OK	1	SWM 8	0.1	0.267	0.013	0.0013	
720 minute winter	SWM 8	345	6.601	0.011	0.2	0.0047	0.0003	OK	2	SWM 9	0.2	0.366	0.025	0.0182	
720 minute winter	SWM 9	510	6.587	0.087	0.7	0.0247	0.0003	OK	3	SWM 10	-0.4	0.390	-0.026	0.0181	
720 minute winter	SWM 10	510	6.587	0.107	0.3	0.0304	0.0003	SEVERE WARNING	4	S2	0.7	0.463	0.084	0.0235	
720 minute winter	SWM 11	270	6.728	0.008	0.1	0.0033	0.0003	OK	5	SWM 12	0.1	0.345	0.012	0.0032	
720 minute winter	SWM 12	255	6.708	0.008	0.1	0.0026	0.0003	OK	6	SWM 9	0.1	0.348	0.012	0.0444	
720 minute winter	S2	510	6.587	0.157	0.7	2.7510	0.0003	OK	Infiltration		0.0				

Results for 30 year 960 minute summer, 1200 minute analysis at 15 minute timestep. Mass balance: 105.00%															
Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
960 minute summer	SWM 7	480	6.678	0.008	0.1	0.0033	0.0000	OK	1	SWM 8	0.1	0.267	0.013	0.0019	
960 minute summer	SWM 8	480	6.601	0.011	0.2	0.0047	0.0000	OK	2	SWM 9	0.2	0.371	0.025	0.0057	
960 minute summer	SWM 9	600	6.533	0.033	0.3	0.0064	0.0000	OK	3	SWM 10	0.5	0.390	0.028	0.0064	
960 minute summer	SWM 10	600	6.533	0.053	0.7	0.0151	0.0000	OK	4	S2	0.3	0.470	0.038	0.0181	
960 minute summer	SWM 11	420	6.728	0.008	0.1	0.0036	0.0000	OK	5	SWM 12	0.1	0.345	0.012	0.0003	
960 minute summer	SWM 12	405	6.708	0.008	0.1	0.0026	0.0000	OK	6	SWM 9	0.1	0.348	0.013	0.0143	
960 minute summer	S2	800	6.533	0.103	0.3	2.1205	0.0000	OK	Infiltration		0.0				

Results for 30 year 960 minute winter, 1200 minute analysis at 15 minute timestep, Mass balance: 100.00%															
Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
960 minute winter	SWM 7	15	6.676	0.060	0.0	0.0000	0.0000	OK	1	SWM 8	0.0	0.000	0.000	0.0007	
960 minute winter	SWM 8	405	6.598	0.068	0.1	0.0034	0.0000	OK	2	SWM 9	0.1	0.279	0.012	0.0125	
960 minute winter	SWM 9	645	6.561	0.061	0.2	0.0172	0.0000	OK	3	SWM 10	0.2	0.347	0.010	0.0123	
960 minute winter	SWM 10	645	6.561	0.061	0.2	0.0229	0.0000	OK	4	S2	0.3	0.413	0.042	0.0219	
960 minute winter	SWM 11	390	6.728	0.068	0.1	0.0036	0.0000	OK	5	SWM 12	0.1	0.345	0.012	0.0003	
960 minute winter	SWM 12	360	6.768	0.068	0.1	0.0026	0.0000	OK	6	SWM 9	0.1	0.348	0.013	0.0005	
960 minute winter	S2	645	6.561	0.131	0.3	2.4406	0.0000	OK	Infiltration		0.0				

Results for 30 year 1440 minute summer, 1680 minute analysis at 30 minute timestep. Mass balance: 160.00%															
Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
1440 minute summer	SWM 7	30	6.670	0.000	0.0	0.0000	0.0000	OK	1	SWM 8	0.0	0.000	0.000	0.0007	
1440 minute summer	SWM 8	720	6.536	0.008	0.1	0.0034	0.0000	OK	2	SWM 9	0.1	0.271	0.012	0.0018	
1440 minute summer	SWM 9	780	6.511	0.011	0.2	0.0031	0.0000	OK	3	SWM 10	0.2	0.347	0.010	0.0017	
1440 minute summer	SWM 10	870	6.506	0.026	0.2	0.0075	0.0000	OK	4	S2	0.2	0.418	0.026	0.0121	
1440 minute summer	SWM 11	690	6.728	0.008	0.1	0.0036	0.0000	OK	5	SWM 12	0.1	0.345	0.012	0.0003	
1440 minute summer	SWM 12	840	6.708	0.008	0.1	0.0025	0.0000	OK	6	SWM 9	0.1	0.352	0.013	0.0046	
1440 minute summer	S2	870	6.507	0.077	0.2	1.8064	0.0000	OK	Infiltration		0.0				

Results for 30 year 1440 minute winter, 1680 minute analysis at 30 minute timestep. Mass balance: 100.00%															
Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
1440 minute winter	SWM 7	30	6.670	0.000	0.0	0.0000	0.0000	OK	1	SWM 8	0.0	0.000	0.000	0.0007	
1440 minute winter	SWM 8	750	6.588	0.008	0.1	0.0034	0.0000	OK	2	SWM 9	0.1	0.271	0.012	0.0019	
1440 minute winter	SWM 9	750	6.511	0.011	0.2	0.0031	0.0000	OK	3	SWM 10	0.2	0.342	0.010	0.0012	
1440 minute winter	SWM 10	800	6.501	0.021	0.2	0.0059	0.0000	OK	4	S2	0.2	0.414	0.020	0.0107	
1440 minute winter	SWM 11	720	6.728	0.008	0.1	0.0036	0.0000	OK	5	SWM 12	0.1	0.345	0.012	0.0008	
1440 minute winter	SWM 12	670	6.768	0.008	0.1	0.0026	0.0000	OK	6	SWM 9	0.1	0.352	0.013	0.0045	
1440 minute winter	S2	900	6.501	0.071	0.2	1.7408	0.0000	OK	Infiltration		0.0				

Results for 100 year +20% 15 minute summer, 255 minute analysis at 1 minute timestep, Mass balance: 100.50%															
Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	SWM 7	6	6.701	0.031	1.7	0.0124	0.0000	OK	1	SWM 8	1.6	0.511	0.205	0.0155	
15 minute summer	SWM 8	8	6.642	0.052	4.1	0.0225	0.0000	OK	2	SWM 9	3.8	0.701	0.462	0.0266	
15 minute summer	SWM 9	9	6.585	0.085	7.4	0.0240	0.0000	OK	3	SWM 10	6.9	0.723	0.334	0.0180	
15 minute summer	SWM 10	9	6.579	0.090	6.9	0.0256	0.0000	OK	4	S2	7.2	1.035	0.819	0.0297	
15 minute summer	SWM 11	8	6.773	0.053	3.4	0.0239	0.0000	OK	5	SWM 12	3.2	0.786	0.368	0.0040	
15 minute summer	SWM 12	8	6.748	0.048	4.0	0.0155	0.0000	OK	6	SWM 9	3.6	0.707	0.466	0.0627	
15 minute summer	S2	21	6.523	0.093	7.2	1.9862	0.0000	OK	Infiltration		0.0				

Results for 100 year +20% 15 minute winter, 255 minute analysis at 1 minute timestep, Mass balance: 98.46%															
Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute winter	SWM 7	8	6.697	0.027	1.3	0.0111	0.0000	OK	1	SWM 8	1.3	0.488	0.164	0.0130	
15 minute winter	SWM 8	8	6.836	0.046	3.3	0.0195	0.0000	OK	2	SWM 9	3.2	0.651	0.390	0.0241	
15 minute winter	SWM 9	9	6.576	0.076	6.3	0.0216	0.0000	OK	3	SWM 10	6.2	0.703	0.300	0.0138	
15 minute winter	SWM 10	9	6.559	0.079	6.2	0.0224	0.0000	OK	4	S2	6.3	1.017	0.799	0.0191	
15 minute winter	SWM 11	8	6.767	0.047	2.6	0.0210	0.0000	OK	5	SWM 12	2.5	0.734	0.296	0.0035	
15 minute winter	SWM 12	8	6.744	0.044	3.2	0.0143	0.0000	OK	6	SWM 9	3.1	0.655	0.402	0.0580	
15 minute winter	S2	21	6.540	0.110	6.3	2.1970	0.0000	OK	Infiltration		0.0				

Results for 100 year +20% 30 minute summer, 270 minute analysis at 1 minute timestep, Mass balance: 97.15%															
Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
30 minute summer	SWM 7	16	6.696	0.026	1.1	0.0104	0.0000	OK	1	SWM 8	1.1	0.472	0.143	0.0117	
30 minute summer	SWM 8	16	6.652	0.042	2.8	0.0180	0.0000	OK	2	SWM 9	2.8	0.628	0.346	0.0224	
30 minute summer	SWM 9	36	6.573	0.073	5.6	0.0206	0.0000	OK	3	SWM 10	5.5	0.687	0.263	0.0149	
30 minute summer	SWM 10	36	6.573	0.093	5.5	0.0263	0.0000	OK	4	S2	5.4	0.388	0.634	0.0231	
30 minute summer	SWM 11	16	6.763	0.043	2.2	0.0132	0.0000	OK	5	SWM 12	2.2	0.709	0.256	0.0091	
30 minute summer	SWM 12	16	6.741	0.041	2.8	0.0133	0.0000	OK	6	SWM 9	2.8	0.636	0.357	0.0534	
30 minute summer	S2	36	6.573	0.143	5.4	2.5810	0.0000	OK	Infiltration		0.0				

Results for 100 year +20% 30 minute winter, 270 minute analysis at 1 minute timestep. Mass balance: 96.57%															
Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
30 minute winter	SWM 7	16	6.683	0.023	0.9	0.0094	0.0000	OK	1	SWM 8	0.9	0.458	0.117	0.0099	
30 minute winter	SWM 8	16	6.627	0.037	2.2	0.0157	0.0000	OK	2	SWM 9	2.2	0.592	0.271	0.0202	
30 minute winter	SWM 9	36	6.584	0.094	4.4	0.0266	0.0000	OK	3	SWM 10	4.4	0.863	0.213	0.0195	
30 minute winter	SWM 10	34	6.594	0.114	4.4	0.0323	0.0000	SURFICKERGED	4	S2	4.3	0.945	0.555	0.0235	
30 minute winter	SWM 11	16	6.756	0.036	1.8	0.0170	0.0000	OK	5	SWM 12	1.8	0.684	0.210	0.0026	
30 minute winter	SWM 12	16	6.736	0.026	2.2	0.0117	0.0000	OK	6	SWM 9	2.2	0.593	0.281	0.0487	
30 minute winter	S2	34	6.594	0.164	4.3	2.6285	0.0000	OK	Infiltration		0.0				

Results for 100 year +20% 60 minute summer, 360 minute analysis at 1 minute timestep. Mass balance: 95.98%															
Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
60 minute summer	SWM 7	31	6.692	0.022	0.8	0.0088	0.0000	OK	1	SWM 8	0.8	0.450	0.104	0.0090	
60 minute summer	SWM 8	31	6.624	0.034	1.9	0.0145	0.0000	OK	2	SWM 9	1.9	0.580	0.234	0.0238	
60 minute summer	SWM 9	65	6.616	0.116	3.8	0.0328	0.0000	OK	3	SWM 10	3.7	0.648	0.182	0.0235	
60 minute summer	SWM 10	63	6.615	0.135	3.7	0.0385	0.0000	FLOOD - FLOOD	4	S2	3.7	0.690	0.470	0.0235	
60 minute summer	SWM 11	31	6.754	0.034	1.5	0.0153	0.0000	OK	5	SWM 12	1.5	0.648	0.175	0.0023	
60 minute summer	SWM 12	31	6.734	0.034	1.9	0.0108	0.0000	OK	6	SWM 3	1.9	0.573	0.242	0.0500	
60 minute summer	S2	64	6.615	0.185	3.7	3.0847	0.0000	OK	Infiltration		0.0				

Results for 100 year +20% 60 minute winter, 360 minute analysis at 1 minute timestep. Mass balance: 94.55%															
Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
60 minute winter	SWM 7	32	6.689	0.019	0.6	0.0077	0.0000	OK	1	SWM 8	0.6	0.423	0.076	0.0131	
60 minute winter	SWM 8	62	6.652	0.062	1.5	0.0266	0.0000	OK	2	SWM 9	1.5	0.552	0.184	0.0323	
60 minute winter	SWM 9	81	6.652	0.152	2.9	0.0431	0.0000	FLOOD RISK	3	SWM 10	2.9	0.822	0.142	0.0364	
60 minute winter	SWM 10	63	6.652	0.172	2.9	0.0456	0.0000	FLOOD RISK	4	S2	2.9	0.834	0.375	0.0235	
60 minute winter	SWM 11	32	6.748	0.028	1.1	0.0128	0.0000	OK	5	SWM 12	1.1	0.598	0.128	0.0018	
60 minute winter	SWM 12	30	6.729	0.029	1.4	0.0093	0.0000	OK	6	SWM 9	1.4	0.540	0.179	0.0542	
60 minute winter	S2	82	6.652	0.222	2.9	3.5024	0.0000	OK	Infiltration		0.0				

Results for 100 year +20% 120 minute summer, 360 minute analysis at 2 minute timestep, Mass balance: 94.25%															
Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
120 minute summer	SWM 7	62	6.687	0.017	0.5	0.0070	0.0000	OK	1	SWM 8	0.5	0.401	0.065	0.0158	
120 minute summer	SWM 8	128	6.665	0.075	1.2	0.0322	0.0000	OK	2	SWM 9	1.2	0.538	0.148	0.0353	
120 minute summer	SWM 9	124	6.686	0.166	2.3	0.0469	0.0000	FLOOD FUSE	3	SWM 10	2.2	0.640	0.167	0.0264	
120 minute summer	SWM 10	124	6.686	0.186	2.2	0.0525	0.0000	FLOOD FUSE	4	S2	2.2	0.721	0.279	0.0235	
120 minute summer	SWM 11	62	6.745	0.025	0.9	0.0113	0.0000	OK	5	SWM 12	0.9	0.579	0.105	0.0016	
120 minute summer	SWM 12	62	6.725	0.025	1.1	0.0082	0.0000	OK	6	SWM 9	1.1	0.504	0.141	0.0525	
120 minute summer	S2	124	6.665	0.235	2.2	3.6593	0.0000	OK	Infiltration		0.0				

Results for 100 year +20% 120 minute winter. 360 minute analysis at 2 minute timestep. Mass balance: 93.23%															
Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
120 minute winter	SWM 7	120	6.636	0.026	0.4	0.0114	0.0000	OK	1	SWM 8	0.4	0.386	0.052	0.0241	
120 minute winter	SWM 8	120	6.698	0.108	0.9	0.0465	0.0000	OK	2	SWM 9	0.9	0.479	0.111	0.0331	
120 minute winter	SWM 9	122	6.699	0.199	1.8	0.0562	0.0000	OK	3	SWM 10	1.7	0.605	0.085	0.0264	
120 minute winter	SWM 10	124	6.698	0.218	1.7	0.0618	0.0000	OK	4	S2	1.6	0.690	0.210	0.0235	
120 minute winter	SWM 11	62	6.742	0.022	0.7	0.0039	0.0000	OK	5	SWM 12	0.7	0.534	0.082	0.0012	
120 minute winter	SWM 12	62	6.723	0.023	0.8	0.0074	0.0000	OK	6	SWM 9	0.9	0.501	0.115	0.0533	
120 minute winter	S2	122	6.698	0.298	1.6	4.0458	0.0000	OK	Infiltration		0.0				

Results for 100 year +20% 180 minute summer. 420 minute analysis at 4 minute timestep. Mass balance: 93.53%															
Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
180 minute summer	SWM 7	184	6.691	0.021	0.4	0.0085	0.0000	OK	1	SWM 8	0.4	0.383	0.051	0.0028	
180 minute summer	SWM 8	188	6.691	0.101	0.9	0.0434	0.0000	UNFLOODED	2	SWM 9	0.9	0.484	0.109	0.0391	
180 minute summer	SWM 9	184	6.691	0.191	1.8	0.0540	0.0000	FLOOD FREE	3	SWM 10	1.7	0.596	0.083	0.0264	
180 minute summer	SWM 10	184	6.691	0.211	1.7	0.0597	0.0000	FLOOD FREE	4	S2	1.5	0.624	0.195	0.0335	
180 minute summer	SWM 11	92	6.742	0.022	0.7	0.0096	0.0000	OK	5	SWM 12	0.7	0.533	0.081	0.0013	
180 minute summer	SWM 12	92	6.723	0.023	0.8	0.0073	0.0000	OK	6	SWM 9	0.9	0.471	0.113	0.0525	
180 minute summer	S2	184	6.691	0.251	1.5	3.9511	0.0000	OK	Infiltration		0.0				

Results for 100 year +20% 180 minute winter: 420 minute analysis at 4 minute timestep. Mass balance: 92.46%															
Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
180 minute winter	SWM 7	176	6.724	0.054	0.3	0.0217	0.0000	OK	1	SWM 8	0.3	0.350	0.038	0.0303	
180 minute winter	SWM 8	180	6.724	0.134	0.7	0.0573	0.0000	FLOOD FREE	2	SWM 9	0.7	0.437	0.088	0.0391	
180 minute winter	SWM 9	180	6.724	0.224	1.3	0.0833	0.0000	FLOOD FREE	3	SWM 10	1.2	0.534	0.080	0.0264	
180 minute winter	SWM 10	180	6.724	0.244	1.2	0.0680	0.0000	FLOOD FREE	4	S2	1.2	0.624	0.149	0.0235	
180 minute winter	SWM 11	92	6.738	0.018	0.5	0.0062	0.0000	OK	5	SWM 12	0.5	0.503	0.058	0.0010	
180 minute winter	SWM 12	180	6.724	0.024	0.6	0.0077	0.0000	OK	6	SWM 9	0.6	0.427	0.077	0.0554	
180 minute winter	S2	180	6.724	0.294	1.2	4.3435	0.0000	OK	Infiltration		0.0				

Results for 100 year +20% 240 minute summer. 480 minute analysis at 4 minute timestep. Mass balance: 93.55%															
Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
240 minute summer	SWM 7	236	6.697	0.027	0.3	0.0108	0.0000	OK	1	SWM 8	0.3	0.350	0.039	0.0238	
240 minute summer	SWM 8	236	6.697	0.107	0.7	0.0458	0.0000	UNDERFLOWED	2	SWM 9	0.7	0.447	0.086	0.0391	
240 minute summer	SWM 9	236	6.697	0.197	1.4	0.0557	0.0000	FLOOD FREE	3	SWM 10	1.4	0.556	0.068	0.0264	
240 minute summer	SWM 10	236	6.697	0.217	1.4	0.0615	0.0000	FLOOD FREE	4	S2	1.2	0.609	0.159	0.0235	
240 minute summer	SWM 11	124	6.740	0.020	0.6	0.0090	0.0000	OK	5	SWM 12	0.6	0.534	0.070	0.0011	
240 minute summer	SWM 12	124	6.720	0.020	0.7	0.0065	0.0000	OK	6	SWM 9	0.7	0.437	0.089	0.0523	
240 minute summer	S2	240	6.697	0.267	1.2	4.0285	0.0000	OK	Infiltration		0.0				

Results for 100 year +20% 240 minute winter: 480 minute analysis at 4 minute timestep. Mass balance: 91.86%															
Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
240 minute winter	SWM 7	228	6.741	0.071	0.2	0.0288	0.0000	OK	1	SWM 8	0.3	0.321	0.035	0.0348	
240 minute winter	SWM 8	232	6.741	0.151	0.5	0.0649	0.0000	FLOOD FREE	2	SWM 9	0.5	0.442	0.061	0.0391	
240 minute winter	SWM 9	232	6.742	0.242	1.0	0.0884	0.0000	FLOOD FREE	3	SWM 10	1.8	0.519	0.088	0.0264	
240 minute winter	SWM 10	228	6.741	0.281	1.8	0.0740	0.0000	FLOOD FREE	4	S2	1.0	0.572	0.124	0.0235	
240 minute winter	SWM 11	228	6.742	0.022	0.4	0.0098	0.0000	OK	5	SWM 12	0.4	0.468	0.047	0.0021	
240 minute winter	SWM 12	232	6.742	0.042	0.5	0.0134	0.0000	OK	6	SWM 9	0.5	0.418	0.064	0.0054	
240 minute winter	S2	232	6.741	0.311	1.0	4.5507	0.0000	OK	Infiltration		0.0				

Results for 100 year +20% 360 minute summer. 10080 minute analysis at 8 minute timestep. Mass balance: 100.00%															
Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
360 minute summer	SWM 7	184	6.681	0.011	0.2	0.0045	0.0000	OK	1	SWM 8	0.2	0.300	0.026	0.0178	
360 minute summer	SWM 8	296	6.674	0.084	0.5	0.0360	0.0000	OK	2	SWM 9	0.5	0.421	0.061	0.0371	
360 minute summer	SWM 9	296	6.674	0.174	1.0	0.0493	0.0000	FLOOD FREE	3	SWM 10	1.5	0.580	0.072	0.0264	
360 minute summer	SWM 10	296	6.674	0.194	1.5	0.0550	0.0000	FLOOD FREE	4	S2	1.1	0.562	0.145	0.0235	
360 minute summer	SWM 11	184	6.736	0.016	0.4	0.0073	0.0000	OK	5	SWM 12	0.4	0.468	0.047	0.0039	
360 minute summer	SWM 12	184	6.717	0.017	0.5	0.0056	0.0000	OK	6	SWM 9	0.5	0.420	0.064	0.0508	
360 minute summer	S2	296	6.674	0.244	1.1	3.7633	0.0000	OK	Infiltration		0.0				

Results for 100 year +20% 360 minute winter. 10000 minute analysis at 8 minute timestep. Mass balance: 100.00%															
Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
360 minute winter	SWM 7	344	6.747	0.077	0.2	0.0311	0.0000	OK	1	SWM 8	0.2	0.326	0.025	0.0357	
360 minute winter	SWM 8	344	6.747	0.157	0.4	0.0673	0.0000	FLOOD FREE	2	SWM 9	0.4	0.371	0.048	0.0391	
360 minute winter	SWM 9	344	6.747	0.247	0.8	0.0898	0.0000	FLOOD FREE	3	SWM 10	1.1	0.463	0.054	0.0264	
360 minute winter	SWM 10	344	6.747	0.287	1.1	0.0735	0.0000	FLOOD FREE	4	S2	0.6	0.510	0.081	0.0235	
360 minute winter	SWM 11	336	6.747	0.027	0.3	0.0122	0.0000	OK	5	SWM 12	0.3	0.424	0.035	0.0026	
360 minute winter	SWM 12	344	6.746	0.046	0.4	0.0150	0.0000	OK	6	SWM 9	0.4	0.410	0.051	0.0083	
360 minute winter	S2	344	6.747	0.317	0.6	4.6134	0.0000	OK	Infiltration		0.0				

Results for 100 year +20% 480 minute summer. 720 minute analysis at 8 minute timestep. Mass balance: 94.67%															
Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
480 minute summer	SWM 7	243	6.681	0.011	0.2	0.0045	0.0000	OK	1	SWM 8	0.2	0.330	0.026	0.0182	
480 minute summer	SWM 8	360	6.679	0.009	0.4	0.0081	0.0000	OK	2	SWM 9	0.4	0.364	0.049	0.0379	
480 minute summer	SWM 9	360	6.679	0.179	0.9	0.0506	0.0000	FLOOD FUSE	3	SWM 10	0.9	0.486	0.042	0.0264	
480 minute summer	SWM 10	360	6.679	0.199	0.9	0.0563	0.0000	FLOOD FUSE	4	S2	0.9	0.562	0.119	0.0235	
480 minute summer	SWM 11	240	6.734	0.014	0.3	0.0062	0.0000	OK	5	SWM 12	0.3	0.424	0.035	0.0037	
480 minute summer	SWM 12	240	6.715	0.015	0.4	0.0050	0.0000	OK	6	SWM 9	0.4	0.414	0.051	0.0507	
480 minute summer	S2	360	6.679	0.249	0.9	3.8183	0.0000	OK	Infiltration		0.0				

Results for 100 year +20% 480 minute winter- 720 minute analysis at 8 minute timestep. Mass balance: 93.04%															
Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
480 minute winter	SWM 7	384	6.729	0.053	0.1	0.0233	0.0000	OK	1	SWM 8	0.1	0.267	0.013	0.0318	
480 minute winter	SWM 8	384	6.729	0.139	0.3	0.0598	0.0000	FLOOD FREE	2	SWM 9	0.4	0.371	0.045	0.0391	
480 minute winter	SWM 9	384	6.730	0.230	0.8	0.0850	0.0000	FLOOD FREE	3	SWM 10	1.1	0.469	0.053	0.0264	
480 minute winter	SWM 10	384	6.729	0.249	1.1	0.0708	0.0000	FLOOD FREE	4	S2	1.5	0.510	0.181	0.0235	
480 minute winter	SWM 11	192	6.731	0.011	0.2	0.0051	0.0000	OK	5	SWM 12	0.2	0.422	0.023	0.0012	
480 minute winter	SWM 12	384	6.730	0.030	0.3	0.0086	0.0000	OK	6	SWM 9	0.3	0.390	0.038	0.0586	
480 minute winter	S2	384	6.729	0.298	1.5	4.4087	0.0000	OK	Infiltration		0.0				

Results for 100 year +20% 600 minute summer, 840 minute analysis at 15 minute timestep, Mass balance: 94.58%															
Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
600 minute summer	SWM 7	435	6.681	0.011	0.1	0.0042	0.0000	OK	1	SWM 8	0.1	0.287	0.013	0.0187	
600 minute summer	SWM 8	435	6.681	0.081	0.3	0.0089	0.0000	OK	2	SWM 9	0.3	0.371	0.027	0.0382	
600 minute summer	SWM 9	435	6.681	0.181	0.7	0.0512	0.0000	FLOOD FREE	3	SWM 10	0.8	0.467	0.037	0.0264	
600 minute summer	SWM 10	435	6.681	0.201	0.8	0.0568	0.0000	FLOOD FREE	4	S2	0.6	0.506	0.075	0.0235	
600 minute summer	SWM 11	315	6.734	0.014	0.3	0.0062	0.0000	OK	5	SWM 12	0.3	0.424	0.035	0.0037	
600 minute summer	SWM 12	315	6.715	0.015	0.4	0.0050	0.0000	OK	6	SWM 9	0.4	0.415	0.051	0.0488	
600 minute summer	S2	435	6.681	0.251	0.6	3.8408	0.0000	OK	Infiltration		0.0				

Results for 100 year +20% 600 minute winter: 640 minute analysis at 15 minute timestep. Mass balance: 93.61%															
Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
600 minute winter	SWM 7	465	6.722	0.052	0.1	0.0208	0.0000	OK	1	SWM 8	0.1	0.267	0.014	0.0207	
600 minute winter	SWM 8	465	6.722	0.132	0.3	0.0565	0.0000	FLOOD FREE	2	SWM 9	0.3	0.371	0.037	0.0391	
600 minute winter	SWM 9	465	6.722	0.222	0.6	0.0828	0.0000	FLOOD FREE	3	SWM 10	0.8	0.421	0.040	0.0264	
600 minute winter	SWM 10	465	6.722	0.242	0.8	0.0684	0.0000	FLOOD FREE	4	S2	0.5	0.470	0.068	0.0235	
600 minute winter	SWM 11	270	6.731	0.011	0.2	0.0051	0.0000	OK	5	SWM 12	0.2	0.421	0.023	0.0007	
600 minute winter	SWM 12	465	6.721	0.021	0.3	0.0063	0.0000	OK	6	SWM 9	0.3	0.341	0.038	0.0543	
600 minute winter	S2	465	6.722	0.292	0.5	4.3200	0.0000	OK	Infiltration		0.0				

Results for 100 year +20% 720 minute summer, 960 minute analysis at 15 minute timestep, Mass balance: 98.50%															
Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
720 minute summer	SWM 7	315	6.678	0.008	0.1	0.0033	0.0000	OK	1	SWM 8	0.1	0.287	0.013	0.0141	
720 minute summer	SWM 8	495	6.658	0.068	0.3	0.0230	0.0000	OK	2	SWM 9	0.3	0.371	0.037	0.0337	
720 minute summer	SWM 9	495	6.658	0.158	0.7	0.0447	0.0000	FLOOD FUSE	3	SWM 10	0.6	0.421	0.026	0.0264	
720 minute summer	SWM 10	495	6.658	0.178	0.6	0.0504	0.0000	FLOOD FUSE	4	S2	0.6	0.506	0.097	0.0235	
720 minute summer	SWM 11	345	6.731	0.011	0.2	0.0051	0.0000	OK	5	SWM 12	0.2	0.421	0.023	0.0006	
720 minute summer	SWM 12	375	6.713	0.013	0.2	0.0043	0.0000	OK	6	SWM 9	0.3	0.363	0.036	0.0458	
720 minute summer	S2	495	6.688	0.228	0.8	3.5756	0.0000	OK	Infiltration		0.0				

Results for 100 year +20% 720 minute winter: 960 minute analysis at 15 minute timestep. Mass balance: 94.44%															
Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
720 minute winter	SWM 7	540	6.705	0.035	0.1	0.0140	0.0000	OK	1	SWM 8	0.1	0.267	0.013	0.0258	
720 minute winter	SWM 8	540	6.705	0.115	0.2	0.0493	0.0000	FLOOD FREE	2	SWM 9	0.4	0.371	0.045	0.0391	
720 minute winter	SWM 9	540	6.705	0.205	0.8	0.0578	0.0000	FLOOD FREE	3	SWM 10	0.5	0.418	0.024	0.0264	
720 minute winter	SWM 10	540	6.704	0.224	0.5	0.0635	0.0000	FLOOD FREE	4	S2	0.7	0.470	0.082	0.0235	
720 minute winter	SWM 11	345	6.791	0.011	0.2	0.0051	0.0000	OK	5	SWM 12	0.2	0.421	0.023	0.0005	
720 minute winter	SWM 12	345	6.711	0.011	0.2	0.0036	0.0000	OK	6	SWM 9	0.2	0.348	0.026	0.0495	
720 minute winter	S2	540	6.704	0.274	0.7	4.1180	0.0000	OK	Infiltration		0.0				

Results for 100 year +20% 960 minute summer. 1200 minute analysis at 15 minute timestep. Mass balance: 97.06%															
Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
960 minute summer	SWM 7	435	6.678	0.008	0.1	0.0033	0.0000	OK	1	SWM 8	0.1	0.287	0.013	0.0107	
960 minute summer	SWM 8	630	6.644	0.054	0.2	0.0230	0.0000	OK	2	SWM 9	0.2	0.371	0.025	0.0302	
960 minute summer	SWM 9	630	6.644	0.144	0.5	0.0408	0.0000	OK	3	SWM 10	0.5	0.418	0.029	0.0262	
960 minute summer	SWM 10	630	6.644	0.164	0.6	0.0464	0.0000	FLOOD RISK	4	S2	0.6	0.470	0.064	0.0235	
960 minute summer	SWM 11	480	6.731	0.011	0.2	0.0051	0.0000	OK	5	SWM 12	0.2	0.421	0.023	0.0036	
960 minute summer	SWM 12	480	6.711	0.011	0.2	0.0036	0.0000	OK	6	SWM 9	0.2	0.341	0.026	0.0487	
960 minute summer	S2	630	6.644	0.214	0.5	3.4670	0.0000	OK	Infiltration		0.0				

Results for 100 year +20% 960 minute winter. 1200 minute analysis at 15 minute timestep. Mass balance: 94.86%															
Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
960 minute winter	SWM 7	690	6.709	0.039	0.1	0.0157	0.0000	OK	1	SWM 8	0.1	0.267	0.013	0.0268	
960 minute winter	SWM 8	690	6.709	0.119	0.2	0.0511	0.0000	FLOOD FREE	2	SWM 9	0.2	0.386	0.028	0.0391	
960 minute winter	SWM 9	690	6.709	0.209	0.7	0.0592	0.0000	FLOOD FREE	3	SWM 10	0.6	0.380	0.030	0.0264	
960 minute winter	SWM 10	690	6.709	0.229	0.6	0.0648	0.0000	FLOOD FREE	4	S2	0.7	0.483	0.034	0.0235	
960 minute winter	SWM 11	330	6.728	0.008	0.1	0.0036	0.0000	OK	5	SWM 12	0.1	0.345	0.012	0.0003	
960 minute winter	SWM 12	690	6.709	0.009	0.1	0.0029	0.0000	OK	6	SWM 9	0.1	0.348	0.013	0.0490	
960 minute winter	S2	690	6.709	0.278	0.7	4.1713	0.0000	OK	Infiltration		0.0				

Results for 100 year +20% 1440 minute summer, 1680 minute analysis at 30 minute timestep. Mass balance: 98.01%															
Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
1440 minute summer	SWM 7	720	6.678	0.008	0.1	0.0033	0.0000	OK	1	SWM 8	0.1	0.267	0.013	0.0086	
1440 minute summer	SWM 8	930	6.635	0.045	0.2	0.0192	0.0000	OK	2	SWM 9	0.2	0.371	0.025	0.0291	
1440 minute summer	SWM 9	930	6.636	0.136	0.4	0.0364	0.0000	OK	3	SWM 10	0.3	0.390	0.015	0.0258	
1440 minute summer	SWM 10	930	6.635	0.155	0.3	0.0440	0.0000	FLOOD - FREE	4	S2	0.3	0.418	0.040	0.0236	
1440 minute summer	SWM 11	630	6.726	0.008	0.1	0.0036	0.0000	OK	5	SWM 12	0.1	0.345	0.012	0.0003	
1440 minute summer	SWM 12	600	6.708	0.008	0.1	0.0028	0.0000	OK	6	SWM 3	0.1	0.348	0.013	0.0487	
1440 minute summer	S2	930	6.635	0.205	0.3	3.3095	0.0000	OK	Infiltration		0.0				

Results for 100 year +20% 1440 minute winter. 1800 minute analysis at 30 minute timestep. Mass balance: 95.78%															
Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
1440 minute winter	SWM 7	990	6.711	0.041	0.1	0.0165	0.0000	OK	1	SWM 8	0.1	0.267	0.013	0.0271	
1440 minute winter	SWM 8	990	6.711	0.121	0.2	0.0519	0.0000	FLOOD PEAK	2	SWM 9	0.2	0.352	0.025	0.0331	
1440 minute winter	SWM 9	990	6.711	0.211	0.3	0.0596	0.0000	FLOOD PEAK	3	SWM 10	0.6	0.347	0.027	0.0264	
1440 minute winter	SWM 10	990	6.711	0.231	0.6	0.0853	0.0000	FLOOD PEAK	4	S2	0.6	0.418	0.108	0.0235	
1440 minute winter	SWM 11	570	6.728	0.008	0.1	0.0036	0.0000	OK	5	SWM 12	0.1	0.345	0.012	0.0003	
1440 minute winter	SWM 12	990	6.710	0.010	0.1	0.0032	0.0000	OK	6	SWM 9	0.1	0.348	0.012	0.0485	
1440 minute winter	S2	990	6.711	0.251	0.8	4.1806	0.0000	OK	Infiltration		0.0				