

C&W Cooper & Withycombe CONSULTING ENGINEERS	SHEET NO. F1 OF	
	Holiday Cottages Longacre, Maypole Lane Yapton.BN18 0DR .Front drainage	Job No. 17 -1779 Prepared By BL Date Jan 2018
Surface Water Drain Design		

Drainage Design Report

Flow

v4.0

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Network Storm Network
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Rainfall Methodology	FSR
Return Period (years)	100
Additional Flow (%)	30
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	0.600	Colebrook-White	6.560	6.510	0.050	160.0	100	Circular	1.22	50.0		
✓	2	SWM 2	SWM 3	1.000	0.600	Colebrook-White	6.510	6.480	0.030	33.3	150	Circular	1.23	50.0		
✓	3	SWM 3	S1	1.000	0.600	Colebrook-White	6.480	6.450	0.030	33.3	150	Circular	1.24	50.0		
✓	4	SWM 4	SWM 2	4.000	0.600	Colebrook-White	6.590	6.510	0.080	50.0	100	Circular	1.06	50.0		
?	5	SWM 5	SWM 6	5.500	0.600	Colebrook-White	6.700	6.590	0.110	50.0	100	Circular	1.08	50.0		
?	6	SWM 6	SWM 2	5.000	0.600	Colebrook-White	6.590	6.510	0.080	62.5	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	0.605	4.8	0.5	0.240	0.290	0.003	0.0	22	0.393	Velocity is less than the specified minimum
✓	2	SWM 2	SWM 3	1.749	30.9	1.8	0.240	0.270	0.010	0.0	24	0.950	
✓	3	SWM 3	S1	1.749	30.9	1.8	0.270	0.300	0.010	0.0	24	0.950	
✓	4	SWM 4	SWM 2	1.092	8.6	0.7	0.210	0.290	0.004	0.0	19	0.650	
?	5	SWM 5	SWM 6	1.092	8.6	0.4	0.100	0.210	0.002	0.0	14	0.525	Upstream Depth is less than the specified minimum
?	6	SWM 6	SWM 2	0.976	7.7	0.5	0.210	0.290	0.003	0.0	18	0.550	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	160.0	100	Circular	6.900	6.560	0.240	6.900	6.510	0.290	SWM 1	600		Manhole	Adoptable	SWM 2	600		Manhole	Adoptable
2	1.000	33.3	150	Circular	6.900	6.510	0.240	6.900	6.480	0.270	SWM 2	600		Manhole	Adoptable	SWM 3	600		Manhole	Adoptable
3	1.000	33.3	150	Circular	6.900	6.480	0.270	6.900	6.450	0.300	SWM 3	600		Manhole	Adoptable	S1	600		Manhole	Adoptable
4	4.000	50.0	100	Circular	6.900	6.590	0.210	6.900	6.510	0.290	SWM 4	600		Manhole	Adoptable	SWM 2	600		Manhole	Adoptable
5	5.500	50.0	100	Circular	6.900	6.700	0.100	6.900	6.590	0.210	SWM 5	600		Manhole	Adoptable	SWM 6	600		Manhole	Adoptable
6	5.000	62.5	100	Circular	6.900	6.590	0.210	6.900	6.510	0.290	SWM 6	600		Manhole	Adoptable	SWM 2	600		Manhole	Adoptable

Node ID	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Width (mm)	Node Type	MH Type	Connections		Link ID	IL (m)	Dia (mm)	Link Type
SWM 1			6.900	0.340	600		Manhole	Adoptable						
										0	1	6.560	100	Circular
SWM 2			6.900	0.390	600		Manhole	Adoptable		1	6	6.510	100	Circular
										2	4	6.510	100	Circular
										3	1	6.510	100	Circular
										0	2	6.510	150	Circular
SWM 3			6.900	0.420	600		Manhole	Adoptable		1	2	6.480	150	Circular
										0	3	6.480	150	Circular
SWM 4			6.900	0.310	600		Manhole	Adoptable						
										0	4	6.590	100	Circular
SWM 5			6.900	0.200	600		Manhole	Adoptable						
										0	5	6.700	100	Circular
SWM 6			6.900	0.310	600		Manhole	Adoptable		1	5	6.590	100	Circular
										0	6	6.590	100	Circular
S1			6.900	0.450	600		Manhole	Adoptable		1	3	6.450	150	Circular

Rainfall Methodology	FSR		Return Period (years)	Climate Change (%)
FSR Region	England and Wales		100	30
M5-60 (mm)	20.000			
Ratio-R	0.360			
Summer CV	0.750			
Winter CV	0.840			
Analysis Speed	Normal			
Drain Down Time (mins)	1440			
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)	✓			
1 year (l/s)				
30 year (l/s)				
100 year (l/s)				
Check Discharge Volume	✓			
100 year 360 minute (m³)				

Methodology	IH124
Positively Drained Area (ha)	
SAAR (mm)	
Soil Index	1
SPR	0.10
Region	1
Growth Factor 1 year	0.85
Growth Factor 30 years	1.95
Growth Factor 100 years	2.48
QBar	
Q 1 year (l/s)	
Q 30 year (l/s)	
Q 100 year (l/s)	

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	1504	4.000	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	x

100 year 360 minute (m³)	
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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					

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Results for 1 year Critical Storm Duration. Lowest mass balance: 95.29%															
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	6.539	0.029	1.8	0.0082	0.0000	OK	2	SWM 3	1.8	0.769	0.058	0.0024	
15 minute summer	SWM 3	9	6.509	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	0.096	0.0059	
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	0.0059	0.0000	OK	6	SWM 2	0.5	0.365	0.063	0.0069	
240 minute winter	S1	172	6.418	-0.032	0.3	1.0363	0.0000	OK	Infiltration		0.0				

Results for 30 year Critical Storm Duration. Lowest mass balance: 95.29%															
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	0.049	4.8	0.0138	0.0000	OK	2	SWM 3	4.3	0.909	0.140	0.0049	
240 minute winter	SWM 3	196	6.541	0.061	1.3	0.0172	0.0000	OK	3	S1	1.0	0.669	0.031	0.0089	
15 minute summer	SWM 4	8	6.625	0.035	2.2	0.0191	0.0000	OK	4	SWM 2	2.0	0.655	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	
240 minute winter	S1	196	6.540	0.090	1.0	2.9207	0.0000	OK	Infiltration		0.0				

Results for 100 year +30% Critical Storm Duration. Lowest mass balance: 95.29%															
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	392	6.683	0.123	0.2	0.0563	0.0000	FLOOD RISK	1	SWM 2	0.2	0.274	0.043	0.0626	
480 minute winter	SWM 2	392	6.684	0.174	2.2	0.0493	0.0000	FLOOD RISK	2	SWM 3	3.2	0.640	0.103	0.0176	
480 minute winter	SWM 3	384	6.685	0.205	4.3	0.0579	0.0000	FLOOD RISK	3	S1	2.8	0.640	0.091	0.0176	
480 minute winter	SWM 4	392	6.683	0.093	0.3	0.0502	0.0000	OK	4	SWM 2	0.3	0.414	0.037	0.0308	
15 minute summer	SWM 5	8	6.731	0.031	1.8	0.0149	0.0000	OK	5	SWM 6	1.7	0.699	0.195	0.0132	
480 minute winter	SWM 6	392	6.683	0.093	0.2	0.0322	0.0000	OK	6	SWM 2	0.2	0.316	0.029	0.0385	
480 minute winter	S1	392	6.683	0.233	2.8	5.1209	0.0000	OK	Infiltration		0.0				

Results for 1 year 15 minute summer. 1455 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	6.539	0.029	1.8	0.0082	0.0000	OK	2	SWM 3	1.8	0.769	0.058	0.0024	
15 minute summer	SWM 3	9	6.509	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	0.096	0.0059	
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	0.0059	0.0000	OK	6	SWM 2	0.5	0.365	0.063	0.0069	
15 minute summer	S1	23	6.384	-0.066	1.8	0.5166	0.0000	OK	Infiltration		0.0				

Results for 1 year 15 minute winter. 1455 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	6.581	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	6.537	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	8	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	0.0039	
15 minute winter	SWM 6	8	6.606	0.016	0.5	0.0057	0.0000	OK	6	SWM 2	0.4	0.369	0.058	0.0062	
15 minute winter	S1	23	6.388	-0.062	1.6	0.5714	0.0000	OK	Infiltration		0.0				

Results for 1 year 30 minute summer. 1470 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	0.786	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	0.0049	
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	6.394	-0.056	1.3	0.6636	0.0000	OK	Infiltration		0.0				

Results for 1 year 30 minute winter. 1470 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	6.532	0.022	1.1	0.0062	0.0000	OK	2	SWM 3	1.1	0.689	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	0.749	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	0.484	0.058	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	18	6.604	0.014	0.3	0.0047	0.0000	OK	6	SWM 2	0.3	0.356	0.039	0.0047	
30 minute winter	S1	35	6.399	-0.051	1.1	0.7464	0.0000	OK	Infiltration		0.0				

Results for 1 year 60 minute summer. 1500 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	0.0078	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	0.0059	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	0.483	0.023	0.0030	
60 minute summer	SWM 6	33	6.604	0.014	0.3	0.0047	0.0000	OK	6	SWM 2	0.3	0.348	0.039	0.0045	
60 minute summer	S1	52	6.400	-0.050	1.0	0.7548	0.0000	OK	Infiltration		0.0				

Results for 1 year 60 minute winter. 1500 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	0.0064	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	6.498	0.018	0.8	0.0052	0.0000	OK	3	S1	0.8	0.686	0.025	0.0011	
60 minute winter	SWM 4	32	6.603	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	0.013	0.3	0.0045	0.0000	OK	6	SWM 2	0.3	0.358	0.036	0.0039	
60 minute winter	S1	59	6.410	-0.040	0.8	0.9164	0.0000	OK	Infiltration		0.0				

Results for 1 year 120 minute summer. 1560 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 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	0.0049	0.0000	OK	3	S1	0.7	0.669	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	0.0039	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	0.307	0.026	0.0034	
120 minute summer	S1	88	6.401	-0.049	0.7	0.7809	0.0000	OK	Infiltration		0.0				

Results for 1 year 120 minute winter. 1560 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	6.570	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	0.548	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	0.0039	0.0000	OK	5	SWM 6	0.1	0.420	0.012	0.0016	
120 minute winter	SWM 6	50	6.598	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	6.410	-0.040	0.4	0.9050	0.0000	OK	Infiltration		0.0				

Results for 1 year 180 minute summer. 1620 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 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	0.592	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	0.0009	
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	0.0030	
180 minute summer	S1	124	6.402	-0.048	0.5	0.7961	0.0000	OK	Infiltration		0.0				

Results for 1 year 180 minute winter. 1620 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	6.570	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	0.529	0.010	0.0006	
180 minute winter	SWM 4	60	6.598	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 6	0.1	0.452	0.012	0.0016	
180 minute winter	SWM 6	80	6.598	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	6.411	-0.039	0.3	0.9345	0.0000	OK	Infiltration		0.0				

Results for 1 year 240 minute summer. 1680 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 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	0.262	0.013	0.0022	
240 minute summer	S1	160	6.405	-0.045	0.4	0.8319	0.0000	OK	Infiltration		0.0				

Results for 1 year 240 minute winter. 1680 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	6.570	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	0.529	0.010	0.0006	
240 minute winter	SWM 4	84	6.598	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 6	0.1	0.452	0.012	0.0016	
240 minute winter	SWM 6	112	6.598	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	6.418	-0.032	0.3	1.0363	0.0000	OK	Infiltration		0.0				

Results for 1 year 360 minute summer. 1800 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 1	168	6.570	0.010	0.1	0.0047	0.0000	OK	1	SWM 2	0.1	0.258	0.021	0.0035	
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	216	6.598	0.008	0.1	0.0042	0.0000	OK	4	SWM 2	0.1	0.393	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	0.365	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	0.262	0.013	0.0019	
360 minute summer	S1	224	6.404	-0.046	0.3	0.8232	0.0000	OK	Infiltration		0.0				

Results for 1 year 360 minute winter. 1800 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 1	168	6.570	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	0.0026	0.0000	OK	2	SWM 3	0.2	0.456	0.006	0.0004	
360 minute winter	SWM 3	168	6.489	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	6.598	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 6	0.0	0.000	0.000	0.0000	
360 minute winter	SWM 6	8	6.590	0.000	0.0	0.0000	0.0000	OK	6	SWM 2	0.0	0.000	0.000	0.0009	
360 minute winter	S1	240	6.411	-0.039	0.2	0.9280	0.0000	OK	Infiltration		0.0				

Results for 1 year 480 minute summer. 1920 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)
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	0.0031	
480 minute summer	SWM 2	248	6.519	0.009	0.2	0.0026	0.0000	OK	2	SWM 3	0.2	0.456	0.006	0.0004	
480 minute summer	SWM 3	240	6.489	0.009	0.2	0.0026	0.0000	OK	3	S1	0.2	0.471	0.006	0.0004	
480 minute summer	SWM 4	216	6.598	0.008	0.1	0.0043	0.0000	OK	4	SWM 2	0.1	0.397	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	0.0009	
480 minute summer	S1	288	6.395	-0.055	0.2	0.6856	0.0000	OK	Infiltration		0.0				

Results for 1 year 480 minute winter. 1920 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)
480 minute winter	SWM 1	240	6.570	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	0.0026	0.0000	OK	2	SWM 3	0.2	0.456	0.006	0.0004	
480 minute winter	SWM 3	240	6.489	0.009	0.2	0.0026	0.0000	OK	3	S1	0.2	0.471	0.006	0.0004	
480 minute winter	SWM 4	208	6.598	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	6.590	0.000	0.0	0.0000	0.0000	OK	6	SWM 2	0.0	0.000	0.000	0.0009	
480 minute winter	S1	304	6.405	-0.045	0.2	0.8313	0.0000	OK	Infiltration		0.0				

Results for 1 year 600 minute summer. 2040 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	0.0031	
600 minute summer	SWM 2	315	6.519	0.009	0.2	0.0026	0.0000	OK	2	SWM 3	0.2	0.456	0.006	0.0004	
600 minute summer	SWM 3	315	6.489	0.009	0.2	0.0026	0.0000	OK	3	S1	0.2	0.471	0.006	0.0004	
600 minute summer	SWM 4	285	6.598	0.008	0.1	0.0043	0.0000	OK	4	SWM 2	0.1	0.397	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	0.0009	
600 minute summer	S1	360	6.392	-0.058	0.2	0.6321	0.0000	OK	Infiltration		0.0				

Results for 1 year 600 minute winter. 2040 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	6.560	0.000	0.0	0.0000	0.0000	OK	1	SWM 2	0.0	0.000	0.000	0.0009	
600 minute winter	SWM 2	285	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	6.487	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	6.598	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 6	0.0	0.000	0.000	0.0000	
600 minute winter	SWM 6	15	6.590	0.000	0.0	0.0000	0.0000	OK	6	SWM 2	0.0	0.000	0.000	0.0005	
600 minute winter	S1	360	6.381	-0.069	0.1	0.4726	0.0000	OK	Infiltration		0.0				

Results for 1 year 720 minute summer. 2160 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	0.0031	
720 minute summer	SWM 2	375	6.519	0.009	0.2	0.0026	0.0000	OK	2	SWM 3	0.2	0.456	0.006	0.0004	
720 minute summer	SWM 3	375	6.489	0.009	0.2	0.0026	0.0000	OK	3	S1	0.2	0.471	0.006	0.0004	
720 minute summer	SWM 4	345	6.598	0.008	0.1	0.0043	0.0000	OK	4	SWM 2	0.1	0.397	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	0.0009	
720 minute summer	S1	420	6.392	-0.058	0.2	0.6321	0.0000	OK	Infiltration		0.0				

Results for 1 year 720 minute winter. 2160 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	6.560	0.000	0.0	0.0000	0.0000	OK	1	SWM 2	0.0	0.000	0.000	0.0009	
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	6.487	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	6.598	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 6	0.0	0.000	0.000	0.0000	
720 minute winter	SWM 6	15	6.590	0.000	0.0	0.0000	0.0000	OK	6	SWM 2	0.0	0.000	0.000	0.0005	
720 minute winter	S1	420	6.381	-0.069	0.1	0.4726	0.0000	OK	Infiltration		0.0				

Results for 1 year 960 minute summer. 2400 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 summer	SWM 1	15	6.560	0.000	0.0	0.0000	0.0000	OK	1	SWM 2	0.0	0.000	0.000	0.0009	
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	0.0019	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	0.397	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	0.0005	
960 minute summer	S1	525	6.371	-0.079	0.1	0.3231	0.0000	OK	Infiltration		0.0				

Results for 1 year 960 minute winter. 2400 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	6.480	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 6	0.0	0.000	0.000	0.0000	
960 minute winter	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 winter	S1	15	6.350	-0.100	0.0	0.0000	0.0000	OK	Infiltration		0.0				

Results for 1 year 1440 minute summer. 2880 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 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	6.590	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. 2880 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	6.560	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	6.590	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	6.590	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. 1455 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	6.597	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	0.049	4.8	0.0138	0.0000	OK	2	SWM 3	4.3	0.909	0.140	0.0049	
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	0.655	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	22	6.438	-0.012	4.5	1.3311	0.0000	OK	Infiltration		0.0				

Results for 30 year 15 minute winter. 1455 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	0.880	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	6.621	0.031	1.7	0.0168	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	0.090	0.0076	
15 minute winter	SWM 6	9	6.616	0.026	1.2	0.0091	0.0000	OK	6	SWM 2	1.1	0.451	0.150	0.0129	
15 minute winter	S1	22	6.448	-0.002	4.0	1.4920	0.0000	OK	Infiltration		0.0				

Results for 30 year 30 minute summer. 1470 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	6.593	0.033	1.1	0.0149	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	1.000	0.114	0.0035	
30 minute summer	SWM 4	16	6.618	0.028	1.4	0.0151	0.0000	OK	4	SWM 2	1.4	0.581	0.163	0.0100	
30 minute summer	SWM 5	16	6.719	0.019	0.7	0.0093	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	0.0089	0.0000	OK	6	SWM 2	1.1	0.458	0.142	0.0120	
30 minute summer	S1	37	6.463	0.013	3.5	1.7291	0.0000	OK	Infiltration		0.0				

Results for 30 year 30 minute winter. 1470 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	0.028	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	16	6.517	0.037	2.8	0.0104	0.0000	OK	3	S1	2.8	0.945	0.090	0.0029	
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	6.718	0.018	0.6	0.0087	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	36	6.483	0.033	2.8	2.0322	0.0000	OK	Infiltration		0.0				

Results for 30 year 60 minute summer. 1500 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	31	6.586	0.026	0.7	0.0118	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	0.0030	
60 minute summer	SWM 3	31	6.513	0.033	2.4	0.0095	0.0000	OK	3	S1	2.4	0.908	0.076	0.0026	
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	6.716	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	0.0087	
60 minute summer	S1	65	6.492	0.042	2.4	2.1672	0.0000	OK	Infiltration		0.0				

Results for 30 year 60 minute winter. 1500 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	33	6.582	0.022	0.5	0.0100	0.0000	OK	1	SWM 2	0.5	0.332	0.105	0.0126	
60 minute winter	SWM 2	32	6.539	0.029	1.8	0.0082	0.0000	OK	2	SWM 3	1.8	0.760	0.058	0.0024	
60 minute winter	SWM 3	61	6.510	0.030	1.8	0.0084	0.0000	OK	3	S1	1.8	0.851	0.058	0.0044	
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	0.0059	
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	0.0066	0.0000	OK	6	SWM 2	0.6	0.417	0.078	0.0073	
60 minute winter	S1	60	6.508	0.058	1.8	2.4258	0.0000	OK	Infiltration		0.0				

Results for 30 year 120 minute summer. 1560 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 summer	SWM 1	62	6.580	0.020	0.4	0.0090	0.0000	OK	1	SWM 2	0.4	0.316	0.084	0.0105	
120 minute summer	SWM 2	62	6.535	0.025	1.4	0.0071	0.0000	OK	2	SWM 3	1.4	0.723	0.045	0.0019	
120 minute summer	SWM 3	120	6.511	0.031	1.4	0.0087	0.0000	OK	3	S1	1.4	0.799	0.045	0.0046	
120 minute summer	SWM 4	62	6.608	0.018	0.6	0.0097	0.0000	OK	4	SWM 2	0.6	0.485	0.070	0.0050	
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	0.360	0.052	0.0058	
120 minute summer	S1	124	6.510	0.060	1.4	2.4538	0.0000	OK	Infiltration		0.0				

Results for 30 year 120 minute winter. 1560 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	58	6.577	0.017	0.3	0.0078	0.0000	OK	1	SWM 2	0.3	0.301	0.063	0.0082	
120 minute winter	SWM 2	116	6.538	0.028	1.0	0.0079	0.0000	OK	2	SWM 3	1.0	0.690	0.032	0.0042	
120 minute winter	SWM 3	118	6.537	0.057	1.0	0.0161	0.0000	OK	3	S1	1.6	0.734	0.050	0.0083	
120 minute winter	SWM 4	56	6.605	0.015	0.4	0.0080	0.0000	OK	4	SWM 2	0.4	0.426	0.047	0.0041	
120 minute winter	SWM 5	56	6.711	0.011	0.2	0.0051	0.0000	OK	5	SWM 6	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	0.362	0.039	0.0045	
120 minute winter	S1	120	6.537	0.087	1.6	2.8651	0.0000	OK	Infiltration		0.0				

Results for 30 year 180 minute summer. 1620 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 summer	SWM 1	96	6.577	0.017	0.3	0.0078	0.0000	OK	1	SWM 2	0.3	0.290	0.063	0.0086	
180 minute summer	SWM 2	92	6.532	0.022	1.1	0.0062	0.0000	OK	2	SWM 3	1.1	0.687	0.035	0.0016	
180 minute summer	SWM 3	156	6.513	0.033	1.1	0.0094	0.0000	OK	3	S1	1.1	0.748	0.035	0.0050	
180 minute summer	SWM 4	92	6.606	0.016	0.5	0.0088	0.0000	OK	4	SWM 2	0.5	0.474	0.057	0.0042	
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	0.363	0.039	0.0047	
180 minute summer	S1	152	6.513	0.063	1.1	2.5026	0.0000	OK	Infiltration		0.0				

Results for 30 year 180 minute winter. 1620 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	84	6.574	0.014	0.2	0.0064	0.0000	OK	1	SWM 2	0.2	0.271	0.042	0.0078	
180 minute winter	SWM 2	176	6.540	0.030	0.8	0.0084	0.0000	OK	2	SWM 3	0.8	0.669	0.026	0.0045	
180 minute winter	SWM 3	172	6.540	0.060	1.1	0.0170	0.0000	OK	3	S1	1.4	0.691	0.044	0.0088	
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	0.0043	
180 minute winter	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 winter	SWM 6	92	6.604	0.014	0.3	0.0047	0.0000	OK	6	SWM 2	0.3	0.371	0.039	0.0049	
180 minute winter	S1	172	6.540	0.090	1.4	2.9171	0.0000	OK	Infiltration		0.0				

Results for 30 year 240 minute summer. 1680 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 summer	SWM 1	124	6.577	0.017	0.3	0.0078	0.0000	OK	1	SWM 2	0.3	0.292	0.063	0.0082	
240 minute summer	SWM 2	124	6.531	0.021	1.0	0.0059	0.0000	OK	2	SWM 3	1.0	0.675	0.032	0.0015	
240 minute summer	SWM 3	188	6.509	0.029	1.0	0.0081	0.0000	OK	3	S1	1.0	0.734	0.032	0.0044	
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	0.0038	
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	0.363	0.039	0.0045	
240 minute summer	S1	184	6.509	0.059	1.0	2.4311	0.0000	OK	Infiltration		0.0				

Results for 30 year 240 minute winter. 1680 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	112	6.574	0.014	0.2	0.0064	0.0000	OK	1	SWM 2	0.2	0.274	0.042	0.0085	
240 minute winter	SWM 2	196	6.541	0.031	0.9	0.0088	0.0000	OK	2	SWM 3	0.8	0.640	0.025	0.0047	
240 minute winter	SWM 3	196	6.541	0.061	1.3	0.0172	0.0000	OK	3	S1	1.0	0.669	0.031	0.0089	
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	0.0045	
240 minute winter	SWM 5	80	6.708	0.008	0.1	0.0037	0.0000	OK	5	SWM 6	0.1	0.452	0.012	0.0021	
240 minute winter	SWM 6	108	6.601	0.011	0.2	0.0039	0.0000	OK	6	SWM 2	0.2	0.316	0.026	0.0052	
240 minute winter	S1	196	6.540	0.090	1.0	2.9207	0.0000	OK	Infiltration		0.0				

Results for 30 year 360 minute summer. 1800 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 1	184	6.574	0.014	0.2	0.0064	0.0000	OK	1	SWM 2	0.2	0.272	0.042	0.0062	
360 minute summer	SWM 2	184	6.527	0.017	0.7	0.0049	0.0000	OK	2	SWM 3	0.7	0.622	0.022	0.0011	
360 minute summer	SWM 3	264	6.501	0.021	0.7	0.0059	0.0000	OK	3	S1	0.7	0.665	0.022	0.0034	
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	0.0029	
360 minute summer	SWM 5	160	6.708	0.008	0.1	0.0037	0.0000	OK	5	SWM 6	0.1	0.365	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	0.026	0.0034	
360 minute summer	S1	256	6.501	0.051	0.7	2.3162	0.0000	OK	Infiltration		0.0				

Results for 30 year 360 minute winter. 1800 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 1	120	6.570	0.010	0.1	0.0047	0.0000	OK	1	SWM 2	0.1	0.258	0.021	0.0049	
360 minute winter	SWM 2	280	6.531	0.021	0.4	0.0060	0.0000	OK	2	SWM 3	0.4	0.574	0.014	0.0034	
360 minute winter	SWM 3	280	6.532	0.052	0.9	0.0146	0.0000	OK	3	S1	1.1	0.574	0.035	0.0076	
360 minute winter	SWM 4	160	6.601	0.011	0.2	0.0057	0.0000	OK	4	SWM 2	0.2	0.397	0.023	0.0026	
360 minute winter	SWM 5	136	6.708	0.008	0.1	0.0037	0.0000	OK	5	SWM 6	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	0.274	0.013	0.0031	
360 minute winter	S1	280	6.532	0.082	1.1	2.7847	0.0000	OK	Infiltration		0.0				

Results for 30 year 480 minute summer. 1920 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)
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	0.0058	
480 minute summer	SWM 2	248	6.526	0.016	0.6	0.0045	0.0000	OK	2	SWM 3	0.6	0.602	0.019	0.0010	
480 minute summer	SWM 3	320	6.503	0.023	0.6	0.0064	0.0000	OK	3	S1	0.6	0.640	0.019	0.0036	
480 minute summer	SWM 4	232	6.601	0.011	0.2	0.0057	0.0000	OK	4	SWM 2	0.2	0.393	0.023	0.0025	
480 minute summer	SWM 5	216	6.708	0.008	0.1	0.0037	0.0000	OK	5	SWM 6	0.1	0.365	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	0.026	0.0032	
480 minute summer	S1	320	6.503	0.053	0.6	2.3428	0.0000	OK	Infiltration		0.0				

Results for 30 year 480 minute winter. 1920 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)
480 minute winter	SWM 1	320	6.570	0.010	0.1	0.0047	0.0000	OK	1	SWM 2	0.1	0.263	0.021	0.0045	
480 minute winter	SWM 2	352	6.530	0.020	0.4	0.0057	0.0000	OK	2	SWM 3	0.6	0.547	0.019	0.0032	
480 minute winter	SWM 3	352	6.530	0.050	0.7	0.0140	0.0000	OK	3	S1	1.0	0.574	0.033	0.0073	
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	0.0024	
480 minute winter	SWM 5	200	6.708	0.008	0.1	0.0037	0.0000	OK	5	SWM 6	0.1	0.365	0.012	0.0016	
480 minute winter	SWM 6	200	6.598	0.008	0.1	0.0028	0.0000	OK	6	SWM 2	0.1	0.272	0.013	0.0028	
480 minute winter	S1	352	6.529	0.079	1.0	2.7498	0.0000	OK	Infiltration		0.0				

Results for 30 year 600 minute summer. 2040 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	360	6.570	0.010	0.1	0.0047	0.0000	OK	1	SWM 2	0.1	0.250	0.021	0.0040	
600 minute summer	SWM 2	315	6.523	0.013	0.4	0.0037	0.0000	OK	2	SWM 3	0.4	0.547	0.013	0.0007	
600 minute summer	SWM 3	405	6.496	0.016	0.4	0.0045	0.0000	OK	3	S1	0.4	0.574	0.014	0.0028	
600 minute summer	SWM 4	315	6.601	0.011	0.2	0.0057	0.0000	OK	4	SWM 2	0.2	0.402	0.023	0.0021	
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	0.262	0.013	0.0022	
600 minute summer	S1	405	6.496	0.046	0.4	2.2272	0.0000	OK	Infiltration		0.0				

Results for 30 year 600 minute winter. 2040 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	390	6.570	0.010	0.1	0.0047	0.0000	OK	1	SWM 2	0.1	0.258	0.021	0.0044	
600 minute winter	SWM 2	435	6.530	0.020	0.3	0.0056	0.0000	OK	2	SWM 3	0.5	0.529	0.017	0.0033	
600 minute winter	SWM 3	435	6.530	0.050	0.5	0.0142	0.0000	OK	3	S1	0.6	0.529	0.018	0.0074	
600 minute winter	SWM 4	210	6.598	0.008	0.1	0.0043	0.0000	OK	4	SWM 2	0.1	0.397	0.012	0.0024	
600 minute winter	SWM 5	270	6.708	0.008	0.1	0.0037	0.0000	OK	5	SWM 6	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	0.266	0.013	0.0028	
600 minute winter	S1	435	6.530	0.080	0.6	2.7663	0.0000	OK	Infiltration		0.0				

Results for 30 year 720 minute summer. 2160 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	435	6.570	0.010	0.1	0.0047	0.0000	OK	1	SWM 2	0.1	0.263	0.021	0.0040	
720 minute summer	SWM 2	375	6.523	0.013	0.4	0.0037	0.0000	OK	2	SWM 3	0.4	0.547	0.013	0.0011	
720 minute summer	SWM 3	465	6.505	0.025	0.4	0.0072	0.0000	OK	3	S1	0.7	0.574	0.023	0.0040	
720 minute summer	SWM 4	375	6.601	0.011	0.2	0.0057	0.0000	OK	4	SWM 2	0.2	0.397	0.023	0.0021	
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	0.262	0.013	0.0022	
720 minute summer	S1	465	6.506	0.056	0.7	2.3850	0.0000	OK	Infiltration		0.0				

Results for 30 year 720 minute winter. 2160 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	450	6.570	0.010	0.1	0.0048	0.0000	OK	1	SWM 2	0.1	0.264	0.021	0.0068	
720 minute winter	SWM 2	510	6.537	0.027	0.3	0.0076	0.0000	OK	2	SWM 3	0.3	0.529	0.010	0.0041	
720 minute winter	SWM 3	510	6.537	0.057	0.7	0.0162	0.0000	OK	3	S1	0.6	0.529	0.020	0.0084	
720 minute winter	SWM 4	255	6.598	0.008	0.1	0.0043	0.0000	OK	4	SWM 2	0.1	0.397	0.012	0.0038	
720 minute winter	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 winter	SWM 6	345	6.598	0.008	0.1	0.0028	0.0000	OK	6	SWM 2	0.1	0.262	0.013	0.0042	
720 minute winter	S1	510	6.537	0.087	0.6	2.8706	0.0000	OK	Infiltration		0.0				

Results for 30 year 960 minute summer. 2400 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 summer	SWM 1	435	6.570	0.010	0.1	0.0047	0.0000	OK	1	SWM 2	0.1	0.258	0.021	0.0035	
960 minute summer	SWM 2	480	6.521	0.011	0.3	0.0032	0.0000	OK	2	SWM 3	0.3	0.507	0.010	0.0006	
960 minute summer	SWM 3	600	6.493	0.013	0.3	0.0036	0.0000	OK	3	S1	0.3	0.529	0.010	0.0024	
960 minute summer	SWM 4	585	6.598	0.008	0.1	0.0043	0.0000	OK	4	SWM 2	0.1	0.402	0.012	0.0015	
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	0.262	0.013	0.0019	
960 minute summer	S1	600	6.493	0.043	0.3	2.1821	0.0000	OK	Infiltration		0.0				

Results for 30 year 960 minute winter. 2400 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	585	6.570	0.010	0.1	0.0047	0.0000	OK	1	SWM 2	0.1	0.264	0.021	0.0031	
960 minute winter	SWM 2	540	6.519	0.009	0.2	0.0026	0.0000	OK	2	SWM 3	0.2	0.471	0.007	0.0017	
960 minute winter	SWM 3	645	6.515	0.035	0.4	0.0100	0.0000	OK	3	S1	0.5	0.471	0.015	0.0053	
960 minute winter	SWM 4	630	6.598	0.008	0.1	0.0043	0.0000	OK	4	SWM 2	0.1	0.403	0.012	0.0013	
960 minute winter	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 winter	SWM 6	15	6.590	0.000	0.0	0.0000	0.0000	OK	6	SWM 2	0.0	0.000	0.000	0.0009	
960 minute winter	S1	645	6.515	0.065	0.5	2.5310	0.0000	OK	Infiltration		0.0				

Results for 30 year 1440 minute summer. 2880 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 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	720	6.519	0.009	0.2	0.0026	0.0000	OK	2	SWM 3	0.2	0.456	0.006	0.0004	
1440 minute summer	SWM 3	720	6.489	0.009	0.2	0.0026	0.0000	OK	3	S1	0.2	0.471	0.006	0.0006	
1440 minute summer	SWM 4	660	6.598	0.008	0.1	0.0043	0.0000	OK	4	SWM 2	0.1	0.397	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	0.0009	
1440 minute summer	S1	870	6.467	0.017	0.2	1.7903	0.0000	OK	Infiltration		0.0				

Results for 30 year 1440 minute winter. 2880 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	0.0004	
1440 minute winter	SWM 3	750	6.489	0.009	0.2	0.0026	0.0000	OK	3	S1	0.2	0.471	0.006	0.0004	
1440 minute winter	SWM 4	630	6.598	0.008	0.1	0.0043	0.0000	OK	4	SWM 2	0.1	0.397	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	6.590	0.000	0.0	0.0000	0.0000	OK	6	SWM 2	0.0	0.000	0.000	0.0009	
1440 minute winter	S1	900	6.462	0.012	0.2	1.7036	0.0000	OK	Infiltration		0.0				

Results for 100 year +30% 15 minute summer. 1455 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	6.612	0.052	2.7	0.0239	0.0000	OK	1	SWM 2	2.4	0.487	0.507	0.0394	
15 minute summer	SWM 2	8	6.579	0.069	8.1	0.0195	0.0000	OK	2	SWM 3	7.5	0.997	0.243	0.0076	
15 minute summer	SWM 3	9	6.546	0.066	7.5	0.0186	0.0000	OK	3	S1	7.6	1.202	0.245	0.0063	
15 minute summer	SWM 4	8	6.639	0.049	3.6	0.0265	0.0000	OK	4	SWM 2	3.3	0.695	0.388	0.0191	
15 minute summer	SWM 5	8	6.731	0.031	1.8	0.0149	0.0000	OK	5	SWM 6	1.7	0.699	0.195	0.0132	
15 minute summer	SWM 6	8	6.628	0.038	2.6	0.0132	0.0000	OK	6	SWM 2	2.4	0.555	0.309	0.0212	
15 minute summer	S1	22	6.496	0.046	7.6	2.2293	0.0000	OK	Infiltration		0.0				

Results for 100 year +30% 15 minute winter. 1455 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	6.605	0.045	2.1	0.0208	0.0000	OK	1	SWM 2	2.0	0.461	0.422	0.0347	
15 minute winter	SWM 2	8	6.573	0.063	6.8	0.0180	0.0000	OK	2	SWM 3	6.6	0.965	0.213	0.0069	
15 minute winter	SWM 3	9	6.541	0.061	6.6	0.0172	0.0000	OK	3	S1	6.6	1.163	0.215	0.0057	
15 minute winter	SWM 4	8	6.633	0.043	2.9	0.0235	0.0000	OK	4	SWM 2	2.8	0.701	0.328	0.0170	
15 minute winter	SWM 5	8	6.727	0.027	1.4	0.0132	0.0000	OK	5	SWM 6	1.4	0.657	0.158	0.0114	
15 minute winter	SWM 6	8	6.625	0.035	2.1	0.0121	0.0000	OK	6	SWM 2	2.0	0.519	0.259	0.0191	
15 minute winter	S1	21	6.513	0.063	6.6	2.4953	0.0000	OK	Infiltration		0.0				

Results for 100 year +30% 30 minute summer. 1470 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	6.602	0.042	1.8	0.0195	0.0000	OK	1	SWM 2	1.8	0.451	0.378	0.0321	
30 minute summer	SWM 2	16	6.570	0.060	6.0	0.0168	0.0000	OK	2	SWM 3	6.0	0.943	0.193	0.0063	
30 minute summer	SWM 3	35	6.541	0.061	6.0	0.0172	0.0000	OK	3	S1	5.9	1.132	0.192	0.0089	
30 minute summer	SWM 4	16	6.629	0.039	2.4	0.0211	0.0000	OK	4	SWM 2	2.4	0.640	0.280	0.0154	
30 minute summer	SWM 5	16	6.725	0.025	1.2	0.0123	0.0000	OK	5	SWM 6	1.2	0.633	0.140	0.0105	
30 minute summer	SWM 6	16	6.623	0.033	1.8	0.0114	0.0000	OK	6	SWM 2	1.8	0.507	0.234	0.0178	
30 minute summer	S1	32	6.541	0.091	5.9	2.9261	0.0000	OK	Infiltration		0.0				

Results for 100 year +30% 30 minute winter. 1470 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	16	6.597	0.037	1.4	0.0170	0.0000	OK	1	SWM 2	1.4	0.418	0.294	0.0269	
30 minute winter	SWM 2	34	6.563	0.053	4.8	0.0150	0.0000	OK	2	SWM 3	4.8	0.907	0.155	0.0079	
30 minute winter	SWM 3	34	6.563	0.083	4.8	0.0235	0.0000	OK	3	S1	4.8	1.075	0.155	0.0122	
30 minute winter	SWM 4	16	6.624	0.034	1.9	0.0182	0.0000	OK	4	SWM 2	1.9	0.604	0.221	0.0128	
30 minute winter	SWM 5	16	6.723	0.023	1.0	0.0112	0.0000	OK	5	SWM 6	1.0	0.604	0.117	0.0092	
30 minute winter	SWM 6	16	6.620	0.030	1.5	0.0104	0.0000	OK	6	SWM 2	1.5	0.497	0.195	0.0152	
30 minute winter	S1	33	6.562	0.112	4.8	3.2605	0.0000	OK	Infiltration		0.0				

Results for 100 year +30% 60 minute summer. 1500 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	31	6.594	0.034	1.2	0.0157	0.0000	OK	1	SWM 2	1.2	0.407	0.252	0.0285	
60 minute summer	SWM 2	65	6.581	0.071	4.1	0.0201	0.0000	OK	2	SWM 3	4.1	0.882	0.132	0.0104	
60 minute summer	SWM 3	63	6.581	0.101	4.1	0.0285	0.0000	OK	3	S1	4.1	1.035	0.132	0.0145	
60 minute summer	SWM 4	31	6.621	0.031	1.7	0.0170	0.0000	OK	4	SWM 2	1.7	0.600	0.198	0.0124	
60 minute summer	SWM 5	31	6.721	0.021	0.8	0.0100	0.0000	OK	5	SWM 6	0.8	0.564	0.093	0.0078	
60 minute summer	SWM 6	31	6.617	0.027	1.2	0.0093	0.0000	OK	6	SWM 2	1.2	0.457	0.156	0.0155	
60 minute summer	S1	64	6.581	0.131	4.1	3.5425	0.0000	OK	Infiltration		0.0				

Results for 100 year +30% 60 minute winter. 1500 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	59	6.608	0.048	0.9	0.0220	0.0000	OK	1	SWM 2	0.9	0.381	0.189	0.0457	
60 minute winter	SWM 2	67	6.607	0.097	3.0	0.0274	0.0000	OK	2	SWM 3	3.3	0.835	0.106	0.0141	
60 minute winter	SWM 3	60	6.613	0.133	4.5	0.0376	0.0000	OK	3	S1	3.6	0.963	0.116	0.0171	
60 minute winter	SWM 4	29	6.616	0.026	1.2	0.0139	0.0000	OK	4	SWM 2	1.2	0.557	0.140	0.0174	
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	0.0064	
60 minute winter	SWM 6	33	6.613	0.023	0.9	0.0080	0.0000	OK	6	SWM 2	0.9	0.434	0.117	0.0218	
60 minute winter	S1	61	6.606	0.156	3.6	3.9424	0.0000	OK	Infiltration		0.0				

Results for 100 year +30% 120 minute summer. 1560 minute analysis at 2 minute timestep. Mass balance: 96.80%															
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	6.617	0.057	0.8	0.0261	0.0000	OK	1	SWM 2	0.8	0.377	0.168	0.0497	
120 minute summer	SWM 2	130	6.619	0.109	2.6	0.0308	0.0000	OK	2	SWM 3	2.6	0.808	0.084	0.0153	
120 minute summer	SWM 3	122	6.627	0.147	3.3	0.0416	0.0000	OK	3	S1	3.8	0.885	0.121	0.0175	
120 minute summer	SWM 4	118	6.617	0.027	1.0	0.0146	0.0000	OK	4	SWM 2	1.0	0.528	0.117	0.0191	
120 minute summer	SWM 5	62	6.716	0.016	0.5	0.0079	0.0000	OK	5	SWM 6	0.5	0.480	0.058	0.0058	
120 minute summer	SWM 6	126	6.616	0.026	0.8	0.0092	0.0000	OK	6	SWM 2	0.8	0.424	0.104	0.0237	
120 minute summer	S1	122	6.617	0.167	3.8	4.1108	0.0000	OK	Infiltration		0.0				

Results for 100 year +30% 120 minute winter. 1560 minute analysis at 2 minute timestep. Mass balance: 96.05%															
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)
120 minute winter	SWM 1	118	6.646	0.086	0.6	0.0395	0.0000	OK	1	SWM 2	0.6	0.347	0.126	0.0599	
120 minute winter	SWM 2	122	6.647	0.137	5.7	0.0387	0.0000	OK	2	SWM 3	-4.9	0.757	-0.158	0.0172	
120 minute winter	SWM 3	118	6.647	0.167	3.2	0.0473	0.0000	FLOOD RISK	3	S1	5.2	0.833	0.167	0.0176	
120 minute winter	SWM 4	118	6.646	0.056	0.8	0.0304	0.0000	OK	4	SWM 2	0.8	0.499	0.093	0.0247	
120 minute winter	SWM 5	62	6.715	0.015	0.4	0.0071	0.0000	OK	5	SWM 6	0.4	0.460	0.047	0.0126	
120 minute winter	SWM 6	120	6.646	0.056	0.6	0.0194	0.0000	OK	6	SWM 2	0.6	0.409	0.078	0.0308	
120 minute winter	S1	120	6.646	0.196	5.2	4.5545	0.0000	OK	Infiltration		0.0				

Results for 100 year +30% 180 minute summer. 1620 minute analysis at 4 minute timestep. Mass balance: 95.45%															
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	6.639	0.079	0.6	0.0362	0.0000	OK	1	SWM 2	0.6	0.345	0.124	0.0578	
180 minute summer	SWM 2	180	6.640	0.130	2.0	0.0369	0.0000	OK	2	SWM 3	2.1	0.745	0.069	0.0169	
180 minute summer	SWM 3	184	6.641	0.161	4.5	0.0457	0.0000	FLOOD RISK	3	S1	3.4	0.784	0.109	0.0176	
180 minute summer	SWM 4	184	6.639	0.049	0.8	0.0264	0.0000	OK	4	SWM 2	0.8	0.506	0.093	0.0232	
180 minute summer	SWM 5	92	6.715	0.015	0.4	0.0070	0.0000	OK	5	SWM 6	0.4	0.459	0.046	0.0104	
180 minute summer	SWM 6	184	6.639	0.049	0.6	0.0170	0.0000	OK	6	SWM 2	0.6	0.391	0.076	0.0291	
180 minute summer	S1	184	6.638	0.188	3.4	4.4373	0.0000	OK	Infiltration		0.0				

Results for 100 year +30% 180 minute winter. 1620 minute analysis at 4 minute timestep. Mass balance: 96.63%															
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	6.664	0.104	0.4	0.0475	0.0000	FLOOD RISK	1	SWM 2	0.5	0.325	0.110	0.0626	
180 minute winter	SWM 2	172	6.665	0.155	2.4	0.0438	0.0000	FLOOD RISK	2	SWM 3	2.9	0.739	0.093	0.0176	
180 minute winter	SWM 3	180	6.667	0.187	3.6	0.0530	0.0000	FLOOD RISK	3	S1	2.8	0.760	0.089	0.0176	
180 minute winter	SWM 4	176	6.665	0.075	0.6	0.0404	0.0000	OK	4	SWM 2	0.6	0.474	0.069	0.0282	
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	0.0170	
180 minute winter	SWM 6	184	6.663	0.073	0.4	0.0255	0.0000	OK	6	SWM 2	0.5	0.364	0.061	0.0350	
180 minute winter	S1	180	6.664	0.214	2.8	4.8277	0.0000	OK	Infiltration		0.0				

Results for 100 year +30% 240 minute summer. 1680 minute analysis at 4 minute timestep. Mass balance: 95.35%															
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)
240 minute summer	SWM 1	248	6.638	0.078	0.5	0.0357	0.0000	OK	1	SWM 2	0.5	0.336	0.105	0.0574	
240 minute summer	SWM 2	256	6.638	0.128	2.9	0.0362	0.0000	OK	2	SWM 3	-2.9	0.722	-0.092	0.0168	
240 minute summer	SWM 3	244	6.640	0.160	3.5	0.0453	0.0000	FLOOD RISK	3	S1	2.3	0.748	0.075	0.0176	
240 minute summer	SWM 4	248	6.638	0.048	0.6	0.0260	0.0000	OK	4	SWM 2	0.6	0.474	0.070	0.0231	
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	0.0101	
240 minute summer	SWM 6	248	6.638	0.048	0.5	0.0166	0.0000	OK	6	SWM 2	0.5	0.387	0.065	0.0288	
240 minute summer	S1	244	6.638	0.188	2.3	4.4266	0.0000	OK	Infiltration		0.0				

Results for 100 year +30% 240 minute winter. 1680 minute analysis at 4 minute timestep. Mass balance: 96.48%															
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	236	6.682	0.122	0.3	0.0561	0.0000	FLOOD RISK	1	SWM 2	0.3	0.297	0.063	0.0626	
240 minute winter	SWM 2	236	6.684	0.174	3.0	0.0491	0.0000	FLOOD RISK	2	SWM 3	-3.0	0.734	-0.096	0.0176	
240 minute winter	SWM 3	232	6.683	0.203	2.6	0.0575	0.0000	FLOOD RISK	3	S1	2.6	0.706	0.083	0.0176	
240 minute winter	SWM 4	236	6.682	0.092	0.5	0.0499	0.0000	OK	4	SWM 2	0.5	0.502	0.058	0.0307	
240 minute winter	SWM 5	104	6.711	0.011	0.2	0.0051	0.0000	OK	5	SWM 6	0.2	0.452	0.023	0.0208	
240 minute winter	SWM 6	236	6.682	0.092	0.3	0.0320	0.0000	OK	6	SWM 2	0.4	0.356	0.055	0.0384	
240 minute winter	S1	236	6.682	0.232	2.6	5.1101	0.0000	OK	Infiltration		0.0				

Results for 100 year +30% 360 minute summer. 1800 minute analysis at 8 minute timestep. Mass balance: 95.96%															
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)
360 minute summer	SWM 1	296	6.635	0.075	0.3	0.0342	0.0000	OK	1	SWM 2	0.3	0.289	0.063	0.0563	
360 minute summer	SWM 2	304	6.636	0.126	1.2	0.0356	0.0000	OK	2	SWM 3	2.4	0.664	0.076	0.0167	
360 minute summer	SWM 3	312	6.636	0.156	2.4	0.0441	0.0000	FLOOD RISK	3	S1	2.7	0.686	0.088	0.0176	
360 minute summer	SWM 4	296	6.635	0.045	0.5	0.0243	0.0000	OK	4	SWM 2	0.5	0.471	0.058	0.0224	
360 minute summer	SWM 5	176	6.711	0.011	0.2	0.0051	0.0000	OK	5	SWM 6	0.2	0.374	0.023	0.0093	
360 minute summer	SWM 6	304	6.635	0.045	0.3	0.0155	0.0000	OK	6	SWM 2	0.3	0.363	0.039	0.0280	
360 minute summer	S1	304	6.635	0.185	2.7	4.3846	0.0000	OK	Infiltration		0.0				

Results for 100 year +30% 360 minute winter. 1800 minute analysis at 8 minute timestep. Mass balance: 96.08%															
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	6.682	0.122	0.2	0.0559	0.0000	FLOOD RISK	1	SWM 2	0.2	0.270	0.042	0.0626	
360 minute winter	SWM 2	336	6.682	0.172	1.1	0.0486	0.0000	FLOOD RISK	2	SWM 3	1.8	0.687	0.057	0.0176	
360 minute winter	SWM 3	344	6.684	0.204	1.8	0.0577	0.0000	FLOOD RISK	3	S1	2.5	0.665	0.080	0.0176	
360 minute winter	SWM 4	336	6.682	0.092	0.3	0.0499	0.0000	OK	4	SWM 2	0.3	0.407	0.035	0.0308	
360 minute winter	SWM 5	176	6.711	0.011	0.2	0.0051	0.0000	OK	5	SWM 6	0.2	0.374	0.023	0.0207	
360 minute winter	SWM 6	336	6.682	0.092	0.3	0.0318	0.0000	OK	6	SWM 2	0.3	0.386	0.039	0.0383	
360 minute winter	S1	344	6.681	0.231	2.5	5.1036	0.0000	OK	Infiltration		0.0				

Results for 100 year +30% 480 minute summer. 1920 minute analysis at 8 minute timestep. Mass balance: 95.61%															
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)
480 minute summer	SWM 1	360	6.627	0.067	0.3	0.0306	0.0000	OK	1	SWM 2	0.3	0.294	0.063	0.0535	
480 minute summer	SWM 2	360	6.629	0.119	1.4	0.0335	0.0000	OK	2	SWM 3	2.2	0.699	0.070	0.0161	
480 minute summer	SWM 3	328	6.636	0.156	4.1	0.0442	0.0000	FLOOD RISK	3	S1	2.6	0.686	0.085	0.0176	
480 minute summer	SWM 4	360	6.627	0.037	0.4	0.0202	0.0000	OK	4	SWM 2	0.4	0.429	0.047	0.0210	
480 minute summer	SWM 5	240	6.711	0.011	0.2	0.0051	0.0000	OK	5	SWM 6	0.2	0.374	0.023	0.0071	
480 minute summer	SWM 6	368	6.627	0.037	0.3	0.0127	0.0000	OK	6	SWM 2	0.3	0.363	0.039	0.0260	
480 minute summer	S1	368	6.627	0.177	2.6	4.2568	0.0000	OK	Infiltration		0.0				

Results for 100 year +30% 480 minute winter. 1920 minute analysis at 8 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)
480 minute winter	SWM 1	392	6.683	0.123	0.2	0.0563	0.0000	FLOOD RISK	1	SWM 2	0.2	0.274	0.043	0.0626	
480 minute winter	SWM 2	392	6.684	0.174	2.2	0.0493	0.0000	FLOOD RISK	2	SWM 3	3.2	0.640	0.103	0.0176	
480 minute winter	SWM 3	384	6.685	0.205	4.3	0.0579	0.0000	FLOOD RISK	3	S1	2.8	0.640	0.091	0.0176	
480 minute winter	SWM 4	392	6.683	0.093	0.3	0.0502	0.0000	OK	4	SWM 2	0.3	0.414	0.037	0.0308	
480 minute winter	SWM 5	160	6.708	0.008	0.1	0.0037	0.0000	OK	5	SWM 6	0.1	0.365	0.012	0.0209	
480 minute winter	SWM 6	392	6.683	0.093	0.2	0.0322	0.0000	OK	6	SWM 2	0.2	0.316	0.029	0.0385	
480 minute winter	S1	392	6.683	0.233	2.8	5.1209	0.0000	OK	Infiltration		0.0				

Results for 100 year +30% 600 minute summer. 2040 minute analysis at 15 minute timestep. Mass balance: 97.13%															
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	420	6.614	0.054	0.2	0.0249	0.0000	OK	1	SWM 2	0.2	0.272	0.042	0.0486	
600 minute summer	SWM 2	420	6.614	0.104	0.7	0.0295	0.0000	OK	2	SWM 3	1.7	0.614	0.055	0.0150	
600 minute summer	SWM 3	405	6.621	0.141	1.7	0.0399	0.0000	OK	3	S1	1.9	0.635	0.060	0.0174	
600 minute summer	SWM 4	435	6.614	0.024	0.3	0.0129	0.0000	OK	4	SWM 2	0.3	0.420	0.040	0.0185	
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	0.0041	
600 minute summer	SWM 6	420	6.614	0.024	0.2	0.0084	0.0000	OK	6	SWM 2	0.2	0.315	0.026	0.0232	
600 minute summer	S1	420	6.615	0.165	1.9	4.0723	0.0000	OK	Infiltration		0.0				

Results for 100 year +30% 600 minute winter. 2040 minute analysis at 15 minute timestep. Mass balance: 96.08%															
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	480	6.676	0.116	0.2	0.0530	0.0000	FLOOD RISK	1	SWM 2	0.2	0.292	0.042	0.0626	
600 minute winter	SWM 2	480	6.677	0.167	0.8	0.0471	0.0000	FLOOD RISK	2	SWM 3	1.1	0.637	0.035	0.0176	
600 minute winter	SWM 3	465	6.676	0.196	1.8	0.0555	0.0000	FLOOD RISK	3	S1	0.9	0.574	0.030	0.0176	
600 minute winter	SWM 4	480	6.676	0.086	0.2	0.0463	0.0000	OK	4	SWM 2	0.3	0.397	0.037	0.0299	
600 minute winter	SWM 5	225	6.708	0.008	0.1	0.0037	0.0000	OK	5	SWM 6	0.1	0.354	0.012	0.0197	
600 minute winter	SWM 6	480	6.676	0.086	0.2	0.0297	0.0000	OK	6	SWM 2	0.2	0.341	0.026	0.0374	
600 minute winter	S1	480	6.675	0.225	0.9	5.0069	0.0000	OK	Infiltration		0.0				

Results for 100 year +30% 720 minute summer. 2160 minute analysis at 15 minute timestep. Mass balance: 95.53%															
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)
720 minute summer	SWM 1	495	6.620	0.060	0.2	0.0276	0.0000	OK	1	SWM 2	0.2	0.275	0.042	0.0510	
720 minute summer	SWM 2	480	6.618	0.108	0.8	0.0304	0.0000	OK	2	SWM 3	0.7	0.657	0.023	0.0154	
720 minute summer	SWM 3	495	6.631	0.151	0.7	0.0429	0.0000	FLOOD RISK	3	S1	2.3	0.635	0.073	0.0176	
720 minute summer	SWM 4	495	6.622	0.032	0.3	0.0174	0.0000	OK	4	SWM 2	0.3	0.436	0.035	0.0200	
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	0.0052	
720 minute summer	SWM 6	495	6.619	0.029	0.2	0.0101	0.0000	OK	6	SWM 2	0.2	0.317	0.026	0.0243	
720 minute summer	S1	495	6.619	0.169	2.3	4.1429	0.0000	OK	Infiltration		0.0				

Results for 100 year +30% 720 minute winter. 2160 minute analysis at 15 minute timestep. Mass balance: 95.42%															
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	555	6.646	0.086	0.1	0.0394	0.0000	OK	1	SWM 2	0.2	0.258	0.048	0.0599	
720 minute winter	SWM 2	570	6.645	0.135	0.9	0.0382	0.0000	OK	2	SWM 3	1.5	0.574	0.049	0.0172	
720 minute winter	SWM 3	555	6.649	0.169	2.5	0.0478	0.0000	FLOOD RISK	3	S1	-2.3	0.571	-0.076	0.0176	
720 minute winter	SWM 4	540	6.646	0.056	0.2	0.0304	0.0000	OK	4	SWM 2	0.2	0.409	0.023	0.0247	
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	0.0123	
720 minute winter	SWM 6	555	6.646	0.056	0.1	0.0194	0.0000	OK	6	SWM 2	-0.1	0.262	-0.015	0.0308	
720 minute winter	S1	555	6.645	0.195	1.1	4.5461	0.0000	OK	Infiltration		0.0				

Results for 100 year +30% 960 minute summer. 2400 minute analysis at 15 minute timestep. Mass balance: 96.55%															
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)
960 minute summer	SWM 1	630	6.617	0.057	0.2	0.0263	0.0000	OK	1	SWM 2	0.2	0.289	0.042	0.0499	
960 minute summer	SWM 2	615	6.618	0.108	1.7	0.0305	0.0000	OK	2	SWM 3	-1.6	0.637	-0.053	0.0152	
960 minute summer	SWM 3	645	6.623	0.143	1.2	0.0404	0.0000	OK	3	S1	2.0	0.574	0.063	0.0174	
960 minute summer	SWM 4	630	6.616	0.026	0.3	0.0142	0.0000	OK	4	SWM 2	0.2	0.397	0.023	0.0190	
960 minute summer	SWM 5	420	6.708	0.008	0.1	0.0037	0.0000	OK	5	SWM 6	0.1	0.354	0.012	0.0047	
960 minute summer	SWM 6	630	6.617	0.027	0.2	0.0093	0.0000	OK	6	SWM 2	0.2	0.336	0.026	0.0238	
960 minute summer	S1	630	6.618	0.168	2.0	4.1179	0.0000	OK	Infiltration		0.0				

Results for 100 year +30% 960 minute winter. 2400 minute analysis at 15 minute timestep. Mass balance: 96.38%															
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	705	6.658	0.098	0.1	0.0451	0.0000	OK	1	SWM 2	0.3	0.258	0.070	0.0625	
960 minute winter	SWM 2	705	6.660	0.150	1.0	0.0423	0.0000	OK	2	SWM 3	1.9	0.530	0.061	0.0176	
960 minute winter	SWM 3	720	6.659	0.179	3.4	0.0505	0.0000	FLOOD RISK	3	S1	-1.5	0.529	-0.050	0.0176	
960 minute winter	SWM 4	705	6.658	0.068	0.2	0.0370	0.0000	OK	4	SWM 2	0.3	0.411	0.032	0.0270	
960 minute winter	SWM 5	390	6.708	0.008	0.1	0.0037	0.0000	OK	5	SWM 6	0.1	0.354	0.012	0.0158	
960 minute winter	SWM 6	705	6.658	0.068	0.1	0.0237	0.0000	OK	6	SWM 2	0.3	0.262	0.033	0.0338	
960 minute winter	S1	705	6.658	0.208	1.4	4.7422	0.0000	OK	Infiltration		0.0				

Results for 100 year +30% 1440 minute summer. 2880 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 summer	SWM 1	900	6.607	0.047	0.1	0.0214	0.0000	OK	1	SWM 2	0.1	0.258	0.023	0.0454	
1440 minute summer	SWM 2	930	6.608	0.098	0.5	0.0278	0.0000	OK	2	SWM 3	1.0	0.529	0.032	0.0140	
1440 minute summer	SWM 3	900	6.608	0.128	1.0	0.0363	0.0000	OK	3	S1	1.0	0.529	0.032	0.0168	
1440 minute summer	SWM 4	900	6.607	0.017	0.1	0.0093	0.0000	OK	4	SWM 2	0.1	0.397	0.012	0.0173	
1440 minute summer	SWM 5	690	6.708	0.008	0.1	0.0037	0.0000	OK	5	SWM 6	0.1	0.353	0.012	0.0025	
1440 minute summer	SWM 6	900	6.607	0.017	0.1	0.0060	0.0000	OK	6	SWM 2	0.1	0.274	0.013	0.0217	
1440 minute summer	S1	930	6.607	0.157	1.0	3.9498	0.0000	OK	Infiltration		0.0				

Results for 100 year +30% 1440 minute winter. 2880 minute analysis at 30 minute timestep. Mass balance: 95.29%															
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	6.642	0.082	0.1	0.0377	0.0000	OK	1	SWM 2	0.2	0.258	0.040	0.0588	
1440 minute winter	SWM 2	960	6.642	0.132	1.8	0.0374	0.0000	OK	2	SWM 3	1.4	0.529	0.044	0.0171	
1440 minute winter	SWM 3	990	6.643	0.163	2.7	0.0463	0.0000	FLOOD RISK	3	S1	-1.4	0.525	-0.045	0.0176	
1440 minute winter	SWM 4	990	6.642	0.052	0.1	0.0282	0.0000	OK	4	SWM 2	0.3	0.397	0.033	0.0239	
1440 minute winter	SWM 5	690	6.708	0.008	0.1	0.0037	0.0000	OK	5	SWM 6	0.1	0.353	0.012	0.0113	
1440 minute winter	SWM 6	990	6.642	0.052	0.1	0.0181	0.0000	OK	6	SWM 2	0.1	0.272	0.013	0.0299	
1440 minute winter	S1	990	6.642	0.192	1.4	4.4904	0.0000	OK	Infiltration		0.0				