

The Seam, Barnsley

Drainage Strategy & FRA

November 2024



FAIRHURST

CONTROL SHEET

CLIENT: Willmott Dixon

PROJECT TITLE: The Seam, Barnsley

REPORT TITLE: Drainage Strategy & FRA

PROJECT REFERENCE: 159592

DOCUMENT NUMBER: D//D/159592/17

STATUS: FINAL

Issue & Approval Schedule		Name	Signature	Date
	Prepared by	Frank Moore		30/10/24
	Checked by	Sujay Kumar		31/10/24
	Approved by	Jason McArdle		1/11/24

Revision Record	Rev.	Date	Status	Description	Signature	
	3	21/03/2025	Final	Proposed Drainage Section updated to suit new drainage strategy	FM	On File
					MC	On File
					MC	On File
	4	21/03/2025	Final	Updated to suit new Appendix D	FM	On File
					MC	On File
					MC	On File

*This document has been prepared in accordance with the Fairhurst Quality and Environmental Management System and in accordance with the instructions of the client, **Willmott Dixon** for the client's sole and specific use. Any other persons who use any information contained herein do so at their own risk. Any information provided by third parties and referred to herein has not been checked or verified by Fairhurst unless otherwise expressly stated within this report.*

Unless otherwise agreed in writing, all intellectual property rights in, or arising out of, or in connection with this report, are owned by Fairhurst. The client named above has a licence to copy and use this report only for the purposes for which it was provided. The licence to use and copy this report is subject to other terms and conditions agreed between Fairhurst and the client.

Fairhurst is the trading name of Fairhurst Group LLP, a limited liability partnership registered in Scotland with the registered number SO307306 and registered office at 43 George Street, Edinburgh EH2 2HT.

CONTENTS

1.	INTRODUCTION	3
2.	SURFACE WATER DRAINAGE ASSESSMENT	4
3.	PROPOSED DRAINAGE STRATEGY	5
4.	REPORT CONDITIONS	7

APPENDICES

Appendix A	Proposed Site Plans
Appendix B	Utility Survey
Appendix C	Yorkshire Water Asset Map
Appendix D	Proposed Drainage Strategy
Appendix E	Causeway Flow Model Results

1. Introduction

1.1 Background

- 1.1.1 Fairhurst have been appointed to produce a drainage strategy, on behalf of Willmott Dixon to support the planning application for the development of the existing carpark at Barnsley.
- 1.1.2 The proposed development involves the redevelopment of the existing car park. The northern part of the site will be retained as car park and resurfaced, while the southern part of the site will be developed into a public realm space. The proposed site plans are located in **Appendix A**.



Satellite image of the site

2. Surface Water Drainage Assessment

2.1 Hierarchy of Discharge

2.1.1 Following the hierarchy of discharge, in accordance with Paragraph 56 in Flood Risk and Coastal Change section of the PPG and Building Regulations, surface water flows should be discharged in the following order:

1. Discharge via infiltration, as the first priority where achievable. If this is not feasible move to step 2.
2. Discharge via watercourse / water feature, as the second priority. If this is not feasible, move to step 3.
3. Discharge to public surface water sewer, as the third priority. Where this is not feasible, move to step 4.
4. Discharge to the public combined / foul sewer.

2.1.2 The aim of this approach is to try mimic the existing natural drainage regime as a priority.

Method 1 – Infiltration

An Intrusive ground investigation was carried out to confirm infiltration rates across the site. The residual soil is Pennine Middle Coal formation which is a good infiltration media, however across the site there are cohesive deposits with very poor infiltration. This along with the presence of contamination within the groundwater and soils has meant discharging via infiltration would not be appropriate and method 2 discharging via a watercourse has been reviewed.

Method 2 – Via Watercourse

The nearest watercourse is the River Dearne, located over 600m to the northeast of the site. To discharge into this river, a drainage network would need to be constructed beneath existing buildings and through land owned by third parties, or diverted around these obstacles. Both options would be prohibitively expensive, making this discharge method unfeasible. Therefore, Method 3 has been reviewed.

Method 3 – Via Surface Water Sewer

Two existing surface water sewers run beneath the pavement on Old Mill Lane Road to the north and Eldon Street North to the south of the site. The existing drainage network currently discharges from the site using both of these existing sewers. It is therefore proposed to continue to utilise these sewers, for the discharge of surface water flows from the site once the development is complete. See **Appendix B** for the utility survey.

3. Proposed Drainage Strategy

The proposed drainage strategy is divided into two networks. The drainage from the carpark area will discharge into an existing Yorkshire Water asset to the north, and the public realm area will discharge to the south, also into an existing Yorkshire Water asset. See Appendix C for Yorkshire Water Asset Map.

3.1 Flood Risk Assessment

- 3.1.1 The EA Flood Maps for planning shows that the site is entirely located in Flood Zone 1 (low risk) and is therefore at low risk from flooding including surface water flooding.

3.2 Northern Network

- 3.2.1 The northern section of the site involves the redevelopment of an existing carpark, with the majority of the existing levels retained, except for a middle section where levels are being raised by 300mm. The proposed levels have been raised to allow for the installation of a geocell system to protect existing tree roots from damage.
- 3.2.2 The proposed drainage to the north is to the Yorkshire Water surface water culvert located beneath the footpath on Old Mill Lane. The proposed network connects via a backdrop onto the existing 150mm pipe that saddle connects onto this culvert. See **Appendix D** for the proposed drainage strategy.
- 3.2.3 The flow rate to the north is restricted via the orifice provided by the 150mm pipe, this leads to a maximum discharge rate of 80.0l/s. The rest of the northern network is made of majority 600mm diameter pipes that provide attenuation during large storm events.
- 3.2.4 As this network drains more than 50 car parking spaces, an oil separator has been provided with all surface water from the parking areas passing through before discharging into the Yorkshire Water culvert beneath the footpath on Old Mill Lane.
- 3.2.5 The flow results shown in **Appendix E**, show the connection into the existing 150mm pipe as surcharging during a 1 in 1 storm event. There is no flooding apparent on the model for storm events up to 1 in 100 year with 40% climate change.

3.3 Southern Network

- 3.3.1 The southern section of the site provides positive drainage for the proposed public realm and part of the remediated carpark.
- 3.3.2 The southern network discharges into the existing 225mm diameter pipe which discharges downstream into an existing back drop along the retaining wall to the

south, which then connects to the Yorkshire Water network beneath Eldon Street North. See **Appendix D** for the proposed drainage strategy.

- 3.3.3 As this network drains more than 50 car parking spaces, an oil separator has been provided with all surface water from the parking areas passing through before discharging into the Yorkshire Water network beneath Eldon Street North
- 3.3.4 The southern network is restricted via a hydro brake to discharge into the existing backdrop at 80l/s.

3.4 Discharge Rates

- 3.4.1 Yorkshire water stipulated that the site must achieve a minimum 30% reduction in the discharge rate across the entire site. Please see below table 1 for the calculated existing discharge rates to the North and South, the reduced discharge rates and the proposed maximum discharge rates (See Appendix E for full discharge rates).

Catchment	Existing	30% Reduction	Proposed	Actual Reduction
Northern	207.92 l/s	145.54 l/s	80 l/s	62 %
Southern	115.92 l/s	81.14 l/s	80 l/s	31 %

Table 1 – Discharge Rate Comparisons

- 3.4.2 As shown in table 1 both networks discharge into their associated Yorkshire Water assets with a greater than 30% reduction of what the existing arrangement is discharging at.

4. Report Conditions

- 4.1 The report is based upon the information that has been acquired and/or made available to Fairhurst via the various searches and consultations completed as part of this assessment. In some cases, anecdotal information has been relied upon, where documented evidence has been absent.
- 4.2 The conclusions drawn in the above report are considered correct, although any subsequent additional information may allow refinement of the conclusions.
- 4.3 All work carried out in preparing this report has utilised Fairhursts' professional knowledge and understanding of the current UK standard and codes, terminology and legislation. Changes in this guidance may occur at any time in the future, and therefore cause any conclusions to become inappropriate or incorrect. Should this be the case then an updated assessment will be required based upon the latest released guidance.
- 4.4 This report has been produced using information contained within online mapping and documents prepared by others. Fairhurst can accept no liability or responsibility for the accuracy of the information provided.

Appendix A
Proposed Site Plan

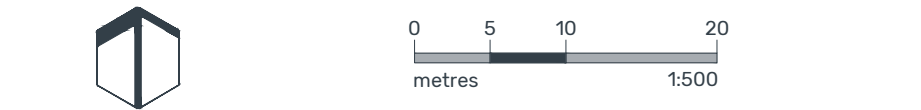


©One-Environments Ltd. This drawing is not to be scaled. All dimensions to be verified on site prior to commencement of works. Discrepancies, ambiguities and/or omissions between this drawing & information supplied by others must be reported immediately for clarification before proceeding

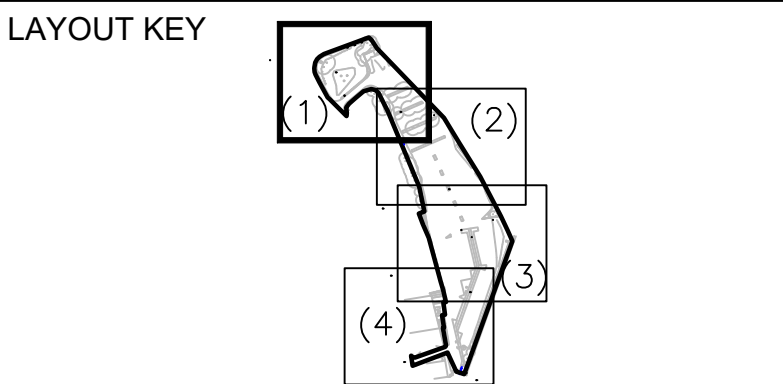
NOTES	
LEGEND	
	Existing Soft Landscape Area to be retained
	Proposed Wildflower Turf
	Proposed Grass Turf
	Proposed Ornamental Planting
	Proposed Hedge
	Proposed Tree Planting
	Existing Trees/ Vegetation to be retained
	Existing Trees to be removed
	Existing Area Retained - No Work
	Proposed Paving - Type 1 / Concrete Block Paving Vehicular (100x200mm)
	Proposed Paving - Type 2 / Sandstone Occasional Vehicular Use
	Proposed Paving - Type 3 / Granite Occasional Vehicular
	Proposed Paving - Type 4 / Sandstone Occasional Vehicular Use
	Proposed Paving - Type 5 / Sandstone Occasional Vehicular Use
	Asphalt Vehicular Grade
	Concrete Hard-standing
	Existing Asphalt Surface to be Renewed
	Permeable Block Paving
	Free-draining Gravel
	Tactile Blister Paving
	Perforated Metal Featured Texts
	Proposed Raised Planter Edge
	Proposed Focal Point Sculpture
	Proposed Louvred Fencing [with matching gates (manually lockable)]
	Proposed 1.2m High Railing [with matching gates (manually lockable)]
	Proposed Knee Rail
	Palisade Fence to be Renewed [with existing posts & foundations retained]
	Designed CorTen Fence
	Free-standing Metal Benches
	Gabion Seating with Timber Top
	Automatic Bollards
	Fixed Bollards
	Totem Signs
	Litter Bins
	Metal Tree Grill [weathering steel]
	Space Allowance for Ticket Machine [to be supplied by BMBC]
	Lighting Columns refer to drawing SEAM-AGL-ZZ-XX-DR-E-24002
	Rumble Strip
	EV Charger
	EV Bays [infrastructure provided for Phase 1]
	EV Bays [infrastructure provided for Phase 2]

REVISION P28	DATE 14.02.25	BY YL	CHECKED PA
Rumble strip added to car park entrance; granite strips in front of DMC updated; Quadrants kerb added; red line boundary updated			
REVISION P27	DATE 11.02.25	BY YL	CHECKED PA
Tree removed from south entrance to avoid underground structure; bollards to south entrance moved			
REVISION P26	DATE 06.02.25	BY YL	CHECKED PA
Tactile paving updated accordingly to comments received			
REVISION P25	DATE 06.02.25	BY YL	CHECKED PA
Gravel added to existing wall; Hedge and fence removed to west boundary; paving updated to southern entrance; line hatch added to NWR bay; bollards to service route exit moved; mollard removed from northern EV parking; rumble strip added			
REVISION P24	DATE 04.02.25	BY YL	CHECKED PA
EV chargers added; rumble strips added; accessible EV bay size revised; tactile paving on cell web removed; service bay added; knee rail to northern entrance removed; pedestrian path width reduced to 2m; Trief kerb added; paving to service route updated			
REVISION P23	DATE 10.01.25	BY YL	CHECKED PA
Grass in raised planter changed to ornamental planting; key updated; Light column added			
REVISION P22	DATE 20.12.24	BY YL	CHECKED PA
Bollards around substation removed; pathway and tactile paving added to car park; road marking updated; existing no-work area updated; bollards spacing revised to 1.2m maximum; bollards symbols changed to match specification			
REVISION P21	DATE 12.12.24	BY YL	CHECKED PA
Updated phase 1 and 2 EV bays; Speed table removed; east planting area updated accordingly to comments; planting type keys updated			
REVISION P20	DATE 12.11.24	BY YL	CHECKED PA
EV charging points removed; key updated to show phase 1 and 2 EV bays; ticket machine added			
REVISION P19	DATE 16.10.24	BY YL	CHECKED PA
Existing cycle parking area revised to be retained			
CLIENT	Willmott Dixon		

PROJECT	The Seam, Barnsley		
TITLE	Landscape Site Plan		
DWG No.	SEAM-ONE-ZZ-XX-DR-L-00001	REV	P28
STATUS	PRELIMINARY		
SCALE	1:500	@	A1
DATE	20.02.24	DRN BY	TL



Appendix B
Utilities Survey



Background topographical information used for this drawing is from drawing 'P24-00416-MET-EXT-XX-TOP-M2-G' dated 23/05/24.

Datum : OS Level Datum.

Using the OS GPS Network and applying OSGM15 National Geoid Model to obtain local area corrections

This drawing and information contained within is issued in confidence and is the copyright of Met Geo Environmental Ltd. If the topographical information or base mapping has been supplied by a Third Party, Met Geo Environmental Ltd is not liable for any inaccuracies contained therein. If inaccuracies to supplied mapping have been identified (and Met Geo Environmental Ltd have not been commissioned to rectify these inaccuracies) these will be highlighted in the accompanying report. Disclosure of this information to Third Parties and unauthorised copying or replication of this data without approval is forbidden.

The data presented in this drawing have been collected using a combination of the following: consultation of utility asset information, visual survey & inspection of manholes and inspection chambers; electromagnetic location techniques; ground penetrating radar, and, where applicable, trial hole excavations. These techniques have been deployed in accordance with the BSI PAS128 Specification for the Detection, Verification and Location of Underground Utilities using the search methodologies indicated on sheet PAS1 and described in the accompanying report. This drawing should be used in conjunction with the accompanying report which details the limitations of these techniques and any hindering factors encountered during this survey.

Unless otherwise stated, all services shown on this plan have been surveyed using approved detectors and the connections between inspection chambers, if unable to be detected, are generally assumed to be direct unless there are indications to the contrary. The detection confidence for each utility segment is depicted in line with the PAS128 scheme outlined below. Information depicted as QL-C or QL-D cannot be guaranteed as it is based on utility record information which can be inaccurate and incomplete.

The service routes depicted may reflect the routes of multiple cables or pipes. It is not always possible to differentiate between buried construction features, utilities and other subsurface linear features due to the inherent limitations of the techniques employed. It is therefore possible that some features shown are not utility related. Due to the limitations of electromagnetic techniques all utility identifications should be treated with caution and verified prior to use during design or building works.

If the location or depth of services or features is of particular importance to a project then it is recommended that discussions are held with Met Geo Environmental Ltd. regarding any further considerations that may have arisen due to the nature and methods employed to ascertain the location data presented as part of this survey.

Please note that not all buried pipes, cables and ducts can be detected and mapped in consideration of their depth, location, material type, geology and proximity to other utilities. Even an appropriate and professionally executed survey may not be able to achieve a 100% detection rate. Where an area of utilities is likely to affect client project requirements, it is strongly recommended that PAS128 Type A verification surveys are carried out to confirm the position or absence of utilities where this is critical to the scheme.

No utility mapping survey can be considered a 100% accurate depiction of the sub-surface environment, and the use of these drawings does not remove the requirement for the use of safe digging techniques at all times, in line with the requirements of HSG47 and current CDM regulations.

Rev	Date	Drawn	Description	Check
-----	------	-------	-------------	-------

Met
GEO ENVIRONMENTAL

Southgate House
Pontefract Road
Stourton
Leeds
West Yorkshire
LS10 1SW

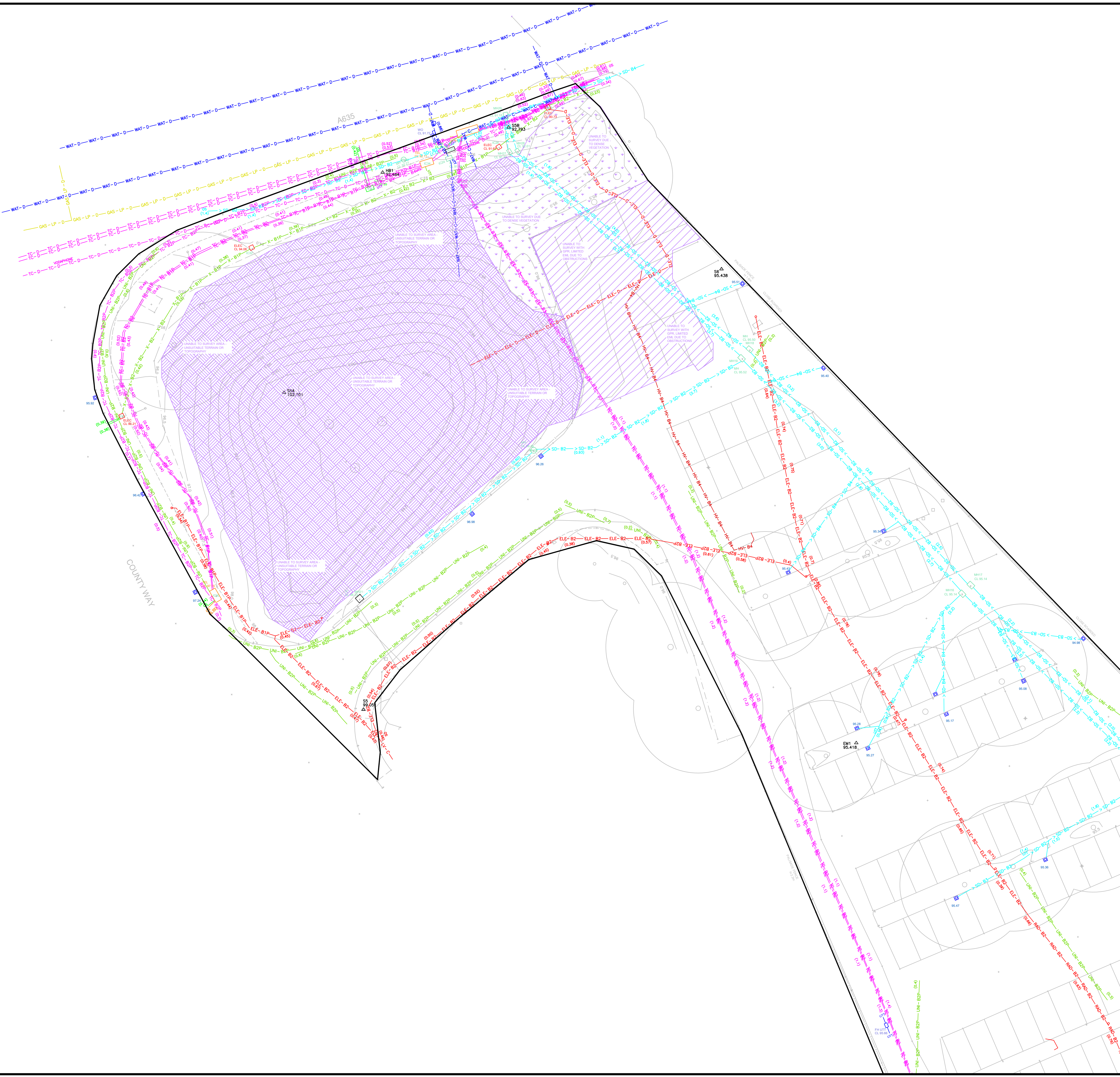
T: +44 [0] 1132 008 900
F: +44 [0] 1132 008 901
E: admin@metgeoenvironmental.com
W: www.metgeoenvironmental.com

Client
WILLMOTT DIXON CONSTRUCTION LIMITED

Site
County Way,
Barnsley, S70 2EQ

Title
UTILITY MAPPING
SURVEY

Surveyed	JA EM AP HB	Drawn	EM
Chk.	JPR	Date	28/05/2024 - 05/06/24
Scale	Job No	Sheet Size	Revision
1:200	P24-00416	A1	01
DWG Ref	Number	Originator	Zone
P24	00416	MET	EXT UMS
Year	ID	Type	Role
			Sheet
			001



SUB-SURFACE KEY

DRAINAGE

- > FD-B1P - FOUL
- > SD-B3 - SURFACE
- > RW-B2 - RISING MAIN
- GAS
- GAS-B2P - GAS (UNSPECIFIED)
- GAS-MP-D - MEDIUM PRESSURE
- ELECTRICITY
- ELE-B1 - ELECTRICITY CABLE(S) (UNSPECIFIED)
- HV-B1P - HIGH VOLTAGE
- TL-B3 - TRAFFIC LIGHT/CONTROL CABLE(S)
- PIPES, DUCTS & PIPELINES
- HEAT-B2 - DISTRICT HEATING/STEAM PIPE(S)
- FL-B1 - FUEL PIPELINE
- PIPE-B3 - UNIDENTIFIED PIPEWORK
- TELECOMMUNICATIONS
- WATER
- WAT-B1 - WATER SERVICE (UNSPECIFIED)
- WAT-MP-B3P - MEDIUM PRESSURE
- WAT-RAW-C - RAW WATER
- UNIDENTIFIED
- UNI-B1 - UNIDENTIFIED POTENTIAL UTILITY
- PWR-B2 - POWER (LINEAR RESPONSE DETECTED USING 'POWER' MODE OF EM LOCATOR - INDUCED 50 HZ GROUND CURRENTS)
- RAD-B3 - RADIO (LINEAR RESPONSE DETECTED USING 'RADIO' MODE OF EM LOCATOR - RE-RADIATED VLF RADIO WAVES)
- ELE-B2 - APPROXIMATE DEPTH BELOW GROUND LEVEL OF APPARATUS IN METRES

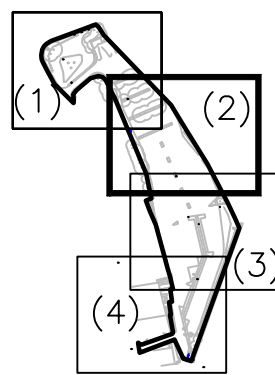
CONFIDENCE LEVELS

(D)	UNDETECTED	FROM SERVICE RECORDS ONLY
(C)	UNDETECTED	FROM SERVICE RECORDS ONLY - SUPPORTING EVIDENCE FROM VISUAL INSPECTION (UTILITY COVERS, SCARS, ETC.)
(B4)	ASSUMED	UNDETECTED BY REMOTE LOCATION METHODS
(B3)(B3P)	DETECTED	HORIZONTAL POSITION ONLY ±500mm
(B2)(B2P)	DETECTED	HORIZONTAL POSITION ±250mm
(B1)(B1P)	DETECTED	VERTICAL POSITION ±40% OF DEPTH
(A)	VERIFIED	SERVICE HAS BEEN VISUALLY VERIFIED AND SURVEYED USING APPROPRIATE METHODS ±50mm IN POSITION & DEPTH
*	SEE REPORT FOR FULL DISCUSSION OF MAXIMUM ACHIEVABLE ACCURACY	
(P)	SUFFIX DENOTES DATA HAS BEEN PROCESSED POST COLLECTION	

OTHER POTENTIAL BURIED FEATURES

- AREA OF ELEVATED GPR AMPLITUDE RESPONSE CAUSED BY SUB-SURFACE FEATURE OR DISTURBED GROUND. MAY POSSIBLY BE RELATED TO UTILITY APPARATUS OR SERVICE TRENCH.
- AREA STRONG, REGULARLY SPACED GPR RESPONSES - LIKELY RELATED TO REINFORCED CONCRETE BUT SOMETIMES BURIED STONE SETTS (OR SIMILAR) MAY GIVE ANALOGOUS RESPONSE
- AREA OF MULTIPLE HYPERBOLA RESPONSES CAUSED BY SUB-SURFACE FEATURES. MAY POSSIBLY BE RELATED TO DISTURBED GROUND WITH CONCENTRATION OF DISCRETE REFLECTORS, AREAS OF TREE ROOTS, ANIMAL BURROWING OR SIMILAR.

LAYOUT KEY



Background topographical information used for this drawing is from drawing 'P24-00416-MET-EXT-XX-TOP-M2-G' dated 23/05/24.

Datum : OS Level Datum.
Using the OS GPS Network and applying OSGM15 National Geoid Model to obtain local area corrections

This drawing and information contained within is issued in confidence and is the copyright of Met Geo Environmental Ltd. If the topographical information or base mapping has been supplied by a Third Party, Met Geo Environmental Ltd is not liable for any inaccuracies contained therein. If inaccuracies to supplied mapping have been identified (and Met Geo Environmental Ltd have not been commissioned to rectify these inaccuracies) these will be highlighted in the accompanying report. Disclosure of this information to Third Parties and unauthorised copying or replication of this data without approval is forbidden.

The data presented in this drawing have been collected using a combination of the following: consultation of utility asset information, visual survey & inspection of manholes and inspection chambers; electromagnetic location techniques; ground penetrating radar, and, where applicable, trial hole excavations. These techniques have been deployed in accordance with the BSI PAS128 Specification for the Detection, Verification and Location of Underground Utilities using the search methodologies indicated on sheet PAS1 and described in the accompanying report. This drawing should be used in conjunction with the accompanying report which details the limitations of these techniques and any hindering factors encountered during this survey.

Unless otherwise stated, all services shown on this plan have been surveyed using approved detectors and the connections between inspection chambers, if unable to be detected, are generally assumed to be direct unless there are indications to the contrary. The detection confidence for each utility segment is depicted in line with the PAS128 scheme outlined below. Information depicted as QL-C or QL-D cannot be guaranteed as it is based on utility record information which can be inaccurate and incomplete.

The service routes depicted may reflect the routes of multiple cables or pipes. It is not always possible to differentiate between buried construction features, utilities and other subsurface linear features due to the inherent limitations of the techniques employed. It is therefore possible that some features shown are not utility related. Due to the limitations of electromagnetic techniques all utility identifications should be treated with caution and verified prior to use during design or building works.

If the location or depth of services or features is of particular importance to a project then it is recommended that discussions are held with Met Geo Environmental Ltd. regarding any further considerations that may have arisen due to the nature and methods employed to ascertain the location data presented as part of this survey.

Please note that not all buried pipes, cables and ducts can be detected and mapped in consideration of their depth, location, material type, geology and proximity to other utilities. Even an appropriate and professionally executed survey may not be able to achieve a 100% detection rate. Where an area of utilities is likely to affect client project requirements, it is strongly recommended that PAS128 Type A verification surveys are carried out to confirm the position or absence of of utilities where this is critical to the scheme.

No utility mapping survey can be considered a 100% accurate depiction of the sub-surface environment, and the use of these drawings does not remove the requirement for the use of safe digging techniques at all times, in line with the requirements of HSG47 and current CDM regulations.

-	06/06/2024	EM	--	--
Rev	Date	Drawn	Description	Check



Southgate House
Pontefract Road T: +44 [0] 1132 008 900
Stourton F: +44 [0] 1132 008 901
Leeds E: admin@metgeoenvironmental.com
West Yorkshire W: www.metgeoenvironmental.com
LS10 1SW

Client
WILLMOTT DIXON CONSTRUCTION LIMITED

Site
County Way,
Barnsley, S70 2EQ

Title
UTILITY MAPPING
SURVEY

Surveyed	JA EM AP HB	Drawn	EM
Chk.	JPR	Date	05/06/24

Scale	Job No	Sheet Size	Revision
1:200	P24-00416	A1	01

DWG Ref	Year	Number	Originator	Zone	ID	Type	Role	Sheet
P24	2024	00416	MET	EXT	UMS	M2	GU	002

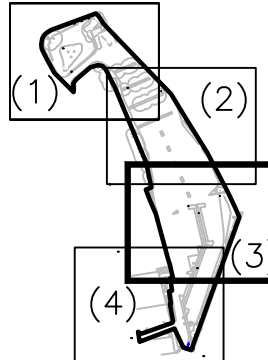
Direction
of North



SUB-SURFACE KEY

DRAINAGE	> FD-B1P	FOUL	> CD-B2P	COMBINED
	> SD-B3	SURFACE	> D-B3P	UNIDENTIFIED
	> RM-B2	RIISING MAIN	> OF-B4	OVERFLOW
GAS	GAS-B2P	GAS (UNSPECIFIED)	GAS-IP-B2	LOW PRESSURE
	GAS-MP-D	MEDIUM PRESSURE	GAS-IP-B4	INTERMEDIATE PRESSURE
			GAS-HP-B1P	HIGH PRESSURE
ELECTRICITY	ELE-B1	ELECTRICITY CABLE(S) (UNSPECIFIED)	LV-B2P	LOW VOLTAGE
	HV-B1P	HIGH VOLTAGE	CCTV-B2	CCTV CABLE(S)
	TL-B3	TRAFFIC LIGHT/CONTROL CABLE(S)		
PIPES, DUCTS & PIPELINES	HEAT-B2	DISTRICT HEATING/ STEAM PIPE(S)	HAC-B2P	ROUTE CONTAINING HEATING PIPE(S) & CABLE(S)
	FL-B1	FUEL PIPELINE	OIL-B2	OIL PIPELINE
	PIPE-B3	UNIDENTIFIED PIPEWORK	X-B1P	EMPTY DUCT
	TC-B1	TELECOMMUNICATIONS CABLE(S)		
TELECOMMUNICATIONS				
WATER	WAT-B1	WATER SERVICE (UNSPECIFIED)	WAT-LP-B1P	LOW PRESSURE
	WAT-MP-B3P	MEDIUM PRESSURE	WAT-HP-B2	HIGH PRESSURE
	WAT-RAW-C	RAW WATER	WAT-PVT-A	PRIVATE
UNIDENTIFIED	UNI-B1	UNIDENTIFIED POTENTIAL UTILITY	CAB-B2P	UNIDENTIFIED CABLE
	PWR-B2	POWER (LINEAR RESPONSE DETECTED USING 'POWER' MODE OF EM LOCATOR - INDUCED 50 Hz GROUND CURRENTS)		
	RAD-B3	RADIO (LINEAR RESPONSE DETECTED USING 'RADIO' MODE OF EM LOCATOR - RE-RADIATED VLF RADIO WAVES)		
	ELC-B2	APPROXIMATE DEPTH BELOW GROUND LEVEL OF APPARATUS IN METRES		
CONFIDENCE LEVELS	(D)	UNDETECTED	FROM SERVICE RECORDS ONLY	
	(C)	UNDETECTED	FROM SERVICE RECORDS ONLY - SUPPORTING EVIDENCE FROM VISUAL INSPECTION (UTILITY COVERS, SCARS, ETC.)	
	(B4)	ASSUMED	UNDETECTED BY REMOTE LOCATION METHODS	
	(B3)/(B3P)	DETECTED	HORIZONTAL POSITION ONLY ±500mm	
	(B2)/(B2P)	DETECTED	HORIZONTAL POSITION ±250mm	
	(B1)/(B1P)	DETECTED	VERTICAL POSITION ±15% OF DEPTH	
	(A)	VERIFIED	VERTICAL POSITION ±15% OF DEPTH	
	*	SEE REPORT FOR FULL DISCUSSION OF MAXIMUM ACHIEVABLE ACCURACY		
	(P)	SUFFIX DENOTES DATA HAS BEEN PROCESSED POST COLLECTION		
UTR	UNABLE TO RAISE	UTR	UNABLE TO RAISE	UTR
UTT	UNABLE TO TRACE	UTT	UNABLE TO TRACE	UTT
UTM	UNABLE TO MEASURE	UTM	UNABLE TO MEASURE	UTM
OS	SERVICE EXTENDS OFF SITE	OS	SERVICE EXTENDS OFF SITE	OS
Ø	DIAMETER OF PIPE OR DUCT	Ø	DIAMETER OF PIPE OR DUCT	Ø
	APPROXIMATE CHAMBER EXTENTS		EXTENTS OF UTILITY MAPPING SURVEY	
	TRENCH SCAR / SURFACE SCAR		UNABLE TO SURVEY AREA DUE TO DENSE VEGETATION	
	UNABLE TO SURVEY AREA DUE TO INABILITY TO ACCESS AREA		UNABLE TO SURVEY AREA DUE TO OBSTRUCTIONS	
	CABLE DUCT SHOWING NUMBER OF CABLES		UNABLE TO SURVEY AREA DUE TO TERRAIN/TOPOGRAPHY	
	WINSOR TRAP/INTERCEPTOR ON CHAMBER OUTFLOW		BACKDROP (INTERNAL/EXTERNAL) ON CHAMBER INFLOW	
OTHER POTENTIAL BURIED FEATURES				
	AREA OF ELEVATED GPR AMPLITUDE RESPONSE CAUSED BY SUB-SURFACE FEATURE OR DISTURBED GROUND. MAY POSSIBLY BE RELATED TO UTILITY APPARATUS OR SERVICE TRENCH			
	AREA STRONG, REGULARLY SPACED GPR RESPONSES - LIKELY RELATED TO REINFORCED CONCRETE BUT SOMETIMES BURIED STONE SETTS (OR SIMILAR) MAY GIVE ANALOGOUS RESPONSE			
	AREA OF MULTIPLE HYPERBOLA RESPONSES CAUSED BY SUB-SURFACE FEATURES. MAY POSSIBLY BE RELATED TO DISTURBED GROUND WITH CONCENTRATION OF DISCRETE REFLECTORS, AREAS OF TREE ROOTS, ANIMAL BURROWING OR SIMILAR.			

LAYOUT KEY



Background topographical information used for this drawing is from drawing 'P24-00416-MET-EXT-XX-TOP-M2-G' dated 23/05/24.
Datum : OS Level Datum.
Using the OS GPS Network and applying OSGM15 National Geoid Model to obtain local area corrections

This drawing and information contained within is issued in confidence and is the copyright of Met Geo Environmental Ltd. If the topographical information or base mapping has been supplied by a Third Party, Met Geo Environmental Ltd is not liable for any inaccuracies contained therein. If inaccuracies to supplied mapping have been identified (and Met Geo Environmental Ltd have not been commissioned to rectify these inaccuracies) these will be highlighted in the accompanying report. Disclosure of this information to Third Parties and unauthorised copying or replication of this data without approval is forbidden.

The data presented in this drawing have been collected using a combination of the following: consultation of utility asset information, visual survey & inspection of manholes and inspection chambers; electromagnetic location techniques; ground penetrating radar, and, where applicable, trial hole excavations. These techniques have been deployed in accordance with the BSI PAS128 Specification for the Detection, Verification and Location of Underground Utilities using the search methodologies indicated on sheet PAS1 and described in the accompanying report. This drawing should be used in conjunction with the accompanying report which details the limitations of these techniques and any hindering factors encountered during this survey.

Unless otherwise stated, all services shown on this plan have been surveyed using approved detectors and the connections between inspection chambers, if unable to be detected, are generally assumed to be direct unless there are indications to the contrary. The detection confidence for each utility segment is depicted in line with the PAS128 scheme outlined below. Information depicted as QL-C or QL-D cannot be guaranteed as it is based on utility record information which can be inaccurate and incomplete.

The service routes depicted may reflect the routes of multiple cables or pipes. It is not always possible to differentiate between buried construction features, utilities and other subsurface linear features due to the inherent limitations of the techniques employed. It is therefore possible that some features shown are not utility related. Due to the limitations of electromagnetic techniques all utility identifications should be treated with caution and verified prior to use during design or building works.

If the location or depth of services or features is of particular importance to a project then it is recommended that discussions are held with Met Geo Environmental Ltd. regarding any further considerations that may have arisen due to the nature and methods employed to ascertain the location data presented as part of this survey.

Please note that not all buried pipes, cables and ducts can be detected and mapped in consideration of their depth, location, material type, geology and proximity to other utilities. Even an appropriate and professionally executed survey may not be able to achieve a 100% detection rate. Where an area of utilities is likely to affect client project requirements, it is strongly recommended that PAS128 Type A verification surveys are carried out to confirm the position or absence of of utilities where this is critical to the scheme.

No utility mapping survey can be considered a 100% accurate depiction of the sub-surface environment, and the use of these drawings does not remove the requirement for the use of safe digging techniques at all times, in line with the requirements of HSG47 and current CDM regulations.

-	06/06/2024	EM	--	--
Rev	Date	Drawn	Description	Check



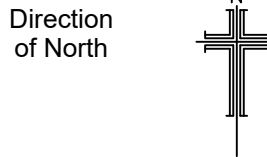
Southgate House
Pontefract Road T: +44 [0] 1132 008 900
Stourton F: +44 [0] 1132 008 901
Leeds E: admin@metgeoenvironmental.com
West Yorkshire W: www.metgeoenvironmental.com
LS10 1SW

Client
WILLMOTT DIXON CONSTRUCTION LIMITED

Site
County Way,
Barnsley, S70 2EQ

Title
UTILITY MAPPING
SURVEY

Surveyed	JA EM AP HB	Drawn	EM
Chk.	JPR	Date	28/05/2024 - 05/06/24
Scale	Job No	Sheet Size	Revision
1:200	P24-00416	A1	01
DWG Ref	Year	Number	Originator
P24	00416	MET	EXT UMS
			M2 GU 003



SUB-SURFACE KEY

DRAINAGE

- FD-B1P Foul
- SD-B3 Surface
- RM-B2 Rising Main
- GAS-B2P Gas (Unspecified)
- GAS-MP-M Medium Pressure
- ELECTRICITY
- ELC-B1 Electricity Cable(s) (Unspecified)
- HV-B1P High Voltage
- TL-B3 Traffic Light/Control Cable(s)
- PIPES, DUCTS & PIPELINES
- HEAT-B2 District Heating/Steam Pipe(s)
- FL-B1 Fuel Pipeline
- PIPE-B3 Unidentified Pipeline
- TELECOMMUNICATIONS
- WATER
- WAT-B1 Water Service (Unspecified)
- WAT-MP-B3P Medium Pressure
- WAT-RAW-C Raw Water
- UNIDENTIFIED
- UNI-B1 Unidentified Potential Utility
- PWR-B2 Power (Linear Response Detected Using 'Power' Mode of EM Locator - Induced 50 Hz Ground Currents)
- RAD-B3 Radio (Linear Response Detected Using 'Radio' Mode of EM Locator - Re-Radiated VLF Radio Waves)
- ELC-B2 Approximate Depth Below Ground Level of Apparatus in Metres

CONFIDENCE LEVELS

(D)	UNDETECTED	FROM SERVICE RECORDS ONLY
(C)	UNDETECTED	FROM SERVICE RECORDS ONLY SUPPORTING EVIDENCE FROM VISUAL INSPECTION (UTILITY COVERS, SCARS, ETC.)
(B4)	ASSUMED	UNDETECTED BY REMOTE LOCATION METHODS
(B3)(B3P)	DETECTED	HORIZONTAL POSITION ONLY ±500mm
(B2)(B2P)	DETECTED	HORIZONTAL POSITION ±250mm
(B1)(B1P)	DETECTED	VERTICAL POSITION ±40% OF DEPTH
(A)	VERIFIED	HORIZONTAL POSITION ±150mm*
(P)	SEE REPORT FOR FULL DISCUSSION OF MAXIMUM ACHIEVABLE ACCURACY	VERTICAL POSITION ±15% OF DEPTH

* SERVICE HAS BEEN VISUALLY VERIFIED AND SURVEYED USING APPROPRIATE METHODS ±50mm IN POSITION & DEPTH

(P) SEE REPORT FOR FULL DISCUSSION OF MAXIMUM ACHIEVABLE ACCURACY

SUFFIX DENOTES DATA HAS BEEN PROCESSED POST COLLECTION

UTR	UNABLE TO RAISE	mg	METRES BELOW GROUND LEVEL
UT	UNABLE TO TRACE	CL	COVER LEVEL
UTM	UNABLE TO MEASURE	ME	MEASUREMENT ESTIMATED
Ø	SERVICE EXTENDS OFF SITE	SL	SOFFIT LEVEL OF PIPE/DUCT
Ø	DIAMETER OF PIPE OR DUCT	IL	INVERT LEVEL OF PIPE/DUCT

APPROXIMATE CHAMBER EXTENTS

TRENCH SCAR / SURFACE SCAR

UNABLE TO SURVEY AREA DUE TO DENSE VEGETATION

UNABLE TO SURVEY AREA DUE TO OBSTRUCTIONS

CABLE DUCT SHOWING NUMBER OF CABLES

UNABLE TO SURVEY AREA DUE TO TERRAIN/TOPOGRAPHY

WINSOR TRAP/INTERCEPTOR ON CHAMBER OUTFLOW

BACKDROP (INTERNAL/EXTERNAL) ON CHAMBER INFLOW

OTHER POTENTIAL BURIED FEATURES

- AREA OF ELEVATED GPR AMPLITUDE RESPONSE CAUSED BY SUB-SURFACE FEATURE OR DISTURBED GROUND. MAY POSSIBLY BE RELATED TO UTILITY APPARATUS OR SERVICE TRENCH.
- AREA STRONG, REGULARLY SPACED GPR RESPONSES - LIKELY RELATED TO REINFORCED CONCRETE BUT SOMETIMES BURIED STONE SETTS (OR SIMILAR) MAY GIVE ANALOGOUS RESPONSE
- AREA OF MULTIPLE HYPERBOLA RESPONSES CAUSED BY SUB-SURFACE FEATURES. MAY POSSIBLY BE RELATED TO DISTURBED GROUND WITH CONCENTRATION OF DISCRETE REFLECTORS, AREAS OF TREE ROOTS, ANIMAL BURROWING OR SIMILAR.

WITH EXAMPLE CONFIDENCE

- CD-B2P COMBINED
- D-B3P UNIDENTIFIED
- OF-B4 OVERFLOW
- GAS-IP-B2 LOW PRESSURE
- GAS-IP-B4 INTERMEDIATE PRESSURE
- GAS-HP-B1P HIGH PRESSURE
- LV-B2P LOW VOLTAGE
- CCTV-B2 CCTV CABLE(S)
- ROUTE CONTAINING HEATING PIPE(S) CABLE(S)
- OIL-B2 OIL PIPELINE
- X-B1P EMPTY DUCT
- TELECOMMUNICATIONS CABLE(S)
- WAT-LP-B1P LOW PRESSURE
- WAT-HP-B2 HIGH PRESSURE
- WAT-PVT-A PRIVATE
- CAB-B2P UNIDENTIFIED CABLE

Appendix C

Yorkshire Water Asset Map

YORKSHIRE WATER PROTECTION OF MAINS AND SERVICES

1. The position of Yorkshire Water Services Ltd (YWS) apparatus shown on the existing mains record drawing(s) indicates the **general** position and nature of our apparatus and the accuracy of this information cannot be guaranteed. Any damage to YWS apparatus as a result of your works may have serious consequences and you will be held responsible for all costs incurred. Prior to commencing major works, the exact location of apparatus must be determined on site, if necessary by excavating trial holes. The actual position of such apparatus and that of service pipes which have not been indicated must be established on site by contacting the Customer Helpline on 0845 124 24 24 for both water and sewerage.
2. The public sewer and water network is lawfully retained in its existing position and the sewerage and water undertaker is entitled to have it remain so without any disturbance. The provisions of section 159 of the Water Industry Act 1991 provides that the undertaker may "inspect, maintain, adjust, repair or alter" the network. Those rights are given to enable the undertaker to perform its statutory duties. Any development of the land or any other action that unacceptably hindered the exercise of those rights would be unlawful. The provisions contained in Section 185 of the Water Industry Act 1991 state that where it is reasonable to do so, a person may require the water supply undertaker to alter or remove a pipe where it is necessary to enable that person to carry out a proposed change of use of the land. The provisions contained in Section 185 also require the person making the request to pay the full cost of carrying out the necessary works.
3. Ground levels over existing YWS apparatus are to be maintained. Sewers in highways will **generally** be laid to give 1200mm of cover from finished ground level working to kerb races, other permanent identification of the limits of the road or to an agreed line and level. Substantial increases or decreases to this 1200mm depth of cover will result in the sewer being re-laid at your expense. Water mains and services will **generally** be laid with a minimum of 750mm depth of cover however some mains and services usually those installed over 50 years ago may have less ground cover.
4. If surface levels are to be decreased / increased significantly the effects on existing water supply apparatus will be carefully considered and if any alterations are necessary, the costs of the alterations will be recharged to you in full. Outlets on fire hydrants must be no more than 300mm below the new levels and all surface boxes must be adjusted as part of the scheme.
5. To enable future repair works to be carried out without hindrance; any pipe, cable, duct, etc. installed parallel to a water main or service pipe should not be installed directly over or within 300mm of a water main or service pipe or 1000mm of a waste water asset. Where a pipe, cable, duct, etc. crosses a main or service it should preferably cross perpendicular or at an angle of no less than 45° and with a minimum clearance of 150mm. These requirements apply to activities within an existing highway and are relevant to the installation of pipes, cables, ducts, etc. up to and including 250mm in diameter (*see illustration below*). Necessary protection measures for installations greater than 250mm in diameter and/or in private land will need to be agreed on an individual basis. Installations within a new development site must comply with the National Joint Utilities Group publication Volume 2: NJUG Guidelines On The Positioning Of Underground Utilities Apparatus For New Development Sites.
6. All excavation works near to YW apparatus should be by hand digging only.
7. Backfilling with a suitable material to a minimum 300mm above YW apparatus is required.
8. Adequate support must be provided where any works pass under YW apparatus.
9. Jointing chambers, lighting columns and other structures must be installed in such a way that future repair or maintenance works to YW apparatus will not be hindered.
10. Apparatus such as; railings, sign posts, etc. must not be placed in such a way that they prevent access to or full operation of controlling valves, hydrants or similar apparatus. YWS surface boxes must not be covered or buried. Any adjustment, alteration or replacement of manhole covers must be agreed on site prior to the commencement of the works with a YWS Inspector who may be contacted via our Call Centre on 0845 124 24 24.
11. Explosives shall not be used within 100 metres of any Yorkshire Water Services apparatus or installations.
12. Vibrating plant should not be used directly over any apparatus. Movement or operation by vehicles or heavy plant is not to be permitted in the immediate vicinity of YWS plant or apparatus unless there has been prior consultation and, if necessary, adequate protection provided without cost to YWS.
13. **Under no circumstances** should thrust boring or similar trenchless techniques commence until the actual position of the Company's mains/services along the proposed route have been confirmed by trial holes.
14. Any alterations to the highway should be notified following the procedures outlined in the New Road and Street Works Act 1991 Code of Practice; Measures Necessary Where Apparatus Is Affected By Major Works (Diversionary Works).
15. You will be held responsible for any damage or loss to YWS apparatus during and after completion of work, caused by yourselves, your servant or agent. Any damage caused or observed to YWS plant or apparatus should be immediately reported to YWS. Should YW incur any costs as a result of non-compliance with the above, all costs will be rechargeable in full.
16. You should ensure that nothing is done on the site to prejudice the safety or operation of YWS employees, plant or apparatus.
17. In accordance with the New Roads and Street Works Act 1991, Chapter 22, Part 3, Section 80. The location of any identified YW asset "which is not marked, or is wrongly marked, on the records made available" should be communicated back to Yorkshire Water. The location of the apparatus should be identified on copies of the supplied plans which should be returned to Yorkshire Water (Asset Records Team) with photographic supporting evidence where possible.
18. The Government has decided that responsibility for private sewers serving two or more properties and lateral drains (the section of pipe beyond the boundary of a single property, connecting it to the public sewer) will be transferred to the water companies on Oct 1 2011.

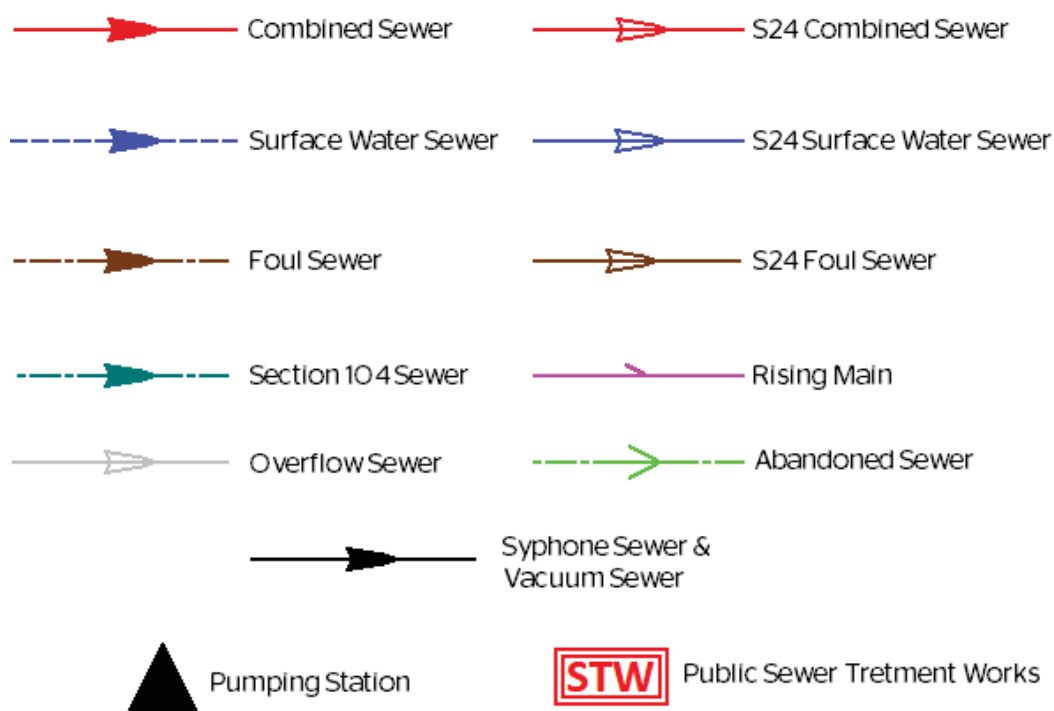
Private pumping stations will also transfer during the period 1 October 2011 – 1 Oct 2016. Records of these assets may not yet be shown on the existing mains record drawing(s). If you encounter any of these assets you must inform Yorkshire Water Services Ltd (YWS).

19. Please note that the information supplied on the enclosed plans is reproduced from Ordnance Survey material with the permission of the Ordnance Survey on behalf of the Controller of Her Majesty's Stationery Office, © Crown Copyright. Unauthorised reproduction infringes Crown Copyright and may lead to prosecution or civil proceedings. Licence Number 1000019559.
20. This information is for guidance only and the position and depth of any YW apparatus is approximate only. Likewise, the nature and condition of any YW apparatus cannot be guaranteed. YW has no responsibility for recording the locations of privately owned apparatus. As of 1 October 2011, there may be some lateral drains and/or public sewers which are not documented on YW records but may still be present. For the avoidance of doubt, this information is not a substitute for appropriate professional and/or legal advice. YW accepts no responsibility for any inaccuracy or omissions in this information. The actual position of YW apparatus must be determined on site by excavating trial holes by hand. YW requires a minimum of two working days' written notice of the intention to excavate any trial holes before any excavation can be undertaken. If there are any queries in this respect please contact Yorkshire Water on 0845 124 24 24.

Property Identifier

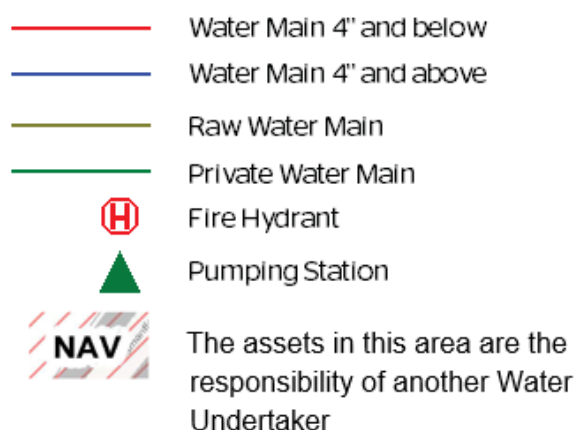


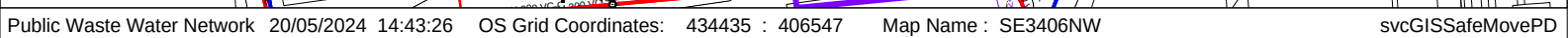
Sewer Legend



Please note that the direction of flow arrows may not always appear depending on the scale of the map.

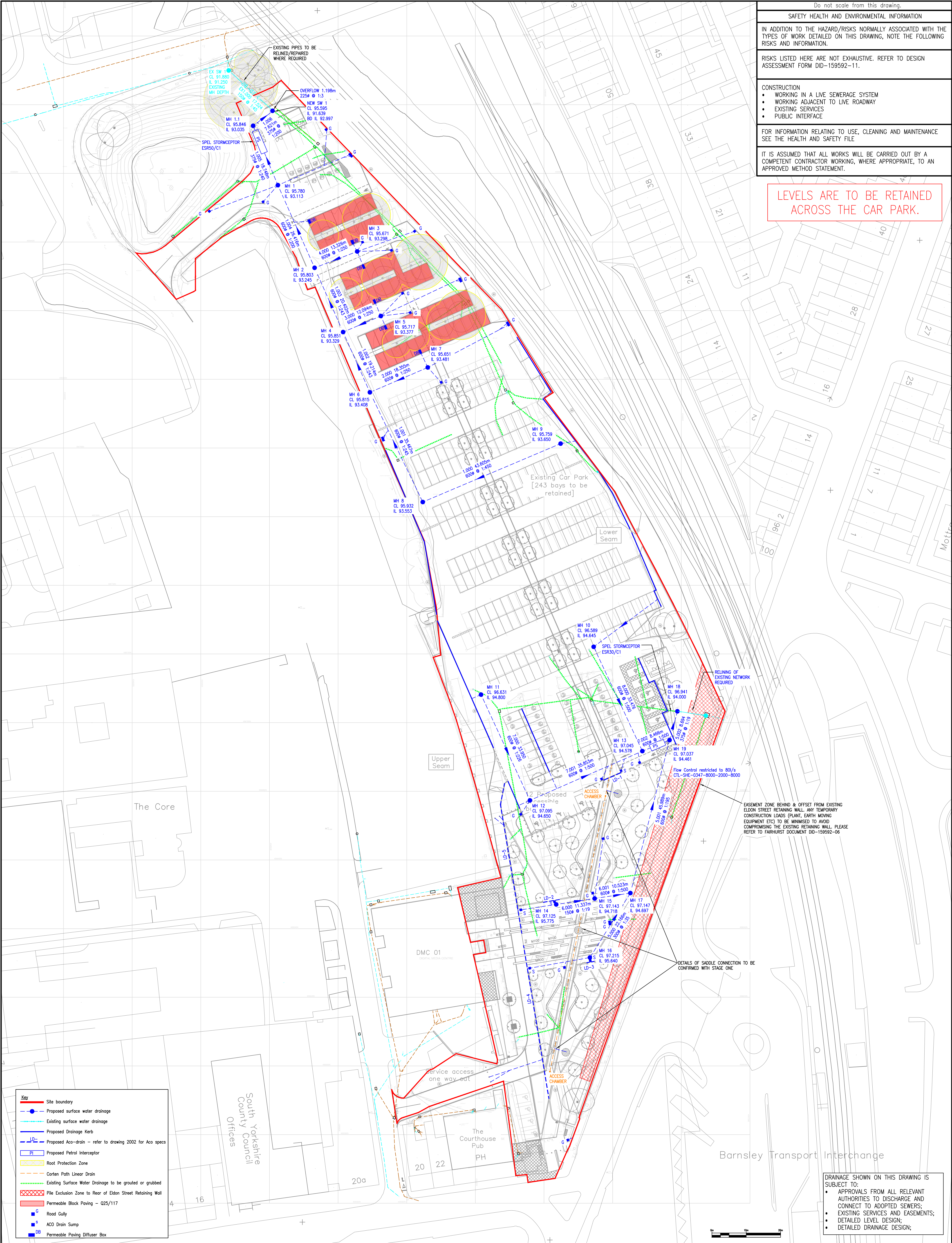
Water Legend





Appendix D

Proposed Drainage Strategy



Do not scale from this drawing.

SAFETY HEALTH AND ENVIRONMENTAL INFORMATION

IN ADDITION TO THE HAZARD/RISKS NORMALLY ASSOCIATED WITH THE TYPES OF WORK DETAILED ON THIS DRAWING, NOTE THE FOLLOWING RISKS AND INFORMATION.

RISKS LISTED HERE ARE NOT EXHAUSTIVE. REFER TO DESIGN ASSESSMENT FORM DID-159592-11.

CONSTRUCTION

- WORKING IN A LIVE SEWERAGE SYSTEM
- WORKING ADJACENT TO LIVE ROADWAY
- EXISTING SERVICES
- PUBLIC INTERFACE

FOR INFORMATION RELATING TO USE, CLEANING AND MAINTENANCE SEE THE HEALTH AND SAFETY FILE

IT IS ASSUMED THAT ALL WORKS WILL BE CARRIED OUT BY A COMPETENT CONTRACTOR WORKING, WHERE APPROPRIATE, TO AN APPROVED METHOD STATEMENT.

LEVELS ARE TO BE RETAINED ACROSS THE CAR PARK.

EASEMENT ZONE BEHIND & OFFSET FROM EXISTING ELDON STREET RETAINING WALL. ANY TEMPORARY CONSTRUCTION LOADS (PLANT, EARTH MOVING EQUIPMENT ETC) TO BE MINIMISED TO AVOID COMPROMISING THE EXISTING RETAINING WALL. PLEASE REFER TO FAIRHURST DOCUMENT DID-159592-06

DETAILS OF SADDLE CONNECTION TO BE CONFIRMED WITH STAGE ONE

- Key**
- Site boundary
 - Proposed surface water drainage
 - Existing surface water drainage
 - Proposed Drainage Kurb
 - Proposed Aco-drain - refer to drawing 2002 for Aco specs
 - Proposed Petrol Interceptor
 - Root Protection Zone
 - Corten Path Linear Drain
 - Existing Surface Water Drainage to be grouted or grubbed
 - Pile Exclusion Zone to Rear of Eldon Street Retaining Wall
 - Permeable Block Paving - Q25/117
 - Road Gully
 - ACO Drain Sump
 - Permeable Paving Diffuser Box

Rev.	Date	Description	Drawn	Checked	Approved
P15	21/03/25	REVISED FOLLOWING COMMENTS FROM WDC	FM	MC	MC
P14	21/03/25	REVISED FOLLOWING WDC COMMENTS AND INTERNAL REVIEW.	FM	MC	MC
P13	20/03/25	DRAINAGE LAYOUT UPDATED TO REMOVE 150MM OVERFLOW PIPE. 1050mm PIPES REMOVED DISCHARGE RATES ALSO UPDATED.	FM	MC	JMM
P12	28/02/25	DRAINAGE REVISED TO UTILISE EXISTING OUTFALLS TO THE NORTH.	FM	JMM	JMM
P11	17/02/25	NEW SITE LAYOUT ADDED	HW	FM	JMM
P10	10/02/25	DRAINAGE LAYOUT UPDATED TO SUIT COMMENTS FROM WDC. EXTENT OF EXISTING MANHOLES INCREASED. BOLLARD CONNECTION ADDED. AS CLOUDED	FM	JMM	JMM
P09	17/01/25	SITE LAYOUT UPDATED, EXTENT OF ACO-DRAIN SHORTENED. AS CLOUDED. NBS SPEC NOTE 2 ADDED.	FM	JMM	JMM

Notes:

- This drawing is based on the following received information:
 - One Environment SEAM-ONE-ZZ-XX-DR-L-00001-P28 - Whole Site Plan
 - 1ST HORIZON Utility Survey HB-TS8855-01, 02, 03, 04
 - Met Geo Environment P24-00416-MET-EXT-XX-TOP-M3-G-1-30 Topographical Survey
- For NBS Specification references refer to One Environment document N1453-SEAM-ONE-ZZ-XX-SP-L-00001.

Client:

WILLMOTT DIXON

Project Title:

THE SEAM, BARNSELEY

Drawing Title:

PROPOSED DRAINAGE

FAIRHURST

1 Argrave Court, Barrack Road,
Newcastle-upon-Tyne, NE4 6DB
Tel: 0191 221 0505 Fax: 0844 381 4412

Scale at A1:
1:500

Status:
Planning

Drawn:
FM

Checked:
SKT

Approved:
SKT

Date:
14/08/24

Date:
14/08/24

Drawing No.:
SEAM-FHT-ZZ-XX-DR-C-02001

Revision:
P15

Appendix E
Causeway Flow Results

Design Settings

Rainfall Methodology	FSR	Maximum Time of Concentration (mins)	30.00
Return Period (years)	100	Maximum Rainfall (mm/hr)	50.0
Additional Flow (%)	45	Minimum Velocity (m/s)	1.00
FSR Region	England and Wales	Connection Type	Level Soffits
M5-60 (mm)	19.000	Minimum Backdrop Height (m)	0.200
Ratio-R	0.350	Preferred Cover Depth (m)	1.200
CV	0.750	Include Intermediate Ground	✓
Time of Entry (mins)	5.00	Enforce best practice design rules	x

Nodes

Name	Area (ha)	T of E (mins)	Cover Level (m)	Diameter (mm)	Easting (m)	Northing (m)	Depth (m)
MH9	0.131	5.00	95.759	1800	434644.832	406781.270	2.109
MH8	0.107	5.00	95.932	1800	434604.682	406764.259	2.379
MH7	0.073	5.00	95.651	1800	434606.128	406803.461	2.170
MH6	0.066	5.00	95.815	1800	434589.269	406796.202	2.407
MH5	0.050	5.00	95.717	1800	434592.624	406818.434	2.340
MH4	0.015	5.00	95.851	1800	434581.469	406813.762	2.522
MH3	0.033	5.00	95.671	1800	434585.568	406837.239	2.373
MH2	0.068	5.00	95.803	1800	434573.154	406832.393	2.558
MH1	0.070	5.00	95.780	1800	434562.462	406856.548	2.667
MH1.1	0.020	5.00	95.846	1500	434555.255	406873.855	2.811
NEW SW 1			95.595	1500	434561.332	406878.454	3.956
EX SW 1			91.880	1350	434548.132	406889.980	0.630
MH16	0.107	5.00	97.215	1500	434653.384	406631.578	1.575
MH14	0.030	5.00	97.125	1350	434643.550	406647.045	1.350
MH15	0.021	5.00	97.143	1950	434654.756	406648.764	2.425
MH17			97.147	1950	434665.157	406650.359	2.450
MH11	0.097	5.00	96.631	1800	434621.652	406708.164	1.831
MH12	0.103	5.00	97.095	1800	434635.892	406677.345	2.445
MH10	0.132	5.00	96.589	1800	434654.683	406722.085	1.944
MH13	0.053	5.00	97.045	1800	434668.744	406691.705	2.467
MH18			96.941	1950	434678.865	406703.295	2.941
MH19	0.000		97.037	2400	434676.582	406694.906	2.576
EX SW 3			96.680	1350	434687.131	406702.025	3.413

Links

Name	US Node	DS Node	Length (m)	ks (mm) / n	US IL (m)	DS IL (m)	Fall (m)	Slope (1:X)	Dia (mm)	T of C (mins)	Rain (mm/hr)
1.000	MH9	MH8	43.605	0.600	93.650	93.553	0.097	450.0	600	5.64	50.0
1.001	MH8	MH6	35.467	0.600	93.553	93.408	0.145	244.6	600	6.02	50.0
2.000	MH7	MH6	18.355	0.600	93.481	93.408	0.073	250.0	600	5.20	50.0
1.002	MH6	MH4	19.214	0.600	93.408	93.329	0.079	243.2	600	6.22	50.0

Name	Vel (m/s)	Cap (l/s)	Flow (l/s)	US Depth (m)	DS Depth (m)	Σ Area (ha)	Σ Add Inflow (l/s)
1.000	1.141	322.7	25.7	1.509	1.779	0.131	0.0
1.001	1.552	438.9	46.8	1.779	1.807	0.238	0.0
2.000	1.535	434.1	14.3	1.570	1.807	0.073	0.0
1.002	1.557	440.1	74.1	1.807	1.922	0.377	0.0

Links

Name	US Node	DS Node	Length (m)	ks (mm) / n	US IL (m)	DS IL (m)	Fall (m)	Slope (1:X)	Dia (mm)	T of C (mins)	Rain (mm/hr)
3.000	MH5	MH4	12.094	0.600	93.377	93.329	0.048	250.0	600	5.13	50.0
1.003	MH4	MH2	20.402	0.600	93.329	93.245	0.084	242.9	600	6.44	50.0
4.000	MH3	MH2	13.326	0.600	93.298	93.245	0.053	250.0	600	5.14	50.0
1.004	MH2	MH1	26.416	0.600	93.245	93.113	0.132	200.0	600	6.70	50.0
1.005	MH1	MH1.1	18.748	0.600	93.113	93.035	0.078	240.4	375	6.97	50.0
1.006	MH1.1	NEW SW 1	7.621	0.600	93.035	92.997	0.038	200.0	375	7.07	50.0
EX1.000	NEW SW 1	EX SW 1	17.524	0.600	91.639	91.250	0.389	45.0	150	7.26	50.0
5.002	MH19	MH18	8.694	0.600	94.461	94.000	0.461	18.9	375	5.99	50.0
5.000	MH16	MH17	22.166	0.600	95.640	94.997	0.643	34.5	300	5.14	50.0
6.000	MH14	MH15	11.337	0.600	95.775	95.167	0.608	18.6	150	5.08	50.0
6.001	MH15	MH17	10.523	0.600	94.718	94.697	0.021	501.1	600	5.24	50.0
5.001	MH17	MH19	45.989	0.600	94.697	94.461	0.236	194.9	600	5.68	50.0
7.000	MH11	MH12	33.950	0.600	94.800	94.650	0.150	226.3	600	5.35	50.0
7.001	MH12	MH13	35.853	0.600	94.650	94.578	0.072	500.0	600	5.90	50.0
8.000	MH10	MH13	33.476	0.600	94.645	94.578	0.067	500.0	600	5.52	50.0
7.002	MH13	MH19	8.466	0.600	94.578	94.461	0.117	72.4	600	5.95	50.0
5.003	MH18	EX SW 3	6.270	0.600	94.000	93.267	0.733	8.6	225	6.01	50.0

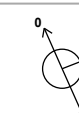
Name	Vel (m/s)	Cap (l/s)	Flow (l/s)	US Depth (m)	DS Depth (m)	Σ Area (ha)	Σ Add Inflow (l/s)
3.000	1.535	434.1	9.8	1.740	1.922	0.050	0.0
1.003	1.558	440.5	86.9	1.922	1.958	0.442	0.0
4.000	1.535	434.1	6.5	1.773	1.958	0.033	0.0
1.004	1.718	485.8	106.7	1.958	2.067	0.543	0.0
1.005	1.164	128.6	120.5	2.292	2.436	0.613	0.0
1.006	1.277	141.1	124.4	2.436	2.223	0.633	0.0
EX1.000	1.503	26.6	124.4	3.806	0.480	0.633	0.0
5.002	4.188	462.6	106.7	2.201	2.566	0.543	0.0
5.000	2.686	189.9	21.0	1.275	1.850	0.107	0.0
6.000	2.343	41.4	5.9	1.200	1.826	0.030	0.0
6.001	1.081	305.6	10.0	1.825	1.850	0.051	0.0
5.001	1.741	492.2	31.0	1.850	1.976	0.158	0.0
7.000	1.614	456.4	19.1	1.231	1.845	0.097	0.0
7.001	1.082	305.9	39.3	1.845	1.867	0.200	0.0
8.000	1.082	305.9	25.9	1.344	1.867	0.132	0.0
7.002	2.865	810.0	75.7	1.867	1.976	0.385	0.0
5.003	4.501	178.9	106.7	2.716	3.188	0.543	0.0

Pipeline Schedule

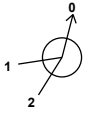
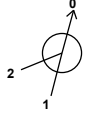
Link	Length (m)	Slope (1:X)	Dia (mm)	Link Type	US CL (m)	US IL (m)	US Depth (m)	DS CL (m)	DS IL (m)	DS Depth (m)
1.000	43.605	450.0	600	1 STANDARD	95.759	93.650	1.509	95.932	93.553	1.779
1.001	35.467	244.6	600	1 STANDARD	95.932	93.553	1.779	95.815	93.408	1.807
2.000	18.355	250.0	600	1 STANDARD	95.651	93.481	1.570	95.815	93.408	1.807
1.002	19.214	243.2	600	1 STANDARD	95.815	93.408	1.807	95.851	93.329	1.922
3.000	12.094	250.0	600	1 STANDARD	95.717	93.377	1.740	95.851	93.329	1.922
1.003	20.402	242.9	600	1 STANDARD	95.851	93.329	1.922	95.803	93.245	1.958
4.000	13.326	250.0	600	1 STANDARD	95.671	93.298	1.773	95.803	93.245	1.958
1.004	26.416	200.0	600	1 STANDARD	95.803	93.245	1.958	95.780	93.113	2.067
1.005	18.748	240.4	375	1 STANDARD	95.780	93.113	2.292	95.846	93.035	2.436
1.006	7.621	200.0	375	1 STANDARD	95.846	93.035	2.436	95.595	92.997	2.223
EX1.000	17.524	45.0	150	1 STANDARD	95.595	91.639	3.806	91.880	91.250	0.480
5.002	8.694	18.9	375	1 STANDARD	97.037	94.461	2.201	96.941	94.000	2.566
5.000	22.166	34.5	300	1 STANDARD	97.215	95.640	1.275	97.147	94.997	1.850
6.000	11.337	18.6	150	1 STANDARD	97.125	95.775	1.200	97.143	95.167	1.826
6.001	10.523	501.1	600	1 STANDARD	97.143	94.718	1.825	97.147	94.697	1.850
5.001	45.989	194.9	600	1 STANDARD	97.147	94.697	1.850	97.037	94.461	1.976
7.000	33.950	226.3	600	1 STANDARD	96.631	94.800	1.231	97.095	94.650	1.845
7.001	35.853	500.0	600	1 STANDARD	97.095	94.650	1.845	97.045	94.578	1.867
8.000	33.476	500.0	600	1 STANDARD	96.589	94.645	1.344	97.045	94.578	1.867
7.002	8.466	72.4	600	1 STANDARD	97.045	94.578	1.867	97.037	94.461	1.976
5.003	6.270	8.6	225	1 STANDARD	96.941	94.000	2.716	96.680	93.267	3.188

Link	US Node	Dia (mm)	Node Type	MH Type	DS Node	Dia (mm)	Node Type	MH Type
1.000	MH9	1800	Manhole	1 STANDARD	MH8	1800	Manhole	1 STANDARD
1.001	MH8	1800	Manhole	1 STANDARD	MH6	1800	Manhole	1 STANDARD
2.000	MH7	1800	Manhole	1 STANDARD	MH6	1800	Manhole	1 STANDARD
1.002	MH6	1800	Manhole	1 STANDARD	MH4	1800	Manhole	1 STANDARD
3.000	MH5	1800	Manhole	1 STANDARD	MH4	1800	Manhole	1 STANDARD
1.003	MH4	1800	Manhole	1 STANDARD	MH2	1800	Manhole	1 STANDARD
4.000	MH3	1800	Manhole	1 STANDARD	MH2	1800	Manhole	1 STANDARD
1.004	MH2	1800	Manhole	1 STANDARD	MH1	1800	Manhole	1 STANDARD
1.005	MH1	1800	Manhole	1 STANDARD	MH1.1	1500	Manhole	1 STANDARD
1.006	MH1.1	1500	Manhole	1 STANDARD	NEW SW 1	1500	Manhole	1 STANDARD
EX1.000	NEW SW 1	1500	Manhole	1 STANDARD	EX SW 1	1350	Manhole	1 STANDARD
5.002	MH19	2400	Manhole	1 STANDARD	MH18	1950	Manhole	1 STANDARD
5.000	MH16	1500	Manhole	1 STANDARD	MH17	1950	Manhole	1 STANDARD
6.000	MH14	1350	Manhole	1 STANDARD	MH15	1950	Manhole	1 STANDARD
6.001	MH15	1950	Manhole	1 STANDARD	MH17	1950	Manhole	1 STANDARD
5.001	MH17	1950	Manhole	1 STANDARD	MH19	2400	Manhole	1 STANDARD
7.000	MH11	1800	Manhole	1 STANDARD	MH12	1800	Manhole	1 STANDARD
7.001	MH12	1800	Manhole	1 STANDARD	MH13	1800	Manhole	1 STANDARD
8.000	MH10	1800	Manhole	1 STANDARD	MH13	1800	Manhole	1 STANDARD
7.002	MH13	1800	Manhole	1 STANDARD	MH19	2400	Manhole	1 STANDARD
5.003	MH18	1950	Manhole	1 STANDARD	EX SW 3	1350	Manhole	1 STANDARD

Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)	
MH9	434644.832	406781.270	95.759	2.109	1800		0	1.000	93.650	600
MH8	434604.682	406764.259	95.932	2.379	1800		1	1.000	93.553	600
							0	1.001	93.553	600
MH7	434606.128	406803.461	95.651	2.170	1800		0	2.000	93.481	600
MH6	434589.269	406796.202	95.815	2.407	1800		1	2.000	93.408	600
							2	1.001	93.408	600
							0	1.002	93.408	600
MH5	434592.624	406818.434	95.717	2.340	1800		0	3.000	93.377	600
MH4	434581.469	406813.762	95.851	2.522	1800		1	3.000	93.329	600
							2	1.002	93.329	600
							0	1.003	93.329	600
MH3	434585.568	406837.239	95.671	2.373	1800		0	4.000	93.298	600
MH2	434573.154	406832.393	95.803	2.558	1800		1	4.000	93.245	600
							2	1.003	93.245	600
							0	1.004	93.245	600
MH1	434562.462	406856.548	95.780	2.667	1800		1	1.004	93.113	600
							0	1.005	93.113	375
MH1.1	434555.255	406873.855	95.846	2.811	1500		1	1.005	93.035	375
							0	1.006	93.035	375
NEW SW 1	434561.332	406878.454	95.595	3.956	1500		1	1.006	92.997	375
							0	EX1.000	91.639	150
EX SW 1	434548.132	406889.980	91.880	0.630	1350		1	EX1.000	91.250	150
MH16	434653.384	406631.578	97.215	1.575	1500		0	5.000	95.640	300

Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)	
MH14	434643.550	406647.045	97.125	1.350	1350		0	6.000	95.775	150
MH15	434654.756	406648.764	97.143	2.425	1950		1	6.000	95.167	150
							0	6.001	94.718	600
MH17	434665.157	406650.359	97.147	2.450	1950		1	6.001	94.697	600
							2	5.000	94.997	300
							0	5.001	94.697	600
MH11	434621.652	406708.164	96.631	1.831	1800		0	7.000	94.800	600
MH12	434635.892	406677.345	97.095	2.445	1800		1	7.000	94.650	600
							0	7.001	94.650	600
MH10	434654.683	406722.085	96.589	1.944	1800		0	8.000	94.645	600
MH13	434668.744	406691.705	97.045	2.467	1800		1	8.000	94.578	600
							2	7.001	94.578	600
							0	7.002	94.578	600
MH18	434678.865	406703.295	96.941	2.941	1950		1	5.002	94.000	375
							0	5.003	94.000	225
MH19	434676.582	406694.906	97.037	2.576	2400		1	5.001	94.461	600
							2	7.002	94.461	600
							0	5.002	94.461	375
EX SW 3	434687.131	406702.025	96.680	3.413	1350		1	5.003	93.267	225

Simulation Settings

Rainfall Methodology	FSR	Analysis Speed	Normal
Rainfall Events	Singular	Skip Steady State	x
FSR Region	England and Wales	Drain Down Time (mins)	240
M5-60 (mm)	19.000	Additional Storage (m³/ha)	20.0
Ratio-R	0.350	Starting Level (m)	
Summer CV	0.750	Check Discharge Rate(s)	x
Winter CV	0.840	Check Discharge Volume	x

Storm Durations

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

Return Period (years)	Climate Change (CC %)	Additional Area (A %)	Additional Flow (Q %)
1	0	0	0
30	0	0	0
100	0	0	0
100	40	0	0

Node MH19 Online Hydro-Brake® Control

Flap Valve	x	Objective	(HE) Minimise upstream storage
Replaces Downstream Link	x	Sump Available	✓
Invert Level (m)	94.461	Product Number	CTL-SHE-0347-8000-2000-8000
Design Depth (m)	2.000	Min Outlet Diameter (m)	0.375
Design Flow (l/s)	80.0	Min Node Diameter (mm)	0

Results for 1 year Critical Storm Duration. Lowest mass balance: 99.93%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	MH9	10	93.740	0.090	16.8	0.3409	0.0000	OK
15 minute winter	MH8	11	93.656	0.103	29.9	0.3540	0.0000	OK
15 minute winter	MH7	11	93.549	0.068	9.3	0.2181	0.0000	OK
15 minute winter	MH6	11	93.546	0.138	45.4	0.4278	0.0000	OK
15 minute winter	MH5	11	93.477	0.100	6.4	0.2971	0.0000	OK
15 minute winter	MH4	12	93.477	0.148	51.8	0.3934	0.0000	OK
15 minute winter	MH3	12	93.393	0.095	4.2	0.2684	0.0000	OK
15 minute winter	MH2	12	93.395	0.150	62.2	0.4617	0.0000	OK
15 minute winter	MH1	14	93.374	0.261	70.2	0.8025	0.0000	OK
15 minute winter	MH1.1	14	93.363	0.328	70.4	0.6267	0.0000	OK
15 minute winter	NEW SW 1	14	93.354	1.715	64.6	3.0302	0.0000	SURCHARGED
60 minute winter	EX SW 1	29	91.392	0.142	42.1	0.0000	0.0000	OK
15 minute winter	MH16	10	95.695	0.055	13.7	0.1732	0.0000	OK
15 minute winter	MH14	10	95.806	0.031	3.8	0.0589	0.0000	OK
15 minute winter	MH15	11	94.785	0.066	6.5	0.2101	0.0000	OK
15 minute winter	MH17	12	94.777	0.080	19.6	0.2394	0.0000	OK
15 minute winter	MH11	10	94.866	0.066	12.4	0.2377	0.0000	OK
15 minute winter	MH12	13	94.783	0.133	25.2	0.4496	0.0000	OK
15 minute winter	MH10	12	94.785	0.140	16.9	0.5445	0.0000	OK
15 minute summer	MH13	13	94.789	0.211	45.3	0.6286	0.0000	OK
15 minute winter	MH18	13	94.098	0.098	52.8	0.2923	0.0000	OK
15 minute winter	MH19	12	94.806	0.345	44.9	1.5600	0.0000	OK
15 minute winter	EX SW 3	13	93.350	0.083	52.6	0.0000	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute winter	MH9	1.000	MH8	16.2	0.565	0.050	1.2690	
15 minute winter	MH8	1.001	MH6	29.2	0.726	0.067	1.4367	
15 minute winter	MH7	2.000	MH6	8.7	0.322	0.020	0.6096	
15 minute winter	MH6	1.002	MH4	44.6	0.871	0.101	0.9844	
15 minute winter	MH5	3.000	MH4	5.4	0.310	0.012	0.5110	
15 minute winter	MH4	1.003	MH2	51.9	0.957	0.118	1.1098	
15 minute winter	MH3	4.000	MH2	4.3	0.190	0.010	0.5572	
15 minute winter	MH2	1.004	MH1	63.2	0.863	0.130	2.1332	
15 minute winter	MH1	1.005	MH1.1	68.4	1.056	0.532	1.7281	
15 minute winter	MH1.1	1.006	NEW SW 1	64.6	1.174	0.458	0.8026	
15 minute winter	NEW SW 1	EX1.000	EX SW 1	54.9	3.120	2.068	0.3054	37.2
15 minute winter	MH16	5.000	MH17	13.5	1.542	0.071	0.1936	
15 minute winter	MH14	6.000	MH15	3.8	1.432	0.091	0.0297	
15 minute winter	MH15	6.001	MH17	6.2	0.323	0.020	0.2062	
15 minute winter	MH17	5.001	MH19	18.4	0.426	0.037	4.3659	
15 minute winter	MH11	7.000	MH12	12.0	0.462	0.026	1.0042	
15 minute winter	MH12	7.001	MH13	23.1	0.602	0.076	2.0956	
15 minute winter	MH10	8.000	MH13	16.5	0.527	0.054	1.9656	
15 minute summer	MH13	7.002	MH19	62.4	0.736	0.077	0.9429	
15 minute winter	MH18	5.003	EX SW 3	52.6	3.527	0.294	0.0937	34.8
15 minute winter	MH19	5.002	MH18	52.8	2.413	0.114	0.1902	

Results for 30 year Critical Storm Duration. Lowest mass balance: 99.93%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
30 minute winter	MH9	24	93.830	0.180	32.2	0.6807	0.0000	OK
30 minute winter	MH8	23	93.829	0.276	58.4	0.9501	0.0000	OK
15 minute winter	MH7	14	93.825	0.344	22.9	1.1074	0.0000	OK
30 minute winter	MH6	24	93.821	0.413	88.8	1.2782	0.0000	OK
30 minute winter	MH5	24	93.823	0.446	17.6	1.3250	0.0000	OK
30 minute winter	MH4	24	93.820	0.491	87.7	1.3069	0.0000	OK
30 minute winter	MH3	24	93.819	0.521	26.3	1.4719	0.0000	OK
30 minute winter	MH2	24	93.821	0.576	98.0	1.7728	0.0000	OK
30 minute winter	MH1	24	93.816	0.703	96.7	2.1590	0.0000	SURCHARGED
30 minute winter	MH1.1	22	93.801	0.766	74.3	1.4631	0.0000	SURCHARGED
30 minute winter	NEW SW 1	22	93.789	2.150	70.2	3.7992	0.0000	SURCHARGED
60 minute winter	EX SW 1	63	91.392	0.142	59.4	0.0000	0.0000	OK
15 minute winter	MH16	10	95.728	0.088	33.5	0.2765	0.0000	OK
15 minute winter	MH14	10	95.826	0.051	9.4	0.0951	0.0000	OK
15 minute winter	MH15	14	95.016	0.298	15.9	0.9405	0.0000	OK
15 minute winter	MH17	14	94.998	0.301	49.0	0.8983	0.0000	OK
15 minute winter	MH11	13	95.011	0.211	30.4	0.7613	0.0000	OK
15 minute winter	MH12	13	94.998	0.348	62.0	1.1773	0.0000	OK
15 minute winter	MH10	14	95.006	0.361	41.3	1.4081	0.0000	OK
30 minute winter	MH13	22	95.007	0.429	120.7	1.2749	0.0000	OK
15 minute winter	MH18	13	94.127	0.127	78.1	0.3782	0.0000	OK
15 minute winter	MH19	14	95.028	0.567	146.4	2.5670	0.0000	SURCHARGED
15 minute winter	EX SW 3	13	93.370	0.103	78.1	0.0000	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
30 minute winter	MH9	1.000	MH8	32.1	0.669	0.100	4.0791	
30 minute winter	MH8	1.001	MH6	58.8	0.834	0.134	5.8396	
15 minute winter	MH7	2.000	MH6	20.6	0.364	0.048	3.3779	
30 minute winter	MH6	1.002	MH4	82.4	0.966	0.187	4.3583	
30 minute winter	MH5	3.000	MH4	9.9	0.325	0.023	2.8495	
30 minute winter	MH4	1.003	MH2	82.3	0.997	0.187	5.3526	
30 minute winter	MH3	4.000	MH2	-18.6	0.251	-0.043	3.5851	
30 minute winter	MH2	1.004	MH1	82.1	0.863	0.169	7.3928	
30 minute winter	MH1	1.005	MH1.1	70.7	1.071	0.550	2.0678	
30 minute winter	MH1.1	1.006	NEW SW 1	70.2	1.195	0.498	0.8406	
30 minute winter	NEW SW 1	EX1.000	EX SW 1	60.7	3.448	2.285	0.3054	122.0
15 minute winter	MH16	5.000	MH17	33.1	1.977	0.174	0.3709	
15 minute winter	MH14	6.000	MH15	9.3	1.834	0.225	0.0575	
15 minute winter	MH15	6.001	MH17	20.4	0.378	0.067	1.4774	
15 minute winter	MH17	5.001	MH19	35.6	0.504	0.072	9.5946	
15 minute winter	MH11	7.000	MH12	29.7	0.556	0.065	4.3751	
15 minute winter	MH12	7.001	MH13	42.7	0.637	0.140	6.8110	
15 minute winter	MH10	8.000	MH13	36.3	0.562	0.119	6.3895	
30 minute winter	MH13	7.002	MH19	136.2	0.787	0.168	1.9744	
15 minute winter	MH18	5.003	EX SW 3	78.1	3.829	0.436	0.1279	78.5
15 minute winter	MH19	5.002	MH18	78.1	2.540	0.169	0.2675	

Results for 100 year Critical Storm Duration. Lowest mass balance: 99.93%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
30 minute winter	MH9	24	94.174	0.524	42.1	1.9848	0.0000	OK
30 minute winter	MH8	25	94.171	0.618	77.6	2.1288	0.0000	SURCHARGED
30 minute winter	MH7	25	94.177	0.696	26.7	2.2382	0.0000	SURCHARGED
30 minute winter	MH6	25	94.176	0.768	104.8	2.3763	0.0000	SURCHARGED
30 minute winter	MH5	25	94.175	0.798	16.1	2.3709	0.0000	SURCHARGED
30 minute winter	MH4	25	94.172	0.843	105.5	2.2455	0.0000	SURCHARGED
30 minute winter	MH3	25	94.180	0.882	24.2	2.4905	0.0000	SURCHARGED
30 minute winter	MH2	25	94.173	0.928	102.5	2.8552	0.0000	SURCHARGED
30 minute winter	MH1	25	94.175	1.062	103.8	3.2596	0.0000	SURCHARGED
30 minute winter	MH1.1	25	94.143	1.108	78.3	2.1149	0.0000	SURCHARGED
30 minute winter	NEW SW 1	25	94.125	2.486	68.6	4.3930	0.0000	SURCHARGED
120 minute summer	EX SW 1	48	91.392	0.142	60.0	0.0000	0.0000	OK
15 minute winter	MH16	10	95.742	0.102	43.3	0.3184	0.0000	OK
15 minute winter	MH14	10	95.834	0.059	12.2	0.1101	0.0000	OK
30 minute winter	MH15	23	95.175	0.457	16.3	1.4442	0.0000	OK
30 minute winter	MH17	24	95.176	0.479	60.1	1.4292	0.0000	OK
30 minute winter	MH11	23	95.184	0.384	31.2	1.3828	0.0000	OK
30 minute winter	MH12	23	95.178	0.528	56.9	1.7894	0.0000	OK
30 minute winter	MH10	24	95.175	0.530	42.4	2.0700	0.0000	OK
30 minute winter	MH13	22	95.172	0.594	130.6	1.7668	0.0000	OK
30 minute winter	MH18	22	94.129	0.129	79.9	0.3842	0.0000	OK
30 minute winter	MH19	23	95.181	0.720	174.8	3.2558	0.0000	SURCHARGED
30 minute winter	EX SW 3	22	93.372	0.105	79.8	0.0000	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
30 minute winter	MH9	1.000	MH8	43.2	0.710	0.134	11.8340	
30 minute winter	MH8	1.001	MH6	74.0	0.853	0.169	9.9902	
30 minute winter	MH7	2.000	MH6	18.4	0.329	0.042	5.1702	
30 minute winter	MH6	1.002	MH4	89.9	0.976	0.204	5.4121	
30 minute winter	MH5	3.000	MH4	11.0	0.351	0.025	3.4066	
30 minute winter	MH4	1.003	MH2	84.0	1.013	0.191	5.7468	
30 minute winter	MH3	4.000	MH2	-14.2	0.206	-0.033	3.7536	
30 minute winter	MH2	1.004	MH1	87.5	0.866	0.180	7.4408	
30 minute winter	MH1	1.005	MH1.1	74.5	1.034	0.580	2.0678	
30 minute winter	MH1.1	1.006	NEW SW 1	68.6	1.151	0.486	0.8406	
30 minute winter	NEW SW 1	EX1.000	EX SW 1	64.8	3.682	2.441	0.3054	159.1
15 minute winter	MH16	5.000	MH17	42.8	2.114	0.225	0.5546	
15 minute winter	MH14	6.000	MH15	12.1	1.962	0.291	0.0697	
30 minute winter	MH15	6.001	MH17	25.7	0.330	0.084	2.4722	
30 minute winter	MH17	5.001	MH19	36.5	0.480	0.074	12.0194	
30 minute winter	MH11	7.000	MH12	25.6	0.476	0.056	7.6908	
30 minute winter	MH12	7.001	MH13	45.1	0.582	0.147	9.7495	
30 minute winter	MH10	8.000	MH13	38.8	0.476	0.127	9.1126	
30 minute winter	MH13	7.002	MH19	145.2	0.853	0.179	2.3828	
30 minute winter	MH18	5.003	EX SW 3	79.8	3.845	0.446	0.1302	135.7
30 minute winter	MH19	5.002	MH18	79.9	2.547	0.173	0.2732	

Results for 100 year +40% CC Critical Storm Duration. Lowest mass balance: 99.93%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
30 minute winter	MH9	25	95.623	1.973	78.1	7.4732	0.0000	FLOOD RISK
30 minute winter	MH8	26	95.639	2.086	101.6	7.1847	0.0000	FLOOD RISK
30 minute winter	MH7	25	95.625	2.144	38.9	6.9008	0.0000	FLOOD RISK
30 minute winter	MH6	26	95.627	2.219	114.9	6.8643	0.0000	FLOOD RISK
30 minute winter	MH5	25	95.627	2.250	22.5	6.6870	0.0000	FLOOD RISK
30 minute winter	MH4	25	95.623	2.294	100.7	6.1122	0.0000	FLOOD RISK
30 minute winter	MH3	25	95.623	2.325	30.1	6.5627	0.0000	FLOOD RISK
30 minute winter	MH2	25	95.622	2.377	116.3	7.3127	0.0000	FLOOD RISK
30 minute winter	MH1	25	95.619	2.506	114.5	7.6937	0.0000	FLOOD RISK
30 minute winter	MH1.1	25	95.578	2.543	101.4	4.8552	0.0000	FLOOD RISK
30 minute winter	NEW SW 1	25	95.553	3.914	86.6	6.9158	0.0000	FLOOD RISK
60 minute summer	EX SW 1	15	91.392	0.142	74.6	0.0000	0.0000	OK
30 minute winter	MH16	25	96.504	0.864	48.1	2.7011	0.0000	SURCHARGED
30 minute winter	MH14	25	96.501	0.726	13.5	1.3611	0.0000	SURCHARGED
30 minute winter	MH15	25	96.489	1.771	27.2	5.5961	0.0000	SURCHARGED
30 minute winter	MH17	25	96.491	1.794	72.3	5.3573	0.0000	SURCHARGED
30 minute winter	MH11	25	96.493	1.693	43.6	6.1031	0.0000	FLOOD RISK
30 minute winter	MH12	25	96.486	1.836	70.9	6.2182	0.0000	SURCHARGED
30 minute winter	MH10	25	96.481	1.836	59.4	7.1672	0.0000	FLOOD RISK
30 minute winter	MH13	25	96.480	1.902	138.7	5.6552	0.0000	SURCHARGED
60 minute summer	MH18	34	94.129	0.129	79.9	0.3845	0.0000	OK
30 minute winter	MH19	25	96.477	2.016	198.0	9.1226	0.0000	SURCHARGED
60 minute summer	EX SW 3	34	93.372	0.105	80.0	0.0000	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
30 minute winter	MH9	1.000	MH8	56.0	0.722	0.174	12.2825	
30 minute winter	MH8	1.001	MH6	83.1	0.862	0.189	9.9902	
30 minute winter	MH7	2.000	MH6	19.7	0.353	0.045	5.1702	
30 minute winter	MH6	1.002	MH4	93.2	0.971	0.212	5.4121	
30 minute winter	MH5	3.000	MH4	21.0	0.383	0.048	3.4066	
30 minute winter	MH4	1.003	MH2	87.3	0.992	0.198	5.7468	
30 minute winter	MH3	4.000	MH2	-21.3	0.227	-0.049	3.7536	
30 minute winter	MH2	1.004	MH1	87.8	0.856	0.181	7.4408	
30 minute winter	MH1	1.005	MH1.1	93.8	1.035	0.730	2.0678	
30 minute winter	MH1.1	1.006	NEW SW 1	86.6	1.157	0.614	0.8406	
30 minute winter	NEW SW 1	EX1.000	EX SW 1	80.0	4.543	3.011	0.3054	222.4
30 minute winter	MH16	5.000	MH17	49.2	2.134	0.259	1.5609	
30 minute winter	MH14	6.000	MH15	14.1	2.014	0.339	0.1996	
30 minute winter	MH15	6.001	MH17	23.1	0.328	0.076	2.9641	
30 minute winter	MH17	5.001	MH19	40.0	0.505	0.081	12.9541	
30 minute winter	MH11	7.000	MH12	29.1	0.462	0.064	9.5629	
30 minute winter	MH12	7.001	MH13	48.4	0.621	0.158	10.0990	
30 minute winter	MH10	8.000	MH13	51.2	0.516	0.167	9.4294	
30 minute winter	MH13	7.002	MH19	158.1	0.879	0.195	2.3847	
60 minute summer	MH18	5.003	EX SW 3	80.0	3.846	0.447	0.1303	219.1
30 minute winter	MH19	5.002	MH18	79.9	2.544	0.173	0.2733	

Results for 1 year 15 minute summer. 255 minute analysis at 1 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	MH9	10	93.738	0.088	15.9	0.3332	0.0000	OK
15 minute summer	MH8	11	93.653	0.100	28.4	0.3457	0.0000	OK
15 minute summer	MH7	11	93.544	0.063	8.9	0.2031	0.0000	OK
15 minute summer	MH6	11	93.543	0.135	43.2	0.4175	0.0000	OK
15 minute summer	MH5	12	93.473	0.096	6.1	0.2861	0.0000	OK
15 minute summer	MH4	12	93.473	0.144	50.0	0.3836	0.0000	OK
15 minute summer	MH3	12	93.393	0.095	4.0	0.2669	0.0000	OK
15 minute summer	MH2	12	93.390	0.145	60.6	0.4454	0.0000	OK
15 minute summer	MH1	14	93.326	0.213	66.4	0.6539	0.0000	OK
15 minute summer	MH1.1	14	93.308	0.273	68.1	0.5206	0.0000	OK
15 minute summer	NEW SW 1	14	93.295	1.656	67.4	2.9263	0.0000	SURCHARGED
15 minute summer	EX SW 1	10	91.392	0.142	54.1	0.0000	0.0000	OK
15 minute summer	MH16	10	95.694	0.054	13.0	0.1689	0.0000	OK
15 minute summer	MH14	10	95.806	0.031	3.7	0.0581	0.0000	OK
15 minute summer	MH15	11	94.783	0.065	6.3	0.2053	0.0000	OK
15 minute summer	MH17	12	94.776	0.079	18.7	0.2364	0.0000	OK
15 minute summer	MH11	10	94.865	0.065	11.8	0.2325	0.0000	OK
15 minute summer	MH12	13	94.767	0.117	24.0	0.3947	0.0000	OK
15 minute summer	MH10	12	94.766	0.121	16.1	0.4704	0.0000	OK
15 minute summer	MH13	13	94.789	0.211	45.3	0.6286	0.0000	OK
15 minute summer	MH18	13	94.079	0.079	37.1	0.2361	0.0000	OK
15 minute summer	MH19	13	94.750	0.289	75.6	1.3064	0.0000	OK
15 minute summer	EX SW 3	13	93.337	0.070	37.8	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	MH9	1.000	MH8	15.5	0.560	0.048	1.2280	
15 minute summer	MH8	1.001	MH6	27.9	0.717	0.063	1.3880	
15 minute summer	MH7	2.000	MH6	8.7	0.334	0.020	0.5783	
15 minute summer	MH6	1.002	MH4	42.8	0.865	0.097	0.9513	
15 minute summer	MH5	3.000	MH4	5.5	0.301	0.013	0.4897	
15 minute summer	MH4	1.003	MH2	49.5	0.951	0.112	1.0625	
15 minute summer	MH3	4.000	MH2	4.1	0.178	0.009	0.5373	
15 minute summer	MH2	1.004	MH1	59.7	0.856	0.123	1.8552	
15 minute summer	MH1	1.005	MH1.1	66.2	1.060	0.515	1.4103	
15 minute summer	MH1.1	1.006	NEW SW 1	67.4	1.190	0.478	0.6852	
15 minute summer	NEW SW 1	EX1.000	EX SW 1	54.1	3.073	2.037	0.3054	33.5
15 minute summer	MH16	5.000	MH17	12.8	1.522	0.068	0.1869	
15 minute summer	MH14	6.000	MH15	3.7	1.421	0.088	0.0291	
15 minute summer	MH15	6.001	MH17	6.0	0.323	0.020	0.1991	
15 minute summer	MH17	5.001	MH19	19.1	0.412	0.039	3.5818	
15 minute summer	MH11	7.000	MH12	11.5	0.456	0.025	0.8956	
15 minute summer	MH12	7.001	MH13	23.1	0.641	0.076	2.2762	
15 minute summer	MH10	8.000	MH13	15.8	0.560	0.052	2.1570	
15 minute summer	MH13	7.002	MH19	62.4	0.736	0.077	0.9429	
15 minute summer	MH18	5.003	EX SW 3	37.8	3.301	0.211	0.0719	26.7
15 minute summer	MH19	5.002	MH18	37.1	2.230	0.080	0.1446	

Results for 1 year 15 minute winter. 255 minute analysis at 1 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	MH9	10	93.740	0.090	16.8	0.3409	0.0000	OK
15 minute winter	MH8	11	93.656	0.103	29.9	0.3540	0.0000	OK
15 minute winter	MH7	11	93.549	0.068	9.3	0.2181	0.0000	OK
15 minute winter	MH6	11	93.546	0.138	45.4	0.4278	0.0000	OK
15 minute winter	MH5	11	93.477	0.100	6.4	0.2971	0.0000	OK
15 minute winter	MH4	12	93.477	0.148	51.8	0.3934	0.0000	OK
15 minute winter	MH3	12	93.393	0.095	4.2	0.2684	0.0000	OK
15 minute winter	MH2	12	93.395	0.150	62.2	0.4617	0.0000	OK
15 minute winter	MH1	14	93.374	0.261	70.2	0.8025	0.0000	OK
15 minute winter	MH1.1	14	93.363	0.328	70.4	0.6267	0.0000	OK
15 minute winter	NEW SW 1	14	93.354	1.715	64.6	3.0302	0.0000	SURCHARGED
15 minute winter	EX SW 1	10	91.392	0.142	54.9	0.0000	0.0000	OK
15 minute winter	MH16	10	95.695	0.055	13.7	0.1732	0.0000	OK
15 minute winter	MH14	10	95.806	0.031	3.8	0.0589	0.0000	OK
15 minute winter	MH15	11	94.785	0.066	6.5	0.2101	0.0000	OK
15 minute winter	MH17	12	94.777	0.080	19.6	0.2394	0.0000	OK
15 minute winter	MH11	10	94.866	0.066	12.4	0.2377	0.0000	OK
15 minute winter	MH12	13	94.783	0.133	25.2	0.4496	0.0000	OK
15 minute winter	MH10	12	94.785	0.140	16.9	0.5445	0.0000	OK
15 minute winter	MH13	14	94.758	0.180	64.4	0.5349	0.0000	OK
15 minute winter	MH18	13	94.098	0.098	52.8	0.2923	0.0000	OK
15 minute winter	MH19	12	94.806	0.345	44.9	1.5600	0.0000	OK
15 minute winter	EX SW 3	13	93.350	0.083	52.6	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute winter	MH9	1.000	MH8	16.2	0.565	0.050	1.2690	
15 minute winter	MH8	1.001	MH6	29.2	0.726	0.067	1.4367	
15 minute winter	MH7	2.000	MH6	8.7	0.322	0.020	0.6096	
15 minute winter	MH6	1.002	MH4	44.6	0.871	0.101	0.9844	
15 minute winter	MH5	3.000	MH4	5.4	0.310	0.012	0.5110	
15 minute winter	MH4	1.003	MH2	51.9	0.957	0.118	1.1098	
15 minute winter	MH3	4.000	MH2	4.3	0.190	0.010	0.5572	
15 minute winter	MH2	1.004	MH1	63.2	0.863	0.130	2.1332	
15 minute winter	MH1	1.005	MH1.1	68.4	1.056	0.532	1.7281	
15 minute winter	MH1.1	1.006	NEW SW 1	64.6	1.174	0.458	0.8026	
15 minute winter	NEW SW 1	EX1.000	EX SW 1	54.9	3.120	2.068	0.3054	37.2
15 minute winter	MH16	5.000	MH17	13.5	1.542	0.071	0.1936	
15 minute winter	MH14	6.000	MH15	3.8	1.432	0.091	0.0297	
15 minute winter	MH15	6.001	MH17	6.2	0.323	0.020	0.2062	
15 minute winter	MH17	5.001	MH19	18.4	0.426	0.037	4.3659	
15 minute winter	MH11	7.000	MH12	12.0	0.462	0.026	1.0042	
15 minute winter	MH12	7.001	MH13	23.1	0.602	0.076	2.0956	
15 minute winter	MH10	8.000	MH13	16.5	0.527	0.054	1.9656	
15 minute winter	MH13	7.002	MH19	42.1	0.750	0.052	1.0057	
15 minute winter	MH18	5.003	EX SW 3	52.6	3.527	0.294	0.0937	34.8
15 minute winter	MH19	5.002	MH18	52.8	2.413	0.114	0.1902	

Results for 1 year 30 minute summer. 270 minute analysis at 1 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
30 minute summer	MH9	18	93.734	0.084	14.5	0.3199	0.0000	OK
30 minute summer	MH8	18	93.649	0.096	26.2	0.3305	0.0000	OK
30 minute summer	MH7	19	93.540	0.059	8.1	0.1884	0.0000	OK
30 minute summer	MH6	19	93.538	0.129	40.6	0.4005	0.0000	OK
30 minute summer	MH5	19	93.469	0.092	5.5	0.2721	0.0000	OK
30 minute summer	MH4	19	93.468	0.139	46.3	0.3709	0.0000	OK
30 minute summer	MH3	19	93.385	0.087	3.7	0.2452	0.0000	OK
30 minute summer	MH2	19	93.385	0.140	56.4	0.4310	0.0000	OK
30 minute summer	MH1	21	93.315	0.202	62.8	0.6203	0.0000	OK
30 minute summer	MH1.1	21	93.286	0.251	63.0	0.4790	0.0000	OK
30 minute summer	NEW SW 1	21	93.273	1.634	61.5	2.8873	0.0000	SURCHARGED
30 minute summer	EX SW 1	17	91.392	0.142	53.8	0.0000	0.0000	OK
30 minute summer	MH16	18	95.692	0.052	11.8	0.1618	0.0000	OK
30 minute summer	MH14	18	95.804	0.029	3.3	0.0552	0.0000	OK
30 minute summer	MH15	18	94.780	0.062	5.6	0.1951	0.0000	OK
30 minute summer	MH17	19	94.773	0.076	17.3	0.2280	0.0000	OK
30 minute summer	MH11	18	94.862	0.062	10.7	0.2242	0.0000	OK
30 minute summer	MH12	20	94.769	0.119	22.0	0.4032	0.0000	OK
30 minute summer	MH10	20	94.771	0.126	14.6	0.4914	0.0000	OK
30 minute summer	MH13	21	94.754	0.176	64.3	0.5242	0.0000	OK
30 minute summer	MH18	20	94.093	0.093	47.6	0.2774	0.0000	OK
30 minute summer	MH19	20	94.781	0.320	48.4	1.4463	0.0000	OK
30 minute summer	EX SW 3	21	93.347	0.080	49.1	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
30 minute summer	MH9	1.000	MH8	14.4	0.544	0.045	1.1570	
30 minute summer	MH8	1.001	MH6	25.4	0.697	0.058	1.3039	
30 minute summer	MH7	2.000	MH6	7.9	0.311	0.018	0.5384	
30 minute summer	MH6	1.002	MH4	39.8	0.851	0.091	0.9039	
30 minute summer	MH5	3.000	MH4	5.0	0.256	0.011	0.4628	
30 minute summer	MH4	1.003	MH2	46.4	0.933	0.105	1.0139	
30 minute summer	MH3	4.000	MH2	3.3	0.165	0.008	0.4998	
30 minute summer	MH2	1.004	MH1	55.7	0.849	0.115	1.7455	
30 minute summer	MH1	1.005	MH1.1	61.4	1.041	0.477	1.3018	
30 minute summer	MH1.1	1.006	NEW SW 1	61.5	1.163	0.436	0.6299	
30 minute summer	NEW SW 1	EX1.000	EX SW 1	53.8	3.055	2.025	0.3054	44.1
30 minute summer	MH16	5.000	MH17	11.8	1.487	0.062	0.1758	
30 minute summer	MH14	6.000	MH15	3.3	1.382	0.080	0.0271	
30 minute summer	MH15	6.001	MH17	5.5	0.312	0.018	0.1881	
30 minute summer	MH17	5.001	MH19	16.9	0.380	0.034	3.9817	
30 minute summer	MH11	7.000	MH12	10.6	0.444	0.023	0.8979	
30 minute summer	MH12	7.001	MH13	22.4	0.562	0.073	1.9387	
30 minute summer	MH10	8.000	MH13	14.8	0.487	0.048	1.8361	
30 minute summer	MH13	7.002	MH19	44.1	0.703	0.054	0.9289	
30 minute summer	MH18	5.003	EX SW 3	49.1	3.496	0.274	0.0881	40.5
30 minute summer	MH19	5.002	MH18	47.6	2.364	0.103	0.1750	

Results for 1 year 30 minute winter. 270 minute analysis at 1 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
30 minute winter	MH9	18	93.730	0.080	13.1	0.3047	0.0000	OK
30 minute winter	MH8	18	93.645	0.092	23.7	0.3165	0.0000	OK
30 minute winter	MH7	18	93.534	0.053	7.3	0.1718	0.0000	OK
30 minute winter	MH6	19	93.532	0.124	37.1	0.3843	0.0000	OK
30 minute winter	MH5	19	93.463	0.086	5.0	0.2549	0.0000	OK
30 minute winter	MH4	19	93.462	0.133	42.9	0.3555	0.0000	OK
30 minute winter	MH3	19	93.379	0.081	3.3	0.2291	0.0000	OK
30 minute winter	MH2	19	93.379	0.134	52.4	0.4126	0.0000	OK
30 minute winter	MH1	21	93.308	0.195	58.5	0.5986	0.0000	OK
30 minute winter	MH1.1	22	93.269	0.234	59.5	0.4461	0.0000	OK
30 minute winter	NEW SW 1	22	93.253	1.614	58.8	2.8514	0.0000	SURCHARGED
30 minute winter	EX SW 1	16	91.392	0.142	53.5	0.0000	0.0000	OK
30 minute winter	MH16	18	95.689	0.049	10.7	0.1540	0.0000	OK
30 minute winter	MH14	18	95.803	0.028	3.0	0.0526	0.0000	OK
30 minute winter	MH15	18	94.777	0.059	5.1	0.1860	0.0000	OK
30 minute winter	MH17	20	94.775	0.078	15.7	0.2340	0.0000	OK
30 minute winter	MH11	18	94.859	0.059	9.7	0.2141	0.0000	OK
30 minute winter	MH12	21	94.767	0.117	20.0	0.3963	0.0000	OK
30 minute winter	MH10	20	94.761	0.116	13.2	0.4538	0.0000	OK
30 minute winter	MH13	21	94.787	0.209	40.0	0.6207	0.0000	OK
30 minute winter	MH18	20	94.082	0.082	37.0	0.2441	0.0000	OK
30 minute winter	MH19	20	94.740	0.279	64.9	1.2616	0.0000	OK
30 minute winter	EX SW 3	20	93.340	0.073	40.7	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
30 minute winter	MH9	1.000	MH8	13.0	0.524	0.040	1.0817	
30 minute winter	MH8	1.001	MH6	23.2	0.678	0.053	1.2280	
30 minute winter	MH7	2.000	MH6	7.3	0.290	0.017	0.4956	
30 minute winter	MH6	1.002	MH4	36.9	0.833	0.084	0.8515	
30 minute winter	MH5	3.000	MH4	4.6	0.271	0.011	0.4305	
30 minute winter	MH4	1.003	MH2	42.9	0.918	0.097	0.9534	
30 minute winter	MH3	4.000	MH2	3.1	0.156	0.007	0.4638	
30 minute winter	MH2	1.004	MH1	51.9	0.836	0.107	1.6540	
30 minute winter	MH1	1.005	MH1.1	57.6	1.027	0.448	1.2032	
30 minute winter	MH1.1	1.006	NEW SW 1	58.8	1.152	0.417	0.5801	
30 minute winter	NEW SW 1	EX1.000	EX SW 1	53.5	3.039	2.014	0.3054	49.4
30 minute winter	MH16	5.000	MH17	10.7	1.447	0.056	0.1639	
30 minute winter	MH14	6.000	MH15	3.0	1.344	0.072	0.0253	
30 minute winter	MH15	6.001	MH17	5.0	0.306	0.016	0.1866	
30 minute winter	MH17	5.001	MH19	15.5	0.380	0.032	3.4441	
30 minute winter	MH11	7.000	MH12	9.7	0.433	0.021	0.8698	
30 minute winter	MH12	7.001	MH13	20.6	0.547	0.067	2.2531	
30 minute winter	MH10	8.000	MH13	14.0	0.467	0.046	2.0956	
30 minute winter	MH13	7.002	MH19	51.8	0.712	0.064	0.9110	
30 minute winter	MH18	5.003	EX SW 3	40.7	3.379	0.227	0.0755	41.5
30 minute winter	MH19	5.002	MH18	37.0	2.223	0.080	0.1449	

Results for 1 year 60 minute summer. 300 minute analysis at 1 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute summer	MH9	33	93.725	0.075	11.2	0.2825	0.0000	OK
60 minute summer	MH8	34	93.638	0.085	20.2	0.2932	0.0000	OK
60 minute summer	MH7	33	93.530	0.049	6.2	0.1590	0.0000	OK
60 minute summer	MH6	34	93.522	0.114	31.6	0.3527	0.0000	OK
60 minute summer	MH5	34	93.452	0.075	4.3	0.2223	0.0000	OK
60 minute summer	MH4	34	93.451	0.122	36.7	0.3263	0.0000	OK
60 minute summer	MH3	34	93.368	0.070	2.8	0.1976	0.0000	OK
60 minute summer	MH2	34	93.368	0.123	44.7	0.3773	0.0000	OK
60 minute summer	MH1	35	93.289	0.176	49.9	0.5397	0.0000	OK
60 minute summer	MH1.1	35	93.208	0.173	51.3	0.3297	0.0000	OK
60 minute summer	NEW SW 1	36	92.932	1.293	51.3	2.2842	0.0000	SURCHARGED
60 minute summer	EX SW 1	31	91.392	0.142	48.6	0.0000	0.0000	OK
60 minute summer	MH16	33	95.685	0.045	9.1	0.1420	0.0000	OK
60 minute summer	MH14	33	95.801	0.026	2.6	0.0490	0.0000	OK
60 minute summer	MH15	33	94.772	0.054	4.4	0.1703	0.0000	OK
60 minute summer	MH17	34	94.764	0.067	13.4	0.1991	0.0000	OK
60 minute summer	MH11	33	94.855	0.055	8.3	0.1990	0.0000	OK
60 minute summer	MH12	35	94.748	0.098	17.1	0.3317	0.0000	OK
60 minute summer	MH10	36	94.742	0.097	11.3	0.3793	0.0000	OK
60 minute summer	MH13	35	94.765	0.187	49.9	0.5558	0.0000	OK
60 minute summer	MH18	39	94.080	0.080	36.7	0.2390	0.0000	OK
60 minute summer	MH19	40	94.737	0.276	72.1	1.2488	0.0000	OK
60 minute summer	EX SW 3	39	93.338	0.071	38.8	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
60 minute summer	MH9	1.000	MH8	11.1	0.501	0.034	0.9682	
60 minute summer	MH8	1.001	MH6	19.8	0.651	0.045	1.0918	
60 minute summer	MH7	2.000	MH6	6.2	0.278	0.014	0.4396	
60 minute summer	MH6	1.002	MH4	31.4	0.802	0.071	0.7533	
60 minute summer	MH5	3.000	MH4	4.0	0.251	0.009	0.3711	
60 minute summer	MH4	1.003	MH2	36.5	0.886	0.083	0.8416	
60 minute summer	MH3	4.000	MH2	2.6	0.137	0.006	0.3970	
60 minute summer	MH2	1.004	MH1	44.3	0.814	0.091	1.4493	
60 minute summer	MH1	1.005	MH1.1	49.8	0.994	0.387	0.9395	
60 minute summer	MH1.1	1.006	NEW SW 1	51.3	1.115	0.364	0.3511	
60 minute summer	NEW SW 1	EX1.000	EX SW 1	48.6	2.762	1.831	0.3054	57.3
60 minute summer	MH16	5.000	MH17	9.1	1.381	0.048	0.1460	
60 minute summer	MH14	6.000	MH15	2.6	1.290	0.063	0.0229	
60 minute summer	MH15	6.001	MH17	4.3	0.296	0.014	0.1543	
60 minute summer	MH17	5.001	MH19	13.3	0.319	0.027	3.1510	
60 minute summer	MH11	7.000	MH12	8.3	0.413	0.018	0.7118	
60 minute summer	MH12	7.001	MH13	17.6	0.523	0.058	1.8761	
60 minute summer	MH10	8.000	MH13	11.5	0.436	0.038	1.7361	
60 minute summer	MH13	7.002	MH19	59.6	0.763	0.074	0.8118	
60 minute summer	MH18	5.003	EX SW 3	38.8	3.331	0.217	0.0732	49.1
60 minute summer	MH19	5.002	MH18	36.7	2.253	0.079	0.1415	

Results for 1 year 60 minute winter. 300 minute analysis at 1 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute winter	MH9	33	93.718	0.068	9.1	0.2570	0.0000	OK
60 minute winter	MH8	34	93.631	0.078	16.5	0.2675	0.0000	OK
60 minute winter	MH7	33	93.526	0.045	5.1	0.1453	0.0000	OK
60 minute winter	MH6	34	93.511	0.103	26.0	0.3187	0.0000	OK
60 minute winter	MH5	34	93.440	0.063	3.5	0.1878	0.0000	OK
60 minute winter	MH4	34	93.440	0.111	30.3	0.2953	0.0000	OK
60 minute winter	MH3	35	93.356	0.058	2.3	0.1642	0.0000	OK
60 minute winter	MH2	34	93.356	0.111	37.0	0.3412	0.0000	OK
60 minute winter	MH1	35	93.271	0.158	41.6	0.4851	0.0000	OK
60 minute winter	MH1.1	35	93.191	0.156	42.9	0.2978	0.0000	OK
60 minute winter	NEW SW 1	37	92.545	0.906	42.9	1.6010	0.0000	SURCHARGED
60 minute winter	EX SW 1	29	91.392	0.142	42.1	0.0000	0.0000	OK
60 minute winter	MH16	33	95.681	0.041	7.4	0.1283	0.0000	OK
60 minute winter	MH14	33	95.798	0.023	2.1	0.0440	0.0000	OK
60 minute winter	MH15	33	94.766	0.048	3.6	0.1524	0.0000	OK
60 minute winter	MH17	34	94.758	0.061	11.0	0.1813	0.0000	OK
60 minute winter	MH11	33	94.850	0.050	6.7	0.1802	0.0000	OK
60 minute winter	MH12	34	94.738	0.088	13.8	0.2985	0.0000	OK
60 minute winter	MH10	36	94.726	0.081	9.1	0.3180	0.0000	OK
60 minute winter	MH13	37	94.748	0.170	49.2	0.5056	0.0000	OK
60 minute winter	MH18	40	94.078	0.078	36.2	0.2343	0.0000	OK
60 minute winter	MH19	33	94.739	0.278	76.9	1.2563	0.0000	OK
60 minute winter	EX SW 3	40	93.336	0.069	36.9	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
60 minute winter	MH9	1.000	MH8	9.1	0.468	0.028	0.8435	
60 minute winter	MH8	1.001	MH6	16.4	0.616	0.037	0.9471	
60 minute winter	MH7	2.000	MH6	5.1	0.259	0.012	0.3819	
60 minute winter	MH6	1.002	MH4	25.9	0.766	0.059	0.6517	
60 minute winter	MH5	3.000	MH4	3.4	0.262	0.008	0.3110	
60 minute winter	MH4	1.003	MH2	30.3	0.848	0.069	0.7290	
60 minute winter	MH3	4.000	MH2	2.3	0.149	0.005	0.3305	
60 minute winter	MH2	1.004	MH1	37.0	0.787	0.076	1.2525	
60 minute winter	MH1	1.005	MH1.1	41.6	0.953	0.324	0.8194	
60 minute winter	MH1.1	1.006	NEW SW 1	42.9	1.064	0.304	0.3076	
60 minute winter	NEW SW 1	EX1.000	EX SW 1	42.1	2.392	1.586	0.3054	64.1
60 minute winter	MH16	5.000	MH17	7.4	1.301	0.039	0.1261	
60 minute winter	MH14	6.000	MH15	2.1	1.214	0.051	0.0196	
60 minute winter	MH15	6.001	MH17	3.6	0.284	0.012	0.1333	
60 minute winter	MH17	5.001	MH19	10.9	0.328	0.022	3.2727	
60 minute winter	MH11	7.000	MH12	6.7	0.384	0.015	0.6226	
60 minute winter	MH12	7.001	MH13	13.8	0.505	0.045	1.6239	
60 minute winter	MH10	8.000	MH13	10.6	0.418	0.035	1.4782	
60 minute winter	MH13	7.002	MH19	66.0	0.774	0.081	0.7429	
60 minute winter	MH18	5.003	EX SW 3	36.9	3.282	0.206	0.0709	55.0
60 minute winter	MH19	5.002	MH18	36.2	2.244	0.078	0.1402	

Results for 1 year 120 minute summer. 360 minute analysis at 2 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
120 minute summer	MH9	64	93.712	0.062	7.6	0.2360	0.0000	OK
120 minute summer	MH8	64	93.624	0.071	13.8	0.2458	0.0000	OK
120 minute summer	MH7	64	93.522	0.041	4.2	0.1332	0.0000	OK
120 minute summer	MH6	64	93.501	0.093	21.7	0.2888	0.0000	OK
120 minute summer	MH5	64	93.430	0.053	2.9	0.1572	0.0000	OK
120 minute summer	MH4	64	93.429	0.100	25.2	0.2676	0.0000	OK
120 minute summer	MH3	64	93.345	0.047	1.9	0.1335	0.0000	OK
120 minute summer	MH2	66	93.345	0.100	30.7	0.3077	0.0000	OK
120 minute summer	MH1	66	93.255	0.142	34.5	0.4347	0.0000	OK
120 minute summer	MH1.1	66	93.176	0.141	35.6	0.2687	0.0000	OK
120 minute summer	NEW SW 1	66	92.192	0.553	35.7	0.9773	0.0000	SURCHARGED
120 minute summer	EX SW 1	62	91.392	0.142	35.0	0.0000	0.0000	OK
120 minute summer	MH16	64	95.678	0.038	6.2	0.1177	0.0000	OK
120 minute summer	MH14	64	95.796	0.021	1.7	0.0397	0.0000	OK
120 minute summer	MH15	64	94.761	0.043	2.9	0.1357	0.0000	OK
120 minute summer	MH17	64	94.753	0.056	9.1	0.1661	0.0000	OK
120 minute summer	MH11	64	94.846	0.046	5.6	0.1658	0.0000	OK
120 minute summer	MH12	64	94.728	0.078	11.6	0.2650	0.0000	OK
120 minute summer	MH10	66	94.712	0.067	7.7	0.2618	0.0000	OK
120 minute summer	MH13	70	94.710	0.132	40.9	0.3931	0.0000	OK
120 minute summer	MH18	66	94.071	0.071	31.8	0.2130	0.0000	OK
120 minute summer	MH19	68	94.724	0.263	52.6	1.1909	0.0000	OK
120 minute summer	EX SW 3	66	93.331	0.064	31.9	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
120 minute summer	MH9	1.000	MH8	7.6	0.445	0.023	0.7461	
120 minute summer	MH8	1.001	MH6	13.7	0.590	0.031	0.8274	
120 minute summer	MH7	2.000	MH6	4.2	0.248	0.010	0.3323	
120 minute summer	MH6	1.002	MH4	21.5	0.732	0.049	0.5651	
120 minute summer	MH5	3.000	MH4	2.8	0.202	0.007	0.2601	
120 minute summer	MH4	1.003	MH2	25.0	0.810	0.057	0.6300	
120 minute summer	MH3	4.000	MH2	1.8	0.116	0.004	0.2733	
120 minute summer	MH2	1.004	MH1	30.6	0.757	0.063	1.0759	
120 minute summer	MH1	1.005	MH1.1	34.5	0.911	0.269	0.7107	
120 minute summer	MH1.1	1.006	NEW SW 1	35.7	1.014	0.253	0.2687	
120 minute summer	NEW SW 1	EX1.000	EX SW 1	35.0	1.991	1.320	0.3054	73.1
120 minute summer	MH16	5.000	MH17	6.2	1.234	0.033	0.1114	
120 minute summer	MH14	6.000	MH15	1.7	1.141	0.041	0.0169	
120 minute summer	MH15	6.001	MH17	2.9	0.266	0.009	0.1151	
120 minute summer	MH17	5.001	MH19	9.0	0.287	0.018	3.0077	
120 minute summer	MH11	7.000	MH12	5.6	0.365	0.012	0.5322	
120 minute summer	MH12	7.001	MH13	11.5	0.489	0.038	1.2003	
120 minute summer	MH10	8.000	MH13	8.4	0.404	0.027	1.0375	
120 minute summer	MH13	7.002	MH19	43.6	0.623	0.054	0.6378	
120 minute summer	MH18	5.003	EX SW 3	31.9	3.175	0.178	0.0630	62.6
120 minute summer	MH19	5.002	MH18	31.8	2.197	0.069	0.1259	

Results for 1 year 120 minute winter. 360 minute analysis at 2 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
120 minute winter	MH9	64	93.705	0.055	5.9	0.2095	0.0000	OK
120 minute winter	MH8	64	93.616	0.063	10.7	0.2185	0.0000	OK
120 minute winter	MH7	64	93.518	0.037	3.3	0.1190	0.0000	OK
120 minute winter	MH6	64	93.490	0.082	17.0	0.2547	0.0000	OK
120 minute winter	MH5	66	93.419	0.042	2.2	0.1234	0.0000	OK
120 minute winter	MH4	66	93.418	0.089	19.8	0.2369	0.0000	OK
120 minute winter	MH3	66	93.335	0.037	1.5	0.1032	0.0000	OK
120 minute winter	MH2	66	93.334	0.089	24.2	0.2747	0.0000	OK
120 minute winter	MH1	66	93.237	0.124	27.3	0.3811	0.0000	OK
120 minute winter	MH1.1	66	93.159	0.124	28.2	0.2361	0.0000	OK
120 minute winter	NEW SW 1	68	91.903	0.264	28.2	0.4660	0.0000	SURCHARGED
120 minute winter	EX SW 1	68	91.392	0.142	28.0	0.0000	0.0000	OK
120 minute winter	MH16	64	95.673	0.033	4.8	0.1042	0.0000	OK
120 minute winter	MH14	64	95.794	0.019	1.3	0.0348	0.0000	OK
120 minute winter	MH15	66	94.755	0.037	2.2	0.1164	0.0000	OK
120 minute winter	MH17	64	94.746	0.049	7.0	0.1472	0.0000	OK
120 minute winter	MH11	64	94.841	0.041	4.3	0.1473	0.0000	OK
120 minute winter	MH12	64	94.719	0.069	8.9	0.2343	0.0000	OK
120 minute winter	MH10	64	94.702	0.057	5.9	0.2216	0.0000	OK
120 minute winter	MH13	68	94.685	0.107	23.3	0.3171	0.0000	OK
120 minute winter	MH18	66	94.061	0.061	24.9	0.1809	0.0000	OK
120 minute winter	MH19	66	94.692	0.231	45.8	1.0434	0.0000	OK
120 minute winter	EX SW 3	68	93.322	0.055	24.0	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
120 minute winter	MH9	1.000	MH8	5.9	0.411	0.018	0.6260	
120 minute winter	MH8	1.001	MH6	10.7	0.549	0.024	0.6916	
120 minute winter	MH7	2.000	MH6	3.3	0.229	0.008	0.2779	
120 minute winter	MH6	1.002	MH4	16.9	0.689	0.038	0.4718	
120 minute winter	MH5	3.000	MH4	2.2	0.206	0.005	0.2078	
120 minute winter	MH4	1.003	MH2	19.8	0.760	0.045	0.5311	
120 minute winter	MH3	4.000	MH2	1.5	0.121	0.003	0.2204	
120 minute winter	MH2	1.004	MH1	24.2	0.717	0.050	0.8997	
120 minute winter	MH1	1.005	MH1.1	27.3	0.861	0.213	0.5947	
120 minute winter	MH1.1	1.006	NEW SW 1	28.2	0.953	0.200	0.2259	
120 minute winter	NEW SW 1	EX1.000	EX SW 1	28.0	1.630	1.056	0.3054	81.9
120 minute winter	MH16	5.000	MH17	4.8	1.145	0.025	0.0930	
120 minute winter	MH14	6.000	MH15	1.3	1.053	0.031	0.0140	
120 minute winter	MH15	6.001	MH17	2.2	0.252	0.007	0.0943	
120 minute winter	MH17	5.001	MH19	7.0	0.262	0.014	2.5427	
120 minute winter	MH11	7.000	MH12	4.3	0.336	0.009	0.4440	
120 minute winter	MH12	7.001	MH13	9.0	0.477	0.029	0.9184	
120 minute winter	MH10	8.000	MH13	5.9	0.387	0.019	0.7821	
120 minute winter	MH13	7.002	MH19	38.9	0.652	0.048	0.5292	
120 minute winter	MH18	5.003	EX SW 3	24.0	2.966	0.134	0.0507	70.1
120 minute winter	MH19	5.002	MH18	24.9	2.085	0.054	0.1039	

Results for 1 year 180 minute summer. 420 minute analysis at 4 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
180 minute summer	MH9	96	93.705	0.055	5.8	0.2080	0.0000	OK
180 minute summer	MH8	96	93.616	0.063	10.5	0.2168	0.0000	OK
180 minute summer	MH7	96	93.517	0.036	3.2	0.1173	0.0000	OK
180 minute summer	MH6	96	93.489	0.081	16.6	0.2519	0.0000	OK
180 minute summer	MH5	96	93.418	0.041	2.2	0.1209	0.0000	OK
180 minute summer	MH4	96	93.417	0.088	19.5	0.2348	0.0000	OK
180 minute summer	MH3	96	93.334	0.036	1.5	0.1014	0.0000	OK
180 minute summer	MH2	96	93.334	0.089	23.9	0.2725	0.0000	OK
180 minute summer	MH1	96	93.236	0.123	26.9	0.3773	0.0000	OK
180 minute summer	MH1.1	96	93.157	0.122	27.7	0.2336	0.0000	OK
180 minute summer	NEW SW 1	100	91.862	0.223	27.6	0.3939	0.0000	SURCHARGED
180 minute summer	EX SW 1	100	91.391	0.141	26.9	0.0000	0.0000	OK
180 minute summer	MH16	96	95.673	0.033	4.7	0.1031	0.0000	OK
180 minute summer	MH14	96	95.794	0.019	1.3	0.0348	0.0000	OK
180 minute summer	MH15	96	94.755	0.037	2.2	0.1161	0.0000	OK
180 minute summer	MH17	96	94.746	0.049	6.9	0.1462	0.0000	OK
180 minute summer	MH11	96	94.841	0.041	4.3	0.1473	0.0000	OK
180 minute summer	MH12	96	94.719	0.069	8.9	0.2343	0.0000	OK
180 minute summer	MH10	96	94.702	0.057	5.9	0.2216	0.0000	OK
180 minute summer	MH13	100	94.687	0.109	17.3	0.3240	0.0000	OK
180 minute summer	MH18	100	94.055	0.055	19.5	0.1636	0.0000	OK
180 minute summer	MH19	96	94.662	0.201	39.4	0.9086	0.0000	OK
180 minute summer	EX SW 3	100	93.317	0.050	19.8	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
180 minute summer	MH9	1.000	MH8	5.8	0.409	0.018	0.6189	
180 minute summer	MH8	1.001	MH6	10.5	0.548	0.024	0.6819	
180 minute summer	MH7	2.000	MH6	3.2	0.229	0.007	0.2731	
180 minute summer	MH6	1.002	MH4	16.6	0.684	0.038	0.4655	
180 minute summer	MH5	3.000	MH4	2.2	0.174	0.005	0.2042	
180 minute summer	MH4	1.003	MH2	19.4	0.755	0.044	0.5247	
180 minute summer	MH3	4.000	MH2	1.5	0.099	0.003	0.2173	
180 minute summer	MH2	1.004	MH1	23.8	0.715	0.049	0.8879	
180 minute summer	MH1	1.005	MH1.1	26.8	0.858	0.209	0.5863	
180 minute summer	MH1.1	1.006	NEW SW 1	27.6	0.947	0.196	0.2225	
180 minute summer	NEW SW 1	EX1.000	EX SW 1	26.9	1.630	1.014	0.3047	82.9
180 minute summer	MH16	5.000	MH17	4.7	1.137	0.025	0.0916	
180 minute summer	MH14	6.000	MH15	1.3	1.053	0.031	0.0140	
180 minute summer	MH15	6.001	MH17	2.2	0.249	0.007	0.0936	
180 minute summer	MH17	5.001	MH19	6.9	0.186	0.014	2.1477	
180 minute summer	MH11	7.000	MH12	4.3	0.336	0.009	0.4440	
180 minute summer	MH12	7.001	MH13	9.0	0.480	0.029	0.9440	
180 minute summer	MH10	8.000	MH13	5.9	0.390	0.019	0.8055	
180 minute summer	MH13	7.002	MH19	32.9	0.651	0.041	0.4966	
180 minute summer	MH18	5.003	EX SW 3	19.8	2.811	0.110	0.0441	69.4
180 minute summer	MH19	5.002	MH18	19.5	1.949	0.042	0.0872	

Results for 1 year 180 minute winter. 420 minute analysis at 4 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
180 minute winter	MH9	96	93.699	0.049	4.5	0.1847	0.0000	OK
180 minute winter	MH8	96	93.609	0.056	8.2	0.1928	0.0000	OK
180 minute winter	MH7	96	93.513	0.032	2.5	0.1043	0.0000	OK
180 minute winter	MH6	96	93.480	0.072	13.0	0.2226	0.0000	OK
180 minute winter	MH5	96	93.408	0.031	1.7	0.0909	0.0000	OK
180 minute winter	MH4	96	93.407	0.078	15.2	0.2074	0.0000	OK
180 minute winter	MH3	96	93.324	0.026	1.1	0.0734	0.0000	OK
180 minute winter	MH2	96	93.324	0.079	18.6	0.2418	0.0000	OK
180 minute winter	MH1	96	93.220	0.107	20.9	0.3288	0.0000	OK
180 minute winter	MH1.1	96	93.142	0.107	21.6	0.2044	0.0000	OK
180 minute winter	NEW SW 1	96	91.750	0.111	21.6	0.1954	0.0000	OK
180 minute winter	EX SW 1	96	91.352	0.102	21.6	0.0000	0.0000	OK
180 minute winter	MH16	96	95.669	0.029	3.7	0.0917	0.0000	OK
180 minute winter	MH14	96	95.791	0.016	1.0	0.0307	0.0000	OK
180 minute winter	MH15	96	94.750	0.032	1.7	0.1005	0.0000	OK
180 minute winter	MH17	96	94.741	0.044	5.4	0.1307	0.0000	OK
180 minute winter	MH11	96	94.836	0.036	3.3	0.1300	0.0000	OK
180 minute winter	MH12	92	94.711	0.061	6.8	0.2076	0.0000	OK
180 minute winter	MH10	96	94.695	0.050	4.5	0.1951	0.0000	OK
180 minute winter	MH13	100	94.658	0.080	13.1	0.2392	0.0000	OK
180 minute winter	MH18	104	94.054	0.054	19.2	0.1615	0.0000	OK
180 minute winter	MH19	104	94.656	0.195	30.8	0.8833	0.0000	OK
180 minute winter	EX SW 3	104	93.316	0.049	19.1	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
180 minute winter	MH9	1.000	MH8	4.5	0.379	0.014	0.5202	
180 minute winter	MH8	1.001	MH6	8.2	0.512	0.019	0.5711	
180 minute winter	MH7	2.000	MH6	2.5	0.213	0.006	0.2285	
180 minute winter	MH6	1.002	MH4	13.0	0.643	0.030	0.3884	
180 minute winter	MH5	3.000	MH4	1.7	0.139	0.004	0.1615	
180 minute winter	MH4	1.003	MH2	15.2	0.705	0.034	0.4389	
180 minute winter	MH3	4.000	MH2	1.1	0.098	0.003	0.1717	
180 minute winter	MH2	1.004	MH1	18.5	0.672	0.038	0.7347	
180 minute winter	MH1	1.005	MH1.1	20.9	0.807	0.163	0.4857	
180 minute winter	MH1.1	1.006	NEW SW 1	21.6	0.887	0.153	0.1856	
180 minute winter	NEW SW 1	EX1.000	EX SW 1	21.6	1.613	0.812	0.2343	93.6
180 minute winter	MH16	5.000	MH17	3.7	1.059	0.019	0.0774	
180 minute winter	MH14	6.000	MH15	1.0	0.975	0.024	0.0116	
180 minute winter	MH15	6.001	MH17	1.7	0.235	0.006	0.0778	
180 minute winter	MH17	5.001	MH19	5.4	0.294	0.011	2.0246	
180 minute winter	MH11	7.000	MH12	3.3	0.310	0.007	0.3708	
180 minute winter	MH12	7.001	MH13	6.8	0.471	0.022	0.6660	
180 minute winter	MH10	8.000	MH13	4.5	0.375	0.015	0.5564	
180 minute winter	MH13	7.002	MH19	25.4	0.558	0.031	0.4062	
180 minute winter	MH18	5.003	EX SW 3	19.1	2.778	0.107	0.0432	80.3
180 minute winter	MH19	5.002	MH18	19.2	1.952	0.041	0.0854	

Results for 1 year 240 minute summer. 480 minute analysis at 4 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
240 minute summer	MH9	124	93.701	0.051	5.0	0.1928	0.0000	OK
240 minute summer	MH8	124	93.611	0.058	9.0	0.2003	0.0000	OK
240 minute summer	MH7	124	93.515	0.034	2.8	0.1095	0.0000	OK
240 minute summer	MH6	124	93.483	0.075	14.2	0.2314	0.0000	OK
240 minute summer	MH5	128	93.410	0.033	1.9	0.0993	0.0000	OK
240 minute summer	MH4	128	93.410	0.081	16.4	0.2150	0.0000	OK
240 minute summer	MH3	128	93.327	0.029	1.3	0.0819	0.0000	OK
240 minute summer	MH2	128	93.327	0.082	20.1	0.2511	0.0000	OK
240 minute summer	MH1	128	93.225	0.112	22.6	0.3437	0.0000	OK
240 minute summer	MH1.1	128	93.147	0.112	23.4	0.2137	0.0000	OK
240 minute summer	NEW SW 1	128	91.759	0.120	23.5	0.2114	0.0000	OK
240 minute summer	EX SW 1	128	91.360	0.110	23.5	0.0000	0.0000	OK
240 minute summer	MH16	124	95.671	0.031	4.1	0.0961	0.0000	OK
240 minute summer	MH14	124	95.792	0.017	1.1	0.0322	0.0000	OK
240 minute summer	MH15	128	94.752	0.034	1.9	0.1068	0.0000	OK
240 minute summer	MH17	124	94.743	0.046	6.0	0.1360	0.0000	OK
240 minute summer	MH11	124	94.838	0.038	3.7	0.1367	0.0000	OK
240 minute summer	MH12	124	94.714	0.064	7.6	0.2175	0.0000	OK
240 minute summer	MH10	124	94.698	0.053	5.1	0.2055	0.0000	OK
240 minute summer	MH13	124	94.654	0.076	16.4	0.2252	0.0000	OK
240 minute summer	MH18	128	94.058	0.058	22.1	0.1742	0.0000	OK
240 minute summer	MH19	128	94.672	0.211	27.3	0.9540	0.0000	OK
240 minute summer	EX SW 3	128	93.320	0.053	21.9	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
240 minute summer	MH9	1.000	MH8	4.9	0.391	0.015	0.5522	
240 minute summer	MH8	1.001	MH6	8.9	0.526	0.020	0.6045	
240 minute summer	MH7	2.000	MH6	2.8	0.220	0.006	0.2427	
240 minute summer	MH6	1.002	MH4	14.0	0.656	0.032	0.4100	
240 minute summer	MH5	3.000	MH4	1.8	0.246	0.004	0.1731	
240 minute summer	MH4	1.003	MH2	16.3	0.719	0.037	0.4633	
240 minute summer	MH3	4.000	MH2	1.2	0.112	0.003	0.1854	
240 minute summer	MH2	1.004	MH1	20.1	0.684	0.041	0.7811	
240 minute summer	MH1	1.005	MH1.1	22.7	0.824	0.177	0.5169	
240 minute summer	MH1.1	1.006	NEW SW 1	23.5	0.908	0.167	0.1974	
240 minute summer	NEW SW 1	EX1.000	EX SW 1	23.5	1.629	0.886	0.2529	92.4
240 minute summer	MH16	5.000	MH17	4.1	1.089	0.021	0.0828	
240 minute summer	MH14	6.000	MH15	1.1	1.002	0.027	0.0124	
240 minute summer	MH15	6.001	MH17	1.9	0.246	0.006	0.0836	
240 minute summer	MH17	5.001	MH19	5.9	0.196	0.012	2.2510	
240 minute summer	MH11	7.000	MH12	3.7	0.320	0.008	0.3976	
240 minute summer	MH12	7.001	MH13	7.7	0.469	0.025	0.6563	
240 minute summer	MH10	8.000	MH13	5.0	0.378	0.016	0.5437	
240 minute summer	MH13	7.002	MH19	22.1	0.476	0.027	0.4448	
240 minute summer	MH18	5.003	EX SW 3	21.9	2.874	0.122	0.0478	79.4
240 minute summer	MH19	5.002	MH18	22.1	2.021	0.048	0.0951	

Results for 1 year 240 minute winter. 480 minute analysis at 4 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
240 minute winter	MH9	128	93.695	0.045	3.7	0.1687	0.0000	OK
240 minute winter	MH8	128	93.604	0.051	6.7	0.1755	0.0000	OK
240 minute winter	MH7	128	93.511	0.030	2.1	0.0963	0.0000	OK
240 minute winter	MH6	128	93.473	0.065	10.7	0.2022	0.0000	OK
240 minute winter	MH5	124	93.402	0.025	1.4	0.0743	0.0000	OK
240 minute winter	MH4	128	93.400	0.071	12.5	0.1883	0.0000	OK
240 minute winter	MH3	124	93.318	0.020	0.9	0.0577	0.0000	OK
240 minute winter	MH2	128	93.317	0.072	15.3	0.2206	0.0000	OK
240 minute winter	MH1	128	93.210	0.097	17.3	0.2969	0.0000	OK
240 minute winter	MH1.1	128	93.132	0.097	17.9	0.1850	0.0000	OK
240 minute winter	NEW SW 1	128	91.735	0.096	17.9	0.1694	0.0000	OK
240 minute winter	EX SW 1	128	91.340	0.090	17.9	0.0000	0.0000	OK
240 minute winter	MH16	124	95.667	0.027	3.0	0.0831	0.0000	OK
240 minute winter	MH14	124	95.790	0.015	0.9	0.0290	0.0000	OK
240 minute winter	MH15	124	94.748	0.030	1.5	0.0942	0.0000	OK
240 minute winter	MH17	124	94.737	0.040	4.5	0.1199	0.0000	OK
240 minute winter	MH11	124	94.833	0.033	2.8	0.1198	0.0000	OK
240 minute winter	MH12	124	94.708	0.058	5.7	0.1976	0.0000	OK
240 minute winter	MH10	124	94.691	0.046	3.8	0.1799	0.0000	OK
240 minute winter	MH13	128	94.632	0.054	11.0	0.1600	0.0000	OK
240 minute winter	MH18	132	94.048	0.048	15.3	0.1423	0.0000	OK
240 minute winter	MH19	132	94.635	0.174	17.5	0.7865	0.0000	OK
240 minute winter	EX SW 3	132	93.311	0.044	15.1	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
240 minute winter	MH9	1.000	MH8	3.7	0.356	0.011	0.4533	
240 minute winter	MH8	1.001	MH6	6.7	0.481	0.015	0.4950	
240 minute winter	MH7	2.000	MH6	2.1	0.203	0.005	0.1988	
240 minute winter	MH6	1.002	MH4	10.7	0.611	0.024	0.3367	
240 minute winter	MH5	3.000	MH4	1.4	0.160	0.003	0.1356	
240 minute winter	MH4	1.003	MH2	12.5	0.667	0.028	0.3826	
240 minute winter	MH3	4.000	MH2	0.9	0.119	0.002	0.1453	
240 minute winter	MH2	1.004	MH1	15.3	0.638	0.031	0.6376	
240 minute winter	MH1	1.005	MH1.1	17.3	0.769	0.135	0.4216	
240 minute winter	MH1.1	1.006	NEW SW 1	17.9	0.843	0.127	0.1619	
240 minute winter	NEW SW 1	EX1.000	EX SW 1	17.9	1.561	0.674	0.2009	103.6
240 minute winter	MH16	5.000	MH17	3.0	0.998	0.016	0.0667	
240 minute winter	MH14	6.000	MH15	0.9	0.941	0.021	0.0107	
240 minute winter	MH15	6.001	MH17	1.5	0.225	0.005	0.0689	
240 minute winter	MH17	5.001	MH19	4.5	0.198	0.009	1.7351	
240 minute winter	MH11	7.000	MH12	2.8	0.285	0.006	0.3403	
240 minute winter	MH12	7.001	MH13	5.8	0.461	0.019	0.4687	
240 minute winter	MH10	8.000	MH13	3.8	0.368	0.012	0.3702	
240 minute winter	MH13	7.002	MH19	13.1	0.439	0.016	0.3340	
240 minute winter	MH18	5.003	EX SW 3	15.1	2.617	0.085	0.0363	88.7
240 minute winter	MH19	5.002	MH18	15.3	1.850	0.033	0.0717	

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

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
360 minute summer	MH9	184	93.695	0.045	3.9	0.1716	0.0000	OK
360 minute summer	MH8	184	93.605	0.052	7.0	0.1783	0.0000	OK
360 minute summer	MH7	184	93.511	0.030	2.2	0.0979	0.0000	OK
360 minute summer	MH6	184	93.474	0.066	11.1	0.2048	0.0000	OK
360 minute summer	MH5	184	93.403	0.026	1.5	0.0763	0.0000	OK
360 minute summer	MH4	184	93.400	0.071	12.8	0.1900	0.0000	OK
360 minute summer	MH3	184	93.319	0.021	1.0	0.0602	0.0000	OK
360 minute summer	MH2	184	93.317	0.072	15.7	0.2224	0.0000	OK
360 minute summer	MH1	184	93.210	0.097	17.7	0.2989	0.0000	OK
360 minute summer	MH1.1	184	93.132	0.097	18.1	0.1856	0.0000	OK
360 minute summer	NEW SW 1	184	91.735	0.096	18.0	0.1697	0.0000	OK
360 minute summer	EX SW 1	184	91.340	0.090	17.9	0.0000	0.0000	OK
360 minute summer	MH16	184	95.667	0.027	3.2	0.0854	0.0000	OK
360 minute summer	MH14	184	95.791	0.016	0.9	0.0291	0.0000	OK
360 minute summer	MH15	184	94.748	0.030	1.5	0.0943	0.0000	OK
360 minute summer	MH17	184	94.738	0.041	4.7	0.1215	0.0000	OK
360 minute summer	MH11	184	94.834	0.034	2.9	0.1214	0.0000	OK
360 minute summer	MH12	184	94.709	0.059	6.0	0.2011	0.0000	OK
360 minute summer	MH10	184	94.691	0.046	3.9	0.1814	0.0000	OK
360 minute summer	MH13	184	94.628	0.050	11.3	0.1474	0.0000	OK
360 minute summer	MH18	192	94.048	0.048	15.4	0.1432	0.0000	OK
360 minute summer	MH19	192	94.636	0.175	15.6	0.7896	0.0000	OK
360 minute summer	EX SW 3	192	93.311	0.044	15.3	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
360 minute summer	MH9	1.000	MH8	3.8	0.361	0.012	0.4643	
360 minute summer	MH8	1.001	MH6	6.9	0.487	0.016	0.5051	
360 minute summer	MH7	2.000	MH6	2.2	0.206	0.005	0.2028	
360 minute summer	MH6	1.002	MH4	10.9	0.615	0.025	0.3421	
360 minute summer	MH5	3.000	MH4	1.5	0.140	0.003	0.1381	
360 minute summer	MH4	1.003	MH2	12.7	0.669	0.029	0.3876	
360 minute summer	MH3	4.000	MH2	1.0	0.098	0.002	0.1481	
360 minute summer	MH2	1.004	MH1	15.6	0.642	0.032	0.6446	
360 minute summer	MH1	1.005	MH1.1	17.5	0.772	0.136	0.4246	
360 minute summer	MH1.1	1.006	NEW SW 1	18.0	0.843	0.127	0.1626	
360 minute summer	NEW SW 1	EX1.000	EX SW 1	17.9	1.561	0.675	0.2012	104.8
360 minute summer	MH16	5.000	MH17	3.2	1.014	0.017	0.0695	
360 minute summer	MH14	6.000	MH15	0.9	0.942	0.022	0.0108	
360 minute summer	MH15	6.001	MH17	1.5	0.223	0.005	0.0699	
360 minute summer	MH17	5.001	MH19	4.6	0.218	0.009	1.7404	
360 minute summer	MH11	7.000	MH12	2.9	0.286	0.006	0.3486	
360 minute summer	MH12	7.001	MH13	5.9	0.466	0.019	0.4538	
360 minute summer	MH10	8.000	MH13	3.8	0.367	0.013	0.3507	
360 minute summer	MH13	7.002	MH19	11.4	0.319	0.014	0.3337	
360 minute summer	MH18	5.003	EX SW 3	15.3	2.625	0.086	0.0366	90.5
360 minute summer	MH19	5.002	MH18	15.4	1.853	0.033	0.0722	

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

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
360 minute winter	MH9	192	93.689	0.039	2.8	0.1490	0.0000	OK
360 minute winter	MH8	192	93.598	0.045	5.1	0.1546	0.0000	OK
360 minute winter	MH7	184	93.507	0.026	1.6	0.0853	0.0000	OK
360 minute winter	MH6	184	93.465	0.057	8.1	0.1754	0.0000	OK
360 minute winter	MH5	184	93.399	0.022	1.1	0.0665	0.0000	OK
360 minute winter	MH4	184	93.391	0.062	9.5	0.1641	0.0000	OK
360 minute winter	MH3	184	93.316	0.018	0.7	0.0515	0.0000	OK
360 minute winter	MH2	184	93.308	0.063	11.7	0.1941	0.0000	OK
360 minute winter	MH1	184	93.197	0.084	13.2	0.2566	0.0000	OK
360 minute winter	MH1.1	184	93.119	0.084	13.5	0.1596	0.0000	OK
360 minute winter	NEW SW 1	184	91.719	0.080	13.5	0.1407	0.0000	OK
360 minute winter	EX SW 1	184	91.326	0.076	13.5	0.0000	0.0000	OK
360 minute winter	MH16	184	95.663	0.023	2.3	0.0732	0.0000	OK
360 minute winter	MH14	184	95.789	0.014	0.7	0.0258	0.0000	OK
360 minute winter	MH15	184	94.745	0.027	1.2	0.0853	0.0000	OK
360 minute winter	MH17	184	94.733	0.036	3.5	0.1061	0.0000	OK
360 minute winter	MH11	184	94.829	0.029	2.1	0.1051	0.0000	OK
360 minute winter	MH12	184	94.701	0.051	4.3	0.1738	0.0000	OK
360 minute winter	MH10	184	94.686	0.041	2.9	0.1594	0.0000	OK
360 minute winter	MH13	184	94.621	0.043	8.4	0.1266	0.0000	OK
360 minute winter	MH18	184	94.041	0.041	11.7	0.1237	0.0000	OK
360 minute winter	MH19	184	94.612	0.151	11.8	0.6821	0.0000	OK
360 minute winter	EX SW 3	184	93.306	0.039	11.7	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
360 minute winter	MH9	1.000	MH8	2.8	0.326	0.009	0.3750	
360 minute winter	MH8	1.001	MH6	5.1	0.450	0.012	0.4058	
360 minute winter	MH7	2.000	MH6	1.6	0.189	0.004	0.1618	
360 minute winter	MH6	1.002	MH4	8.1	0.566	0.018	0.2743	
360 minute winter	MH5	3.000	MH4	1.1	0.130	0.003	0.1114	
360 minute winter	MH4	1.003	MH2	9.5	0.615	0.022	0.3145	
360 minute winter	MH3	4.000	MH2	0.7	0.090	0.002	0.1204	
360 minute winter	MH2	1.004	MH1	11.7	0.595	0.024	0.5204	
360 minute winter	MH1	1.005	MH1.1	13.1	0.719	0.102	0.3424	
360 minute winter	MH1.1	1.006	NEW SW 1	13.5	0.781	0.096	0.1320	
360 minute winter	NEW SW 1	EX1.000	EX SW 1	13.5	1.469	0.509	0.1613	118.3
360 minute winter	MH16	5.000	MH17	2.3	0.917	0.012	0.0556	
360 minute winter	MH14	6.000	MH15	0.7	0.875	0.017	0.0090	
360 minute winter	MH15	6.001	MH17	1.2	0.213	0.004	0.0581	
360 minute winter	MH17	5.001	MH19	3.4	0.206	0.007	1.4274	
360 minute winter	MH11	7.000	MH12	2.1	0.261	0.005	0.2799	
360 minute winter	MH12	7.001	MH13	4.3	0.422	0.014	0.3635	
360 minute winter	MH10	8.000	MH13	2.9	0.341	0.009	0.2834	
360 minute winter	MH13	7.002	MH19	8.3	0.386	0.010	0.2715	
360 minute winter	MH18	5.003	EX SW 3	11.7	2.440	0.065	0.0300	100.5
360 minute winter	MH19	5.002	MH18	11.7	1.729	0.025	0.0586	

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

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
480 minute summer	MH9	248	93.691	0.041	3.1	0.1559	0.0000	OK
480 minute summer	MH8	248	93.600	0.047	5.6	0.1614	0.0000	OK
480 minute summer	MH7	248	93.508	0.027	1.7	0.0877	0.0000	OK
480 minute summer	MH6	248	93.467	0.059	8.9	0.1840	0.0000	OK
480 minute summer	MH5	248	93.400	0.023	1.2	0.0692	0.0000	OK
480 minute summer	MH4	248	93.394	0.065	10.5	0.1729	0.0000	OK
480 minute summer	MH3	248	93.317	0.019	0.8	0.0547	0.0000	OK
480 minute summer	MH2	248	93.311	0.066	12.9	0.2038	0.0000	OK
480 minute summer	MH1	248	93.201	0.088	14.6	0.2713	0.0000	OK
480 minute summer	MH1.1	248	93.124	0.089	15.1	0.1691	0.0000	OK
480 minute summer	NEW SW 1	248	91.724	0.085	15.1	0.1509	0.0000	OK
480 minute summer	EX SW 1	248	91.331	0.081	15.1	0.0000	0.0000	OK
480 minute summer	MH16	248	95.664	0.024	2.5	0.0761	0.0000	OK
480 minute summer	MH14	248	95.789	0.014	0.7	0.0259	0.0000	OK
480 minute summer	MH15	248	94.745	0.027	1.2	0.0860	0.0000	OK
480 minute summer	MH17	248	94.734	0.037	3.7	0.1098	0.0000	OK
480 minute summer	MH11	248	94.830	0.030	2.3	0.1098	0.0000	OK
480 minute summer	MH12	248	94.704	0.054	4.8	0.1835	0.0000	OK
480 minute summer	MH10	248	94.687	0.042	3.1	0.1645	0.0000	OK
480 minute summer	MH13	248	94.623	0.045	9.2	0.1324	0.0000	OK
480 minute summer	MH18	248	94.044	0.044	12.9	0.1304	0.0000	OK
480 minute summer	MH19	248	94.620	0.159	12.9	0.7182	0.0000	OK
480 minute summer	EX SW 3	248	93.308	0.041	12.9	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
480 minute summer	MH9	1.000	MH8	3.1	0.337	0.010	0.4011	
480 minute summer	MH8	1.001	MH6	5.6	0.461	0.013	0.4345	
480 minute summer	MH7	2.000	MH6	1.7	0.191	0.004	0.1728	
480 minute summer	MH6	1.002	MH4	8.9	0.579	0.020	0.2952	
480 minute summer	MH5	3.000	MH4	1.2	0.131	0.003	0.1198	
480 minute summer	MH4	1.003	MH2	10.5	0.634	0.024	0.3382	
480 minute summer	MH3	4.000	MH2	0.8	0.116	0.002	0.1296	
480 minute summer	MH2	1.004	MH1	12.9	0.610	0.027	0.5618	
480 minute summer	MH1	1.005	MH1.1	14.6	0.737	0.114	0.3711	
480 minute summer	MH1.1	1.006	NEW SW 1	15.1	0.805	0.107	0.1430	
480 minute summer	NEW SW 1	EX1.000	EX SW 1	15.1	1.506	0.568	0.1756	114.5
480 minute summer	MH16	5.000	MH17	2.5	0.942	0.013	0.0589	
480 minute summer	MH14	6.000	MH15	0.7	0.877	0.017	0.0090	
480 minute summer	MH15	6.001	MH17	1.2	0.210	0.004	0.0602	
480 minute summer	MH17	5.001	MH19	3.7	0.174	0.008	1.5306	
480 minute summer	MH11	7.000	MH12	2.3	0.266	0.005	0.3022	
480 minute summer	MH12	7.001	MH13	4.8	0.440	0.016	0.3917	
480 minute summer	MH10	8.000	MH13	3.1	0.346	0.010	0.3005	
480 minute summer	MH13	7.002	MH19	9.2	0.383	0.011	0.2916	
480 minute summer	MH18	5.003	EX SW 3	12.9	2.506	0.072	0.0322	97.8
480 minute summer	MH19	5.002	MH18	12.9	1.771	0.028	0.0632	

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

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
480 minute winter	MH9	248	93.686	0.036	2.3	0.1354	0.0000	OK
480 minute winter	MH8	248	93.594	0.041	4.2	0.1417	0.0000	OK
480 minute winter	MH7	248	93.505	0.024	1.3	0.0777	0.0000	OK
480 minute winter	MH6	248	93.460	0.052	6.7	0.1600	0.0000	OK
480 minute winter	MH5	248	93.397	0.020	0.9	0.0608	0.0000	OK
480 minute winter	MH4	248	93.385	0.056	7.9	0.1500	0.0000	OK
480 minute winter	MH3	248	93.315	0.017	0.6	0.0481	0.0000	OK
480 minute winter	MH2	248	93.303	0.058	9.7	0.1778	0.0000	OK
480 minute winter	MH1	248	93.189	0.076	10.9	0.2328	0.0000	OK
480 minute winter	MH1.1	248	93.111	0.076	11.3	0.1454	0.0000	OK
480 minute winter	NEW SW 1	248	91.710	0.071	11.3	0.1261	0.0000	OK
480 minute winter	EX SW 1	248	91.318	0.068	11.3	0.0000	0.0000	OK
480 minute winter	MH16	248	95.661	0.021	1.9	0.0670	0.0000	OK
480 minute winter	MH14	224	95.787	0.012	0.5	0.0221	0.0000	OK
480 minute winter	MH15	248	94.742	0.024	0.9	0.0755	0.0000	OK
480 minute winter	MH17	248	94.729	0.032	2.8	0.0962	0.0000	OK
480 minute winter	MH11	248	94.827	0.027	1.7	0.0960	0.0000	OK
480 minute winter	MH12	248	94.697	0.047	3.5	0.1591	0.0000	OK
480 minute winter	MH10	248	94.682	0.037	2.3	0.1432	0.0000	OK
480 minute winter	MH13	248	94.617	0.039	6.7	0.1147	0.0000	OK
480 minute winter	MH18	248	94.037	0.037	9.5	0.1112	0.0000	OK
480 minute winter	MH19	248	94.596	0.135	9.5	0.6126	0.0000	OK
480 minute winter	EX SW 3	248	93.302	0.035	9.5	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
480 minute winter	MH9	1.000	MH8	2.3	0.310	0.007	0.3277	
480 minute winter	MH8	1.001	MH6	4.2	0.421	0.010	0.3538	
480 minute winter	MH7	2.000	MH6	1.3	0.179	0.003	0.1408	
480 minute winter	MH6	1.002	MH4	6.7	0.538	0.015	0.2395	
480 minute winter	MH5	3.000	MH4	0.9	0.122	0.002	0.0974	
480 minute winter	MH4	1.003	MH2	7.9	0.584	0.018	0.2760	
480 minute winter	MH3	4.000	MH2	0.6	0.084	0.001	0.1062	
480 minute winter	MH2	1.004	MH1	9.7	0.569	0.020	0.4539	
480 minute winter	MH1	1.005	MH1.1	10.9	0.684	0.085	0.2988	
480 minute winter	MH1.1	1.006	NEW SW 1	11.3	0.744	0.080	0.1159	
480 minute winter	NEW SW 1	EX1.000	EX SW 1	11.3	1.408	0.425	0.1407	127.8
480 minute winter	MH16	5.000	MH17	1.9	0.865	0.010	0.0487	
480 minute winter	MH14	6.000	MH15	0.5	0.791	0.012	0.0072	
480 minute winter	MH15	6.001	MH17	0.9	0.196	0.003	0.0495	
480 minute winter	MH17	5.001	MH19	2.8	0.223	0.006	1.2264	
480 minute winter	MH11	7.000	MH12	1.7	0.242	0.004	0.2447	
480 minute winter	MH12	7.001	MH13	3.5	0.398	0.011	0.3164	
480 minute winter	MH10	8.000	MH13	2.3	0.317	0.008	0.2428	
480 minute winter	MH13	7.002	MH19	6.7	0.338	0.008	0.2331	
480 minute winter	MH18	5.003	EX SW 3	9.5	2.309	0.053	0.0258	110.1
480 minute winter	MH19	5.002	MH18	9.5	1.639	0.021	0.0504	

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

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
600 minute summer	MH9	315	93.688	0.038	2.6	0.1437	0.0000	OK
600 minute summer	MH8	315	93.596	0.043	4.7	0.1490	0.0000	OK
600 minute summer	MH7	315	93.506	0.025	1.4	0.0804	0.0000	OK
600 minute summer	MH6	315	93.462	0.054	7.4	0.1680	0.0000	OK
600 minute summer	MH5	315	93.398	0.021	1.0	0.0637	0.0000	OK
600 minute summer	MH4	315	93.388	0.059	8.7	0.1573	0.0000	OK
600 minute summer	MH3	315	93.316	0.018	0.7	0.0515	0.0000	OK
600 minute summer	MH2	315	93.306	0.061	10.7	0.1863	0.0000	OK
600 minute summer	MH1	315	93.193	0.080	12.1	0.2458	0.0000	OK
600 minute summer	MH1.1	315	93.115	0.080	12.5	0.1532	0.0000	OK
600 minute summer	NEW SW 1	315	91.715	0.076	12.5	0.1340	0.0000	OK
600 minute summer	EX SW 1	315	91.322	0.072	12.5	0.0000	0.0000	OK
600 minute summer	MH16	315	95.662	0.022	2.1	0.0702	0.0000	OK
600 minute summer	MH14	315	95.788	0.013	0.6	0.0241	0.0000	OK
600 minute summer	MH15	315	94.743	0.025	1.0	0.0793	0.0000	OK
600 minute summer	MH17	315	94.731	0.034	3.1	0.1009	0.0000	OK
600 minute summer	MH11	315	94.828	0.028	1.9	0.1008	0.0000	OK
600 minute summer	MH12	315	94.699	0.049	3.9	0.1669	0.0000	OK
600 minute summer	MH10	315	94.684	0.039	2.6	0.1520	0.0000	OK
600 minute summer	MH13	315	94.619	0.041	7.5	0.1208	0.0000	OK
600 minute summer	MH18	315	94.039	0.039	10.6	0.1178	0.0000	OK
600 minute summer	MH19	315	94.604	0.143	10.6	0.6489	0.0000	OK
600 minute summer	EX SW 3	315	93.304	0.037	10.6	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
600 minute summer	MH9	1.000	MH8	2.6	0.321	0.008	0.3554	
600 minute summer	MH8	1.001	MH6	4.7	0.438	0.011	0.3813	
600 minute summer	MH7	2.000	MH6	1.4	0.180	0.003	0.1506	
600 minute summer	MH6	1.002	MH4	7.4	0.553	0.017	0.2573	
600 minute summer	MH5	3.000	MH4	1.0	0.126	0.002	0.1046	
600 minute summer	MH4	1.003	MH2	8.7	0.600	0.020	0.2959	
600 minute summer	MH3	4.000	MH2	0.7	0.091	0.002	0.1144	
600 minute summer	MH2	1.004	MH1	10.7	0.581	0.022	0.4890	
600 minute summer	MH1	1.005	MH1.1	12.1	0.704	0.094	0.3225	
600 minute summer	MH1.1	1.006	NEW SW 1	12.5	0.764	0.089	0.1246	
600 minute summer	NEW SW 1	EX1.000	EX SW 1	12.5	1.443	0.471	0.1519	121.1
600 minute summer	MH16	5.000	MH17	2.1	0.892	0.011	0.0522	
600 minute summer	MH14	6.000	MH15	0.6	0.838	0.014	0.0081	
600 minute summer	MH15	6.001	MH17	1.0	0.199	0.003	0.0531	
600 minute summer	MH17	5.001	MH19	3.1	0.122	0.006	1.3291	
600 minute summer	MH11	7.000	MH12	1.9	0.253	0.004	0.2633	
600 minute summer	MH12	7.001	MH13	3.9	0.411	0.013	0.3405	
600 minute summer	MH10	8.000	MH13	2.6	0.331	0.008	0.2633	
600 minute summer	MH13	7.002	MH19	7.5	0.278	0.009	0.2527	
600 minute summer	MH18	5.003	EX SW 3	10.6	2.378	0.059	0.0280	104.9
600 minute summer	MH19	5.002	MH18	10.6	1.687	0.023	0.0546	

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

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
600 minute winter	MH9	315	93.683	0.033	2.0	0.1267	0.0000	OK
600 minute winter	MH8	315	93.591	0.038	3.6	0.1320	0.0000	OK
600 minute winter	MH7	315	93.503	0.022	1.1	0.0720	0.0000	OK
600 minute winter	MH6	315	93.456	0.048	5.7	0.1478	0.0000	OK
600 minute winter	MH5	315	93.396	0.019	0.8	0.0576	0.0000	OK
600 minute winter	MH4	315	93.381	0.052	6.7	0.1387	0.0000	OK
600 minute winter	MH3	300	93.314	0.016	0.5	0.0445	0.0000	OK
600 minute winter	MH2	315	93.298	0.053	8.2	0.1645	0.0000	OK
600 minute winter	MH1	315	93.183	0.070	9.3	0.2146	0.0000	OK
600 minute winter	MH1.1	315	93.105	0.070	9.6	0.1337	0.0000	OK
600 minute winter	NEW SW 1	315	91.704	0.065	9.6	0.1146	0.0000	OK
600 minute winter	EX SW 1	315	91.312	0.062	9.6	0.0000	0.0000	OK
600 minute winter	MH16	315	95.660	0.020	1.6	0.0621	0.0000	OK
600 minute winter	MH14	315	95.787	0.012	0.5	0.0221	0.0000	OK
600 minute winter	MH15	315	94.741	0.023	0.8	0.0716	0.0000	OK
600 minute winter	MH17	315	94.727	0.030	2.4	0.0896	0.0000	OK
600 minute winter	MH11	315	94.825	0.025	1.5	0.0907	0.0000	OK
600 minute winter	MH12	315	94.695	0.045	3.1	0.1510	0.0000	OK
600 minute winter	MH10	315	94.679	0.034	2.0	0.1339	0.0000	OK
600 minute winter	MH13	315	94.614	0.036	5.9	0.1078	0.0000	OK
600 minute winter	MH18	315	94.035	0.035	8.3	0.1037	0.0000	OK
600 minute winter	MH19	315	94.587	0.126	8.3	0.5716	0.0000	OK
600 minute winter	EX SW 3	315	93.300	0.033	8.3	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
600 minute winter	MH9	1.000	MH8	2.0	0.295	0.006	0.2958	
600 minute winter	MH8	1.001	MH6	3.6	0.405	0.008	0.3166	
600 minute winter	MH7	2.000	MH6	1.1	0.168	0.003	0.1255	
600 minute winter	MH6	1.002	MH4	5.7	0.514	0.013	0.2130	
600 minute winter	MH5	3.000	MH4	0.8	0.119	0.002	0.0870	
600 minute winter	MH4	1.003	MH2	6.7	0.559	0.015	0.2449	
600 minute winter	MH3	4.000	MH2	0.5	0.095	0.001	0.0942	
600 minute winter	MH2	1.004	MH1	8.2	0.540	0.017	0.4028	
600 minute winter	MH1	1.005	MH1.1	9.3	0.657	0.072	0.2655	
600 minute winter	MH1.1	1.006	NEW SW 1	9.6	0.710	0.068	0.1030	
600 minute winter	NEW SW 1	EX1.000	EX SW 1	9.6	1.352	0.361	0.1244	137.5
600 minute winter	MH16	5.000	MH17	1.6	0.822	0.008	0.0432	
600 minute winter	MH14	6.000	MH15	0.5	0.791	0.012	0.0072	
600 minute winter	MH15	6.001	MH17	0.8	0.191	0.003	0.0448	
600 minute winter	MH17	5.001	MH19	2.4	0.112	0.005	1.1101	
600 minute winter	MH11	7.000	MH12	1.5	0.231	0.003	0.2256	
600 minute winter	MH12	7.001	MH13	3.1	0.385	0.010	0.2914	
600 minute winter	MH10	8.000	MH13	2.0	0.302	0.007	0.2215	
600 minute winter	MH13	7.002	MH19	5.9	0.260	0.007	0.2115	
600 minute winter	MH18	5.003	EX SW 3	8.3	2.226	0.046	0.0234	119.8
600 minute winter	MH19	5.002	MH18	8.3	1.585	0.018	0.0455	

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

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
720 minute summer	MH9	375	93.686	0.036	2.3	0.1354	0.0000	OK
720 minute summer	MH8	375	93.594	0.041	4.2	0.1417	0.0000	OK
720 minute summer	MH7	375	93.505	0.024	1.3	0.0777	0.0000	OK
720 minute summer	MH6	375	93.460	0.052	6.7	0.1600	0.0000	OK
720 minute summer	MH5	375	93.397	0.020	0.9	0.0608	0.0000	OK
720 minute summer	MH4	375	93.385	0.056	7.9	0.1500	0.0000	OK
720 minute summer	MH3	375	93.315	0.017	0.6	0.0481	0.0000	OK
720 minute summer	MH2	375	93.303	0.058	9.7	0.1778	0.0000	OK
720 minute summer	MH1	375	93.189	0.076	10.9	0.2328	0.0000	OK
720 minute summer	MH1.1	375	93.111	0.076	11.3	0.1454	0.0000	OK
720 minute summer	NEW SW 1	375	91.710	0.071	11.3	0.1261	0.0000	OK
720 minute summer	EX SW 1	375	91.318	0.068	11.3	0.0000	0.0000	OK
720 minute summer	MH16	375	95.661	0.021	1.9	0.0670	0.0000	OK
720 minute summer	MH14	375	95.787	0.012	0.5	0.0221	0.0000	OK
720 minute summer	MH15	375	94.742	0.024	0.9	0.0755	0.0000	OK
720 minute summer	MH17	375	94.729	0.032	2.8	0.0962	0.0000	OK
720 minute summer	MH11	375	94.827	0.027	1.7	0.0960	0.0000	OK
720 minute summer	MH12	375	94.697	0.047	3.5	0.1591	0.0000	OK
720 minute summer	MH10	375	94.682	0.037	2.3	0.1432	0.0000	OK
720 minute summer	MH13	375	94.617	0.039	6.7	0.1147	0.0000	OK
720 minute summer	MH18	375	94.037	0.037	9.5	0.1112	0.0000	OK
720 minute summer	MH19	375	94.596	0.135	9.5	0.6127	0.0000	OK
720 minute summer	EX SW 3	375	93.302	0.035	9.5	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
720 minute summer	MH9	1.000	MH8	2.3	0.308	0.007	0.3277	
720 minute summer	MH8	1.001	MH6	4.2	0.421	0.010	0.3538	
720 minute summer	MH7	2.000	MH6	1.3	0.178	0.003	0.1408	
720 minute summer	MH6	1.002	MH4	6.7	0.538	0.015	0.2395	
720 minute summer	MH5	3.000	MH4	0.9	0.121	0.002	0.0974	
720 minute summer	MH4	1.003	MH2	7.9	0.584	0.018	0.2760	
720 minute summer	MH3	4.000	MH2	0.6	0.084	0.001	0.1062	
720 minute summer	MH2	1.004	MH1	9.7	0.569	0.020	0.4539	
720 minute summer	MH1	1.005	MH1.1	10.9	0.684	0.085	0.2988	
720 minute summer	MH1.1	1.006	NEW SW 1	11.3	0.744	0.080	0.1159	
720 minute summer	NEW SW 1	EX1.000	EX SW 1	11.3	1.408	0.425	0.1407	128.9
720 minute summer	MH16	5.000	MH17	1.9	0.865	0.010	0.0487	
720 minute summer	MH14	6.000	MH15	0.5	0.791	0.012	0.0072	
720 minute summer	MH15	6.001	MH17	0.9	0.193	0.003	0.0495	
720 minute summer	MH17	5.001	MH19	2.8	0.119	0.006	1.2265	
720 minute summer	MH11	7.000	MH12	1.7	0.242	0.004	0.2447	
720 minute summer	MH12	7.001	MH13	3.5	0.398	0.011	0.3164	
720 minute summer	MH10	8.000	MH13	2.3	0.317	0.008	0.2428	
720 minute summer	MH13	7.002	MH19	6.7	0.269	0.008	0.2331	
720 minute summer	MH18	5.003	EX SW 3	9.5	2.309	0.053	0.0258	111.4
720 minute summer	MH19	5.002	MH18	9.5	1.640	0.021	0.0504	

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

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
720 minute winter	MH9	360	93.681	0.031	1.7	0.1175	0.0000	OK
720 minute winter	MH8	375	93.589	0.036	3.1	0.1228	0.0000	OK
720 minute winter	MH7	375	93.502	0.021	1.0	0.0690	0.0000	OK
720 minute winter	MH6	375	93.453	0.045	5.0	0.1387	0.0000	OK
720 minute winter	MH5	375	93.395	0.018	0.7	0.0543	0.0000	OK
720 minute winter	MH4	375	93.378	0.049	5.9	0.1302	0.0000	OK
720 minute winter	MH3	330	93.312	0.014	0.4	0.0404	0.0000	OK
720 minute winter	MH2	375	93.295	0.050	7.2	0.1547	0.0000	OK
720 minute winter	MH1	375	93.178	0.065	8.1	0.2002	0.0000	OK
720 minute winter	MH1.1	375	93.100	0.065	8.4	0.1249	0.0000	OK
720 minute winter	NEW SW 1	375	91.699	0.060	8.4	0.1062	0.0000	OK
720 minute winter	EX SW 1	375	91.308	0.058	8.4	0.0000	0.0000	OK
720 minute winter	MH16	360	95.659	0.019	1.4	0.0582	0.0000	OK
720 minute winter	MH14	345	95.786	0.011	0.4	0.0199	0.0000	OK
720 minute winter	MH15	345	94.739	0.021	0.7	0.0674	0.0000	OK
720 minute winter	MH17	360	94.725	0.028	2.1	0.0844	0.0000	OK
720 minute winter	MH11	375	94.824	0.024	1.3	0.0850	0.0000	OK
720 minute winter	MH12	375	94.692	0.042	2.7	0.1418	0.0000	OK
720 minute winter	MH10	375	94.678	0.033	1.8	0.1274	0.0000	OK
720 minute winter	MH13	375	94.612	0.034	5.2	0.1015	0.0000	OK
720 minute winter	MH18	375	94.033	0.033	7.3	0.0971	0.0000	OK
720 minute winter	MH19	375	94.579	0.118	7.3	0.5348	0.0000	OK
720 minute winter	EX SW 3	375	93.298	0.031	7.3	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
720 minute winter	MH9	1.000	MH8	1.7	0.279	0.005	0.2656	
720 minute winter	MH8	1.001	MH6	3.1	0.394	0.007	0.2869	
720 minute winter	MH7	2.000	MH6	1.0	0.166	0.002	0.1149	
720 minute winter	MH6	1.002	MH4	5.0	0.495	0.011	0.1942	
720 minute winter	MH5	3.000	MH4	0.7	0.123	0.002	0.0795	
720 minute winter	MH4	1.003	MH2	5.9	0.537	0.013	0.2240	
720 minute winter	MH3	4.000	MH2	0.4	0.075	0.001	0.0854	
720 minute winter	MH2	1.004	MH1	7.2	0.523	0.015	0.3650	
720 minute winter	MH1	1.005	MH1.1	8.1	0.632	0.063	0.2402	
720 minute winter	MH1.1	1.006	NEW SW 1	8.4	0.685	0.060	0.0935	
720 minute winter	NEW SW 1	EX1.000	EX SW 1	8.4	1.307	0.316	0.1127	146.0
720 minute winter	MH16	5.000	MH17	1.4	0.788	0.007	0.0394	
720 minute winter	MH14	6.000	MH15	0.4	0.738	0.010	0.0061	
720 minute winter	MH15	6.001	MH17	0.7	0.186	0.002	0.0408	
720 minute winter	MH17	5.001	MH19	2.1	0.111	0.004	1.0086	
720 minute winter	MH11	7.000	MH12	1.3	0.220	0.003	0.2047	
720 minute winter	MH12	7.001	MH13	2.7	0.367	0.009	0.2657	
720 minute winter	MH10	8.000	MH13	1.8	0.295	0.006	0.2043	
720 minute winter	MH13	7.002	MH19	5.2	0.321	0.006	0.1924	
720 minute winter	MH18	5.003	EX SW 3	7.3	2.147	0.041	0.0213	124.3
720 minute winter	MH19	5.002	MH18	7.3	1.537	0.016	0.0414	

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

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
960 minute summer	MH9	495	93.683	0.033	1.9	0.1237	0.0000	OK
960 minute summer	MH8	495	93.591	0.038	3.5	0.1302	0.0000	OK
960 minute summer	MH7	495	93.503	0.022	1.1	0.0720	0.0000	OK
960 minute summer	MH6	495	93.455	0.047	5.6	0.1467	0.0000	OK
960 minute summer	MH5	480	93.395	0.018	0.7	0.0543	0.0000	OK
960 minute summer	MH4	495	93.380	0.051	6.5	0.1365	0.0000	OK
960 minute summer	MH3	495	93.314	0.016	0.5	0.0445	0.0000	OK
960 minute summer	MH2	495	93.298	0.053	8.0	0.1626	0.0000	OK
960 minute summer	MH1	495	93.182	0.069	9.0	0.2111	0.0000	OK
960 minute summer	MH1.1	495	93.104	0.069	9.3	0.1315	0.0000	OK
960 minute summer	NEW SW 1	495	91.703	0.064	9.3	0.1125	0.0000	OK
960 minute summer	EX SW 1	495	91.311	0.061	9.3	0.0000	0.0000	OK
960 minute summer	MH16	495	95.660	0.020	1.6	0.0621	0.0000	OK
960 minute summer	MH14	480	95.786	0.011	0.4	0.0199	0.0000	OK
960 minute summer	MH15	480	94.739	0.021	0.7	0.0674	0.0000	OK
960 minute summer	MH17	495	94.726	0.029	2.3	0.0879	0.0000	OK
960 minute summer	MH11	495	94.824	0.024	1.4	0.0879	0.0000	OK
960 minute summer	MH12	495	94.693	0.043	2.9	0.1462	0.0000	OK
960 minute summer	MH10	495	94.679	0.034	2.0	0.1339	0.0000	OK
960 minute summer	MH13	495	94.614	0.036	5.7	0.1060	0.0000	OK
960 minute summer	MH18	495	94.034	0.034	8.0	0.1018	0.0000	OK
960 minute summer	MH19	495	94.585	0.124	8.0	0.5607	0.0000	OK
960 minute summer	EX SW 3	495	93.299	0.032	8.0	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
960 minute summer	MH9	1.000	MH8	1.9	0.288	0.006	0.2880	
960 minute summer	MH8	1.001	MH6	3.5	0.400	0.008	0.3121	
960 minute summer	MH7	2.000	MH6	1.1	0.170	0.003	0.1245	
960 minute summer	MH6	1.002	MH4	5.6	0.514	0.013	0.2095	
960 minute summer	MH5	3.000	MH4	0.7	0.115	0.002	0.0841	
960 minute summer	MH4	1.003	MH2	6.5	0.552	0.015	0.2401	
960 minute summer	MH3	4.000	MH2	0.5	0.079	0.001	0.0928	
960 minute summer	MH2	1.004	MH1	8.0	0.538	0.016	0.3940	
960 minute summer	MH1	1.005	MH1.1	9.0	0.651	0.070	0.2593	
960 minute summer	MH1.1	1.006	NEW SW 1	9.3	0.704	0.066	0.1007	
960 minute summer	NEW SW 1	EX1.000	EX SW 1	9.3	1.341	0.350	0.1215	140.4
960 minute summer	MH16	5.000	MH17	1.6	0.822	0.008	0.0432	
960 minute summer	MH14	6.000	MH15	0.4	0.738	0.010	0.0061	
960 minute summer	MH15	6.001	MH17	0.7	0.182	0.002	0.0425	
960 minute summer	MH17	5.001	MH19	2.3	0.111	0.005	1.0795	
960 minute summer	MH11	7.000	MH12	1.4	0.226	0.003	0.2149	
960 minute summer	MH12	7.001	MH13	2.9	0.375	0.009	0.2806	
960 minute summer	MH10	8.000	MH13	2.0	0.306	0.007	0.2188	
960 minute summer	MH13	7.002	MH19	5.7	0.259	0.007	0.2059	
960 minute summer	MH18	5.003	EX SW 3	8.0	2.203	0.045	0.0228	121.1
960 minute summer	MH19	5.002	MH18	8.0	1.570	0.017	0.0443	

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

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
960 minute winter	MH9	495	93.678	0.028	1.4	0.1077	0.0000	OK
960 minute winter	MH8	495	93.586	0.033	2.6	0.1130	0.0000	OK
960 minute winter	MH7	465	93.500	0.019	0.8	0.0624	0.0000	OK
960 minute winter	MH6	495	93.449	0.041	4.1	0.1265	0.0000	OK
960 minute winter	MH5	435	93.393	0.016	0.5	0.0468	0.0000	OK
960 minute winter	MH4	495	93.373	0.044	4.8	0.1179	0.0000	OK
960 minute winter	MH3	480	93.312	0.014	0.4	0.0404	0.0000	OK
960 minute winter	MH2	495	93.291	0.046	5.9	0.1410	0.0000	OK
960 minute winter	MH1	495	93.172	0.059	6.7	0.1818	0.0000	OK
960 minute winter	MH1.1	495	93.094	0.059	6.9	0.1129	0.0000	OK
960 minute winter	NEW SW 1	495	91.693	0.054	6.9	0.0951	0.0000	OK
960 minute winter	EX SW 1	495	91.302	0.052	6.9	0.0000	0.0000	OK
960 minute winter	MH16	495	95.657	0.017	1.2	0.0540	0.0000	OK
960 minute winter	MH14	420	95.784	0.009	0.3	0.0174	0.0000	OK
960 minute winter	MH15	420	94.736	0.018	0.5	0.0579	0.0000	OK
960 minute winter	MH17	495	94.723	0.026	1.7	0.0769	0.0000	OK
960 minute winter	MH11	495	94.822	0.022	1.1	0.0787	0.0000	OK
960 minute winter	MH12	495	94.688	0.038	2.2	0.1290	0.0000	OK
960 minute winter	MH10	495	94.675	0.030	1.5	0.1172	0.0000	OK
960 minute winter	MH13	495	94.609	0.031	4.3	0.0929	0.0000	OK
960 minute winter	MH18	495	94.029	0.029	6.0	0.0880	0.0000	OK
960 minute winter	MH19	495	94.568	0.107	6.0	0.4835	0.0000	OK
960 minute winter	EX SW 3	495	93.295	0.028	6.0	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
960 minute winter	MH9	1.000	MH8	1.4	0.265	0.004	0.2334	
960 minute winter	MH8	1.001	MH6	2.6	0.369	0.006	0.2510	
960 minute winter	MH7	2.000	MH6	0.8	0.157	0.002	0.0994	
960 minute winter	MH6	1.002	MH4	4.1	0.469	0.009	0.1680	
960 minute winter	MH5	3.000	MH4	0.5	0.105	0.001	0.0676	
960 minute winter	MH4	1.003	MH2	4.8	0.504	0.011	0.1944	
960 minute winter	MH3	4.000	MH2	0.4	0.077	0.001	0.0760	
960 minute winter	MH2	1.004	MH1	5.9	0.495	0.012	0.3180	
960 minute winter	MH1	1.005	MH1.1	6.7	0.603	0.052	0.2083	
960 minute winter	MH1.1	1.006	NEW SW 1	6.9	0.649	0.049	0.0811	
960 minute winter	NEW SW 1	EX1.000	EX SW 1	6.9	1.241	0.260	0.0974	156.4
960 minute winter	MH16	5.000	MH17	1.2	0.752	0.006	0.0354	
960 minute winter	MH14	6.000	MH15	0.3	0.676	0.007	0.0050	
960 minute winter	MH15	6.001	MH17	0.5	0.168	0.002	0.0340	
960 minute winter	MH17	5.001	MH19	1.7	0.101	0.003	0.8716	
960 minute winter	MH11	7.000	MH12	1.1	0.213	0.002	0.1788	
960 minute winter	MH12	7.001	MH13	2.2	0.341	0.007	0.2312	
960 minute winter	MH10	8.000	MH13	1.5	0.280	0.005	0.1793	
960 minute winter	MH13	7.002	MH19	4.3	0.241	0.005	0.1667	
960 minute winter	MH18	5.003	EX SW 3	6.0	2.032	0.034	0.0185	136.3
960 minute winter	MH19	5.002	MH18	6.0	1.452	0.013	0.0359	

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

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
1440 minute summer	MH9	750	93.678	0.028	1.4	0.1077	0.0000	OK
1440 minute summer	MH8	750	93.586	0.033	2.6	0.1130	0.0000	OK
1440 minute summer	MH7	750	93.500	0.019	0.8	0.0624	0.0000	OK
1440 minute summer	MH6	750	93.449	0.041	4.1	0.1262	0.0000	OK
1440 minute summer	MH5	750	93.394	0.017	0.6	0.0507	0.0000	OK
1440 minute summer	MH4	750	93.374	0.045	4.9	0.1191	0.0000	OK
1440 minute summer	MH3	750	93.312	0.014	0.4	0.0404	0.0000	OK
1440 minute summer	MH2	750	93.291	0.046	6.0	0.1421	0.0000	OK
1440 minute summer	MH1	750	93.173	0.060	6.8	0.1832	0.0000	OK
1440 minute summer	MH1.1	750	93.095	0.060	7.0	0.1137	0.0000	OK
1440 minute summer	NEW SW 1	750	91.693	0.054	7.0	0.0959	0.0000	OK
1440 minute summer	EX SW 1	750	91.303	0.053	7.0	0.0000	0.0000	OK
1440 minute summer	MH16	750	95.657	0.017	1.2	0.0540	0.0000	OK
1440 minute summer	MH14	720	95.784	0.009	0.3	0.0174	0.0000	OK
1440 minute summer	MH15	720	94.736	0.018	0.5	0.0579	0.0000	OK
1440 minute summer	MH17	750	94.723	0.026	1.7	0.0769	0.0000	OK
1440 minute summer	MH11	750	94.822	0.022	1.1	0.0787	0.0000	OK
1440 minute summer	MH12	750	94.688	0.038	2.2	0.1290	0.0000	OK
1440 minute summer	MH10	750	94.675	0.030	1.5	0.1172	0.0000	OK
1440 minute summer	MH13	750	94.609	0.031	4.3	0.0929	0.0000	OK
1440 minute summer	MH18	750	94.029	0.029	6.0	0.0880	0.0000	OK
1440 minute summer	MH19	750	94.568	0.107	6.0	0.4835	0.0000	OK
1440 minute summer	EX SW 3	750	93.295	0.028	6.0	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
1440 minute summer	MH9	1.000	MH8	1.4	0.262	0.004	0.2334	
1440 minute summer	MH8	1.001	MH6	2.6	0.370	0.006	0.2504	
1440 minute summer	MH7	2.000	MH6	0.8	0.154	0.002	0.0991	
1440 minute summer	MH6	1.002	MH4	4.1	0.466	0.009	0.1690	
1440 minute summer	MH5	3.000	MH4	0.6	0.111	0.001	0.0700	
1440 minute summer	MH4	1.003	MH2	4.9	0.508	0.011	0.1970	
1440 minute summer	MH3	4.000	MH2	0.4	0.076	0.001	0.0767	
1440 minute summer	MH2	1.004	MH1	6.0	0.498	0.012	0.3216	
1440 minute summer	MH1	1.005	MH1.1	6.8	0.605	0.053	0.2106	
1440 minute summer	MH1.1	1.006	NEW SW 1	7.0	0.652	0.050	0.0820	
1440 minute summer	NEW SW 1	EX1.000	EX SW 1	7.0	1.246	0.264	0.0985	160.5
1440 minute summer	MH16	5.000	MH17	1.2	0.752	0.006	0.0354	
1440 minute summer	MH14	6.000	MH15	0.3	0.676	0.007	0.0050	
1440 minute summer	MH15	6.001	MH17	0.5	0.164	0.002	0.0340	
1440 minute summer	MH17	5.001	MH19	1.7	0.102	0.003	0.8717	
1440 minute summer	MH11	7.000	MH12	1.1	0.213	0.002	0.1788	
1440 minute summer	MH12	7.001	MH13	2.2	0.341	0.007	0.2312	
1440 minute summer	MH10	8.000	MH13	1.5	0.280	0.005	0.1793	
1440 minute summer	MH13	7.002	MH19	4.3	0.241	0.005	0.1667	
1440 minute summer	MH18	5.003	EX SW 3	6.0	2.032	0.034	0.0185	135.0
1440 minute summer	MH19	5.002	MH18	6.0	1.453	0.013	0.0359	

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

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
1440 minute winter	MH9	750	93.676	0.026	1.1	0.0968	0.0000	OK
1440 minute winter	MH8	750	93.582	0.029	2.0	0.1002	0.0000	OK
1440 minute winter	MH7	720	93.498	0.017	0.6	0.0549	0.0000	OK
1440 minute winter	MH6	750	93.444	0.036	3.1	0.1105	0.0000	OK
1440 minute winter	MH5	690	93.391	0.014	0.4	0.0425	0.0000	OK
1440 minute winter	MH4	750	93.368	0.039	3.6	0.1031	0.0000	OK
1440 minute winter	MH3	720	93.311	0.013	0.3	0.0357	0.0000	OK
1440 minute winter	MH2	750	93.286	0.041	4.5	0.1249	0.0000	OK
1440 minute winter	MH1	750	93.165	0.052	5.1	0.1587	0.0000	OK
1440 minute winter	MH1.1	750	93.087	0.052	5.3	0.0988	0.0000	OK
1440 minute winter	NEW SW 1	750	91.686	0.047	5.3	0.0825	0.0000	OK
1440 minute winter	EX SW 1	750	91.295	0.045	5.3	0.0000	0.0000	OK
1440 minute winter	MH16	720	95.655	0.015	0.9	0.0472	0.0000	OK
1440 minute winter	MH14	600	95.783	0.008	0.2	0.0144	0.0000	OK
1440 minute winter	MH15	690	94.735	0.017	0.4	0.0525	0.0000	OK
1440 minute winter	MH17	720	94.720	0.023	1.3	0.0680	0.0000	OK
1440 minute winter	MH11	720	94.819	0.019	0.8	0.0682	0.0000	OK
1440 minute winter	MH12	750	94.684	0.034	1.7	0.1151	0.0000	OK
1440 minute winter	MH10	720	94.671	0.026	1.1	0.1022	0.0000	OK
1440 minute winter	MH13	750	94.605	0.027	3.2	0.0814	0.0000	OK
1440 minute winter	MH18	750	94.026	0.026	4.5	0.0763	0.0000	OK
1440 minute winter	MH19	750	94.553	0.092	4.5	0.4179	0.0000	OK
1440 minute winter	EX SW 3	750	93.292	0.025	4.5	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
1440 minute winter	MH9	1.000	MH8	1.1	0.247	0.003	0.1950	
1440 minute winter	MH8	1.001	MH6	2.0	0.342	0.005	0.2071	
1440 minute winter	MH7	2.000	MH6	0.6	0.145	0.001	0.0816	
1440 minute winter	MH6	1.002	MH4	3.1	0.434	0.007	0.1372	
1440 minute winter	MH5	3.000	MH4	0.4	0.099	0.001	0.0554	
1440 minute winter	MH4	1.003	MH2	3.6	0.461	0.008	0.1596	
1440 minute winter	MH3	4.000	MH2	0.3	0.072	0.001	0.0629	
1440 minute winter	MH2	1.004	MH1	4.5	0.456	0.009	0.2609	
1440 minute winter	MH1	1.005	MH1.1	5.1	0.558	0.040	0.1713	
1440 minute winter	MH1.1	1.006	NEW SW 1	5.3	0.602	0.038	0.0672	
1440 minute winter	NEW SW 1	EX1.000	EX SW 1	5.3	1.156	0.200	0.0803	179.3
1440 minute winter	MH16	5.000	MH17	0.9	0.691	0.005	0.0289	
1440 minute winter	MH14	6.000	MH15	0.2	0.599	0.005	0.0038	
1440 minute winter	MH15	6.001	MH17	0.4	0.153	0.001	0.0285	
1440 minute winter	MH17	5.001	MH19	1.3	0.096	0.003	0.7071	
1440 minute winter	MH11	7.000	MH12	0.8	0.195	0.002	0.1492	
1440 minute winter	MH12	7.001	MH13	1.7	0.317	0.006	0.1924	
1440 minute winter	MH10	8.000	MH13	1.1	0.258	0.004	0.1444	
1440 minute winter	MH13	7.002	MH19	3.2	0.220	0.004	0.1349	
1440 minute winter	MH18	5.003	EX SW 3	4.5	1.872	0.025	0.0151	154.0
1440 minute winter	MH19	5.002	MH18	4.5	1.343	0.010	0.0291	

Results for 30 year 15 minute summer. 255 minute analysis at 1 minute timestep. Mass balance: 99.97%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	MH9	10	93.790	0.140	39.0	0.5311	0.0000	OK
15 minute summer	MH8	14	93.769	0.216	70.1	0.7428	0.0000	OK
15 minute summer	MH7	14	93.765	0.284	21.8	0.9150	0.0000	OK
15 minute summer	MH6	14	93.759	0.351	108.4	1.0866	0.0000	OK
15 minute summer	MH5	13	93.768	0.391	27.7	1.1610	0.0000	OK
15 minute summer	MH4	13	93.756	0.427	114.5	1.1367	0.0000	OK
15 minute summer	MH3	15	93.764	0.466	17.9	1.3163	0.0000	OK
15 minute summer	MH2	13	93.753	0.508	127.4	1.5621	0.0000	OK
15 minute summer	MH1	15	93.763	0.650	109.3	1.9949	0.0000	SURCHARGED
15 minute summer	MH1.1	13	93.736	0.701	97.5	1.3386	0.0000	SURCHARGED
15 minute summer	NEW SW 1	13	93.721	2.082	89.0	3.6794	0.0000	SURCHARGED
15 minute summer	EX SW 1	8	91.392	0.142	59.8	0.0000	0.0000	OK
15 minute summer	MH16	10	95.726	0.086	31.9	0.2695	0.0000	OK
15 minute summer	MH14	10	95.824	0.049	8.9	0.0925	0.0000	OK
15 minute summer	MH15	14	94.969	0.251	15.1	0.7939	0.0000	OK
15 minute summer	MH17	13	94.966	0.269	42.0	0.8039	0.0000	OK
15 minute summer	MH11	13	94.977	0.177	28.9	0.6394	0.0000	OK
15 minute summer	MH12	13	94.973	0.323	59.1	1.0947	0.0000	OK
15 minute summer	MH10	14	94.965	0.320	39.3	1.2503	0.0000	OK
15 minute summer	MH13	13	94.981	0.403	85.2	1.1997	0.0000	OK
15 minute summer	MH18	14	94.125	0.125	77.3	0.3739	0.0000	OK
15 minute summer	MH19	14	94.984	0.523	149.6	2.3666	0.0000	SURCHARGED
15 minute summer	EX SW 3	14	93.369	0.102	76.6	0.0000	0.0000	OK
Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	MH9	1.000	MH8	38.2	0.688	0.118	2.6159	
15 minute summer	MH8	1.001	MH6	70.1	0.877	0.160	4.6549	
15 minute summer	MH7	2.000	MH6	21.6	0.353	0.050	2.7797	
15 minute summer	MH6	1.002	MH4	101.6	1.026	0.231	3.6869	
15 minute summer	MH5	3.000	MH4	17.0	0.374	0.039	2.4708	
15 minute summer	MH4	1.003	MH2	106.6	1.017	0.242	4.7814	
15 minute summer	MH3	4.000	MH2	10.6	0.215	0.024	3.2519	
15 minute summer	MH2	1.004	MH1	89.4	0.896	0.184	7.0800	
15 minute summer	MH1	1.005	MH1.1	91.8	1.131	0.714	2.0678	
15 minute summer	MH1.1	1.006	NEW SW 1	89.0	1.238	0.631	0.8406	
15 minute summer	NEW SW 1	EX1.000	EX SW 1	59.8	3.397	2.252	0.3054	81.4
15 minute summer	MH16	5.000	MH17	31.6	1.953	0.166	0.3583	
15 minute summer	MH14	6.000	MH15	8.8	1.810	0.213	0.0553	
15 minute summer	MH15	6.001	MH17	12.8	0.388	0.042	1.1915	
15 minute summer	MH17	5.001	MH19	43.8	0.484	0.089	8.6310	
15 minute summer	MH11	7.000	MH12	28.4	0.568	0.062	3.8076	
15 minute summer	MH12	7.001	MH13	45.5	0.645	0.149	6.3858	
15 minute summer	MH10	8.000	MH13	33.4	0.568	0.109	5.8771	
15 minute summer	MH13	7.002	MH19	105.8	0.843	0.131	1.8609	
15 minute summer	MH18	5.003	EX SW 3	76.6	3.822	0.428	0.1261	69.8
15 minute summer	MH19	5.002	MH18	77.3	2.538	0.167	0.2648	

Results for 30 year 15 minute winter. 255 minute analysis at 1 minute timestep. Mass balance: 99.97%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	MH9	14	93.819	0.169	41.0	0.6388	0.0000	OK
15 minute winter	MH8	15	93.815	0.262	73.4	0.9025	0.0000	OK
15 minute winter	MH7	14	93.825	0.344	22.9	1.1074	0.0000	OK
15 minute winter	MH6	15	93.812	0.404	111.4	1.2505	0.0000	OK
15 minute winter	MH5	14	93.809	0.432	15.7	1.2841	0.0000	OK
15 minute winter	MH4	15	93.809	0.480	119.6	1.2780	0.0000	OK
15 minute winter	MH3	13	93.813	0.515	41.8	1.4546	0.0000	OK
15 minute winter	MH2	16	93.814	0.569	118.1	1.7494	0.0000	OK
15 minute winter	MH1	13	93.811	0.698	122.2	2.1429	0.0000	SURCHARGED
15 minute winter	MH1.1	16	93.788	0.753	88.9	1.4378	0.0000	SURCHARGED
15 minute winter	NEW SW 1	16	93.775	2.136	80.1	3.7735	0.0000	SURCHARGED
15 minute winter	EX SW 1	7	91.392	0.142	60.5	0.0000	0.0000	OK
15 minute winter	MH16	10	95.728	0.088	33.5	0.2765	0.0000	OK
15 minute winter	MH14	10	95.826	0.051	9.4	0.0951	0.0000	OK
15 minute winter	MH15	14	95.016	0.298	15.9	0.9405	0.0000	OK
15 minute winter	MH17	14	94.998	0.301	49.0	0.8983	0.0000	OK
15 minute winter	MH11	13	95.011	0.211	30.4	0.7613	0.0000	OK
15 minute winter	MH12	13	94.998	0.348	62.0	1.1773	0.0000	OK
15 minute winter	MH10	14	95.006	0.361	41.3	1.4081	0.0000	OK
15 minute winter	MH13	13	94.998	0.420	95.9	1.2491	0.0000	OK
15 minute winter	MH18	13	94.127	0.127	78.1	0.3782	0.0000	OK
15 minute winter	MH19	14	95.028	0.567	146.4	2.5670	0.0000	SURCHARGED
15 minute winter	EX SW 3	13	93.370	0.103	78.1	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute winter	MH9	1.000	MH8	39.9	0.697	0.124	3.9668	
15 minute winter	MH8	1.001	MH6	75.2	0.877	0.171	5.6783	
15 minute winter	MH7	2.000	MH6	20.6	0.364	0.048	3.3779	
15 minute winter	MH6	1.002	MH4	103.4	1.012	0.235	4.2611	
15 minute winter	MH5	3.000	MH4	24.1	0.392	0.056	2.7728	
15 minute winter	MH4	1.003	MH2	96.8	1.039	0.220	5.2696	
15 minute winter	MH3	4.000	MH2	-31.5	0.261	-0.073	3.5487	
15 minute winter	MH2	1.004	MH1	101.6	0.885	0.209	7.3687	
15 minute winter	MH1	1.005	MH1.1	83.0	1.087	0.646	2.0678	
15 minute winter	MH1.1	1.006	NEW SW 1	80.1	1.192	0.568	0.8406	
15 minute winter	NEW SW 1	EX1.000	EX SW 1	60.5	3.438	2.278	0.3054	91.4
15 minute winter	MH16	5.000	MH17	33.1	1.977	0.174	0.3709	
15 minute winter	MH14	6.000	MH15	9.3	1.834	0.225	0.0575	
15 minute winter	MH15	6.001	MH17	20.4	0.378	0.067	1.4774	
15 minute winter	MH17	5.001	MH19	35.6	0.504	0.072	9.5946	
15 minute winter	MH11	7.000	MH12	29.7	0.556	0.065	4.3751	
15 minute winter	MH12	7.001	MH13	42.7	0.637	0.140	6.8110	
15 minute winter	MH10	8.000	MH13	36.3	0.562	0.119	6.3895	
15 minute winter	MH13	7.002	MH19	122.9	0.874	0.152	2.0346	
15 minute winter	MH18	5.003	EX SW 3	78.1	3.829	0.436	0.1279	78.5
15 minute winter	MH19	5.002	MH18	78.1	2.540	0.169	0.2675	

Results for 30 year 30 minute summer. 270 minute analysis at 1 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
30 minute summer	MH9	18	93.785	0.135	35.6	0.5095	0.0000	OK
30 minute summer	MH8	24	93.776	0.223	64.7	0.7693	0.0000	OK
30 minute summer	MH7	23	93.774	0.293	19.9	0.9418	0.0000	OK
30 minute summer	MH6	23	93.778	0.370	100.4	1.1442	0.0000	OK
30 minute summer	MH5	22	93.782	0.405	20.2	1.2028	0.0000	OK
30 minute summer	MH4	22	93.773	0.444	101.2	1.1834	0.0000	OK
30 minute summer	MH3	22	93.772	0.474	22.3	1.3386	0.0000	OK
30 minute summer	MH2	23	93.768	0.523	112.8	1.6098	0.0000	OK
30 minute summer	MH1	22	93.772	0.659	101.6	2.0220	0.0000	SURCHARGED
30 minute summer	MH1.1	23	93.747	0.712	90.7	1.3592	0.0000	SURCHARGED
30 minute summer	NEW SW 1	23	93.736	2.097	67.2	3.7047	0.0000	SURCHARGED
30 minute summer	EX SW 1	13	91.392	0.142	60.1	0.0000	0.0000	OK
30 minute summer	MH16	18	95.722	0.082	29.1	0.2576	0.0000	OK
30 minute summer	MH14	18	95.822	0.047	8.2	0.0887	0.0000	OK
30 minute summer	MH15	22	94.982	0.264	13.9	0.8341	0.0000	OK
30 minute summer	MH17	21	94.975	0.278	40.4	0.8313	0.0000	OK
30 minute summer	MH11	20	94.972	0.172	26.4	0.6190	0.0000	OK
30 minute summer	MH12	20	94.971	0.321	53.5	1.0884	0.0000	OK
30 minute summer	MH10	21	94.974	0.329	35.9	1.2860	0.0000	OK
30 minute summer	MH13	21	94.995	0.417	86.1	1.2409	0.0000	OK
30 minute summer	MH18	22	94.126	0.126	77.5	0.3761	0.0000	OK
30 minute summer	MH19	20	94.992	0.531	142.8	2.4038	0.0000	SURCHARGED
30 minute summer	EX SW 3	22	93.370	0.103	77.4	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
30 minute summer	MH9	1.000	MH8	35.6	0.680	0.110	2.9307	
30 minute summer	MH8	1.001	MH6	64.3	0.857	0.147	4.8750	
30 minute summer	MH7	2.000	MH6	18.7	0.338	0.043	2.9257	
30 minute summer	MH6	1.002	MH4	93.7	0.997	0.213	3.8905	
30 minute summer	MH5	3.000	MH4	13.3	0.323	0.031	2.5757	
30 minute summer	MH4	1.003	MH2	94.3	1.001	0.214	4.9308	
30 minute summer	MH3	4.000	MH2	-13.3	0.200	-0.031	3.3217	
30 minute summer	MH2	1.004	MH1	84.3	0.882	0.173	7.1649	
30 minute summer	MH1	1.005	MH1.1	85.7	1.056	0.667	2.0678	
30 minute summer	MH1.1	1.006	NEW SW 1	67.2	1.172	0.476	0.8406	
30 minute summer	NEW SW 1	EX1.000	EX SW 1	60.1	3.411	2.261	0.3054	108.5
30 minute summer	MH16	5.000	MH17	29.1	1.913	0.153	0.3373	
30 minute summer	MH14	6.000	MH15	8.2	1.776	0.198	0.0524	
30 minute summer	MH15	6.001	MH17	14.9	0.351	0.049	1.2843	
30 minute summer	MH17	5.001	MH19	33.9	0.449	0.069	8.8681	
30 minute summer	MH11	7.000	MH12	25.5	0.512	0.056	3.7365	
30 minute summer	MH12	7.001	MH13	35.3	0.518	0.115	6.5035	
30 minute summer	MH10	8.000	MH13	32.6	0.430	0.106	6.1540	
30 minute summer	MH13	7.002	MH19	117.8	0.781	0.145	1.9154	
30 minute summer	MH18	5.003	EX SW 3	77.4	3.821	0.432	0.1270	93.2
30 minute summer	MH19	5.002	MH18	77.5	2.563	0.168	0.2657	

Results for 30 year 30 minute winter. 270 minute analysis at 1 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
30 minute winter	MH9	24	93.830	0.180	32.2	0.6807	0.0000	OK
30 minute winter	MH8	23	93.829	0.276	58.4	0.9501	0.0000	OK
30 minute winter	MH7	24	93.821	0.340	18.0	1.0951	0.0000	OK
30 minute winter	MH6	24	93.821	0.413	88.8	1.2782	0.0000	OK
30 minute winter	MH5	24	93.823	0.446	17.6	1.3250	0.0000	OK
30 minute winter	MH4	24	93.820	0.491	87.7	1.3069	0.0000	OK
30 minute winter	MH3	24	93.819	0.521	26.3	1.4719	0.0000	OK
30 minute winter	MH2	24	93.821	0.576	98.0	1.7728	0.0000	OK
30 minute winter	MH1	24	93.816	0.703	96.7	2.1590	0.0000	SURCHARGED
30 minute winter	MH1.1	22	93.801	0.766	74.3	1.4631	0.0000	SURCHARGED
30 minute winter	NEW SW 1	22	93.789	2.150	70.2	3.7992	0.0000	SURCHARGED
30 minute winter	EX SW 1	11	91.392	0.142	60.7	0.0000	0.0000	OK
30 minute winter	MH16	18	95.718	0.078	26.3	0.2441	0.0000	OK
30 minute winter	MH14	18	95.820	0.045	7.4	0.0839	0.0000	OK
30 minute winter	MH15	21	94.991	0.273	12.6	0.8635	0.0000	OK
30 minute winter	MH17	22	94.992	0.295	44.2	0.8802	0.0000	OK
30 minute winter	MH11	22	94.991	0.191	23.9	0.6872	0.0000	OK
30 minute winter	MH12	23	94.990	0.340	48.8	1.1505	0.0000	OK
30 minute winter	MH10	22	94.988	0.343	32.5	1.3380	0.0000	OK
30 minute winter	MH13	22	95.007	0.429	120.7	1.2749	0.0000	OK
30 minute winter	MH18	23	94.126	0.126	77.8	0.3772	0.0000	OK
30 minute winter	MH19	21	95.000	0.539	171.6	2.4388	0.0000	SURCHARGED
30 minute winter	EX SW 3	23	93.370	0.103	77.7	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
30 minute winter	MH9	1.000	MH8	32.1	0.669	0.100	4.0791	
30 minute winter	MH8	1.001	MH6	58.8	0.834	0.134	5.8396	
30 minute winter	MH7	2.000	MH6	25.6	0.317	0.059	3.4129	
30 minute winter	MH6	1.002	MH4	82.4	0.966	0.187	4.3583	
30 minute winter	MH5	3.000	MH4	9.9	0.325	0.023	2.8495	
30 minute winter	MH4	1.003	MH2	82.3	0.997	0.187	5.3526	
30 minute winter	MH3	4.000	MH2	-18.6	0.251	-0.043	3.5851	
30 minute winter	MH2	1.004	MH1	82.1	0.863	0.169	7.3928	
30 minute winter	MH1	1.005	MH1.1	70.7	1.071	0.550	2.0678	
30 minute winter	MH1.1	1.006	NEW SW 1	70.2	1.195	0.498	0.8406	
30 minute winter	NEW SW 1	EX1.000	EX SW 1	60.7	3.448	2.285	0.3054	122.0
30 minute winter	MH16	5.000	MH17	26.3	1.861	0.139	0.3133	
30 minute winter	MH14	6.000	MH15	7.4	1.728	0.179	0.0485	
30 minute winter	MH15	6.001	MH17	19.2	0.336	0.063	1.3473	
30 minute winter	MH17	5.001	MH19	35.4	0.450	0.072	9.1519	
30 minute winter	MH11	7.000	MH12	23.4	0.474	0.051	4.0705	
30 minute winter	MH12	7.001	MH13	42.4	0.552	0.139	6.7818	
30 minute winter	MH10	8.000	MH13	34.6	0.454	0.113	6.3908	
30 minute winter	MH13	7.002	MH19	136.2	0.787	0.168	1.9744	
30 minute winter	MH18	5.003	EX SW 3	77.7	3.826	0.434	0.1274	105.3
30 minute winter	MH19	5.002	MH18	77.8	2.538	0.168	0.2666	

Results for 30 year 60 minute summer. 300 minute analysis at 1 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute summer	MH9	33	93.766	0.116	27.1	0.4407	0.0000	OK
60 minute summer	MH8	38	93.733	0.180	49.2	0.6198	0.0000	OK
60 minute summer	MH7	39	93.722	0.241	15.1	0.7741	0.0000	OK
60 minute summer	MH6	39	93.732	0.324	76.9	1.0008	0.0000	OK
60 minute summer	MH5	40	93.725	0.348	10.3	1.0345	0.0000	OK
60 minute summer	MH4	39	93.726	0.397	82.3	1.0563	0.0000	OK
60 minute summer	MH3	39	93.728	0.430	16.7	1.2132	0.0000	OK
60 minute summer	MH2	39	93.726	0.481	96.0	1.4800	0.0000	OK
60 minute summer	MH1	39	93.726	0.613	83.8	1.8817	0.0000	SURCHARGED
60 minute summer	MH1.1	39	93.700	0.665	75.4	1.2701	0.0000	SURCHARGED
60 minute summer	NEW SW 1	39	93.685	2.046	65.6	3.6159	0.0000	SURCHARGED
60 minute summer	EX SW 1	25	91.392	0.142	59.4	0.0000	0.0000	OK
60 minute summer	MH16	33	95.711	0.071	22.1	0.2229	0.0000	OK
60 minute summer	MH14	33	95.816	0.041	6.2	0.0764	0.0000	OK
60 minute summer	MH15	38	94.927	0.209	10.5	0.6615	0.0000	OK
60 minute summer	MH17	37	94.931	0.234	33.9	0.6973	0.0000	OK
60 minute summer	MH11	37	94.926	0.126	20.1	0.4543	0.0000	OK
60 minute summer	MH12	36	94.928	0.278	41.4	0.9431	0.0000	OK
60 minute summer	MH10	36	94.930	0.285	27.3	1.1122	0.0000	OK
60 minute summer	MH13	37	94.946	0.368	105.7	1.0932	0.0000	OK
60 minute summer	MH18	34	94.124	0.124	76.5	0.3711	0.0000	OK
60 minute summer	MH19	36	94.953	0.492	168.8	2.2243	0.0000	SURCHARGED
60 minute summer	EX SW 3	34	93.368	0.101	75.6	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
60 minute summer	MH9	1.000	MH8	27.1	0.642	0.084	2.1099	
60 minute summer	MH8	1.001	MH6	49.1	0.809	0.112	3.9504	
60 minute summer	MH7	2.000	MH6	20.0	0.311	0.046	2.3904	
60 minute summer	MH6	1.002	MH4	73.4	0.937	0.167	3.3869	
60 minute summer	MH5	3.000	MH4	14.2	0.280	0.033	2.2161	
60 minute summer	MH4	1.003	MH2	71.7	0.991	0.163	4.4867	
60 minute summer	MH3	4.000	MH2	10.2	0.193	0.023	3.0534	
60 minute summer	MH2	1.004	MH1	71.5	0.858	0.147	6.9198	
60 minute summer	MH1	1.005	MH1.1	71.9	1.054	0.559	2.0678	
60 minute summer	MH1.1	1.006	NEW SW 1	65.6	1.178	0.465	0.8406	
60 minute summer	NEW SW 1	EX1.000	EX SW 1	59.4	3.373	2.235	0.3054	138.8
60 minute summer	MH16	5.000	MH17	22.1	1.775	0.116	0.2761	
60 minute summer	MH14	6.000	MH15	6.2	1.647	0.150	0.0427	
60 minute summer	MH15	6.001	MH17	12.7	0.333	0.041	0.9730	
60 minute summer	MH17	5.001	MH19	33.3	0.401	0.068	7.8220	
60 minute summer	MH11	7.000	MH12	20.1	0.443	0.044	2.8972	
60 minute summer	MH12	7.001	MH13	35.7	0.488	0.117	5.5073	
60 minute summer	MH10	8.000	MH13	27.0	0.409	0.088	5.1428	
60 minute summer	MH13	7.002	MH19	135.5	0.758	0.167	1.7048	
60 minute summer	MH18	5.003	EX SW 3	75.6	3.813	0.423	0.1249	120.5
60 minute summer	MH19	5.002	MH18	76.5	2.545	0.165	0.2618	

Results for 30 year 60 minute winter. 300 minute analysis at 1 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute winter	MH9	33	93.754	0.104	21.9	0.3940	0.0000	OK
60 minute winter	MH8	42	93.726	0.173	39.8	0.5963	0.0000	OK
60 minute winter	MH7	41	93.725	0.244	12.2	0.7865	0.0000	OK
60 minute winter	MH6	41	93.726	0.318	61.8	0.9821	0.0000	OK
60 minute winter	MH5	41	93.722	0.345	11.5	1.0268	0.0000	OK
60 minute winter	MH4	41	93.721	0.392	66.6	1.0444	0.0000	OK
60 minute winter	MH3	40	93.723	0.425	12.1	1.1987	0.0000	OK
60 minute winter	MH2	40	93.723	0.478	73.4	1.4704	0.0000	OK
60 minute winter	MH1	40	93.721	0.608	77.0	1.8679	0.0000	SURCHARGED
60 minute winter	MH1.1	40	93.701	0.666	67.2	1.2715	0.0000	SURCHARGED
60 minute winter	NEW SW 1	40	93.687	2.048	60.4	3.6194	0.0000	SURCHARGED
60 minute winter	EX SW 1	63	91.392	0.142	59.4	0.0000	0.0000	OK
60 minute winter	MH16	33	95.704	0.064	17.9	0.1997	0.0000	OK
60 minute winter	MH14	33	95.811	0.036	5.0	0.0683	0.0000	OK
60 minute winter	MH15	38	94.910	0.192	8.5	0.6079	0.0000	OK
60 minute winter	MH17	37	94.907	0.210	28.7	0.6263	0.0000	OK
60 minute winter	MH11	39	94.906	0.106	16.2	0.3822	0.0000	OK
60 minute winter	MH12	38	94.908	0.258	33.3	0.8731	0.0000	OK
60 minute winter	MH10	38	94.908	0.263	22.1	1.0276	0.0000	OK
60 minute winter	MH13	39	94.921	0.343	101.1	1.0189	0.0000	OK
60 minute winter	MH18	38	94.124	0.124	75.8	0.3688	0.0000	OK
60 minute winter	MH19	38	94.925	0.464	137.9	2.0995	0.0000	SURCHARGED
60 minute winter	EX SW 3	36	93.368	0.101	75.0	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
60 minute winter	MH9	1.000	MH8	21.9	0.607	0.068	1.9596	
60 minute winter	MH8	1.001	MH6	39.6	0.768	0.090	3.8660	
60 minute winter	MH7	2.000	MH6	11.8	0.296	0.027	2.3782	
60 minute winter	MH6	1.002	MH4	59.6	0.905	0.135	3.3277	
60 minute winter	MH5	3.000	MH4	9.5	0.284	0.022	2.1951	
60 minute winter	MH4	1.003	MH2	62.2	0.979	0.141	4.4437	
60 minute winter	MH3	4.000	MH2	8.8	0.216	0.020	3.0249	
60 minute winter	MH2	1.004	MH1	66.5	0.849	0.137	6.9001	
60 minute winter	MH1	1.005	MH1.1	64.4	1.027	0.501	2.0678	
60 minute winter	MH1.1	1.006	NEW SW 1	60.4	1.148	0.428	0.8406	
60 minute winter	NEW SW 1	EX1.000	EX SW 1	59.4	3.375	2.237	0.3054	155.4
60 minute winter	MH16	5.000	MH17	17.9	1.674	0.094	0.2370	
60 minute winter	MH14	6.000	MH15	5.0	1.553	0.121	0.0365	
60 minute winter	MH15	6.001	MH17	11.7	0.316	0.038	0.8597	
60 minute winter	MH17	5.001	MH19	28.1	0.396	0.057	7.3456	
60 minute winter	MH11	7.000	MH12	16.1	0.419	0.035	2.5296	
60 minute winter	MH12	7.001	MH13	34.3	0.489	0.112	5.0193	
60 minute winter	MH10	8.000	MH13	25.8	0.408	0.084	4.7046	
60 minute winter	MH13	7.002	MH19	111.9	0.725	0.138	1.6134	
60 minute winter	MH18	5.003	EX SW 3	75.0	3.811	0.419	0.1239	136.3
60 minute winter	MH19	5.002	MH18	75.8	2.538	0.164	0.2596	

Results for 30 year 120 minute summer. 360 minute analysis at 2 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
120 minute summer	MH9	64	93.744	0.094	17.9	0.3553	0.0000	OK
120 minute summer	MH8	64	93.661	0.108	32.5	0.3722	0.0000	OK
120 minute summer	MH7	72	93.580	0.099	10.0	0.3199	0.0000	OK
120 minute summer	MH6	72	93.579	0.171	51.3	0.5288	0.0000	OK
120 minute summer	MH5	70	93.578	0.201	6.8	0.5975	0.0000	OK
120 minute summer	MH4	70	93.577	0.248	59.1	0.6615	0.0000	OK
120 minute summer	MH3	72	93.575	0.277	7.5	0.7808	0.0000	OK
120 minute summer	MH2	70	93.575	0.330	66.8	1.0166	0.0000	OK
120 minute summer	MH1	70	93.577	0.464	67.7	1.4255	0.0000	SURCHARGED
120 minute summer	MH1.1	70	93.556	0.521	65.1	0.9950	0.0000	SURCHARGED
120 minute summer	NEW SW 1	70	93.543	1.904	58.4	3.3639	0.0000	SURCHARGED
120 minute summer	EX SW 1	52	91.392	0.142	57.5	0.0000	0.0000	OK
120 minute summer	MH16	64	95.698	0.058	14.6	0.1800	0.0000	OK
120 minute summer	MH14	64	95.808	0.033	4.1	0.0616	0.0000	OK
120 minute summer	MH15	68	94.851	0.133	7.0	0.4206	0.0000	OK
120 minute summer	MH17	68	94.849	0.152	22.2	0.4545	0.0000	OK
120 minute summer	MH11	64	94.869	0.069	13.2	0.2483	0.0000	OK
120 minute summer	MH12	68	94.851	0.201	27.3	0.6801	0.0000	OK
120 minute summer	MH10	68	94.850	0.205	18.0	0.7983	0.0000	OK
120 minute summer	MH13	66	94.852	0.274	92.1	0.8150	0.0000	OK
120 minute summer	MH18	66	94.111	0.111	60.9	0.3311	0.0000	OK
120 minute summer	MH19	68	94.859	0.398	138.5	1.8022	0.0000	SURCHARGED
120 minute summer	EX SW 3	66	93.361	0.094	65.4	0.0000	0.0000	OK
Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
120 minute summer	MH9	1.000	MH8	17.9	0.573	0.055	1.3617	
120 minute summer	MH8	1.001	MH6	32.4	0.734	0.074	1.6554	
120 minute summer	MH7	2.000	MH6	9.9	0.290	0.023	0.8864	
120 minute summer	MH6	1.002	MH4	50.9	0.883	0.116	1.6889	
120 minute summer	MH5	3.000	MH4	7.6	0.228	0.018	1.1660	
120 minute summer	MH4	1.003	MH2	57.5	0.945	0.131	2.7456	
120 minute summer	MH3	4.000	MH2	4.7	0.203	0.011	1.9030	
120 minute summer	MH2	1.004	MH1	59.0	0.835	0.121	5.1921	
120 minute summer	MH1	1.005	MH1.1	62.6	1.018	0.487	2.0678	
120 minute summer	MH1.1	1.006	NEW SW 1	58.4	1.139	0.414	0.8406	
120 minute summer	NEW SW 1	EX1.000	EX SW 1	57.5	3.266	2.165	0.3054	172.0
120 minute summer	MH16	5.000	MH17	14.6	1.581	0.077	0.2048	
120 minute summer	MH14	6.000	MH15	4.1	1.470	0.099	0.0316	
120 minute summer	MH15	6.001	MH17	8.7	0.300	0.028	0.5394	
120 minute summer	MH17	5.001	MH19	24.8	0.365	0.050	5.8586	
120 minute summer	MH11	7.000	MH12	13.2	0.404	0.029	1.6658	
120 minute summer	MH12	7.001	MH13	29.9	0.483	0.098	3.6889	
120 minute summer	MH10	8.000	MH13	22.7	0.398	0.074	3.4793	
120 minute summer	MH13	7.002	MH19	113.8	0.728	0.141	1.3472	
120 minute summer	MH18	5.003	EX SW 3	65.4	3.728	0.365	0.1100	147.8
120 minute summer	MH19	5.002	MH18	60.9	2.463	0.132	0.2167	

Results for 30 year 120 minute winter. 360 minute analysis at 2 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
120 minute winter	MH9	64	93.733	0.083	13.8	0.3135	0.0000	OK
120 minute winter	MH8	64	93.648	0.095	25.1	0.3284	0.0000	OK
120 minute winter	MH7	64	93.539	0.058	7.7	0.1866	0.0000	OK
120 minute winter	MH6	64	93.537	0.129	39.6	0.3999	0.0000	OK
120 minute winter	MH5	72	93.483	0.106	5.3	0.3144	0.0000	OK
120 minute winter	MH4	72	93.483	0.154	46.4	0.4101	0.0000	OK
120 minute winter	MH3	72	93.480	0.182	3.5	0.5141	0.0000	OK
120 minute winter	MH2	72	93.480	0.235	56.0	0.7220	0.0000	OK
120 minute winter	MH1	72	93.476	0.363	62.3	1.1151	0.0000	OK
120 minute winter	MH1.1	70	93.457	0.422	59.3	0.8058	0.0000	SURCHARGED
120 minute winter	NEW SW 1	70	93.444	1.805	56.6	3.1903	0.0000	SURCHARGED
120 minute winter	EX SW 1	46	91.392	0.142	56.2	0.0000	0.0000	OK
120 minute winter	MH16	64	95.691	0.051	11.3	0.1583	0.0000	OK
120 minute winter	MH14	64	95.804	0.029	3.2	0.0543	0.0000	OK
120 minute winter	MH15	70	94.817	0.099	5.4	0.3116	0.0000	OK
120 minute winter	MH17	68	94.815	0.118	17.5	0.3523	0.0000	OK
120 minute winter	MH11	64	94.861	0.061	10.2	0.2197	0.0000	OK
120 minute winter	MH12	70	94.815	0.165	21.0	0.5592	0.0000	OK
120 minute winter	MH10	70	94.815	0.170	13.9	0.6630	0.0000	OK
120 minute winter	MH13	66	94.833	0.255	78.6	0.7585	0.0000	OK
120 minute winter	MH18	70	94.105	0.105	60.7	0.3123	0.0000	OK
120 minute winter	MH19	70	94.846	0.385	129.9	1.7429	0.0000	SURCHARGED
120 minute winter	EX SW 3	64	93.355	0.088	58.3	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
120 minute winter	MH9	1.000	MH8	13.8	0.531	0.043	1.1357	
120 minute winter	MH8	1.001	MH6	25.1	0.689	0.057	1.2986	
120 minute winter	MH7	2.000	MH6	7.7	0.280	0.018	0.5358	
120 minute winter	MH6	1.002	MH4	39.6	0.844	0.090	0.9272	
120 minute winter	MH5	3.000	MH4	5.2	0.204	0.012	0.5466	
120 minute winter	MH4	1.003	MH2	46.1	0.950	0.105	1.6234	
120 minute winter	MH3	4.000	MH2	3.9	0.131	0.009	1.1611	
120 minute winter	MH2	1.004	MH1	54.9	0.825	0.113	3.7051	
120 minute winter	MH1	1.005	MH1.1	57.2	1.006	0.445	2.0582	
120 minute winter	MH1.1	1.006	NEW SW 1	56.6	1.129	0.401	0.8406	
120 minute winter	NEW SW 1	EX1.000	EX SW 1	56.2	3.191	2.115	0.3054	192.4
120 minute winter	MH16	5.000	MH17	11.3	1.469	0.060	0.1705	
120 minute winter	MH14	6.000	MH15	3.2	1.369	0.077	0.0265	
120 minute winter	MH15	6.001	MH17	6.2	0.289	0.020	0.3600	
120 minute winter	MH17	5.001	MH19	22.0	0.330	0.045	5.2330	
120 minute winter	MH11	7.000	MH12	10.2	0.386	0.022	1.3044	
120 minute winter	MH12	7.001	MH13	24.1	0.483	0.079	3.1192	
120 minute winter	MH10	8.000	MH13	18.2	0.393	0.059	2.9223	
120 minute winter	MH13	7.002	MH19	107.9	0.813	0.133	1.1636	
120 minute winter	MH18	5.003	EX SW 3	58.3	3.625	0.326	0.1013	164.0
120 minute winter	MH19	5.002	MH18	60.7	2.474	0.131	0.2133	

Results for 30 year 180 minute summer. 420 minute analysis at 4 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
180 minute summer	MH9	96	93.732	0.082	13.4	0.3092	0.0000	OK
180 minute summer	MH8	96	93.647	0.094	24.3	0.3234	0.0000	OK
180 minute summer	MH7	96	93.537	0.056	7.5	0.1805	0.0000	OK
180 minute summer	MH6	96	93.535	0.127	38.5	0.3935	0.0000	OK
180 minute summer	MH5	96	93.466	0.089	5.1	0.2636	0.0000	OK
180 minute summer	MH4	96	93.465	0.136	45.1	0.3632	0.0000	OK
180 minute summer	MH3	100	93.416	0.118	3.4	0.3343	0.0000	OK
180 minute summer	MH2	100	93.414	0.169	55.2	0.5208	0.0000	OK
180 minute summer	MH1	100	93.409	0.296	61.4	0.9101	0.0000	OK
180 minute summer	MH1.1	100	93.394	0.359	58.2	0.6853	0.0000	OK
180 minute summer	NEW SW 1	100	93.383	1.744	55.9	3.0811	0.0000	SURCHARGED
180 minute summer	EX SW 1	80	91.392	0.142	55.3	0.0000	0.0000	OK
180 minute summer	MH16	96	95.690	0.050	10.9	0.1554	0.0000	OK
180 minute summer	MH14	96	95.804	0.028	3.1	0.0535	0.0000	OK
180 minute summer	MH15	96	94.800	0.082	5.2	0.2603	0.0000	OK
180 minute summer	MH17	100	94.804	0.107	16.2	0.3198	0.0000	OK
180 minute summer	MH11	96	94.860	0.060	9.9	0.2166	0.0000	OK
180 minute summer	MH12	96	94.798	0.148	20.4	0.5022	0.0000	OK
180 minute summer	MH10	96	94.797	0.152	13.5	0.5946	0.0000	OK
180 minute summer	MH13	100	94.824	0.246	43.5	0.7302	0.0000	OK
180 minute summer	MH18	96	94.101	0.101	57.0	0.3014	0.0000	OK
180 minute summer	MH19	96	94.828	0.367	110.7	1.6589	0.0000	OK
180 minute summer	EX SW 3	96	93.352	0.085	54.5	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
180 minute summer	MH9	1.000	MH8	13.4	0.526	0.042	1.1114	
180 minute summer	MH8	1.001	MH6	24.3	0.683	0.055	1.2695	
180 minute summer	MH7	2.000	MH6	7.5	0.285	0.017	0.5203	
180 minute summer	MH6	1.002	MH4	38.5	0.841	0.087	0.8794	
180 minute summer	MH5	3.000	MH4	5.1	0.225	0.012	0.4467	
180 minute summer	MH4	1.003	MH2	45.0	0.948	0.102	1.1256	
180 minute summer	MH3	4.000	MH2	3.3	0.143	0.008	0.6958	
180 minute summer	MH2	1.004	MH1	54.3	0.830	0.112	2.6933	
180 minute summer	MH1	1.005	MH1.1	56.2	0.981	0.437	1.8944	
180 minute summer	MH1.1	1.006	NEW SW 1	55.9	1.096	0.396	0.8342	
180 minute summer	NEW SW 1	EX1.000	EX SW 1	55.3	3.143	2.083	0.3054	192.1
180 minute summer	MH16	5.000	MH17	10.9	1.454	0.057	0.1662	
180 minute summer	MH14	6.000	MH15	3.1	1.357	0.075	0.0259	
180 minute summer	MH15	6.001	MH17	5.3	0.291	0.017	0.3002	
180 minute summer	MH17	5.001	MH19	19.7	0.346	0.040	4.8166	
180 minute summer	MH11	7.000	MH12	9.9	0.386	0.022	1.1661	
180 minute summer	MH12	7.001	MH13	19.5	0.476	0.064	2.9094	
180 minute summer	MH10	8.000	MH13	13.1	0.386	0.043	2.7240	
180 minute summer	MH13	7.002	MH19	91.0	0.797	0.112	1.0781	
180 minute summer	MH18	5.003	EX SW 3	54.5	3.534	0.305	0.0969	166.1
180 minute summer	MH19	5.002	MH18	57.0	2.450	0.123	0.2024	

Results for 30 year 180 minute winter. 420 minute analysis at 4 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
180 minute winter	MH9	96	93.722	0.072	10.3	0.2728	0.0000	OK
180 minute winter	MH8	96	93.636	0.083	18.7	0.2850	0.0000	OK
180 minute winter	MH7	96	93.529	0.048	5.7	0.1530	0.0000	OK
180 minute winter	MH6	96	93.518	0.110	29.6	0.3416	0.0000	OK
180 minute winter	MH5	96	93.448	0.071	3.9	0.2124	0.0000	OK
180 minute winter	MH4	96	93.448	0.119	34.7	0.3172	0.0000	OK
180 minute winter	MH3	96	93.365	0.067	2.6	0.1889	0.0000	OK
180 minute winter	MH2	96	93.365	0.120	42.7	0.3683	0.0000	OK
180 minute winter	MH1	96	93.285	0.172	48.2	0.5293	0.0000	OK
180 minute winter	MH1.1	96	93.205	0.170	49.7	0.3237	0.0000	OK
180 minute winter	NEW SW 1	100	92.976	1.337	49.7	2.3622	0.0000	SURCHARGED
180 minute winter	EX SW 1	76	91.392	0.142	49.4	0.0000	0.0000	OK
180 minute winter	MH16	96	95.684	0.044	8.4	0.1365	0.0000	OK
180 minute winter	MH14	96	95.800	0.025	2.4	0.0470	0.0000	OK
180 minute winter	MH15	100	94.775	0.057	4.1	0.1796	0.0000	OK
180 minute winter	MH17	100	94.767	0.070	12.6	0.2087	0.0000	OK
180 minute winter	MH11	96	94.853	0.053	7.6	0.1914	0.0000	OK
180 minute winter	MH12	100	94.767	0.117	15.7	0.3957	0.0000	OK
180 minute winter	MH10	100	94.764	0.119	10.4	0.4661	0.0000	OK
180 minute winter	MH13	84	94.749	0.171	56.8	0.5079	0.0000	OK
180 minute winter	MH18	100	94.091	0.091	48.5	0.2728	0.0000	OK
180 minute winter	MH19	100	94.792	0.331	77.4	1.4983	0.0000	OK
180 minute winter	EX SW 3	100	93.345	0.078	46.7	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
180 minute winter	MH9	1.000	MH8	10.3	0.486	0.032	0.9256	
180 minute winter	MH8	1.001	MH6	18.7	0.639	0.043	1.0446	
180 minute winter	MH7	2.000	MH6	5.7	0.262	0.013	0.4208	
180 minute winter	MH6	1.002	MH4	29.6	0.788	0.067	0.7214	
180 minute winter	MH5	3.000	MH4	3.9	0.211	0.009	0.3532	
180 minute winter	MH4	1.003	MH2	34.7	0.873	0.079	0.8104	
180 minute winter	MH3	4.000	MH2	2.6	0.097	0.006	0.3795	
180 minute winter	MH2	1.004	MH1	42.7	0.806	0.088	1.4098	
180 minute winter	MH1	1.005	MH1.1	48.1	0.985	0.375	0.9168	
180 minute winter	MH1.1	1.006	NEW SW 1	49.7	1.106	0.353	0.3429	
180 minute winter	NEW SW 1	EX1.000	EX SW 1	49.4	2.804	1.858	0.3054	215.6
180 minute winter	MH16	5.000	MH17	8.4	1.349	0.044	0.1380	
180 minute winter	MH14	6.000	MH15	2.4	1.261	0.058	0.0216	
180 minute winter	MH15	6.001	MH17	4.2	0.283	0.014	0.1667	
180 minute winter	MH17	5.001	MH19	11.6	0.256	0.024	4.0866	
180 minute winter	MH11	7.000	MH12	7.6	0.370	0.017	0.8544	
180 minute winter	MH12	7.001	MH13	16.0	0.471	0.052	1.7114	
180 minute winter	MH10	8.000	MH13	12.0	0.380	0.039	1.6185	
180 minute winter	MH13	7.002	MH19	67.2	0.724	0.083	0.9162	
180 minute winter	MH18	5.003	EX SW 3	46.7	3.424	0.261	0.0856	190.6
180 minute winter	MH19	5.002	MH18	48.5	2.382	0.105	0.1772	

Results for 30 year 240 minute summer. 480 minute analysis at 4 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
240 minute summer	MH9	124	93.725	0.075	11.3	0.2836	0.0000	OK
240 minute summer	MH8	124	93.639	0.086	20.4	0.2955	0.0000	OK
240 minute summer	MH7	124	93.531	0.050	6.3	0.1599	0.0000	OK
240 minute summer	MH6	124	93.523	0.115	32.1	0.3553	0.0000	OK
240 minute summer	MH5	124	93.453	0.076	4.3	0.2250	0.0000	OK
240 minute summer	MH4	124	93.452	0.123	37.3	0.3286	0.0000	OK
240 minute summer	MH3	124	93.369	0.071	2.8	0.2003	0.0000	OK
240 minute summer	MH2	124	93.369	0.124	45.6	0.3809	0.0000	OK
240 minute summer	MH1	128	93.293	0.180	51.2	0.5539	0.0000	OK
240 minute summer	MH1.1	128	93.220	0.185	52.7	0.3527	0.0000	OK
240 minute summer	NEW SW 1	128	93.170	1.531	52.5	2.7055	0.0000	SURCHARGED
240 minute summer	EX SW 1	112	91.392	0.142	52.3	0.0000	0.0000	OK
240 minute summer	MH16	124	95.686	0.046	9.2	0.1425	0.0000	OK
240 minute summer	MH14	124	95.801	0.026	2.6	0.0489	0.0000	OK
240 minute summer	MH15	128	94.779	0.060	4.4	0.1912	0.0000	OK
240 minute summer	MH17	128	94.770	0.073	13.4	0.2184	0.0000	OK
240 minute summer	MH11	124	94.855	0.055	8.4	0.1996	0.0000	OK
240 minute summer	MH12	128	94.773	0.123	17.2	0.4175	0.0000	OK
240 minute summer	MH10	128	94.771	0.126	11.4	0.4927	0.0000	OK
240 minute summer	MH13	132	94.739	0.161	44.3	0.4786	0.0000	OK
240 minute summer	MH18	132	94.093	0.093	49.9	0.2781	0.0000	OK
240 minute summer	MH19	128	94.802	0.341	81.0	1.5435	0.0000	OK
240 minute summer	EX SW 3	132	93.347	0.080	48.6	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
240 minute summer	MH9	1.000	MH8	11.2	0.500	0.035	0.9777	
240 minute summer	MH8	1.001	MH6	20.2	0.652	0.046	1.1036	
240 minute summer	MH7	2.000	MH6	6.3	0.270	0.014	0.4460	
240 minute summer	MH6	1.002	MH4	31.8	0.803	0.072	0.7610	
240 minute summer	MH5	3.000	MH4	4.2	0.225	0.010	0.3758	
240 minute summer	MH4	1.003	MH2	37.0	0.886	0.084	0.8516	
240 minute summer	MH3	4.000	MH2	2.8	0.101	0.006	0.4033	
240 minute summer	MH2	1.004	MH1	45.3	0.815	0.093	1.4900	
240 minute summer	MH1	1.005	MH1.1	51.1	0.997	0.397	0.9979	
240 minute summer	MH1.1	1.006	NEW SW 1	52.5	1.119	0.372	0.3952	
240 minute summer	NEW SW 1	EX1.000	EX SW 1	52.3	2.970	1.969	0.3054	207.6
240 minute summer	MH16	5.000	MH17	9.2	1.383	0.048	0.1466	
240 minute summer	MH14	6.000	MH15	2.6	1.288	0.062	0.0228	
240 minute summer	MH15	6.001	MH17	4.2	0.288	0.014	0.1803	
240 minute summer	MH17	5.001	MH19	14.4	0.316	0.029	4.2523	
240 minute summer	MH11	7.000	MH12	8.3	0.378	0.018	0.9171	
240 minute summer	MH12	7.001	MH13	15.8	0.468	0.052	1.8266	
240 minute summer	MH10	8.000	MH13	11.5	0.376	0.038	1.7295	
240 minute summer	MH13	7.002	MH19	66.6	0.662	0.082	0.9554	
240 minute summer	MH18	5.003	EX SW 3	48.6	3.465	0.272	0.0880	182.5
240 minute summer	MH19	5.002	MH18	49.9	2.395	0.108	0.1810	

Results for 30 year 240 minute winter. 480 minute analysis at 4 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
240 minute winter	MH9	124	93.715	0.065	8.4	0.2478	0.0000	OK
240 minute winter	MH8	124	93.628	0.075	15.3	0.2586	0.0000	OK
240 minute winter	MH7	124	93.524	0.043	4.7	0.1399	0.0000	OK
240 minute winter	MH6	124	93.507	0.099	24.1	0.3063	0.0000	OK
240 minute winter	MH5	128	93.436	0.059	3.2	0.1763	0.0000	OK
240 minute winter	MH4	128	93.436	0.107	28.3	0.2848	0.0000	OK
240 minute winter	MH3	128	93.352	0.054	2.1	0.1531	0.0000	OK
240 minute winter	MH2	128	93.352	0.107	34.7	0.3292	0.0000	OK
240 minute winter	MH1	128	93.265	0.152	39.2	0.4678	0.0000	OK
240 minute winter	MH1.1	128	93.186	0.151	40.4	0.2880	0.0000	OK
240 minute winter	NEW SW 1	128	92.457	0.818	40.5	1.4452	0.0000	SURCHARGED
240 minute winter	EX SW 1	104	91.392	0.142	40.5	0.0000	0.0000	OK
240 minute winter	MH16	124	95.680	0.040	6.9	0.1240	0.0000	OK
240 minute winter	MH14	124	95.797	0.022	1.9	0.0419	0.0000	OK
240 minute winter	MH15	128	94.764	0.046	3.2	0.1441	0.0000	OK
240 minute winter	MH17	124	94.755	0.058	10.1	0.1746	0.0000	OK
240 minute winter	MH11	124	94.848	0.048	6.2	0.1737	0.0000	OK
240 minute winter	MH12	132	94.739	0.089	12.8	0.3026	0.0000	OK
240 minute winter	MH10	132	94.732	0.087	8.5	0.3396	0.0000	OK
240 minute winter	MH13	128	94.746	0.168	51.6	0.4995	0.0000	OK
240 minute winter	MH18	132	94.081	0.081	39.8	0.2416	0.0000	OK
240 minute winter	MH19	132	94.756	0.295	76.3	1.3332	0.0000	OK
240 minute winter	EX SW 3	132	93.337	0.070	38.3	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
240 minute winter	MH9	1.000	MH8	8.4	0.456	0.026	0.8022	
240 minute winter	MH8	1.001	MH6	15.2	0.606	0.035	0.8977	
240 minute winter	MH7	2.000	MH6	4.7	0.250	0.011	0.3614	
240 minute winter	MH6	1.002	MH4	24.1	0.750	0.055	0.6169	
240 minute winter	MH5	3.000	MH4	3.2	0.139	0.007	0.2916	
240 minute winter	MH4	1.003	MH2	28.3	0.834	0.064	0.6917	
240 minute winter	MH3	4.000	MH2	2.1	0.098	0.005	0.3094	
240 minute winter	MH2	1.004	MH1	34.7	0.776	0.071	1.1907	
240 minute winter	MH1	1.005	MH1.1	39.1	0.938	0.305	0.7823	
240 minute winter	MH1.1	1.006	NEW SW 1	40.5	1.048	0.287	0.2944	
240 minute winter	NEW SW 1	EX1.000	EX SW 1	40.5	2.299	1.523	0.3054	232.8
240 minute winter	MH16	5.000	MH17	6.9	1.274	0.036	0.1199	
240 minute winter	MH14	6.000	MH15	1.9	1.179	0.046	0.0183	
240 minute winter	MH15	6.001	MH17	3.2	0.273	0.010	0.1249	
240 minute winter	MH17	5.001	MH19	10.1	0.234	0.020	3.4827	
240 minute winter	MH11	7.000	MH12	6.2	0.361	0.014	0.6172	
240 minute winter	MH12	7.001	MH13	14.7	0.467	0.048	1.6143	
240 minute winter	MH10	8.000	MH13	10.9	0.374	0.036	1.4744	
240 minute winter	MH13	7.002	MH19	66.3	0.769	0.082	0.7527	
240 minute winter	MH18	5.003	EX SW 3	38.3	3.281	0.214	0.0734	203.1
240 minute winter	MH19	5.002	MH18	39.8	2.295	0.086	0.1508	

Results for 30 year 360 minute summer. 600 minute analysis at 8 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
360 minute summer	MH9	184	93.716	0.066	8.6	0.2493	0.0000	OK
360 minute summer	MH8	184	93.628	0.075	15.5	0.2590	0.0000	OK
360 minute summer	MH7	184	93.525	0.044	4.8	0.1409	0.0000	OK
360 minute summer	MH6	184	93.507	0.099	24.3	0.3065	0.0000	OK
360 minute summer	MH5	184	93.436	0.059	3.3	0.1756	0.0000	OK
360 minute summer	MH4	184	93.436	0.107	28.3	0.2841	0.0000	OK
360 minute summer	MH3	184	93.352	0.054	2.2	0.1519	0.0000	OK
360 minute summer	MH2	184	93.352	0.107	34.6	0.3280	0.0000	OK
360 minute summer	MH1	184	93.264	0.151	38.9	0.4645	0.0000	OK
360 minute summer	MH1.1	184	93.184	0.149	39.9	0.2852	0.0000	OK
360 minute summer	NEW SW 1	192	92.368	0.729	39.7	1.2884	0.0000	SURCHARGED
360 minute summer	EX SW 1	176	91.392	0.142	38.8	0.0000	0.0000	OK
360 minute summer	MH16	184	95.680	0.040	7.0	0.1246	0.0000	OK
360 minute summer	MH14	184	95.798	0.023	2.0	0.0429	0.0000	OK
360 minute summer	MH15	184	94.764	0.046	3.4	0.1469	0.0000	OK
360 minute summer	MH17	184	94.756	0.059	10.3	0.1756	0.0000	OK
360 minute summer	MH11	184	94.849	0.049	6.4	0.1757	0.0000	OK
360 minute summer	MH12	184	94.737	0.087	13.1	0.2936	0.0000	OK
360 minute summer	MH10	184	94.724	0.079	8.7	0.3074	0.0000	OK
360 minute summer	MH13	192	94.743	0.165	42.5	0.4909	0.0000	OK
360 minute summer	MH18	184	94.074	0.074	30.8	0.2195	0.0000	OK
360 minute summer	MH19	184	94.710	0.249	47.2	1.1244	0.0000	OK
360 minute summer	EX SW 3	184	93.333	0.066	33.8	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
360 minute summer	MH9	1.000	MH8	8.5	0.459	0.026	0.8063	
360 minute summer	MH8	1.001	MH6	15.3	0.607	0.035	0.8989	
360 minute summer	MH7	2.000	MH6	4.8	0.253	0.011	0.3625	
360 minute summer	MH6	1.002	MH4	24.1	0.751	0.055	0.6160	
360 minute summer	MH5	3.000	MH4	3.2	0.139	0.007	0.2903	
360 minute summer	MH4	1.003	MH2	28.0	0.831	0.064	0.6885	
360 minute summer	MH3	4.000	MH2	2.1	0.098	0.005	0.3072	
360 minute summer	MH2	1.004	MH1	34.3	0.774	0.071	1.1809	
360 minute summer	MH1	1.005	MH1.1	38.6	0.936	0.300	0.7734	
360 minute summer	MH1.1	1.006	NEW SW 1	39.7	1.042	0.281	0.2904	
360 minute summer	NEW SW 1	EX1.000	EX SW 1	38.8	2.202	1.460	0.3054	229.5
360 minute summer	MH16	5.000	MH17	7.0	1.278	0.037	0.1208	
360 minute summer	MH14	6.000	MH15	2.0	1.195	0.048	0.0189	
360 minute summer	MH15	6.001	MH17	3.3	0.280	0.011	0.1270	
360 minute summer	MH17	5.001	MH19	10.2	0.180	0.021	2.8597	
360 minute summer	MH11	7.000	MH12	6.3	0.364	0.014	0.6065	
360 minute summer	MH12	7.001	MH13	14.4	0.471	0.047	1.5519	
360 minute summer	MH10	8.000	MH13	11.2	0.378	0.037	1.4040	
360 minute summer	MH13	7.002	MH19	41.0	0.695	0.051	0.7129	
360 minute summer	MH18	5.003	EX SW 3	33.8	3.231	0.189	0.0657	191.4
360 minute summer	MH19	5.002	MH18	30.8	2.145	0.067	0.1250	

Results for 30 year 360 minute winter. 600 minute analysis at 8 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
360 minute winter	MH9	184	93.707	0.057	6.3	0.2158	0.0000	OK
360 minute winter	MH8	184	93.618	0.065	11.4	0.2252	0.0000	OK
360 minute winter	MH7	184	93.519	0.038	3.5	0.1224	0.0000	OK
360 minute winter	MH6	184	93.493	0.085	18.0	0.2630	0.0000	OK
360 minute winter	MH5	184	93.421	0.044	2.4	0.1319	0.0000	OK
360 minute winter	MH4	184	93.421	0.092	21.1	0.2447	0.0000	OK
360 minute winter	MH3	184	93.337	0.039	1.6	0.1111	0.0000	OK
360 minute winter	MH2	184	93.337	0.092	25.8	0.2833	0.0000	OK
360 minute winter	MH1	184	93.241	0.128	29.1	0.3943	0.0000	OK
360 minute winter	MH1.1	184	93.163	0.128	30.0	0.2442	0.0000	OK
360 minute winter	NEW SW 1	184	91.973	0.334	30.0	0.5908	0.0000	SURCHARGED
360 minute winter	EX SW 1	176	91.392	0.142	29.9	0.0000	0.0000	OK
360 minute winter	MH16	184	95.674	0.034	5.1	0.1071	0.0000	OK
360 minute winter	MH14	184	95.794	0.019	1.4	0.0361	0.0000	OK
360 minute winter	MH15	184	94.757	0.039	2.4	0.1219	0.0000	OK
360 minute winter	MH17	184	94.748	0.051	7.5	0.1520	0.0000	OK
360 minute winter	MH11	184	94.842	0.042	4.6	0.1517	0.0000	OK
360 minute winter	MH12	184	94.721	0.071	9.5	0.2414	0.0000	OK
360 minute winter	MH10	192	94.705	0.060	6.3	0.2341	0.0000	OK
360 minute winter	MH13	176	94.696	0.118	22.5	0.3523	0.0000	OK
360 minute winter	MH18	200	94.067	0.067	28.9	0.2014	0.0000	OK
360 minute winter	MH19	192	94.709	0.248	55.2	1.1232	0.0000	OK
360 minute winter	EX SW 3	200	93.327	0.060	28.4	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
360 minute winter	MH9	1.000	MH8	6.3	0.419	0.019	0.6542	
360 minute winter	MH8	1.001	MH6	11.3	0.558	0.026	0.7239	
360 minute winter	MH7	2.000	MH6	3.5	0.231	0.008	0.2908	
360 minute winter	MH6	1.002	MH4	18.0	0.699	0.041	0.4947	
360 minute winter	MH5	3.000	MH4	2.4	0.138	0.005	0.2207	
360 minute winter	MH4	1.003	MH2	21.0	0.773	0.048	0.5554	
360 minute winter	MH3	4.000	MH2	1.6	0.115	0.004	0.2332	
360 minute winter	MH2	1.004	MH1	25.8	0.728	0.053	0.9428	
360 minute winter	MH1	1.005	MH1.1	29.0	0.874	0.226	0.6233	
360 minute winter	MH1.1	1.006	NEW SW 1	30.0	0.968	0.213	0.2363	
360 minute winter	NEW SW 1	EX1.000	EX SW 1	29.9	1.698	1.126	0.3054	257.7
360 minute winter	MH16	5.000	MH17	5.1	1.164	0.027	0.0970	
360 minute winter	MH14	6.000	MH15	1.4	1.077	0.034	0.0147	
360 minute winter	MH15	6.001	MH17	2.4	0.256	0.008	0.0995	
360 minute winter	MH17	5.001	MH19	7.5	0.185	0.015	2.7914	
360 minute winter	MH11	7.000	MH12	4.6	0.343	0.010	0.4644	
360 minute winter	MH12	7.001	MH13	9.3	0.459	0.030	1.0339	
360 minute winter	MH10	8.000	MH13	6.1	0.366	0.020	0.8880	
360 minute winter	MH13	7.002	MH19	47.7	0.737	0.059	0.5731	
360 minute winter	MH18	5.003	EX SW 3	28.4	3.066	0.159	0.0581	221.4
360 minute winter	MH19	5.002	MH18	28.9	2.152	0.062	0.1166	

Results for 30 year 480 minute summer. 720 minute analysis at 8 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
480 minute summer	MH9	248	93.709	0.059	6.8	0.2241	0.0000	OK
480 minute summer	MH8	248	93.621	0.068	12.3	0.2338	0.0000	OK
480 minute summer	MH7	248	93.521	0.040	3.8	0.1275	0.0000	OK
480 minute summer	MH6	248	93.497	0.089	19.5	0.2742	0.0000	OK
480 minute summer	MH5	248	93.425	0.048	2.6	0.1437	0.0000	OK
480 minute summer	MH4	248	93.425	0.096	22.9	0.2554	0.0000	OK
480 minute summer	MH3	248	93.341	0.043	1.7	0.1220	0.0000	OK
480 minute summer	MH2	248	93.341	0.096	28.1	0.2952	0.0000	OK
480 minute summer	MH1	248	93.248	0.135	31.7	0.4142	0.0000	OK
480 minute summer	MH1.1	248	93.169	0.134	32.7	0.2559	0.0000	OK
480 minute summer	NEW SW 1	248	92.086	0.447	32.7	0.7903	0.0000	SURCHARGED
480 minute summer	EX SW 1	240	91.392	0.142	32.7	0.0000	0.0000	OK
480 minute summer	MH16	248	95.676	0.036	5.5	0.1111	0.0000	OK
480 minute summer	MH14	248	95.795	0.020	1.5	0.0373	0.0000	OK
480 minute summer	MH15	248	94.758	0.040	2.6	0.1277	0.0000	OK
480 minute summer	MH17	248	94.750	0.053	8.1	0.1578	0.0000	OK
480 minute summer	MH11	248	94.844	0.044	5.0	0.1575	0.0000	OK
480 minute summer	MH12	248	94.725	0.075	10.3	0.2528	0.0000	OK
480 minute summer	MH10	248	94.709	0.064	6.8	0.2492	0.0000	OK
480 minute summer	MH13	248	94.705	0.127	34.9	0.3785	0.0000	OK
480 minute summer	MH18	256	94.070	0.070	30.2	0.2086	0.0000	OK
480 minute summer	MH19	256	94.710	0.249	58.0	1.1259	0.0000	OK
480 minute summer	EX SW 3	256	93.329	0.062	30.1	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
480 minute summer	MH9	1.000	MH8	6.8	0.429	0.021	0.6920	
480 minute summer	MH8	1.001	MH6	12.3	0.572	0.028	0.7678	
480 minute summer	MH7	2.000	MH6	3.8	0.238	0.009	0.3087	
480 minute summer	MH6	1.002	MH4	19.5	0.713	0.044	0.5262	
480 minute summer	MH5	3.000	MH4	2.6	0.137	0.006	0.2390	
480 minute summer	MH4	1.003	MH2	22.9	0.791	0.052	0.5910	
480 minute summer	MH3	4.000	MH2	1.7	0.098	0.004	0.2527	
480 minute summer	MH2	1.004	MH1	28.1	0.742	0.058	1.0075	
480 minute summer	MH1	1.005	MH1.1	31.7	0.893	0.247	0.6654	
480 minute summer	MH1.1	1.006	NEW SW 1	32.7	0.990	0.232	0.2517	
480 minute summer	NEW SW 1	EX1.000	EX SW 1	32.7	1.856	1.230	0.3054	247.2
480 minute summer	MH16	5.000	MH17	5.5	1.191	0.029	0.1024	
480 minute summer	MH14	6.000	MH15	1.5	1.100	0.036	0.0155	
480 minute summer	MH15	6.001	MH17	2.6	0.259	0.009	0.1056	
480 minute summer	MH17	5.001	MH19	8.1	0.159	0.016	2.7938	
480 minute summer	MH11	7.000	MH12	5.0	0.352	0.011	0.4957	
480 minute summer	MH12	7.001	MH13	10.2	0.461	0.033	1.1406	
480 minute summer	MH10	8.000	MH13	7.0	0.366	0.023	0.9956	
480 minute summer	MH13	7.002	MH19	49.9	0.708	0.062	0.6071	
480 minute summer	MH18	5.003	EX SW 3	30.1	3.106	0.168	0.0608	216.9
480 minute summer	MH19	5.002	MH18	30.2	2.165	0.065	0.1215	

Results for 30 year 480 minute winter. 720 minute analysis at 8 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
480 minute winter	MH9	248	93.701	0.051	5.0	0.1941	0.0000	OK
480 minute winter	MH8	248	93.612	0.059	9.1	0.2025	0.0000	OK
480 minute winter	MH7	248	93.515	0.034	2.8	0.1100	0.0000	OK
480 minute winter	MH6	248	93.484	0.076	14.4	0.2346	0.0000	OK
480 minute winter	MH5	248	93.412	0.035	1.9	0.1034	0.0000	OK
480 minute winter	MH4	248	93.411	0.082	16.9	0.2189	0.0000	OK
480 minute winter	MH3	248	93.328	0.030	1.3	0.0857	0.0000	OK
480 minute winter	MH2	248	93.328	0.083	20.8	0.2553	0.0000	OK
480 minute winter	MH1	248	93.227	0.114	23.5	0.3505	0.0000	OK
480 minute winter	MH1.1	248	93.149	0.114	24.3	0.2178	0.0000	OK
480 minute winter	NEW SW 1	248	91.763	0.124	24.3	0.2187	0.0000	OK
480 minute winter	EX SW 1	248	91.363	0.113	24.3	0.0000	0.0000	OK
480 minute winter	MH16	248	95.671	0.031	4.1	0.0964	0.0000	OK
480 minute winter	MH14	248	95.793	0.018	1.2	0.0335	0.0000	OK
480 minute winter	MH15	248	94.753	0.035	2.0	0.1097	0.0000	OK
480 minute winter	MH17	248	94.743	0.046	6.1	0.1381	0.0000	OK
480 minute winter	MH11	248	94.838	0.038	3.7	0.1374	0.0000	OK
480 minute winter	MH12	248	94.715	0.065	7.7	0.2190	0.0000	OK
480 minute winter	MH10	248	94.698	0.053	5.1	0.2072	0.0000	OK
480 minute winter	MH13	232	94.671	0.093	19.3	0.2762	0.0000	OK
480 minute winter	MH18	240	94.059	0.059	22.9	0.1774	0.0000	OK
480 minute winter	MH19	248	94.679	0.218	40.2	0.9867	0.0000	OK
480 minute winter	EX SW 3	240	93.321	0.054	22.8	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
480 minute winter	MH9	1.000	MH8	5.0	0.391	0.015	0.5595	
480 minute winter	MH8	1.001	MH6	9.1	0.528	0.021	0.6159	
480 minute winter	MH7	2.000	MH6	2.8	0.219	0.006	0.2469	
480 minute winter	MH6	1.002	MH4	14.4	0.660	0.033	0.4198	
480 minute winter	MH5	3.000	MH4	1.9	0.162	0.004	0.1790	
480 minute winter	MH4	1.003	MH2	16.9	0.725	0.038	0.4754	
480 minute winter	MH3	4.000	MH2	1.3	0.099	0.003	0.1916	
480 minute winter	MH2	1.004	MH1	20.8	0.690	0.043	0.8022	
480 minute winter	MH1	1.005	MH1.1	23.5	0.830	0.183	0.5307	
480 minute winter	MH1.1	1.006	NEW SW 1	24.3	0.916	0.172	0.2024	
480 minute winter	NEW SW 1	EX1.000	EX SW 1	24.3	1.632	0.915	0.2605	277.8
480 minute winter	MH16	5.000	MH17	4.1	1.092	0.022	0.0833	
480 minute winter	MH14	6.000	MH15	1.2	1.028	0.029	0.0132	
480 minute winter	MH15	6.001	MH17	2.0	0.248	0.007	0.0862	
480 minute winter	MH17	5.001	MH19	6.1	0.176	0.012	2.3544	
480 minute winter	MH11	7.000	MH12	3.7	0.320	0.008	0.4010	
480 minute winter	MH12	7.001	MH13	7.8	0.458	0.025	0.7774	
480 minute winter	MH10	8.000	MH13	5.1	0.366	0.017	0.6586	
480 minute winter	MH13	7.002	MH19	34.3	0.661	0.042	0.4718	
480 minute winter	MH18	5.003	EX SW 3	22.8	2.911	0.128	0.0492	237.6
480 minute winter	MH19	5.002	MH18	22.9	2.046	0.050	0.0975	

Results for 30 year 600 minute summer. 840 minute analysis at 15 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
600 minute summer	MH9	315	93.704	0.054	5.5	0.2030	0.0000	OK
600 minute summer	MH8	315	93.615	0.062	10.0	0.2119	0.0000	OK
600 minute summer	MH7	315	93.517	0.036	3.1	0.1155	0.0000	OK
600 minute summer	MH6	315	93.488	0.080	15.9	0.2467	0.0000	OK
600 minute summer	MH5	315	93.416	0.039	2.1	0.1153	0.0000	OK
600 minute summer	MH4	315	93.415	0.086	18.6	0.2297	0.0000	OK
600 minute summer	MH3	315	93.332	0.034	1.4	0.0966	0.0000	OK
600 minute summer	MH2	315	93.332	0.087	22.9	0.2674	0.0000	OK
600 minute summer	MH1	315	93.233	0.120	25.9	0.3698	0.0000	OK
600 minute summer	MH1.1	315	93.155	0.120	26.7	0.2291	0.0000	OK
600 minute summer	NEW SW 1	315	91.854	0.215	26.7	0.3805	0.0000	SURCHARGED
600 minute summer	EX SW 1	315	91.391	0.141	26.7	0.0000	0.0000	OK
600 minute summer	MH16	315	95.672	0.032	4.5	0.1009	0.0000	OK
600 minute summer	MH14	315	95.794	0.019	1.3	0.0348	0.0000	OK
600 minute summer	MH15	315	94.755	0.037	2.2	0.1156	0.0000	OK
600 minute summer	MH17	315	94.745	0.048	6.7	0.1443	0.0000	OK
600 minute summer	MH11	315	94.840	0.040	4.1	0.1443	0.0000	OK
600 minute summer	MH12	315	94.717	0.067	8.4	0.2281	0.0000	OK
600 minute summer	MH10	315	94.700	0.055	5.6	0.2164	0.0000	OK
600 minute summer	MH13	315	94.682	0.104	24.9	0.3090	0.0000	OK
600 minute summer	MH18	300	94.060	0.060	22.4	0.1803	0.0000	OK
600 minute summer	MH19	300	94.670	0.209	22.6	0.9449	0.0000	OK
600 minute summer	EX SW 3	300	93.322	0.055	23.6	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
600 minute summer	MH9	1.000	MH8	5.5	0.401	0.017	0.5975	
600 minute summer	MH8	1.001	MH6	10.0	0.540	0.023	0.6604	
600 minute summer	MH7	2.000	MH6	3.1	0.226	0.007	0.2653	
600 minute summer	MH6	1.002	MH4	15.9	0.677	0.036	0.4510	
600 minute summer	MH5	3.000	MH4	2.1	0.139	0.005	0.1959	
600 minute summer	MH4	1.003	MH2	18.6	0.745	0.042	0.5093	
600 minute summer	MH3	4.000	MH2	1.4	0.095	0.003	0.2095	
600 minute summer	MH2	1.004	MH1	22.9	0.707	0.047	0.8630	
600 minute summer	MH1	1.005	MH1.1	25.9	0.851	0.201	0.5707	
600 minute summer	MH1.1	1.006	NEW SW 1	26.7	0.939	0.189	0.2169	
600 minute summer	NEW SW 1	EX1.000	EX SW 1	26.7	1.623	1.005	0.3045	262.4
600 minute summer	MH16	5.000	MH17	4.5	1.122	0.024	0.0889	
600 minute summer	MH14	6.000	MH15	1.3	1.053	0.031	0.0140	
600 minute summer	MH15	6.001	MH17	2.2	0.253	0.007	0.0923	
600 minute summer	MH17	5.001	MH19	6.7	0.156	0.014	2.2444	
600 minute summer	MH11	7.000	MH12	4.1	0.333	0.009	0.4273	
600 minute summer	MH12	7.001	MH13	8.5	0.455	0.028	0.8918	
600 minute summer	MH10	8.000	MH13	5.6	0.360	0.018	0.7607	
600 minute summer	MH13	7.002	MH19	17.4	0.408	0.021	0.4934	
600 minute summer	MH18	5.003	EX SW 3	23.6	2.943	0.132	0.0504	227.9
600 minute summer	MH19	5.002	MH18	22.4	2.015	0.048	0.0968	

Results for 30 year 600 minute winter. 840 minute analysis at 15 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
600 minute winter	MH9	315	93.697	0.047	4.2	0.1788	0.0000	OK
600 minute winter	MH8	315	93.607	0.054	7.7	0.1873	0.0000	OK
600 minute winter	MH7	315	93.513	0.032	2.4	0.1024	0.0000	OK
600 minute winter	MH6	315	93.478	0.070	12.2	0.2157	0.0000	OK
600 minute winter	MH5	315	93.405	0.028	1.6	0.0842	0.0000	OK
600 minute winter	MH4	315	93.405	0.076	14.3	0.2013	0.0000	OK
600 minute winter	MH3	315	93.322	0.024	1.1	0.0682	0.0000	OK
600 minute winter	MH2	315	93.322	0.077	17.6	0.2358	0.0000	OK
600 minute winter	MH1	315	93.217	0.104	19.9	0.3200	0.0000	OK
600 minute winter	MH1.1	315	93.139	0.104	20.5	0.1988	0.0000	OK
600 minute winter	NEW SW 1	315	91.745	0.106	20.5	0.1874	0.0000	OK
600 minute winter	EX SW 1	315	91.349	0.099	20.5	0.0000	0.0000	OK
600 minute winter	MH16	315	95.669	0.029	3.5	0.0893	0.0000	OK
600 minute winter	MH14	315	95.791	0.016	1.0	0.0307	0.0000	OK
600 minute winter	MH15	315	94.750	0.032	1.7	0.1005	0.0000	OK
600 minute winter	MH17	315	94.740	0.043	5.2	0.1285	0.0000	OK
600 minute winter	MH11	315	94.835	0.035	3.1	0.1261	0.0000	OK
600 minute winter	MH12	315	94.709	0.059	6.4	0.2010	0.0000	OK
600 minute winter	MH10	315	94.694	0.049	4.3	0.1910	0.0000	OK
600 minute winter	MH13	315	94.655	0.077	12.5	0.2282	0.0000	OK
600 minute winter	MH18	330	94.052	0.052	17.6	0.1558	0.0000	OK
600 minute winter	MH19	330	94.647	0.186	26.0	0.8399	0.0000	OK
600 minute winter	EX SW 3	330	93.315	0.048	18.0	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
600 minute winter	MH9	1.000	MH8	4.2	0.369	0.013	0.4971	
600 minute winter	MH8	1.001	MH6	7.7	0.503	0.018	0.5454	
600 minute winter	MH7	2.000	MH6	2.4	0.211	0.006	0.2189	
600 minute winter	MH6	1.002	MH4	12.2	0.631	0.028	0.3712	
600 minute winter	MH5	3.000	MH4	1.6	0.137	0.004	0.1524	
600 minute winter	MH4	1.003	MH2	14.3	0.692	0.032	0.4219	
600 minute winter	MH3	4.000	MH2	1.1	0.098	0.003	0.1637	
600 minute winter	MH2	1.004	MH1	17.6	0.662	0.036	0.7073	
600 minute winter	MH1	1.005	MH1.1	19.9	0.798	0.155	0.4675	
600 minute winter	MH1.1	1.006	NEW SW 1	20.5	0.875	0.145	0.1788	
600 minute winter	NEW SW 1	EX1.000	EX SW 1	20.5	1.600	0.772	0.2244	294.5
600 minute winter	MH16	5.000	MH17	3.5	1.042	0.018	0.0744	
600 minute winter	MH14	6.000	MH15	1.0	0.975	0.024	0.0116	
600 minute winter	MH15	6.001	MH17	1.7	0.236	0.006	0.0766	
600 minute winter	MH17	5.001	MH19	5.2	0.146	0.011	1.8980	
600 minute winter	MH11	7.000	MH12	3.1	0.304	0.007	0.3546	
600 minute winter	MH12	7.001	MH13	6.5	0.462	0.021	0.6322	
600 minute winter	MH10	8.000	MH13	4.3	0.367	0.014	0.5304	
600 minute winter	MH13	7.002	MH19	20.9	0.485	0.026	0.3840	
600 minute winter	MH18	5.003	EX SW 3	18.0	2.742	0.101	0.0412	251.8
600 minute winter	MH19	5.002	MH18	17.6	1.909	0.038	0.0803	

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

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
720 minute summer	MH9	375	93.701	0.051	4.9	0.1922	0.0000	OK
720 minute summer	MH8	375	93.611	0.058	8.9	0.2004	0.0000	OK
720 minute summer	MH7	375	93.515	0.034	2.7	0.1082	0.0000	OK
720 minute summer	MH6	375	93.483	0.075	14.1	0.2321	0.0000	OK
720 minute summer	MH5	375	93.411	0.034	1.9	0.1014	0.0000	OK
720 minute summer	MH4	375	93.410	0.081	16.6	0.2169	0.0000	OK
720 minute summer	MH3	375	93.328	0.030	1.2	0.0835	0.0000	OK
720 minute summer	MH2	375	93.327	0.082	20.4	0.2530	0.0000	OK
720 minute summer	MH1	375	93.226	0.113	23.0	0.3464	0.0000	OK
720 minute summer	MH1.1	375	93.148	0.113	23.8	0.2153	0.0000	OK
720 minute summer	NEW SW 1	375	91.760	0.121	23.8	0.2139	0.0000	OK
720 minute summer	EX SW 1	375	91.361	0.111	23.8	0.0000	0.0000	OK
720 minute summer	MH16	375	95.670	0.030	4.0	0.0953	0.0000	OK
720 minute summer	MH14	375	95.792	0.017	1.1	0.0322	0.0000	OK
720 minute summer	MH15	375	94.752	0.034	1.9	0.1069	0.0000	OK
720 minute summer	MH17	375	94.743	0.046	5.9	0.1360	0.0000	OK
720 minute summer	MH11	375	94.838	0.038	3.6	0.1356	0.0000	OK
720 minute summer	MH12	375	94.714	0.064	7.5	0.2165	0.0000	OK
720 minute summer	MH10	375	94.698	0.053	5.0	0.2052	0.0000	OK
720 minute summer	MH13	360	94.665	0.087	21.1	0.2592	0.0000	OK
720 minute summer	MH18	375	94.059	0.059	21.4	0.1749	0.0000	OK
720 minute summer	MH19	375	94.665	0.204	31.9	0.9218	0.0000	OK
720 minute summer	EX SW 3	375	93.320	0.053	22.3	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
720 minute summer	MH9	1.000	MH8	4.9	0.389	0.015	0.5513	
720 minute summer	MH8	1.001	MH6	8.9	0.525	0.020	0.6062	
720 minute summer	MH7	2.000	MH6	2.7	0.216	0.006	0.2425	
720 minute summer	MH6	1.002	MH4	14.1	0.656	0.032	0.4138	
720 minute summer	MH5	3.000	MH4	1.9	0.142	0.004	0.1761	
720 minute summer	MH4	1.003	MH2	16.6	0.722	0.038	0.4690	
720 minute summer	MH3	4.000	MH2	1.2	0.096	0.003	0.1881	
720 minute summer	MH2	1.004	MH1	20.4	0.687	0.042	0.7897	
720 minute summer	MH1	1.005	MH1.1	23.0	0.826	0.179	0.5223	
720 minute summer	MH1.1	1.006	NEW SW 1	23.8	0.911	0.169	0.1994	
720 minute summer	NEW SW 1	EX1.000	EX SW 1	23.8	1.630	0.896	0.2555	277.1
720 minute summer	MH16	5.000	MH17	4.0	1.084	0.021	0.0818	
720 minute summer	MH14	6.000	MH15	1.1	1.002	0.027	0.0124	
720 minute summer	MH15	6.001	MH17	1.9	0.243	0.006	0.0837	
720 minute summer	MH17	5.001	MH19	5.9	0.151	0.012	2.1608	
720 minute summer	MH11	7.000	MH12	3.6	0.317	0.008	0.3942	
720 minute summer	MH12	7.001	MH13	7.6	0.449	0.025	0.7350	
720 minute summer	MH10	8.000	MH13	5.0	0.357	0.016	0.6204	
720 minute summer	MH13	7.002	MH19	26.6	0.594	0.033	0.4489	
720 minute summer	MH18	5.003	EX SW 3	22.3	2.900	0.125	0.0483	233.7
720 minute summer	MH19	5.002	MH18	21.4	1.995	0.046	0.0931	

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

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
720 minute winter	MH9	375	93.695	0.045	3.7	0.1687	0.0000	OK
720 minute winter	MH8	375	93.604	0.051	6.7	0.1755	0.0000	OK
720 minute winter	MH7	375	93.511	0.030	2.1	0.0963	0.0000	OK
720 minute winter	MH6	375	93.473	0.065	10.7	0.2022	0.0000	OK
720 minute winter	MH5	360	93.402	0.025	1.4	0.0743	0.0000	OK
720 minute winter	MH4	375	93.400	0.071	12.5	0.1883	0.0000	OK
720 minute winter	MH3	360	93.318	0.020	0.9	0.0577	0.0000	OK
720 minute winter	MH2	375	93.317	0.072	15.3	0.2206	0.0000	OK
720 minute winter	MH1	375	93.210	0.097	17.3	0.2969	0.0000	OK
720 minute winter	MH1.1	375	93.132	0.097	17.9	0.1850	0.0000	OK
720 minute winter	NEW SW 1	375	91.735	0.096	17.9	0.1694	0.0000	OK
720 minute winter	EX SW 1	375	91.340	0.090	17.9	0.0000	0.0000	OK
720 minute winter	MH16	375	95.667	0.027	3.0	0.0831	0.0000	OK
720 minute winter	MH14	345	95.790	0.015	0.8	0.0276	0.0000	OK
720 minute winter	MH15	360	94.747	0.029	1.4	0.0920	0.0000	OK
720 minute winter	MH17	375	94.737	0.040	4.4	0.1193	0.0000	OK
720 minute winter	MH11	375	94.833	0.033	2.7	0.1182	0.0000	OK
720 minute winter	MH12	360	94.708	0.058	5.6	0.1960	0.0000	OK
720 minute winter	MH10	375	94.691	0.046	3.7	0.1781	0.0000	OK
720 minute winter	MH13	360	94.627	0.049	10.8	0.1467	0.0000	OK
720 minute winter	MH18	375	94.048	0.048	15.5	0.1437	0.0000	OK
720 minute winter	MH19	375	94.636	0.175	15.9	0.7913	0.0000	OK
720 minute winter	EX SW 3	375	93.312	0.045	15.5	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
720 minute winter	MH9	1.000	MH8	3.7	0.356	0.011	0.4533	
720 minute winter	MH8	1.001	MH6	6.7	0.481	0.015	0.4950	
720 minute winter	MH7	2.000	MH6	2.1	0.203	0.005	0.1988	
720 minute winter	MH6	1.002	MH4	10.7	0.611	0.024	0.3367	
720 minute winter	MH5	3.000	MH4	1.4	0.137	0.003	0.1356	
720 minute winter	MH4	1.003	MH2	12.5	0.667	0.028	0.3827	
720 minute winter	MH3	4.000	MH2	0.9	0.093	0.002	0.1453	
720 minute winter	MH2	1.004	MH1	15.3	0.638	0.031	0.6376	
720 minute winter	MH1	1.005	MH1.1	17.3	0.769	0.135	0.4216	
720 minute winter	MH1.1	1.006	NEW SW 1	17.9	0.843	0.127	0.1619	
720 minute winter	NEW SW 1	EX1.000	EX SW 1	17.9	1.561	0.674	0.2009	309.1
720 minute winter	MH16	5.000	MH17	3.0	0.998	0.016	0.0667	
720 minute winter	MH14	6.000	MH15	0.8	0.912	0.019	0.0099	
720 minute winter	MH15	6.001	MH17	1.4	0.220	0.005	0.0676	
720 minute winter	MH17	5.001	MH19	4.4	0.131	0.009	1.7503	
720 minute winter	MH11	7.000	MH12	2.7	0.282	0.006	0.3352	
720 minute winter	MH12	7.001	MH13	5.6	0.457	0.018	0.4429	
720 minute winter	MH10	8.000	MH13	3.7	0.365	0.012	0.3448	
720 minute winter	MH13	7.002	MH19	11.5	0.322	0.014	0.3345	
720 minute winter	MH18	5.003	EX SW 3	15.5	2.631	0.086	0.0368	264.5
720 minute winter	MH19	5.002	MH18	15.5	1.855	0.033	0.0725	

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

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
960 minute summer	MH9	495	93.696	0.046	4.0	0.1748	0.0000	OK
960 minute summer	MH8	495	93.606	0.053	7.3	0.1828	0.0000	OK
960 minute summer	MH7	495	93.512	0.031	2.2	0.0984	0.0000	OK
960 minute summer	MH6	495	93.476	0.068	11.5	0.2094	0.0000	OK
960 minute summer	MH5	495	93.403	0.026	1.5	0.0781	0.0000	OK
960 minute summer	MH4	495	93.402	0.073	13.5	0.1956	0.0000	OK
960 minute summer	MH3	495	93.320	0.022	1.0	0.0623	0.0000	OK
960 minute summer	MH2	495	93.320	0.075	16.6	0.2293	0.0000	OK
960 minute summer	MH1	495	93.214	0.101	18.8	0.3104	0.0000	OK
960 minute summer	MH1.1	495	93.136	0.101	19.4	0.1931	0.0000	OK
960 minute summer	NEW SW 1	495	91.741	0.102	19.4	0.1796	0.0000	OK
960 minute summer	EX SW 1	495	91.345	0.095	19.4	0.0000	0.0000	OK
960 minute summer	MH16	495	95.668	0.028	3.3	0.0869	0.0000	OK
960 minute summer	MH14	495	95.791	0.016	0.9	0.0292	0.0000	OK
960 minute summer	MH15	495	94.748	0.030	1.5	0.0949	0.0000	OK
960 minute summer	MH17	495	94.739	0.042	4.8	0.1240	0.0000	OK
960 minute summer	MH11	495	94.834	0.034	3.0	0.1242	0.0000	OK
960 minute summer	MH12	480	94.709	0.059	6.2	0.2006	0.0000	OK
960 minute summer	MH10	495	94.693	0.048	4.1	0.1868	0.0000	OK
960 minute summer	MH13	480	94.641	0.063	12.1	0.1871	0.0000	OK
960 minute summer	MH18	495	94.051	0.051	17.4	0.1520	0.0000	OK
960 minute summer	MH19	495	94.648	0.187	20.6	0.8468	0.0000	OK
960 minute summer	EX SW 3	495	93.314	0.047	17.1	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
960 minute summer	MH9	1.000	MH8	4.0	0.364	0.012	0.4795	
960 minute summer	MH8	1.001	MH6	7.3	0.496	0.017	0.5231	
960 minute summer	MH7	2.000	MH6	2.2	0.204	0.005	0.2086	
960 minute summer	MH6	1.002	MH4	11.5	0.621	0.026	0.3556	
960 minute summer	MH5	3.000	MH4	1.5	0.138	0.003	0.1439	
960 minute summer	MH4	1.003	MH2	13.5	0.680	0.031	0.4049	
960 minute summer	MH3	4.000	MH2	1.0	0.096	0.002	0.1550	
960 minute summer	MH2	1.004	MH1	16.6	0.651	0.034	0.6779	
960 minute summer	MH1	1.005	MH1.1	18.8	0.786	0.146	0.4482	
960 minute summer	MH1.1	1.006	NEW SW 1	19.4	0.861	0.138	0.1717	
960 minute summer	NEW SW 1	EX1.000	EX SW 1	19.4	1.585	0.730	0.2144	295.7
960 minute summer	MH16	5.000	MH17	3.3	1.025	0.017	0.0714	
960 minute summer	MH14	6.000	MH15	0.9	0.944	0.022	0.0108	
960 minute summer	MH15	6.001	MH17	1.5	0.222	0.005	0.0715	
960 minute summer	MH17	5.001	MH19	4.8	0.139	0.010	1.9167	
960 minute summer	MH11	7.000	MH12	3.0	0.300	0.007	0.3507	
960 minute summer	MH12	7.001	MH13	6.5	0.456	0.021	0.5363	
960 minute summer	MH10	8.000	MH13	4.1	0.365	0.013	0.4351	
960 minute summer	MH13	7.002	MH19	15.8	0.385	0.019	0.3745	
960 minute summer	MH18	5.003	EX SW 3	17.1	2.696	0.095	0.0397	254.5
960 minute summer	MH19	5.002	MH18	17.4	1.914	0.038	0.0793	

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

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
960 minute winter	MH9	495	93.691	0.041	3.0	0.1537	0.0000	OK
960 minute winter	MH8	495	93.599	0.046	5.4	0.1587	0.0000	OK
960 minute winter	MH7	495	93.508	0.027	1.7	0.0877	0.0000	OK
960 minute winter	MH6	495	93.467	0.059	8.6	0.1811	0.0000	OK
960 minute winter	MH5	465	93.399	0.022	1.1	0.0665	0.0000	OK
960 minute winter	MH4	495	93.392	0.063	10.0	0.1687	0.0000	OK
960 minute winter	MH3	495	93.317	0.019	0.8	0.0547	0.0000	OK
960 minute winter	MH2	495	93.310	0.065	12.4	0.2000	0.0000	OK
960 minute winter	MH1	495	93.199	0.086	14.0	0.2653	0.0000	OK
960 minute winter	MH1.1	495	93.122	0.087	14.5	0.1655	0.0000	OK
960 minute winter	NEW SW 1	495	91.722	0.083	14.5	0.1471	0.0000	OK
960 minute winter	EX SW 1	495	91.329	0.079	14.5	0.0000	0.0000	OK
960 minute winter	MH16	480	95.664	0.024	2.4	0.0747	0.0000	OK
960 minute winter	MH14	480	95.789	0.014	0.7	0.0259	0.0000	OK
960 minute winter	MH15	480	94.745	0.027	1.2	0.0860	0.0000	OK
960 minute winter	MH17	480	94.733	0.036	3.6	0.1083	0.0000	OK
960 minute winter	MH11	480	94.830	0.030	2.2	0.1076	0.0000	OK
960 minute winter	MH12	495	94.703	0.053	4.6	0.1800	0.0000	OK
960 minute winter	MH10	495	94.687	0.042	3.0	0.1621	0.0000	OK
960 minute winter	MH13	495	94.622	0.044	8.8	0.1297	0.0000	OK
960 minute winter	MH18	495	94.043	0.043	12.4	0.1278	0.0000	OK
960 minute winter	MH19	495	94.617	0.156	12.4	0.7043	0.0000	OK
960 minute winter	EX SW 3	495	93.307	0.040	12.4	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
960 minute winter	MH9	1.000	MH8	3.0	0.334	0.009	0.3916	
960 minute winter	MH8	1.001	MH6	5.4	0.456	0.012	0.4241	
960 minute winter	MH7	2.000	MH6	1.7	0.192	0.004	0.1697	
960 minute winter	MH6	1.002	MH4	8.6	0.577	0.020	0.2864	
960 minute winter	MH5	3.000	MH4	1.1	0.128	0.003	0.1151	
960 minute winter	MH4	1.003	MH2	10.0	0.623	0.023	0.3277	
960 minute winter	MH3	4.000	MH2	0.8	0.095	0.002	0.1266	
960 minute winter	MH2	1.004	MH1	12.4	0.604	0.026	0.5452	
960 minute winter	MH1	1.005	MH1.1	14.0	0.729	0.109	0.3599	
960 minute winter	MH1.1	1.006	NEW SW 1	14.5	0.797	0.103	0.1389	
960 minute winter	NEW SW 1	EX1.000	EX SW 1	14.5	1.493	0.546	0.1702	331.1
960 minute winter	MH16	5.000	MH17	2.4	0.930	0.013	0.0572	
960 minute winter	MH14	6.000	MH15	0.7	0.877	0.017	0.0090	
960 minute winter	MH15	6.001	MH17	1.2	0.212	0.004	0.0595	
960 minute winter	MH17	5.001	MH19	3.6	0.125	0.007	1.4906	
960 minute winter	MH11	7.000	MH12	2.2	0.265	0.005	0.2931	
960 minute winter	MH12	7.001	MH13	4.6	0.434	0.015	0.3800	
960 minute winter	MH10	8.000	MH13	3.0	0.343	0.010	0.2926	
960 minute winter	MH13	7.002	MH19	8.8	0.287	0.011	0.2837	
960 minute winter	MH18	5.003	EX SW 3	12.4	2.480	0.069	0.0313	283.1
960 minute winter	MH19	5.002	MH18	12.4	1.755	0.027	0.0614	

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

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
1440 minute summer	MH9	750	93.690	0.040	2.9	0.1514	0.0000	OK
1440 minute summer	MH8	750	93.599	0.046	5.3	0.1573	0.0000	OK
1440 minute summer	MH7	750	93.508	0.027	1.6	0.0854	0.0000	OK
1440 minute summer	MH6	750	93.466	0.058	8.4	0.1789	0.0000	OK
1440 minute summer	MH5	750	93.399	0.022	1.1	0.0665	0.0000	OK
1440 minute summer	MH4	750	93.392	0.063	9.8	0.1670	0.0000	OK
1440 minute summer	MH3	750	93.316	0.018	0.7	0.0515	0.0000	OK
1440 minute summer	MH2	750	93.309	0.064	12.0	0.1969	0.0000	OK
1440 minute summer	MH1	750	93.198	0.085	13.6	0.2613	0.0000	OK
1440 minute summer	MH1.1	750	93.120	0.085	14.0	0.1625	0.0000	OK
1440 minute summer	NEW SW 1	750	91.720	0.081	14.0	0.1438	0.0000	OK
1440 minute summer	EX SW 1	750	91.327	0.077	14.0	0.0000	0.0000	OK
1440 minute summer	MH16	750	95.664	0.024	2.4	0.0747	0.0000	OK
1440 minute summer	MH14	750	95.789	0.014	0.7	0.0259	0.0000	OK
1440 minute summer	MH15	750	94.745	0.027	1.2	0.0860	0.0000	OK
1440 minute summer	MH17	750	94.733	0.036	3.6	0.1083	0.0000	OK
1440 minute summer	MH11	750	94.830	0.030	2.2	0.1076	0.0000	OK
1440 minute summer	MH12	750	94.703	0.053	4.5	0.1782	0.0000	OK
1440 minute summer	MH10	750	94.686	0.041	2.9	0.1597	0.0000	OK
1440 minute summer	MH13	750	94.621	0.043	8.6	0.1284	0.0000	OK
1440 minute summer	MH18	750	94.042	0.042	12.2	0.1267	0.0000	OK
1440 minute summer	MH19	750	94.615	0.154	12.2	0.6984	0.0000	OK
1440 minute summer	EX SW 3	750	93.307	0.040	12.2	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
1440 minute summer	MH9	1.000	MH8	2.9	0.329	0.009	0.3847	
1440 minute summer	MH8	1.001	MH6	5.3	0.454	0.012	0.4174	
1440 minute summer	MH7	2.000	MH6	1.6	0.186	0.004	0.1657	
1440 minute summer	MH6	1.002	MH4	8.4	0.573	0.019	0.2818	
1440 minute summer	MH5	3.000	MH4	1.1	0.127	0.003	0.1137	
1440 minute summer	MH4	1.003	MH2	9.8	0.622	0.022	0.3217	
1440 minute summer	MH3	4.000	MH2	0.7	0.085	0.002	0.1226	
1440 minute summer	MH2	1.004	MH1	12.0	0.598	0.025	0.5331	
1440 minute summer	MH1	1.005	MH1.1	13.6	0.726	0.106	0.3513	
1440 minute summer	MH1.1	1.006	NEW SW 1	14.0	0.789	0.099	0.1353	
1440 minute summer	NEW SW 1	EX1.000	EX SW 1	14.0	1.481	0.527	0.1657	324.9
1440 minute summer	MH16	5.000	MH17	2.4	0.930	0.013	0.0572	
1440 minute summer	MH14	6.000	MH15	0.7	0.877	0.017	0.0090	
1440 minute summer	MH15	6.001	MH17	1.2	0.212	0.004	0.0595	
1440 minute summer	MH17	5.001	MH19	3.6	0.126	0.007	1.4752	
1440 minute summer	MH11	7.000	MH12	2.2	0.265	0.005	0.2901	
1440 minute summer	MH12	7.001	MH13	4.5	0.431	0.015	0.3742	
1440 minute summer	MH10	8.000	MH13	2.9	0.339	0.009	0.2869	
1440 minute summer	MH13	7.002	MH19	8.6	0.286	0.011	0.2802	
1440 minute summer	MH18	5.003	EX SW 3	12.2	2.470	0.068	0.0310	279.9
1440 minute summer	MH19	5.002	MH18	12.2	1.748	0.026	0.0607	

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

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
1440 minute winter	MH9	750	93.685	0.035	2.2	0.1326	0.0000	OK
1440 minute winter	MH8	750	93.593	0.040	4.0	0.1387	0.0000	OK
1440 minute winter	MH7	720	93.504	0.023	1.2	0.0749	0.0000	OK
1440 minute winter	MH6	750	93.458	0.050	6.3	0.1554	0.0000	OK
1440 minute winter	MH5	690	93.396	0.019	0.8	0.0576	0.0000	OK
1440 minute winter	MH4	750	93.384	0.055	7.4	0.1454	0.0000	OK
1440 minute winter	MH3	750	93.315	0.017	0.6	0.0481	0.0000	OK
1440 minute winter	MH2	750	93.301	0.056	9.1	0.1726	0.0000	OK
1440 minute winter	MH1	750	93.187	0.074	10.3	0.2262	0.0000	OK
1440 minute winter	MH1.1	750	93.109	0.074	10.6	0.1406	0.0000	OK
1440 minute winter	NEW SW 1	750	91.708	0.069	10.6	0.1214	0.0000	OK
1440 minute winter	EX SW 1	750	91.316	0.066	10.6	0.0000	0.0000	OK
1440 minute winter	MH16	750	95.661	0.021	1.8	0.0654	0.0000	OK
1440 minute winter	MH14	690	95.787	0.012	0.5	0.0221	0.0000	OK
1440 minute winter	MH15	750	94.742	0.024	0.9	0.0755	0.0000	OK
1440 minute winter	MH17	750	94.729	0.032	2.7	0.0946	0.0000	OK
1440 minute winter	MH11	720	94.826	0.026	1.6	0.0935	0.0000	OK
1440 minute winter	MH12	780	94.696	0.046	3.3	0.1550	0.0000	OK
1440 minute winter	MH10	750	94.681	0.036	2.2	0.1401	0.0000	OK
1440 minute winter	MH13	750	94.616	0.038	6.4	0.1121	0.0000	OK
1440 minute winter	MH18	750	94.036	0.036	9.1	0.1088	0.0000	OK
1440 minute winter	MH19	750	94.593	0.132	9.1	0.5991	0.0000	OK
1440 minute winter	EX SW 3	750	93.301	0.034	9.1	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
1440 minute winter	MH9	1.000	MH8	2.2	0.303	0.007	0.3172	
1440 minute winter	MH8	1.001	MH6	4.0	0.417	0.009	0.3404	
1440 minute winter	MH7	2.000	MH6	1.2	0.174	0.003	0.1346	
1440 minute winter	MH6	1.002	MH4	6.3	0.530	0.014	0.2289	
1440 minute winter	MH5	3.000	MH4	0.8	0.119	0.002	0.0923	
1440 minute winter	MH4	1.003	MH2	7.4	0.573	0.017	0.2634	
1440 minute winter	MH3	4.000	MH2	0.6	0.086	0.001	0.1022	
1440 minute winter	MH2	1.004	MH1	9.1	0.558	0.019	0.4346	
1440 minute winter	MH1	1.005	MH1.1	10.3	0.676	0.080	0.2858	
1440 minute winter	MH1.1	1.006	NEW SW 1	10.6	0.730	0.075	0.1106	
1440 minute winter	NEW SW 1	EX1.000	EX SW 1	10.6	1.386	0.399	0.1340	365.5
1440 minute winter	MH16	5.000	MH17	1.8	0.851	0.009	0.0469	
1440 minute winter	MH14	6.000	MH15	0.5	0.791	0.012	0.0072	
1440 minute winter	MH15	6.001	MH17	0.9	0.196	0.003	0.0487	
1440 minute winter	MH17	5.001	MH19	2.7	0.117	0.005	1.1883	
1440 minute winter	MH11	7.000	MH12	1.6	0.237	0.004	0.2352	
1440 minute winter	MH12	7.001	MH13	3.3	0.391	0.011	0.3051	
1440 minute winter	MH10	8.000	MH13	2.2	0.313	0.007	0.2354	
1440 minute winter	MH13	7.002	MH19	6.4	0.265	0.008	0.2257	
1440 minute winter	MH18	5.003	EX SW 3	9.1	2.283	0.051	0.0250	316.7
1440 minute winter	MH19	5.002	MH18	9.1	1.622	0.020	0.0488	

Results for 100 year 15 minute summer. 255 minute analysis at 1 minute timestep. Mass balance: 99.96%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	MH9	13	93.943	0.293	50.5	1.1089	0.0000	OK
15 minute summer	MH8	14	93.947	0.394	92.0	1.3558	0.0000	OK
15 minute summer	MH7	14	93.954	0.473	43.0	1.5217	0.0000	OK
15 minute summer	MH6	14	93.922	0.514	137.3	1.5896	0.0000	OK
15 minute summer	MH5	15	93.956	0.579	24.9	1.7220	0.0000	OK
15 minute summer	MH4	15	93.929	0.600	131.9	1.5989	0.0000	SURCHARGED
15 minute summer	MH3	15	93.938	0.640	12.7	1.8067	0.0000	SURCHARGED
15 minute summer	MH2	15	93.933	0.688	141.0	2.1171	0.0000	SURCHARGED
15 minute summer	MH1	15	93.944	0.831	143.3	2.5500	0.0000	SURCHARGED
15 minute summer	MH1.1	15	93.947	0.912	85.4	1.7403	0.0000	SURCHARGED
15 minute summer	NEW SW 1	15	93.938	2.299	76.0	4.0616	0.0000	SURCHARGED
15 minute summer	EX SW 1	7	91.392	0.142	62.6	0.0000	0.0000	OK
15 minute summer	MH16	10	95.739	0.099	41.2	0.3101	0.0000	OK
15 minute summer	MH14	10	95.832	0.057	11.6	0.1071	0.0000	OK
15 minute summer	MH15	14	95.095	0.377	19.6	1.1912	0.0000	OK
15 minute summer	MH17	13	95.094	0.397	53.9	1.1841	0.0000	OK
15 minute summer	MH11	14	95.089	0.289	37.4	1.0400	0.0000	OK
15 minute summer	MH12	14	95.097	0.447	71.9	1.5124	0.0000	OK
15 minute summer	MH10	13	95.087	0.442	50.9	1.7234	0.0000	OK
15 minute summer	MH13	13	95.106	0.528	102.4	1.5694	0.0000	OK
15 minute summer	MH18	13	94.128	0.128	79.0	0.3824	0.0000	OK
15 minute summer	MH19	15	95.086	0.625	149.2	2.8260	0.0000	SURCHARGED
15 minute summer	EX SW 3	13	93.371	0.104	79.4	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	MH9	1.000	MH8	49.5	0.729	0.153	6.9012	
15 minute summer	MH8	1.001	MH6	88.7	0.913	0.202	8.0322	
15 minute summer	MH7	2.000	MH6	40.1	0.377	0.092	4.5448	
15 minute summer	MH6	1.002	MH4	126.1	1.033	0.286	5.1692	
15 minute summer	MH5	3.000	MH4	13.3	0.388	0.031	3.3879	
15 minute summer	MH4	1.003	MH2	104.3	1.065	0.237	5.7447	
15 minute summer	MH3	4.000	MH2	46.9	0.238	0.108	3.7536	
15 minute summer	MH2	1.004	MH1	117.6	0.871	0.242	7.4408	
15 minute summer	MH1	1.005	MH1.1	79.4	1.096	0.618	2.0678	
15 minute summer	MH1.1	1.006	NEW SW 1	76.0	1.208	0.539	0.8406	
15 minute summer	NEW SW 1	EX1.000	EX SW 1	62.6	3.556	2.357	0.3054	105.1
15 minute summer	MH16	5.000	MH17	40.8	2.089	0.215	0.4330	
15 minute summer	MH14	6.000	MH15	11.5	1.939	0.278	0.0673	
15 minute summer	MH15	6.001	MH17	20.1	0.400	0.066	2.0124	
15 minute summer	MH17	5.001	MH19	45.0	0.509	0.091	11.0144	
15 minute summer	MH11	7.000	MH12	33.6	0.597	0.074	6.0931	
15 minute summer	MH12	7.001	MH13	46.5	0.624	0.152	8.6765	
15 minute summer	MH10	8.000	MH13	39.8	0.549	0.130	8.1158	
15 minute summer	MH13	7.002	MH19	121.6	0.872	0.150	2.3025	
15 minute summer	MH18	5.003	EX SW 3	79.4	3.844	0.444	0.1296	90.3
15 minute summer	MH19	5.002	MH18	79.0	2.556	0.171	0.2705	

Results for 100 year 15 minute winter. 255 minute analysis at 1 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	MH9	15	94.076	0.426	66.4	1.6135	0.0000	OK
15 minute winter	MH8	15	94.075	0.522	94.9	1.7961	0.0000	OK
15 minute winter	MH7	15	94.059	0.578	41.2	1.8600	0.0000	OK
15 minute winter	MH6	16	94.076	0.668	140.1	2.0673	0.0000	SURCHARGED
15 minute winter	MH5	16	94.051	0.674	32.5	2.0023	0.0000	SURCHARGED
15 minute winter	MH4	16	94.059	0.730	130.7	1.9452	0.0000	SURCHARGED
15 minute winter	MH3	14	94.074	0.776	44.9	2.1914	0.0000	SURCHARGED
15 minute winter	MH2	14	94.077	0.832	143.8	2.5589	0.0000	SURCHARGED
15 minute winter	MH1	14	94.092	0.979	118.2	3.0043	0.0000	SURCHARGED
15 minute winter	MH1.1	14	94.071	1.036	105.3	1.9772	0.0000	SURCHARGED
15 minute winter	NEW SW 1	14	94.049	2.410	86.4	4.2592	0.0000	SURCHARGED
15 minute winter	EX SW 1	7	91.392	0.142	63.8	0.0000	0.0000	OK
15 minute winter	MH16	10	95.742	0.102	43.3	0.3184	0.0000	OK
15 minute winter	MH14	10	95.834	0.059	12.2	0.1101	0.0000	OK
15 minute winter	MH15	15	95.165	0.447	20.6	1.4136	0.0000	OK
15 minute winter	MH17	15	95.167	0.470	68.4	1.4042	0.0000	OK
15 minute winter	MH11	14	95.178	0.378	39.3	1.3628	0.0000	OK
15 minute winter	MH12	14	95.163	0.513	74.3	1.7381	0.0000	OK
15 minute winter	MH10	14	95.171	0.526	53.5	2.0521	0.0000	OK
15 minute winter	MH13	14	95.164	0.586	124.1	1.7419	0.0000	OK
15 minute winter	MH18	14	94.129	0.129	79.9	0.3842	0.0000	OK
15 minute winter	MH19	15	95.163	0.702	146.6	3.1749	0.0000	SURCHARGED
15 minute winter	EX SW 3	14	93.372	0.105	79.8	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute winter	MH9	1.000	MH8	53.4	0.730	0.166	10.3363	
15 minute winter	MH8	1.001	MH6	92.3	0.897	0.210	9.6069	
15 minute winter	MH7	2.000	MH6	22.6	0.384	0.052	5.1405	
15 minute winter	MH6	1.002	MH4	110.0	1.043	0.250	5.4121	
15 minute winter	MH5	3.000	MH4	31.1	0.406	0.072	3.4066	
15 minute winter	MH4	1.003	MH2	117.9	1.018	0.268	5.7468	
15 minute winter	MH3	4.000	MH2	-32.3	-0.256	-0.074	3.7536	
15 minute winter	MH2	1.004	MH1	96.1	0.897	0.198	7.4408	
15 minute winter	MH1	1.005	MH1.1	99.0	1.137	0.770	2.0678	
15 minute winter	MH1.1	1.006	NEW SW 1	86.4	1.139	0.613	0.8406	
15 minute winter	NEW SW 1	EX1.000	EX SW 1	63.8	3.625	2.403	0.3054	118.2
15 minute winter	MH16	5.000	MH17	42.8	2.114	0.225	0.5546	
15 minute winter	MH14	6.000	MH15	12.1	1.962	0.291	0.0697	
15 minute winter	MH15	6.001	MH17	27.0	0.376	0.088	2.4325	
15 minute winter	MH17	5.001	MH19	38.7	0.525	0.079	11.9260	
15 minute winter	MH11	7.000	MH12	35.0	0.576	0.077	7.5320	
15 minute winter	MH12	7.001	MH13	46.4	0.670	0.152	9.6189	
15 minute winter	MH10	8.000	MH13	46.0	0.595	0.150	9.0669	
15 minute winter	MH13	7.002	MH19	107.9	0.893	0.133	2.3772	
15 minute winter	MH18	5.003	EX SW 3	79.8	3.845	0.446	0.1302	101.2
15 minute winter	MH19	5.002	MH18	79.9	2.550	0.173	0.2730	

Results for 100 year 30 minute summer. 270 minute analysis at 1 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
30 minute summer	MH9	23	94.019	0.369	56.0	1.3978	0.0000	OK
30 minute summer	MH8	23	94.004	0.451	85.5	1.5519	0.0000	OK
30 minute summer	MH7	24	94.005	0.524	30.5	1.6864	0.0000	OK
30 minute summer	MH6	24	94.002	0.594	122.7	1.8370	0.0000	OK
30 minute summer	MH5	24	93.999	0.622	24.2	1.8486	0.0000	SURCHARGED
30 minute summer	MH4	24	94.009	0.680	111.2	1.8107	0.0000	SURCHARGED
30 minute summer	MH3	22	93.999	0.701	28.4	1.9796	0.0000	SURCHARGED
30 minute summer	MH2	22	94.015	0.770	119.3	2.3694	0.0000	SURCHARGED
30 minute summer	MH1	22	94.010	0.897	101.0	2.7551	0.0000	SURCHARGED
30 minute summer	MH1.1	22	94.008	0.973	86.5	1.8577	0.0000	SURCHARGED
30 minute summer	NEW SW 1	22	93.995	2.356	67.4	4.1626	0.0000	SURCHARGED
30 minute summer	EX SW 1	10	91.392	0.142	63.3	0.0000	0.0000	OK
30 minute summer	MH16	18	95.735	0.095	38.0	0.2976	0.0000	OK
30 minute summer	MH14	18	95.830	0.055	10.7	0.1027	0.0000	OK
30 minute summer	MH15	23	95.115	0.397	22.0	1.2530	0.0000	OK
30 minute summer	MH17	22	95.125	0.428	58.3	1.2777	0.0000	OK
30 minute summer	MH11	22	95.129	0.329	34.5	1.1842	0.0000	OK
30 minute summer	MH12	22	95.127	0.477	63.7	1.6145	0.0000	OK
30 minute summer	MH10	22	95.122	0.477	46.9	1.8600	0.0000	OK
30 minute summer	MH13	22	95.133	0.555	108.0	1.6517	0.0000	OK
30 minute summer	MH18	21	94.128	0.128	79.8	0.3834	0.0000	OK
30 minute summer	MH19	21	95.131	0.670	189.4	3.0297	0.0000	SURCHARGED
30 minute summer	EX SW 3	22	93.371	0.104	79.6	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
30 minute summer	MH9	1.000	MH8	46.5	0.726	0.144	8.9149	
30 minute summer	MH8	1.001	MH6	84.3	0.888	0.192	9.0091	
30 minute summer	MH7	2.000	MH6	21.4	0.328	0.049	4.9773	
30 minute summer	MH6	1.002	MH4	105.9	1.006	0.241	5.4081	
30 minute summer	MH5	3.000	MH4	13.2	0.346	0.030	3.4066	
30 minute summer	MH4	1.003	MH2	97.3	0.992	0.221	5.7468	
30 minute summer	MH3	4.000	MH2	18.2	0.271	0.042	3.7536	
30 minute summer	MH2	1.004	MH1	82.9	0.873	0.171	7.4408	
30 minute summer	MH1	1.005	MH1.1	81.3	1.055	0.633	2.0678	
30 minute summer	MH1.1	1.006	NEW SW 1	67.4	1.174	0.478	0.8406	
30 minute summer	NEW SW 1	EX1.000	EX SW 1	63.3	3.594	2.382	0.3054	142.1
30 minute summer	MH16	5.000	MH17	38.0	2.054	0.200	0.4232	
30 minute summer	MH14	6.000	MH15	10.7	1.905	0.258	0.0637	
30 minute summer	MH15	6.001	MH17	20.3	0.349	0.067	2.1675	
30 minute summer	MH17	5.001	MH19	42.7	0.468	0.087	11.4213	
30 minute summer	MH11	7.000	MH12	29.2	0.502	0.064	6.7567	
30 minute summer	MH12	7.001	MH13	51.9	0.551	0.170	9.1864	
30 minute summer	MH10	8.000	MH13	37.3	0.449	0.122	8.5764	
30 minute summer	MH13	7.002	MH19	146.7	0.818	0.181	2.3452	
30 minute summer	MH18	5.003	EX SW 3	79.6	3.845	0.445	0.1298	121.5
30 minute summer	MH19	5.002	MH18	79.8	2.546	0.173	0.2727	

Results for 100 year 30 minute winter. 270 minute analysis at 1 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
30 minute winter	MH9	24	94.174	0.524	42.1	1.9848	0.0000	OK
30 minute winter	MH8	25	94.171	0.618	77.6	2.1288	0.0000	SURCHARGED
30 minute winter	MH7	25	94.177	0.696	26.7	2.2382	0.0000	SURCHARGED
30 minute winter	MH6	25	94.176	0.768	104.8	2.3763	0.0000	SURCHARGED
30 minute winter	MH5	25	94.175	0.798	16.1	2.3709	0.0000	SURCHARGED
30 minute winter	MH4	25	94.172	0.843	105.5	2.2455	0.0000	SURCHARGED
30 minute winter	MH3	25	94.180	0.882	24.2	2.4905	0.0000	SURCHARGED
30 minute winter	MH2	25	94.173	0.928	102.5	2.8552	0.0000	SURCHARGED
30 minute winter	MH1	25	94.175	1.062	103.8	3.2596	0.0000	SURCHARGED
30 minute winter	MH1.1	25	94.143	1.108	78.3	2.1149	0.0000	SURCHARGED
30 minute winter	NEW SW 1	25	94.125	2.486	68.6	4.3930	0.0000	SURCHARGED
30 minute winter	EX SW 1	9	91.392	0.142	64.8	0.0000	0.0000	OK
30 minute winter	MH16	18	95.730	0.090	34.4	0.2819	0.0000	OK
30 minute winter	MH14	18	95.827	0.052	9.6	0.0967	0.0000	OK
30 minute winter	MH15	23	95.175	0.457	16.3	1.4442	0.0000	OK
30 minute winter	MH17	24	95.176	0.479	60.1	1.4292	0.0000	OK
30 minute winter	MH11	23	95.184	0.384	31.2	1.3828	0.0000	OK
30 minute winter	MH12	23	95.178	0.528	56.9	1.7894	0.0000	OK
30 minute winter	MH10	24	95.175	0.530	42.4	2.0700	0.0000	OK
30 minute winter	MH13	22	95.172	0.594	130.6	1.7668	0.0000	OK
30 minute winter	MH18	22	94.129	0.129	79.9	0.3842	0.0000	OK
30 minute winter	MH19	23	95.181	0.720	174.8	3.2558	0.0000	SURCHARGED
30 minute winter	EX SW 3	22	93.372	0.105	79.8	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
30 minute winter	MH9	1.000	MH8	43.2	0.710	0.134	11.8340	
30 minute winter	MH8	1.001	MH6	74.0	0.853	0.169	9.9902	
30 minute winter	MH7	2.000	MH6	18.4	0.329	0.042	5.1702	
30 minute winter	MH6	1.002	MH4	89.9	0.976	0.204	5.4121	
30 minute winter	MH5	3.000	MH4	11.0	0.351	0.025	3.4066	
30 minute winter	MH4	1.003	MH2	84.0	1.013	0.191	5.7468	
30 minute winter	MH3	4.000	MH2	-14.2	0.206	-0.033	3.7536	
30 minute winter	MH2	1.004	MH1	87.5	0.866	0.180	7.4408	
30 minute winter	MH1	1.005	MH1.1	74.5	1.034	0.580	2.0678	
30 minute winter	MH1.1	1.006	NEW SW 1	68.6	1.151	0.486	0.8406	
30 minute winter	NEW SW 1	EX1.000	EX SW 1	64.8	3.682	2.441	0.3054	159.1
30 minute winter	MH16	5.000	MH17	34.4	2.000	0.181	0.5842	
30 minute winter	MH14	6.000	MH15	9.6	1.851	0.232	0.0588	
30 minute winter	MH15	6.001	MH17	25.7	0.330	0.084	2.4722	
30 minute winter	MH17	5.001	MH19	36.5	0.480	0.074	12.0194	
30 minute winter	MH11	7.000	MH12	25.6	0.476	0.056	7.6908	
30 minute winter	MH12	7.001	MH13	45.1	0.582	0.147	9.7495	
30 minute winter	MH10	8.000	MH13	38.8	0.476	0.127	9.1126	
30 minute winter	MH13	7.002	MH19	145.2	0.853	0.179	2.3828	
30 minute winter	MH18	5.003	EX SW 3	79.8	3.845	0.446	0.1302	135.7
30 minute winter	MH19	5.002	MH18	79.9	2.547	0.173	0.2732	

Results for 100 year 60 minute summer. 300 minute analysis at 1 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute summer	MH9	39	93.957	0.307	35.6	1.1620	0.0000	OK
60 minute summer	MH8	41	93.952	0.399	64.8	1.3725	0.0000	OK
60 minute summer	MH7	40	93.958	0.477	19.8	1.5336	0.0000	OK
60 minute summer	MH6	40	93.952	0.544	95.5	1.6830	0.0000	OK
60 minute summer	MH5	40	93.954	0.577	13.6	1.7143	0.0000	OK
60 minute summer	MH4	40	93.950	0.621	88.6	1.6533	0.0000	SURCHARGED
60 minute summer	MH3	40	93.949	0.651	24.5	1.8378	0.0000	SURCHARGED
60 minute summer	MH2	39	93.946	0.701	92.7	2.1548	0.0000	SURCHARGED
60 minute summer	MH1	40	93.943	0.830	94.2	2.5470	0.0000	SURCHARGED
60 minute summer	MH1.1	39	93.922	0.887	74.9	1.6925	0.0000	SURCHARGED
60 minute summer	NEW SW 1	39	93.907	2.268	65.1	4.0074	0.0000	SURCHARGED
60 minute summer	EX SW 1	22	91.392	0.142	62.2	0.0000	0.0000	OK
60 minute summer	MH16	33	95.722	0.082	29.1	0.2576	0.0000	OK
60 minute summer	MH14	33	95.822	0.047	8.2	0.0887	0.0000	OK
60 minute summer	MH15	38	95.059	0.341	16.4	1.0777	0.0000	OK
60 minute summer	MH17	38	95.061	0.364	43.0	1.0855	0.0000	OK
60 minute summer	MH11	37	95.062	0.262	26.4	0.9432	0.0000	OK
60 minute summer	MH12	39	95.059	0.409	50.6	1.3863	0.0000	OK
60 minute summer	MH10	38	95.062	0.417	35.9	1.6280	0.0000	OK
60 minute summer	MH13	38	95.071	0.493	115.5	1.4676	0.0000	OK
60 minute summer	MH18	38	94.127	0.127	78.4	0.3798	0.0000	OK
60 minute summer	MH19	38	95.043	0.582	166.6	2.6334	0.0000	SURCHARGED
60 minute summer	EX SW 3	38	93.371	0.104	78.7	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
60 minute summer	MH9	1.000	MH8	35.7	0.689	0.111	7.3508	
60 minute summer	MH8	1.001	MH6	63.1	0.834	0.144	8.2568	
60 minute summer	MH7	2.000	MH6	17.4	0.309	0.040	4.6682	
60 minute summer	MH6	1.002	MH4	81.0	0.954	0.184	5.2865	
60 minute summer	MH5	3.000	MH4	16.8	0.299	0.039	3.3854	
60 minute summer	MH4	1.003	MH2	77.0	1.002	0.175	5.7468	
60 minute summer	MH3	4.000	MH2	-16.9	0.241	-0.039	3.7536	
60 minute summer	MH2	1.004	MH1	80.3	0.862	0.165	7.4408	
60 minute summer	MH1	1.005	MH1.1	71.5	1.040	0.556	2.0678	
60 minute summer	MH1.1	1.006	NEW SW 1	65.1	1.161	0.461	0.8406	
60 minute summer	NEW SW 1	EX1.000	EX SW 1	62.2	3.532	2.341	0.3055	182.4
60 minute summer	MH16	5.000	MH17	29.1	1.913	0.153	0.3373	
60 minute summer	MH14	6.000	MH15	8.2	1.776	0.198	0.0524	
60 minute summer	MH15	6.001	MH17	13.9	0.319	0.046	1.8094	
60 minute summer	MH17	5.001	MH19	34.4	0.414	0.070	10.5293	
60 minute summer	MH11	7.000	MH12	24.0	0.445	0.053	5.4559	
60 minute summer	MH12	7.001	MH13	39.4	0.478	0.129	8.1058	
60 minute summer	MH10	8.000	MH13	35.9	0.385	0.117	7.6512	
60 minute summer	MH13	7.002	MH19	132.2	0.778	0.163	2.2321	
60 minute summer	MH18	5.003	EX SW 3	78.7	3.838	0.440	0.1286	156.4
60 minute summer	MH19	5.002	MH18	78.4	2.558	0.169	0.2688	

Results for 100 year 60 minute winter. 300 minute analysis at 1 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute winter	MH9	44	94.008	0.358	28.8	1.3551	0.0000	OK
60 minute winter	MH8	42	94.005	0.452	52.5	1.5580	0.0000	OK
60 minute winter	MH7	43	94.005	0.524	16.1	1.6853	0.0000	OK
60 minute winter	MH6	43	94.008	0.600	79.4	1.8547	0.0000	OK
60 minute winter	MH5	43	94.004	0.627	11.0	1.8620	0.0000	SURCHARGED
60 minute winter	MH4	43	94.007	0.678	71.8	1.8057	0.0000	SURCHARGED
60 minute winter	MH3	43	94.006	0.708	12.5	1.9977	0.0000	SURCHARGED
60 minute winter	MH2	43	94.006	0.761	85.2	2.3422	0.0000	SURCHARGED
60 minute winter	MH1	43	94.004	0.891	88.4	2.7355	0.0000	SURCHARGED
60 minute winter	MH1.1	43	93.981	0.946	69.3	1.8052	0.0000	SURCHARGED
60 minute winter	NEW SW 1	43	93.965	2.326	63.9	4.1105	0.0000	SURCHARGED
60 minute winter	EX SW 1	19	91.392	0.142	62.9	0.0000	0.0000	OK
60 minute winter	MH16	33	95.714	0.074	23.5	0.2302	0.0000	OK
60 minute winter	MH14	33	95.817	0.042	6.6	0.0790	0.0000	OK
60 minute winter	MH15	40	95.046	0.328	11.2	1.0358	0.0000	OK
60 minute winter	MH17	40	95.042	0.345	42.0	1.0301	0.0000	OK
60 minute winter	MH11	40	95.044	0.244	21.3	0.8807	0.0000	OK
60 minute winter	MH12	40	95.044	0.394	41.2	1.3345	0.0000	OK
60 minute winter	MH10	40	95.045	0.400	29.0	1.5612	0.0000	OK
60 minute winter	MH13	37	95.037	0.459	110.3	1.3636	0.0000	OK
60 minute winter	MH18	38	94.127	0.127	78.8	0.3802	0.0000	OK
60 minute winter	MH19	40	95.057	0.596	158.5	2.6971	0.0000	SURCHARGED
60 minute winter	EX SW 3	38	93.371	0.104	78.6	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
60 minute winter	MH9	1.000	MH8	29.0	0.649	0.090	8.7795	
60 minute winter	MH8	1.001	MH6	49.7	0.793	0.113	9.0328	
60 minute winter	MH7	2.000	MH6	17.9	0.300	0.041	4.9779	
60 minute winter	MH6	1.002	MH4	67.2	0.914	0.153	5.4100	
60 minute winter	MH5	3.000	MH4	12.6	0.296	0.029	3.4066	
60 minute winter	MH4	1.003	MH2	66.4	0.978	0.151	5.7468	
60 minute winter	MH3	4.000	MH2	8.0	0.211	0.018	3.7536	
60 minute winter	MH2	1.004	MH1	75.5	0.852	0.155	7.4408	
60 minute winter	MH1	1.005	MH1.1	66.5	1.036	0.517	2.0678	
60 minute winter	MH1.1	1.006	NEW SW 1	63.9	1.160	0.453	0.8406	
60 minute winter	NEW SW 1	EX1.000	EX SW 1	62.9	3.573	2.368	0.3054	204.0
60 minute winter	MH16	5.000	MH17	23.5	1.805	0.124	0.2887	
60 minute winter	MH14	6.000	MH15	6.6	1.676	0.159	0.0447	
60 minute winter	MH15	6.001	MH17	18.8	0.313	0.062	1.7106	
60 minute winter	MH17	5.001	MH19	32.2	0.406	0.065	10.3247	
60 minute winter	MH11	7.000	MH12	18.6	0.422	0.041	5.1594	
60 minute winter	MH12	7.001	MH13	39.3	0.510	0.128	7.6386	
60 minute winter	MH10	8.000	MH13	30.5	0.413	0.100	7.1885	
60 minute winter	MH13	7.002	MH19	126.5	0.780	0.156	2.1642	
60 minute winter	MH18	5.003	EX SW 3	78.6	3.835	0.439	0.1286	175.8
60 minute winter	MH19	5.002	MH18	78.8	2.542	0.170	0.2698	

Results for 100 year 120 minute summer. 360 minute analysis at 2 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
120 minute summer	MH9	74	93.780	0.130	23.5	0.4907	0.0000	OK
120 minute summer	MH8	72	93.782	0.229	42.7	0.7878	0.0000	OK
120 minute summer	MH7	72	93.779	0.298	13.1	0.9579	0.0000	OK
120 minute summer	MH6	74	93.779	0.371	64.4	1.1471	0.0000	OK
120 minute summer	MH5	72	93.777	0.400	9.0	1.1895	0.0000	OK
120 minute summer	MH4	74	93.777	0.448	66.9	1.1924	0.0000	OK
120 minute summer	MH3	74	93.776	0.478	8.6	1.3495	0.0000	OK
120 minute summer	MH2	74	93.776	0.531	74.8	1.6324	0.0000	OK
120 minute summer	MH1	74	93.774	0.661	77.8	2.0300	0.0000	SURCHARGED
120 minute summer	MH1.1	74	93.751	0.716	64.1	1.3668	0.0000	SURCHARGED
120 minute summer	NEW SW 1	74	93.736	2.097	60.4	3.7061	0.0000	SURCHARGED
120 minute summer	EX SW 1	48	91.392	0.142	60.0	0.0000	0.0000	OK
120 minute summer	MH16	64	95.706	0.066	19.2	0.2071	0.0000	OK
120 minute summer	MH14	64	95.813	0.038	5.4	0.0711	0.0000	OK
120 minute summer	MH15	68	94.934	0.216	9.2	0.6833	0.0000	OK
120 minute summer	MH17	68	94.924	0.227	32.5	0.6775	0.0000	OK
120 minute summer	MH11	68	94.931	0.131	17.4	0.4733	0.0000	OK
120 minute summer	MH12	68	94.933	0.283	35.6	0.9593	0.0000	OK
120 minute summer	MH10	68	94.934	0.289	23.7	1.1271	0.0000	OK
120 minute summer	MH13	68	94.911	0.333	98.3	0.9913	0.0000	OK
120 minute summer	MH18	66	94.124	0.124	76.4	0.3716	0.0000	OK
120 minute summer	MH19	68	94.953	0.492	128.8	2.2265	0.0000	SURCHARGED
120 minute summer	EX SW 3	66	93.369	0.102	75.9	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
120 minute summer	MH9	1.000	MH8	23.5	0.619	0.073	3.1153	
120 minute summer	MH8	1.001	MH6	42.7	0.762	0.097	4.9848	
120 minute summer	MH7	2.000	MH6	11.5	0.290	0.027	2.9534	
120 minute summer	MH6	1.002	MH4	57.4	0.891	0.130	3.9230	
120 minute summer	MH5	3.000	MH4	8.2	0.242	0.019	2.5710	
120 minute summer	MH4	1.003	MH2	61.4	0.975	0.139	4.9900	
120 minute summer	MH3	4.000	MH2	4.5	0.221	0.010	3.3611	
120 minute summer	MH2	1.004	MH1	66.3	0.842	0.136	7.2031	
120 minute summer	MH1	1.005	MH1.1	61.4	1.006	0.478	2.0678	
120 minute summer	MH1.1	1.006	NEW SW 1	60.4	1.124	0.428	0.8406	
120 minute summer	NEW SW 1	EX1.000	EX SW 1	60.0	3.411	2.261	0.3056	226.0
120 minute summer	MH16	5.000	MH17	19.2	1.708	0.101	0.2492	
120 minute summer	MH14	6.000	MH15	5.4	1.586	0.130	0.0386	
120 minute summer	MH15	6.001	MH17	13.3	0.292	0.044	0.9942	
120 minute summer	MH17	5.001	MH19	24.7	0.372	0.050	7.9315	
120 minute summer	MH11	7.000	MH12	17.1	0.409	0.037	2.9933	
120 minute summer	MH12	7.001	MH13	31.9	0.474	0.104	5.2269	
120 minute summer	MH10	8.000	MH13	29.0	0.384	0.095	4.9356	
120 minute summer	MH13	7.002	MH19	107.5	0.810	0.133	1.7276	
120 minute summer	MH18	5.003	EX SW 3	75.9	3.810	0.424	0.1251	190.6
120 minute summer	MH19	5.002	MH18	76.4	2.539	0.165	0.2619	

Results for 100 year 120 minute winter. 360 minute analysis at 2 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
120 minute winter	MH9	64	93.744	0.094	18.1	0.3573	0.0000	OK
120 minute winter	MH8	76	93.730	0.177	32.9	0.6091	0.0000	OK
120 minute winter	MH7	76	93.728	0.247	10.1	0.7960	0.0000	OK
120 minute winter	MH6	76	93.728	0.320	50.6	0.9907	0.0000	OK
120 minute winter	MH5	76	93.727	0.350	6.9	1.0387	0.0000	OK
120 minute winter	MH4	76	93.727	0.398	55.2	1.0598	0.0000	OK
120 minute winter	MH3	76	93.726	0.428	6.8	1.2069	0.0000	OK
120 minute winter	MH2	76	93.725	0.480	62.4	1.4776	0.0000	OK
120 minute winter	MH1	76	93.724	0.611	66.6	1.8752	0.0000	SURCHARGED
120 minute winter	MH1.1	76	93.701	0.666	60.2	1.2708	0.0000	SURCHARGED
120 minute winter	NEW SW 1	76	93.686	2.047	59.5	3.6177	0.0000	SURCHARGED
120 minute winter	EX SW 1	42	91.392	0.142	59.4	0.0000	0.0000	OK
120 minute winter	MH16	64	95.698	0.058	14.8	0.1813	0.0000	OK
120 minute winter	MH14	64	95.808	0.033	4.2	0.0624	0.0000	OK
120 minute winter	MH15	68	94.882	0.164	7.1	0.5194	0.0000	OK
120 minute winter	MH17	70	94.885	0.188	22.9	0.5618	0.0000	OK
120 minute winter	MH11	70	94.885	0.085	13.4	0.3060	0.0000	OK
120 minute winter	MH12	70	94.884	0.234	27.6	0.7910	0.0000	OK
120 minute winter	MH10	72	94.882	0.237	18.3	0.9265	0.0000	OK
120 minute winter	MH13	70	94.899	0.321	75.4	0.9546	0.0000	OK
120 minute winter	MH18	66	94.119	0.119	72.5	0.3550	0.0000	OK
120 minute winter	MH19	66	94.902	0.441	136.1	1.9930	0.0000	SURCHARGED
120 minute winter	EX SW 3	72	93.365	0.098	70.8	0.0000	0.0000	OK
Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
120 minute winter	MH9	1.000	MH8	18.1	0.575	0.056	2.0256	
120 minute winter	MH8	1.001	MH6	32.9	0.729	0.075	3.9417	
120 minute winter	MH7	2.000	MH6	9.7	0.282	0.022	2.4094	
120 minute winter	MH6	1.002	MH4	49.3	0.865	0.112	3.3752	
120 minute winter	MH5	3.000	MH4	6.2	0.245	0.014	2.2293	
120 minute winter	MH4	1.003	MH2	53.6	0.948	0.122	4.4903	
120 minute winter	MH3	4.000	MH2	4.8	0.176	0.011	3.0428	
120 minute winter	MH2	1.004	MH1	58.6	0.831	0.121	6.9148	
120 minute winter	MH1	1.005	MH1.1	57.9	1.007	0.450	2.0678	
120 minute winter	MH1.1	1.006	NEW SW 1	59.5	1.129	0.422	0.8406	
120 minute winter	NEW SW 1	EX1.000	EX SW 1	59.4	3.374	2.236	0.3054	252.5
120 minute winter	MH16	5.000	MH17	14.8	1.587	0.078	0.2068	
120 minute winter	MH14	6.000	MH15	4.2	1.480	0.101	0.0322	
120 minute winter	MH15	6.001	MH17	8.3	0.292	0.027	0.7190	
120 minute winter	MH17	5.001	MH19	25.7	0.292	0.052	6.6889	
120 minute winter	MH11	7.000	MH12	13.3	0.395	0.029	2.1335	
120 minute winter	MH12	7.001	MH13	29.5	0.475	0.097	4.5682	
120 minute winter	MH10	8.000	MH13	22.4	0.383	0.073	4.2896	
120 minute winter	MH13	7.002	MH19	110.3	0.758	0.136	1.5032	
120 minute winter	MH18	5.003	EX SW 3	70.8	3.762	0.396	0.1185	218.8
120 minute winter	MH19	5.002	MH18	72.5	2.533	0.157	0.2491	

Results for 100 year 180 minute summer. 420 minute analysis at 4 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
180 minute summer	MH9	96	93.743	0.093	17.5	0.3516	0.0000	OK
180 minute summer	MH8	96	93.660	0.107	31.8	0.3688	0.0000	OK
180 minute summer	MH7	104	93.639	0.158	9.8	0.5079	0.0000	OK
180 minute summer	MH6	104	93.639	0.231	49.3	0.7133	0.0000	OK
180 minute summer	MH5	104	93.638	0.261	6.7	0.7744	0.0000	OK
180 minute summer	MH4	104	93.638	0.309	55.8	0.8222	0.0000	OK
180 minute summer	MH3	104	93.636	0.338	4.4	0.9529	0.0000	OK
180 minute summer	MH2	104	93.636	0.391	65.2	1.2031	0.0000	OK
180 minute summer	MH1	104	93.635	0.522	67.9	1.6016	0.0000	SURCHARGED
180 minute summer	MH1.1	104	93.613	0.578	61.9	1.1029	0.0000	SURCHARGED
180 minute summer	NEW SW 1	104	93.599	1.960	58.8	3.4634	0.0000	SURCHARGED
180 minute summer	EX SW 1	76	91.392	0.142	58.2	0.0000	0.0000	OK
180 minute summer	MH16	96	95.697	0.057	14.3	0.1781	0.0000	OK
180 minute summer	MH14	96	95.807	0.032	4.0	0.0608	0.0000	OK
180 minute summer	MH15	100	94.867	0.149	6.8	0.4701	0.0000	OK
180 minute summer	MH17	100	94.860	0.163	19.0	0.4876	0.0000	OK
180 minute summer	MH11	96	94.868	0.068	13.0	0.2466	0.0000	OK
180 minute summer	MH12	100	94.865	0.215	26.8	0.7298	0.0000	OK
180 minute summer	MH10	100	94.866	0.221	17.7	0.8609	0.0000	OK
180 minute summer	MH13	96	94.849	0.271	65.3	0.8054	0.0000	OK
180 minute summer	MH18	104	94.111	0.111	67.4	0.3327	0.0000	OK
180 minute summer	MH19	100	94.887	0.426	146.7	1.9286	0.0000	SURCHARGED
180 minute summer	EX SW 3	104	93.359	0.092	63.6	0.0000	0.0000	OK
Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
180 minute summer	MH9	1.000	MH8	17.5	0.569	0.054	1.3420	
180 minute summer	MH8	1.001	MH6	31.8	0.726	0.072	2.2505	
180 minute summer	MH7	2.000	MH6	9.4	0.279	0.022	1.4573	
180 minute summer	MH6	1.002	MH4	47.7	0.870	0.108	2.3608	
180 minute summer	MH5	3.000	MH4	6.1	0.206	0.014	1.5925	
180 minute summer	MH4	1.003	MH2	54.3	0.934	0.123	3.4738	
180 minute summer	MH3	4.000	MH2	4.4	0.140	0.010	2.3838	
180 minute summer	MH2	1.004	MH1	58.5	0.817	0.120	6.0049	
180 minute summer	MH1	1.005	MH1.1	59.6	0.997	0.464	2.0678	
180 minute summer	MH1.1	1.006	NEW SW 1	58.8	1.116	0.417	0.8406	
180 minute summer	NEW SW 1	EX1.000	EX SW 1	58.2	3.309	2.193	0.3054	252.2
180 minute summer	MH16	5.000	MH17	14.3	1.571	0.075	0.2018	
180 minute summer	MH14	6.000	MH15	4.0	1.459	0.097	0.0311	
180 minute summer	MH15	6.001	MH17	5.8	0.288	0.019	0.6119	
180 minute summer	MH17	5.001	MH19	26.1	0.359	0.053	6.3495	
180 minute summer	MH11	7.000	MH12	13.0	0.390	0.028	1.8190	
180 minute summer	MH12	7.001	MH13	23.7	0.469	0.077	3.7831	
180 minute summer	MH10	8.000	MH13	17.5	0.378	0.057	3.5813	
180 minute summer	MH13	7.002	MH19	120.6	0.743	0.149	1.4148	
180 minute summer	MH18	5.003	EX SW 3	63.6	3.652	0.356	0.1093	213.9
180 minute summer	MH19	5.002	MH18	67.4	2.506	0.146	0.2339	

Results for 100 year 180 minute winter. 420 minute analysis at 4 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
180 minute winter	MH9	96	93.732	0.082	13.5	0.3102	0.0000	OK
180 minute winter	MH8	96	93.647	0.094	24.5	0.3247	0.0000	OK
180 minute winter	MH7	96	93.538	0.057	7.5	0.1822	0.0000	OK
180 minute winter	MH6	96	93.536	0.128	38.8	0.3956	0.0000	OK
180 minute winter	MH5	108	93.506	0.129	5.2	0.3839	0.0000	OK
180 minute winter	MH4	108	93.506	0.177	45.5	0.4721	0.0000	OK
180 minute winter	MH3	108	93.504	0.206	3.4	0.5804	0.0000	OK
180 minute winter	MH2	108	93.503	0.258	53.5	0.7945	0.0000	OK
180 minute winter	MH1	108	93.501	0.388	59.5	1.1918	0.0000	SURCHARGED
180 minute winter	MH1.1	108	93.481	0.446	58.0	0.8510	0.0000	SURCHARGED
180 minute winter	NEW SW 1	108	93.468	1.829	56.7	3.2316	0.0000	SURCHARGED
180 minute winter	EX SW 1	68	91.392	0.142	56.5	0.0000	0.0000	OK
180 minute winter	MH16	96	95.690	0.050	11.0	0.1561	0.0000	OK
180 minute winter	MH14	96	95.804	0.028	3.1	0.0535	0.0000	OK
180 minute winter	MH15	100	94.819	0.101	5.3	0.3199	0.0000	OK
180 minute winter	MH17	104	94.818	0.121	17.6	0.3599	0.0000	OK
180 minute winter	MH11	96	94.860	0.060	10.0	0.2176	0.0000	OK
180 minute winter	MH12	100	94.817	0.167	20.6	0.5665	0.0000	OK
180 minute winter	MH10	100	94.816	0.171	13.6	0.6682	0.0000	OK
180 minute winter	MH13	104	94.837	0.259	88.5	0.7697	0.0000	OK
180 minute winter	MH18	96	94.104	0.104	58.8	0.3119	0.0000	OK
180 minute winter	MH19	108	94.838	0.377	122.7	1.7053	0.0000	SURCHARGED
180 minute winter	EX SW 3	96	93.356	0.089	59.4	0.0000	0.0000	OK
Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
180 minute winter	MH9	1.000	MH8	13.5	0.527	0.042	1.1177	
180 minute winter	MH8	1.001	MH6	24.5	0.684	0.056	1.2782	
180 minute winter	MH7	2.000	MH6	7.5	0.278	0.017	0.5250	
180 minute winter	MH6	1.002	MH4	38.8	0.836	0.088	1.0511	
180 minute winter	MH5	3.000	MH4	5.2	0.238	0.012	0.6889	
180 minute winter	MH4	1.003	MH2	45.2	0.930	0.103	1.8918	
180 minute winter	MH3	4.000	MH2	3.9	0.120	0.009	1.3413	
180 minute winter	MH2	1.004	MH1	52.6	0.822	0.108	4.0790	
180 minute winter	MH1	1.005	MH1.1	56.0	0.987	0.436	2.0678	
180 minute winter	MH1.1	1.006	NEW SW 1	56.7	1.105	0.402	0.8406	
180 minute winter	NEW SW 1	EX1.000	EX SW 1	56.5	3.209	2.127	0.3054	282.8
180 minute winter	MH16	5.000	MH17	11.0	1.458	0.058	0.1673	
180 minute winter	MH14	6.000	MH15	3.1	1.357	0.075	0.0259	
180 minute winter	MH15	6.001	MH17	6.6	0.287	0.022	0.3701	
180 minute winter	MH17	5.001	MH19	22.0	0.292	0.045	5.1695	
180 minute winter	MH11	7.000	MH12	10.0	0.376	0.022	1.3315	
180 minute winter	MH12	7.001	MH13	25.0	0.473	0.082	3.1811	
180 minute winter	MH10	8.000	MH13	19.3	0.383	0.063	2.9792	
180 minute winter	MH13	7.002	MH19	101.8	0.790	0.126	1.1832	
180 minute winter	MH18	5.003	EX SW 3	59.4	3.646	0.332	0.1021	244.0
180 minute winter	MH19	5.002	MH18	58.8	2.462	0.127	0.2076	

Results for 100 year 240 minute summer. 480 minute analysis at 4 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
240 minute summer	MH9	124	93.735	0.085	14.8	0.3226	0.0000	OK
240 minute summer	MH8	124	93.651	0.098	26.7	0.3371	0.0000	OK
240 minute summer	MH7	124	93.542	0.061	8.2	0.1975	0.0000	OK
240 minute summer	MH6	124	93.541	0.133	41.9	0.4108	0.0000	OK
240 minute summer	MH5	132	93.512	0.135	5.6	0.4022	0.0000	OK
240 minute summer	MH4	132	93.513	0.184	48.6	0.4905	0.0000	OK
240 minute summer	MH3	132	93.512	0.214	3.7	0.6047	0.0000	OK
240 minute summer	MH2	132	93.511	0.266	56.7	0.8185	0.0000	OK
240 minute summer	MH1	132	93.508	0.395	61.3	1.2134	0.0000	SURCHARGED
240 minute summer	MH1.1	132	93.486	0.451	60.2	0.8618	0.0000	SURCHARGED
240 minute summer	NEW SW 1	132	93.473	1.834	57.2	3.2409	0.0000	SURCHARGED
240 minute summer	EX SW 1	104	91.392	0.142	56.6	0.0000	0.0000	OK
240 minute summer	MH16	124	95.692	0.052	12.1	0.1635	0.0000	OK
240 minute summer	MH14	124	95.805	0.030	3.4	0.0559	0.0000	OK
240 minute summer	MH15	128	94.822	0.104	5.8	0.3284	0.0000	OK
240 minute summer	MH17	128	94.824	0.127	17.8	0.3800	0.0000	OK
240 minute summer	MH11	124	94.863	0.063	10.9	0.2260	0.0000	OK
240 minute summer	MH12	128	94.821	0.171	22.4	0.5782	0.0000	OK
240 minute summer	MH10	128	94.818	0.173	14.9	0.6738	0.0000	OK
240 minute summer	MH13	132	94.834	0.256	62.1	0.7610	0.0000	OK
240 minute summer	MH18	124	94.104	0.104	59.9	0.3106	0.0000	OK
240 minute summer	MH19	124	94.841	0.380	125.6	1.7197	0.0000	SURCHARGED
240 minute summer	EX SW 3	124	93.354	0.087	57.1	0.0000	0.0000	OK
Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
240 minute summer	MH9	1.000	MH8	14.6	0.542	0.045	1.1822	
240 minute summer	MH8	1.001	MH6	26.5	0.700	0.060	1.3490	
240 minute summer	MH7	2.000	MH6	8.1	0.278	0.019	0.5625	
240 minute summer	MH6	1.002	MH4	41.5	0.849	0.094	1.1043	
240 minute summer	MH5	3.000	MH4	5.4	0.220	0.012	0.7302	
240 minute summer	MH4	1.003	MH2	48.0	0.926	0.109	1.9777	
240 minute summer	MH3	4.000	MH2	4.5	0.135	0.010	1.4049	
240 minute summer	MH2	1.004	MH1	53.9	0.817	0.111	4.1934	
240 minute summer	MH1	1.005	MH1.1	58.1	1.000	0.452	2.0678	
240 minute summer	MH1.1	1.006	NEW SW 1	57.2	1.121	0.405	0.8406	
240 minute summer	NEW SW 1	EX1.000	EX SW 1	56.6	3.213	2.130	0.3054	271.2
240 minute summer	MH16	5.000	MH17	12.0	1.495	0.063	0.1785	
240 minute summer	MH14	6.000	MH15	3.4	1.392	0.082	0.0276	
240 minute summer	MH15	6.001	MH17	6.1	0.283	0.020	0.4001	
240 minute summer	MH17	5.001	MH19	21.7	0.325	0.044	5.1160	
240 minute summer	MH11	7.000	MH12	10.8	0.381	0.024	1.3739	
240 minute summer	MH12	7.001	MH13	24.6	0.469	0.080	3.2126	
240 minute summer	MH10	8.000	MH13	18.2	0.379	0.059	3.0171	
240 minute summer	MH13	7.002	MH19	103.9	0.738	0.128	1.1989	
240 minute summer	MH18	5.003	EX SW 3	57.1	3.634	0.319	0.1005	229.7
240 minute summer	MH19	5.002	MH18	59.9	2.469	0.130	0.2110	

Results for 100 year 240 minute winter. 480 minute analysis at 4 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
240 minute winter	MH9	124	93.724	0.074	11.0	0.2810	0.0000	OK
240 minute winter	MH8	124	93.638	0.085	20.0	0.2936	0.0000	OK
240 minute winter	MH7	124	93.530	0.049	6.1	0.1578	0.0000	OK
240 minute winter	MH6	124	93.522	0.114	31.5	0.3528	0.0000	OK
240 minute winter	MH5	124	93.452	0.075	4.2	0.2237	0.0000	OK
240 minute winter	MH4	124	93.452	0.123	36.9	0.3274	0.0000	OK
240 minute winter	MH3	124	93.369	0.071	2.8	0.1996	0.0000	OK
240 minute winter	MH2	124	93.369	0.124	45.3	0.3800	0.0000	OK
240 minute winter	MH1	128	93.294	0.181	51.1	0.5542	0.0000	OK
240 minute winter	MH1.1	128	93.221	0.186	52.7	0.3548	0.0000	OK
240 minute winter	NEW SW 1	128	93.172	1.533	52.6	2.7092	0.0000	SURCHARGED
240 minute winter	EX SW 1	164	91.392	0.142	52.3	0.0000	0.0000	OK
240 minute winter	MH16	124	95.685	0.045	9.0	0.1412	0.0000	OK
240 minute winter	MH14	124	95.801	0.026	2.5	0.0480	0.0000	OK
240 minute winter	MH15	132	94.779	0.061	4.3	0.1936	0.0000	OK
240 minute winter	MH17	128	94.780	0.083	13.6	0.2466	0.0000	OK
240 minute winter	MH11	124	94.855	0.055	8.1	0.1970	0.0000	OK
240 minute winter	MH12	132	94.775	0.125	16.7	0.4228	0.0000	OK
240 minute winter	MH10	132	94.771	0.126	11.1	0.4915	0.0000	OK
240 minute winter	MH13	128	94.798	0.220	69.2	0.6529	0.0000	OK
240 minute winter	MH18	120	94.090	0.090	47.9	0.2698	0.0000	OK
240 minute winter	MH19	140	94.795	0.334	106.7	1.5112	0.0000	OK
240 minute winter	EX SW 3	120	93.346	0.079	47.3	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
240 minute winter	MH9	1.000	MH8	11.0	0.496	0.034	0.9669	
240 minute winter	MH8	1.001	MH6	19.9	0.650	0.045	1.0929	
240 minute winter	MH7	2.000	MH6	6.1	0.266	0.014	0.4406	
240 minute winter	MH6	1.002	MH4	31.4	0.800	0.071	0.7553	
240 minute winter	MH5	3.000	MH4	4.2	0.174	0.010	0.3734	
240 minute winter	MH4	1.003	MH2	36.8	0.888	0.084	0.8480	
240 minute winter	MH3	4.000	MH2	2.8	0.110	0.006	0.4016	
240 minute winter	MH2	1.004	MH1	45.2	0.814	0.093	1.4889	
240 minute winter	MH1	1.005	MH1.1	51.0	0.998	0.396	1.0022	
240 minute winter	MH1.1	1.006	NEW SW 1	52.6	1.121	0.373	0.3999	
240 minute winter	NEW SW 1	EX1.000	EX SW 1	52.3	2.972	1.970	0.3055	303.8
240 minute winter	MH16	5.000	MH17	9.0	1.376	0.047	0.1447	
240 minute winter	MH14	6.000	MH15	2.5	1.275	0.060	0.0222	
240 minute winter	MH15	6.001	MH17	4.6	0.280	0.015	0.2010	
240 minute winter	MH17	5.001	MH19	17.7	0.224	0.036	4.1426	
240 minute winter	MH11	7.000	MH12	8.1	0.367	0.018	0.9305	
240 minute winter	MH12	7.001	MH13	20.5	0.470	0.067	2.4295	
240 minute winter	MH10	8.000	MH13	15.4	0.377	0.050	2.2672	
240 minute winter	MH13	7.002	MH19	89.0	0.782	0.110	0.9678	
240 minute winter	MH18	5.003	EX SW 3	47.3	3.477	0.264	0.0854	259.6
240 minute winter	MH19	5.002	MH18	47.9	2.378	0.103	0.1750	

Results for 100 year 360 minute summer. 600 minute analysis at 8 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
360 minute summer	MH9	184	93.724	0.074	11.1	0.2811	0.0000	OK
360 minute summer	MH8	184	93.638	0.085	20.1	0.2932	0.0000	OK
360 minute summer	MH7	184	93.530	0.049	6.2	0.1587	0.0000	OK
360 minute summer	MH6	184	93.522	0.114	31.6	0.3522	0.0000	OK
360 minute summer	MH5	184	93.452	0.075	4.3	0.2224	0.0000	OK
360 minute summer	MH4	184	93.451	0.122	36.8	0.3262	0.0000	OK
360 minute summer	MH3	184	93.368	0.070	2.8	0.1977	0.0000	OK
360 minute summer	MH2	184	93.368	0.123	45.0	0.3780	0.0000	OK
360 minute summer	MH1	184	93.290	0.177	50.6	0.5435	0.0000	OK
360 minute summer	MH1.1	184	93.208	0.173	51.9	0.3311	0.0000	OK
360 minute summer	NEW SW 1	192	93.041	1.402	51.7	2.4780	0.0000	SURCHARGED
360 minute summer	EX SW 1	216	91.392	0.142	50.4	0.0000	0.0000	OK
360 minute summer	MH16	184	95.685	0.045	9.1	0.1417	0.0000	OK
360 minute summer	MH14	184	95.801	0.026	2.6	0.0489	0.0000	OK
360 minute summer	MH15	184	94.776	0.058	4.4	0.1845	0.0000	OK
360 minute summer	MH17	184	94.769	0.072	13.2	0.2136	0.0000	OK
360 minute summer	MH11	184	94.855	0.055	8.2	0.1975	0.0000	OK
360 minute summer	MH12	192	94.770	0.120	16.9	0.4065	0.0000	OK
360 minute summer	MH10	192	94.768	0.123	11.2	0.4796	0.0000	OK
360 minute summer	MH13	184	94.745	0.167	42.8	0.4964	0.0000	OK
360 minute summer	MH18	192	94.093	0.093	49.6	0.2773	0.0000	OK
360 minute summer	MH19	192	94.795	0.334	92.6	1.5117	0.0000	OK
360 minute summer	EX SW 3	192	93.346	0.079	48.0	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
360 minute summer	MH9	1.000	MH8	11.0	0.497	0.034	0.9661	
360 minute summer	MH8	1.001	MH6	19.8	0.649	0.045	1.0906	
360 minute summer	MH7	2.000	MH6	6.2	0.269	0.014	0.4407	
360 minute summer	MH6	1.002	MH4	31.3	0.799	0.071	0.7524	
360 minute summer	MH5	3.000	MH4	4.2	0.145	0.010	0.3711	
360 minute summer	MH4	1.003	MH2	36.5	0.883	0.083	0.8426	
360 minute summer	MH3	4.000	MH2	2.7	0.097	0.006	0.3978	
360 minute summer	MH2	1.004	MH1	44.6	0.812	0.092	1.4632	
360 minute summer	MH1	1.005	MH1.1	50.2	0.994	0.390	0.9464	
360 minute summer	MH1.1	1.006	NEW SW 1	51.7	1.116	0.366	0.3528	
360 minute summer	NEW SW 1	EX1.000	EX SW 1	50.4	2.862	1.897	0.3055	298.8
360 minute summer	MH16	5.000	MH17	9.1	1.379	0.048	0.1455	
360 minute summer	MH14	6.000	MH15	2.6	1.288	0.062	0.0228	
360 minute summer	MH15	6.001	MH17	4.1	0.281	0.013	0.1730	
360 minute summer	MH17	5.001	MH19	15.3	0.191	0.031	4.1376	
360 minute summer	MH11	7.000	MH12	8.1	0.364	0.018	0.8770	
360 minute summer	MH12	7.001	MH13	15.0	0.471	0.049	1.8272	
360 minute summer	MH10	8.000	MH13	10.6	0.378	0.035	1.7191	
360 minute summer	MH13	7.002	MH19	77.3	0.725	0.095	0.9325	
360 minute summer	MH18	5.003	EX SW 3	48.0	3.444	0.268	0.0874	263.1
360 minute summer	MH19	5.002	MH18	49.6	2.391	0.107	0.1803	

Results for 100 year 360 minute winter. 600 minute analysis at 8 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
360 minute winter	MH9	184	93.714	0.064	8.1	0.2434	0.0000	OK
360 minute winter	MH8	184	93.627	0.074	14.7	0.2537	0.0000	OK
360 minute winter	MH7	184	93.524	0.043	4.5	0.1373	0.0000	OK
360 minute winter	MH6	184	93.505	0.097	23.2	0.3002	0.0000	OK
360 minute winter	MH5	184	93.434	0.057	3.1	0.1698	0.0000	OK
360 minute winter	MH4	184	93.434	0.105	27.2	0.2790	0.0000	OK
360 minute winter	MH3	184	93.350	0.052	2.0	0.1464	0.0000	OK
360 minute winter	MH2	184	93.350	0.105	33.3	0.3219	0.0000	OK
360 minute winter	MH1	184	93.262	0.149	37.6	0.4564	0.0000	OK
360 minute winter	MH1.1	184	93.182	0.147	38.7	0.2809	0.0000	OK
360 minute winter	NEW SW 1	192	92.359	0.720	38.7	1.2731	0.0000	SURCHARGED
360 minute winter	EX SW 1	152	91.392	0.142	38.6	0.0000	0.0000	OK
360 minute winter	MH16	184	95.679	0.039	6.6	0.1213	0.0000	OK
360 minute winter	MH14	184	95.797	0.022	1.9	0.0419	0.0000	OK
360 minute winter	MH15	184	94.763	0.045	3.2	0.1429	0.0000	OK
360 minute winter	MH17	184	94.755	0.058	9.8	0.1720	0.0000	OK
360 minute winter	MH11	184	94.847	0.047	6.0	0.1711	0.0000	OK
360 minute winter	MH12	184	94.737	0.087	12.4	0.2952	0.0000	OK
360 minute winter	MH10	192	94.728	0.083	8.2	0.3232	0.0000	OK
360 minute winter	MH13	160	94.711	0.133	43.8	0.3946	0.0000	OK
360 minute winter	MH18	192	94.080	0.080	38.4	0.2398	0.0000	OK
360 minute winter	MH19	184	94.750	0.289	57.1	1.3082	0.0000	OK
360 minute winter	EX SW 3	192	93.337	0.070	38.1	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
360 minute winter	MH9	1.000	MH8	8.1	0.452	0.025	0.7811	
360 minute winter	MH8	1.001	MH6	14.6	0.599	0.033	0.8723	
360 minute winter	MH7	2.000	MH6	4.5	0.247	0.010	0.3510	
360 minute winter	MH6	1.002	MH4	23.2	0.744	0.053	0.5989	
360 minute winter	MH5	3.000	MH4	3.1	0.143	0.007	0.2807	
360 minute winter	MH4	1.003	MH2	27.1	0.826	0.062	0.6704	
360 minute winter	MH3	4.000	MH2	2.0	0.096	0.005	0.2968	
360 minute winter	MH2	1.004	MH1	33.3	0.769	0.068	1.1507	
360 minute winter	MH1	1.005	MH1.1	37.5	0.930	0.292	0.7565	
360 minute winter	MH1.1	1.006	NEW SW 1	38.7	1.036	0.274	0.2848	
360 minute winter	NEW SW 1	EX1.000	EX SW 1	38.6	2.191	1.452	0.3055	334.7
360 minute winter	MH16	5.000	MH17	6.6	1.257	0.035	0.1162	
360 minute winter	MH14	6.000	MH15	1.9	1.178	0.046	0.0183	
360 minute winter	MH15	6.001	MH17	3.2	0.276	0.010	0.1226	
360 minute winter	MH17	5.001	MH19	9.8	0.196	0.020	3.4054	
360 minute winter	MH11	7.000	MH12	6.0	0.354	0.013	0.6028	
360 minute winter	MH12	7.001	MH13	13.1	0.453	0.043	1.1869	
360 minute winter	MH10	8.000	MH13	9.1	0.360	0.030	1.0597	
360 minute winter	MH13	7.002	MH19	49.5	0.710	0.061	0.7325	
360 minute winter	MH18	5.003	EX SW 3	38.1	3.282	0.213	0.0729	294.1
360 minute winter	MH19	5.002	MH18	38.4	2.275	0.083	0.1467	

Results for 100 year 480 minute summer. 720 minute analysis at 8 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
480 minute summer	MH9	248	93.717	0.067	8.7	0.2522	0.0000	OK
480 minute summer	MH8	248	93.629	0.076	15.8	0.2631	0.0000	OK
480 minute summer	MH7	248	93.525	0.044	4.9	0.1427	0.0000	OK
480 minute summer	MH6	248	93.509	0.101	25.1	0.3131	0.0000	OK
480 minute summer	MH5	248	93.439	0.062	3.3	0.1829	0.0000	OK
480 minute summer	MH4	248	93.438	0.109	29.4	0.2908	0.0000	OK
480 minute summer	MH3	248	93.354	0.056	2.2	0.1595	0.0000	OK
480 minute summer	MH2	248	93.354	0.109	36.1	0.3362	0.0000	OK
480 minute summer	MH1	248	93.269	0.156	40.8	0.4793	0.0000	OK
480 minute summer	MH1.1	248	93.189	0.154	42.1	0.2945	0.0000	OK
480 minute summer	NEW SW 1	248	92.542	0.903	42.1	1.5948	0.0000	SURCHARGED
480 minute summer	EX SW 1	224	91.392	0.142	42.0	0.0000	0.0000	OK
480 minute summer	MH16	248	95.680	0.040	7.1	0.1257	0.0000	OK
480 minute summer	MH14	248	95.798	0.023	2.0	0.0430	0.0000	OK
480 minute summer	MH15	248	94.765	0.047	3.4	0.1497	0.0000	OK
480 minute summer	MH17	248	94.757	0.060	10.5	0.1798	0.0000	OK
480 minute summer	MH11	248	94.849	0.049	6.5	0.1778	0.0000	OK
480 minute summer	MH12	248	94.742	0.092	13.4	0.3106	0.0000	OK
480 minute summer	MH10	248	94.735	0.090	8.8	0.3497	0.0000	OK
480 minute summer	MH13	240	94.741	0.163	29.1	0.4854	0.0000	OK
480 minute summer	MH18	256	94.081	0.081	39.7	0.2426	0.0000	OK
480 minute summer	MH19	256	94.753	0.292	82.5	1.3228	0.0000	OK
480 minute summer	EX SW 3	256	93.338	0.071	38.7	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
480 minute summer	MH9	1.000	MH8	8.7	0.461	0.027	0.8228	
480 minute summer	MH8	1.001	MH6	15.8	0.610	0.036	0.9241	
480 minute summer	MH7	2.000	MH6	4.9	0.254	0.011	0.3729	
480 minute summer	MH6	1.002	MH4	25.1	0.759	0.057	0.6364	
480 minute summer	MH5	3.000	MH4	3.3	0.144	0.008	0.3026	
480 minute summer	MH4	1.003	MH2	29.4	0.841	0.067	0.7131	
480 minute summer	MH3	4.000	MH2	2.2	0.096	0.005	0.3219	
480 minute summer	MH2	1.004	MH1	36.1	0.782	0.074	1.2305	
480 minute summer	MH1	1.005	MH1.1	40.8	0.948	0.317	0.8069	
480 minute summer	MH1.1	1.006	NEW SW 1	42.1	1.059	0.298	0.3031	
480 minute summer	NEW SW 1	EX1.000	EX SW 1	42.0	2.388	1.583	0.3054	319.5
480 minute summer	MH16	5.000	MH17	7.1	1.285	0.037	0.1225	
480 minute summer	MH14	6.000	MH15	2.0	1.197	0.048	0.0189	
480 minute summer	MH15	6.001	MH17	3.4	0.279	0.011	0.1312	
480 minute summer	MH17	5.001	MH19	10.7	0.185	0.022	3.4412	
480 minute summer	MH11	7.000	MH12	6.5	0.365	0.014	0.6451	
480 minute summer	MH12	7.001	MH13	14.6	0.460	0.048	1.5707	
480 minute summer	MH10	8.000	MH13	10.8	0.365	0.035	1.4519	
480 minute summer	MH13	7.002	MH19	71.8	0.780	0.089	0.7871	
480 minute summer	MH18	5.003	EX SW 3	38.7	3.286	0.216	0.0739	273.7
480 minute summer	MH19	5.002	MH18	39.7	2.293	0.086	0.1505	

Results for 100 year 480 minute winter. 720 minute analysis at 8 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
480 minute winter	MH9	248	93.708	0.058	6.5	0.2194	0.0000	OK
480 minute winter	MH8	248	93.620	0.067	11.8	0.2294	0.0000	OK
480 minute winter	MH7	248	93.520	0.039	3.6	0.1242	0.0000	OK
480 minute winter	MH6	248	93.495	0.087	18.7	0.2682	0.0000	OK
480 minute winter	MH5	248	93.423	0.046	2.5	0.1374	0.0000	OK
480 minute winter	MH4	248	93.423	0.094	21.9	0.2497	0.0000	OK
480 minute winter	MH3	248	93.339	0.041	1.6	0.1164	0.0000	OK
480 minute winter	MH2	248	93.339	0.094	26.9	0.2891	0.0000	OK
480 minute winter	MH1	248	93.245	0.132	30.4	0.4045	0.0000	OK
480 minute winter	MH1.1	248	93.166	0.131	31.4	0.2503	0.0000	OK
480 minute winter	NEW SW 1	248	92.033	0.394	31.4	0.6963	0.0000	SURCHARGED
480 minute winter	EX SW 1	272	91.392	0.142	31.4	0.0000	0.0000	OK
480 minute winter	MH16	248	95.675	0.035	5.3	0.1091	0.0000	OK
480 minute winter	MH14	248	95.795	0.020	1.5	0.0373	0.0000	OK
480 minute winter	MH15	248	94.757	0.039	2.5	0.1248	0.0000	OK
480 minute winter	MH17	248	94.749	0.052	7.8	0.1550	0.0000	OK
480 minute winter	MH11	248	94.843	0.043	4.8	0.1547	0.0000	OK
480 minute winter	MH12	248	94.723	0.073	9.9	0.2473	0.0000	OK
480 minute winter	MH10	256	94.708	0.063	6.5	0.2447	0.0000	OK
480 minute winter	MH13	248	94.700	0.122	31.7	0.3617	0.0000	OK
480 minute winter	MH18	256	94.070	0.070	31.0	0.2092	0.0000	OK
480 minute winter	MH19	256	94.716	0.255	56.5	1.1528	0.0000	OK
480 minute winter	EX SW 3	256	93.329	0.062	30.0	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
480 minute winter	MH9	1.000	MH8	6.5	0.422	0.020	0.6714	
480 minute winter	MH8	1.001	MH6	11.8	0.565	0.027	0.7446	
480 minute winter	MH7	2.000	MH6	3.6	0.232	0.008	0.2987	
480 minute winter	MH6	1.002	MH4	18.7	0.706	0.042	0.5093	
480 minute winter	MH5	3.000	MH4	2.5	0.142	0.006	0.2291	
480 minute winter	MH4	1.003	MH2	21.9	0.781	0.050	0.5722	
480 minute winter	MH3	4.000	MH2	1.6	0.095	0.004	0.2426	
480 minute winter	MH2	1.004	MH1	26.9	0.734	0.055	0.9749	
480 minute winter	MH1	1.005	MH1.1	30.4	0.884	0.236	0.6449	
480 minute winter	MH1.1	1.006	NEW SW 1	31.4	0.980	0.223	0.2443	
480 minute winter	NEW SW 1	EX1.000	EX SW 1	31.4	1.783	1.182	0.3056	358.0
480 minute winter	MH16	5.000	MH17	5.3	1.178	0.028	0.0998	
480 minute winter	MH14	6.000	MH15	1.5	1.100	0.036	0.0155	
480 minute winter	MH15	6.001	MH17	2.5	0.258	0.008	0.1025	
480 minute winter	MH17	5.001	MH19	7.8	0.183	0.016	2.8854	
480 minute winter	MH11	7.000	MH12	4.8	0.347	0.011	0.4806	
480 minute winter	MH12	7.001	MH13	10.1	0.459	0.033	1.0803	
480 minute winter	MH10	8.000	MH13	7.0	0.367	0.023	0.9375	
480 minute winter	MH13	7.002	MH19	48.7	0.716	0.060	0.5932	
480 minute winter	MH18	5.003	EX SW 3	30.0	3.097	0.168	0.0609	308.1
480 minute winter	MH19	5.002	MH18	31.0	2.179	0.067	0.1236	

Results for 100 year 600 minute summer. 840 minute analysis at 15 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
600 minute summer	MH9	315	93.710	0.060	7.1	0.2287	0.0000	OK
600 minute summer	MH8	315	93.622	0.069	12.9	0.2391	0.0000	OK
600 minute summer	MH7	315	93.522	0.041	4.0	0.1304	0.0000	OK
600 minute summer	MH6	315	93.499	0.091	20.5	0.2814	0.0000	OK
600 minute summer	MH5	315	93.428	0.051	2.7	0.1505	0.0000	OK
600 minute summer	MH4	315	93.427	0.098	24.0	0.2616	0.0000	OK
600 minute summer	MH3	315	93.344	0.046	1.8	0.1285	0.0000	OK
600 minute summer	MH2	315	93.343	0.098	29.5	0.3023	0.0000	OK
600 minute summer	MH1	315	93.252	0.139	33.3	0.4260	0.0000	OK
600 minute summer	MH1.1	315	93.173	0.138	34.4	0.2632	0.0000	OK
600 minute summer	NEW SW 1	315	92.162	0.523	34.4	0.9236	0.0000	SURCHARGED
600 minute summer	EX SW 1	300	91.392	0.142	34.4	0.0000	0.0000	OK
600 minute summer	MH16	315	95.676	0.036	5.8	0.1139	0.0000	OK
600 minute summer	MH14	315	95.796	0.021	1.6	0.0385	0.0000	OK
600 minute summer	MH15	315	94.759	0.041	2.7	0.1307	0.0000	OK
600 minute summer	MH17	315	94.751	0.054	8.5	0.1613	0.0000	OK
600 minute summer	MH11	315	94.845	0.045	5.3	0.1618	0.0000	OK
600 minute summer	MH12	315	94.729	0.079	10.9	0.2672	0.0000	OK
600 minute summer	MH10	315	94.716	0.071	7.2	0.2767	0.0000	OK
600 minute summer	MH13	300	94.715	0.137	33.3	0.4086	0.0000	OK
600 minute summer	MH18	315	94.073	0.073	33.8	0.2176	0.0000	OK
600 minute summer	MH19	315	94.732	0.271	41.1	1.2253	0.0000	OK
600 minute summer	EX SW 3	315	93.331	0.064	31.9	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
600 minute summer	MH9	1.000	MH8	7.1	0.435	0.022	0.7145	
600 minute summer	MH8	1.001	MH6	12.9	0.579	0.029	0.7955	
600 minute summer	MH7	2.000	MH6	4.0	0.242	0.009	0.3202	
600 minute summer	MH6	1.002	MH4	20.5	0.723	0.047	0.5455	
600 minute summer	MH5	3.000	MH4	2.7	0.138	0.006	0.2497	
600 minute summer	MH4	1.003	MH2	24.0	0.800	0.054	0.6119	
600 minute summer	MH3	4.000	MH2	1.8	0.095	0.004	0.2644	
600 minute summer	MH2	1.004	MH1	29.5	0.751	0.061	1.0467	
600 minute summer	MH1	1.005	MH1.1	33.3	0.903	0.259	0.6913	
600 minute summer	MH1.1	1.006	NEW SW 1	34.4	1.004	0.244	0.2613	
600 minute summer	NEW SW 1	EX1.000	EX SW 1	34.4	1.954	1.295	0.3054	337.7
600 minute summer	MH16	5.000	MH17	5.8	1.210	0.031	0.1063	
600 minute summer	MH14	6.000	MH15	1.6	1.121	0.039	0.0162	
600 minute summer	MH15	6.001	MH17	2.7	0.260	0.009	0.1094	
600 minute summer	MH17	5.001	MH19	8.5	0.175	0.017	3.1248	
600 minute summer	MH11	7.000	MH12	5.3	0.358	0.012	0.5304	
600 minute summer	MH12	7.001	MH13	10.9	0.456	0.036	1.2400	
600 minute summer	MH10	8.000	MH13	7.3	0.363	0.024	1.0828	
600 minute summer	MH13	7.002	MH19	32.6	0.482	0.040	0.6576	
600 minute summer	MH18	5.003	EX SW 3	31.9	3.134	0.178	0.0639	292.4
600 minute summer	MH19	5.002	MH18	33.8	2.223	0.073	0.1323	

Results for 100 year 600 minute winter. 840 minute analysis at 15 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
600 minute winter	MH9	315	93.703	0.053	5.4	0.2013	0.0000	OK
600 minute winter	MH8	315	93.614	0.061	9.8	0.2098	0.0000	OK
600 minute winter	MH7	315	93.516	0.035	3.0	0.1137	0.0000	OK
600 minute winter	MH6	315	93.487	0.079	15.5	0.2435	0.0000	OK
600 minute winter	MH5	315	93.415	0.038	2.1	0.1126	0.0000	OK
600 minute winter	MH4	315	93.414	0.085	18.2	0.2272	0.0000	OK
600 minute winter	MH3	315	93.331	0.033	1.4	0.0941	0.0000	OK
600 minute winter	MH2	315	93.331	0.086	22.4	0.2645	0.0000	OK
600 minute winter	MH1	315	93.232	0.119	25.3	0.3650	0.0000	OK
600 minute winter	MH1.1	315	93.154	0.119	26.1	0.2263	0.0000	OK
600 minute winter	NEW SW 1	315	91.775	0.136	26.1	0.2409	0.0000	OK
600 minute winter	EX SW 1	315	91.390	0.140	26.1	0.0000	0.0000	OK
600 minute winter	MH16	315	95.672	0.032	4.4	0.0998	0.0000	OK
600 minute winter	MH14	300	95.793	0.018	1.2	0.0335	0.0000	OK
600 minute winter	MH15	315	94.754	0.036	2.1	0.1129	0.0000	OK
600 minute winter	MH17	315	94.745	0.048	6.5	0.1422	0.0000	OK
600 minute winter	MH11	315	94.840	0.040	4.0	0.1427	0.0000	OK
600 minute winter	MH12	315	94.717	0.067	8.3	0.2267	0.0000	OK
600 minute winter	MH10	315	94.700	0.055	5.5	0.2145	0.0000	OK
600 minute winter	MH13	315	94.686	0.108	19.7	0.3208	0.0000	OK
600 minute winter	MH18	300	94.058	0.058	20.6	0.1734	0.0000	OK
600 minute winter	MH19	270	94.664	0.203	29.9	0.9164	0.0000	OK
600 minute winter	EX SW 3	300	93.320	0.053	22.2	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
600 minute winter	MH9	1.000	MH8	5.4	0.400	0.017	0.5894	
600 minute winter	MH8	1.001	MH6	9.8	0.538	0.022	0.6492	
600 minute winter	MH7	2.000	MH6	3.0	0.222	0.007	0.2600	
600 minute winter	MH6	1.002	MH4	15.5	0.672	0.035	0.4431	
600 minute winter	MH5	3.000	MH4	2.1	0.139	0.005	0.1920	
600 minute winter	MH4	1.003	MH2	18.2	0.741	0.041	0.5014	
600 minute winter	MH3	4.000	MH2	1.4	0.097	0.003	0.2053	
600 minute winter	MH2	1.004	MH1	22.4	0.703	0.046	0.8480	
600 minute winter	MH1	1.005	MH1.1	25.3	0.846	0.197	0.5608	
600 minute winter	MH1.1	1.006	NEW SW 1	26.1	0.933	0.185	0.2133	
600 minute winter	NEW SW 1	EX1.000	EX SW 1	26.1	1.632	0.983	0.2972	377.5
600 minute winter	MH16	5.000	MH17	4.4	1.115	0.023	0.0875	
600 minute winter	MH14	6.000	MH15	1.2	1.028	0.029	0.0132	
600 minute winter	MH15	6.001	MH17	2.1	0.249	0.007	0.0899	
600 minute winter	MH17	5.001	MH19	6.5	0.159	0.013	2.1412	
600 minute winter	MH11	7.000	MH12	4.0	0.329	0.009	0.4223	
600 minute winter	MH12	7.001	MH13	8.4	0.461	0.027	0.9215	
600 minute winter	MH10	8.000	MH13	5.5	0.367	0.018	0.7882	
600 minute winter	MH13	7.002	MH19	24.7	0.541	0.030	0.4846	
600 minute winter	MH18	5.003	EX SW 3	22.2	2.907	0.124	0.0479	318.7
600 minute winter	MH19	5.002	MH18	20.6	1.983	0.044	0.0910	

Results for 100 year 720 minute summer. 960 minute analysis at 15 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
720 minute summer	MH9	375	93.707	0.057	6.3	0.2162	0.0000	OK
720 minute summer	MH8	375	93.619	0.066	11.4	0.2257	0.0000	OK
720 minute summer	MH7	375	93.519	0.038	3.5	0.1225	0.0000	OK
720 minute summer	MH6	375	93.493	0.085	18.1	0.2637	0.0000	OK
720 minute summer	MH5	375	93.422	0.045	2.4	0.1329	0.0000	OK
720 minute summer	MH4	375	93.421	0.092	21.2	0.2456	0.0000	OK
720 minute summer	MH3	375	93.338	0.040	1.6	0.1126	0.0000	OK
720 minute summer	MH2	375	93.338	0.093	26.1	0.2849	0.0000	OK
720 minute summer	MH1	375	93.243	0.130	29.5	0.3977	0.0000	OK
720 minute summer	MH1.1	375	93.164	0.129	30.5	0.2463	0.0000	OK
720 minute summer	NEW SW 1	375	91.997	0.358	30.5	0.6327	0.0000	SURCHARGED
720 minute summer	EX SW 1	360	91.392	0.142	30.5	0.0000	0.0000	OK
720 minute summer	MH16	375	95.674	0.034	5.1	0.1072	0.0000	OK
720 minute summer	MH14	375	95.794	0.019	1.4	0.0361	0.0000	OK
720 minute summer	MH15	375	94.757	0.039	2.4	0.1219	0.0000	OK
720 minute summer	MH17	375	94.748	0.051	7.5	0.1521	0.0000	OK
720 minute summer	MH11	375	94.843	0.043	4.7	0.1532	0.0000	OK
720 minute summer	MH12	375	94.722	0.072	9.7	0.2451	0.0000	OK
720 minute summer	MH10	375	94.706	0.061	6.4	0.2375	0.0000	OK
720 minute summer	MH13	360	94.698	0.120	31.5	0.3583	0.0000	OK
720 minute summer	MH18	375	94.066	0.066	25.4	0.1958	0.0000	OK
720 minute summer	MH19	390	94.689	0.228	42.2	1.0323	0.0000	OK
720 minute summer	EX SW 3	375	93.327	0.060	27.6	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
720 minute summer	MH9	1.000	MH8	6.3	0.419	0.020	0.6560	
720 minute summer	MH8	1.001	MH6	11.4	0.559	0.026	0.7266	
720 minute summer	MH7	2.000	MH6	3.5	0.232	0.008	0.2918	
720 minute summer	MH6	1.002	MH4	18.1	0.700	0.041	0.4970	
720 minute summer	MH5	3.000	MH4	2.4	0.143	0.006	0.2222	
720 minute summer	MH4	1.003	MH2	21.2	0.774	0.048	0.5592	
720 minute summer	MH3	4.000	MH2	1.6	0.096	0.004	0.2358	
720 minute summer	MH2	1.004	MH1	26.1	0.729	0.054	0.9529	
720 minute summer	MH1	1.005	MH1.1	29.5	0.877	0.229	0.6307	
720 minute summer	MH1.1	1.006	NEW SW 1	30.5	0.972	0.216	0.2392	
720 minute summer	NEW SW 1	EX1.000	EX SW 1	30.5	1.733	1.148	0.3054	351.8
720 minute summer	MH16	5.000	MH17	5.1	1.165	0.027	0.0971	
720 minute summer	MH14	6.000	MH15	1.4	1.077	0.034	0.0147	
720 minute summer	MH15	6.001	MH17	2.4	0.254	0.008	0.0996	
720 minute summer	MH17	5.001	MH19	7.5	0.165	0.015	2.4963	
720 minute summer	MH11	7.000	MH12	4.7	0.346	0.010	0.4741	
720 minute summer	MH12	7.001	MH13	9.9	0.459	0.032	1.0599	
720 minute summer	MH10	8.000	MH13	6.8	0.364	0.022	0.9123	
720 minute summer	MH13	7.002	MH19	35.8	0.644	0.044	0.5648	
720 minute summer	MH18	5.003	EX SW 3	27.6	3.072	0.155	0.0564	295.9
720 minute summer	MH19	5.002	MH18	25.4	2.078	0.055	0.1071	

Results for 100 year 720 minute winter. 960 minute analysis at 15 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
720 minute winter	MH9	375	93.700	0.050	4.7	0.1885	0.0000	OK
720 minute winter	MH8	375	93.610	0.057	8.6	0.1972	0.0000	OK
720 minute winter	MH7	375	93.514	0.033	2.6	0.1063	0.0000	OK
720 minute winter	MH6	375	93.482	0.074	13.6	0.2279	0.0000	OK
720 minute winter	MH5	375	93.409	0.032	1.8	0.0963	0.0000	OK
720 minute winter	MH4	375	93.409	0.080	15.9	0.2123	0.0000	OK
720 minute winter	MH3	375	93.326	0.028	1.2	0.0793	0.0000	OK
720 minute winter	MH2	375	93.326	0.081	19.6	0.2482	0.0000	OK
720 minute winter	MH1	375	93.223	0.110	22.1	0.3388	0.0000	OK
720 minute winter	MH1.1	375	93.145	0.110	22.8	0.2104	0.0000	OK
720 minute winter	NEW SW 1	375	91.755	0.116	22.8	0.2052	0.0000	OK
720 minute winter	EX SW 1	375	91.357	0.107	22.8	0.0000	0.0000	OK
720 minute winter	MH16	375	95.670	0.030	3.9	0.0941	0.0000	OK
720 minute winter	MH14	375	95.792	0.017	1.1	0.0322	0.0000	OK
720 minute winter	MH15	375	94.752	0.034	1.9	0.1066	0.0000	OK
720 minute winter	MH17	375	94.742	0.045	5.8	0.1350	0.0000	OK
720 minute winter	MH11	375	94.837	0.037	3.5	0.1337	0.0000	OK
720 minute winter	MH12	360	94.713	0.063	7.2	0.2122	0.0000	OK
720 minute winter	MH10	375	94.697	0.052	4.8	0.2012	0.0000	OK
720 minute winter	MH13	375	94.670	0.092	14.1	0.2724	0.0000	OK
720 minute winter	MH18	360	94.057	0.057	21.6	0.1714	0.0000	OK
720 minute winter	MH19	360	94.670	0.209	33.1	0.9466	0.0000	OK
720 minute winter	EX SW 3	360	93.319	0.052	21.2	0.0000	0.0000	OK
Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
720 minute winter	MH9	1.000	MH8	4.7	0.383	0.015	0.5371	
720 minute winter	MH8	1.001	MH6	8.6	0.520	0.020	0.5909	
720 minute winter	MH7	2.000	MH6	2.6	0.213	0.006	0.2361	
720 minute winter	MH6	1.002	MH4	13.6	0.651	0.031	0.4018	
720 minute winter	MH5	3.000	MH4	1.8	0.138	0.004	0.1689	
720 minute winter	MH4	1.003	MH2	15.9	0.713	0.036	0.4551	
720 minute winter	MH3	4.000	MH2	1.2	0.097	0.003	0.1811	
720 minute winter	MH2	1.004	MH1	19.6	0.681	0.040	0.7661	
720 minute winter	MH1	1.005	MH1.1	22.1	0.819	0.172	0.5062	
720 minute winter	MH1.1	1.006	NEW SW 1	22.8	0.900	0.162	0.1932	
720 minute winter	NEW SW 1	EX1.000	EX SW 1	22.8	1.624	0.858	0.2459	393.7
720 minute winter	MH16	5.000	MH17	3.9	1.076	0.021	0.0804	
720 minute winter	MH14	6.000	MH15	1.1	1.002	0.027	0.0124	
720 minute winter	MH15	6.001	MH17	1.9	0.245	0.006	0.0830	
720 minute winter	MH17	5.001	MH19	5.8	0.152	0.012	2.2287	
720 minute winter	MH11	7.000	MH12	3.5	0.317	0.008	0.3841	
720 minute winter	MH12	7.001	MH13	7.3	0.456	0.024	0.7629	
720 minute winter	MH10	8.000	MH13	4.8	0.365	0.016	0.6473	
720 minute winter	MH13	7.002	MH19	27.7	0.597	0.034	0.4383	
720 minute winter	MH18	5.003	EX SW 3	21.2	2.850	0.119	0.0467	338.2
720 minute winter	MH19	5.002	MH18	21.6	2.013	0.047	0.0934	

Results for 100 year 960 minute summer. 1200 minute analysis at 15 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
960 minute summer	MH9	495	93.702	0.052	5.1	0.1959	0.0000	OK
960 minute summer	MH8	495	93.612	0.059	9.3	0.2046	0.0000	OK
960 minute summer	MH7	495	93.516	0.035	2.9	0.1119	0.0000	OK
960 minute summer	MH6	495	93.485	0.077	14.8	0.2379	0.0000	OK
960 minute summer	MH5	495	93.413	0.036	2.0	0.1070	0.0000	OK
960 minute summer	MH4	495	93.412	0.083	17.4	0.2221	0.0000	OK
960 minute summer	MH3	495	93.329	0.031	1.3	0.0888	0.0000	OK
960 minute summer	MH2	495	93.329	0.084	21.4	0.2588	0.0000	OK
960 minute summer	MH1	495	93.229	0.116	24.1	0.3554	0.0000	OK
960 minute summer	MH1.1	495	93.151	0.116	24.9	0.2207	0.0000	OK
960 minute summer	NEW SW 1	495	91.766	0.127	24.9	0.2251	0.0000	OK
960 minute summer	EX SW 1	495	91.365	0.115	24.9	0.0000	0.0000	OK
960 minute summer	MH16	495	95.671	0.031	4.2	0.0976	0.0000	OK
960 minute summer	MH14	495	95.793	0.018	1.2	0.0335	0.0000	OK
960 minute summer	MH15	495	94.753	0.035	2.0	0.1099	0.0000	OK
960 minute summer	MH17	495	94.744	0.047	6.2	0.1392	0.0000	OK
960 minute summer	MH11	495	94.839	0.039	3.8	0.1392	0.0000	OK
960 minute summer	MH12	495	94.715	0.065	7.8	0.2200	0.0000	OK
960 minute summer	MH10	495	94.699	0.054	5.2	0.2090	0.0000	OK
960 minute summer	MH13	495	94.678	0.100	17.0	0.2969	0.0000	OK
960 minute summer	MH18	510	94.055	0.055	20.1	0.1646	0.0000	OK
960 minute summer	MH19	480	94.666	0.205	41.0	0.9296	0.0000	OK
960 minute summer	EX SW 3	510	93.318	0.051	20.1	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
960 minute summer	MH9	1.000	MH8	5.1	0.392	0.016	0.5676	
960 minute summer	MH8	1.001	MH6	9.3	0.529	0.021	0.6270	
960 minute summer	MH7	2.000	MH6	2.9	0.222	0.007	0.2521	
960 minute summer	MH6	1.002	MH4	14.8	0.664	0.034	0.4286	
960 minute summer	MH5	3.000	MH4	2.0	0.139	0.005	0.1841	
960 minute summer	MH4	1.003	MH2	17.4	0.732	0.040	0.4853	
960 minute summer	MH3	4.000	MH2	1.3	0.097	0.003	0.1968	
960 minute summer	MH2	1.004	MH1	21.4	0.696	0.044	0.8183	
960 minute summer	MH1	1.005	MH1.1	24.1	0.836	0.187	0.5407	
960 minute summer	MH1.1	1.006	NEW SW 1	24.9	0.921	0.177	0.2060	
960 minute summer	NEW SW 1	EX1.000	EX SW 1	24.9	1.633	0.938	0.2668	377.1
960 minute summer	MH16	5.000	MH17	4.2	1.099	0.022	0.0847	
960 minute summer	MH14	6.000	MH15	1.2	1.028	0.029	0.0132	
960 minute summer	MH15	6.001	MH17	2.0	0.246	0.007	0.0869	
960 minute summer	MH17	5.001	MH19	6.2	0.154	0.013	2.1892	
960 minute summer	MH11	7.000	MH12	3.8	0.325	0.008	0.4053	
960 minute summer	MH12	7.001	MH13	7.8	0.459	0.026	0.8435	
960 minute summer	MH10	8.000	MH13	5.2	0.363	0.017	0.7192	
960 minute summer	MH13	7.002	MH19	34.9	0.672	0.043	0.4651	
960 minute summer	MH18	5.003	EX SW 3	20.1	2.829	0.112	0.0446	319.5
960 minute summer	MH19	5.002	MH18	20.1	1.982	0.043	0.0880	

Results for 100 year 960 minute winter. 1200 minute analysis at 15 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
960 minute winter	MH9	495	93.695	0.045	3.8	0.1708	0.0000	OK
960 minute winter	MH8	495	93.605	0.052	6.9	0.1780	0.0000	OK
960 minute winter	MH7	480	93.511	0.030	2.1	0.0963	0.0000	OK
960 minute winter	MH6	495	93.474	0.066	10.9	0.2040	0.0000	OK
960 minute winter	MH5	495	93.403	0.026	1.5	0.0767	0.0000	OK
960 minute winter	MH4	495	93.401	0.072	12.8	0.1905	0.0000	OK
960 minute winter	MH3	495	93.319	0.021	1.0	0.0605	0.0000	OK
960 minute winter	MH2	495	93.318	0.073	15.8	0.2240	0.0000	OK
960 minute winter	MH1	495	93.211	0.098	17.8	0.3014	0.0000	OK
960 minute winter	MH1.1	495	93.133	0.098	18.4	0.1877	0.0000	OK
960 minute winter	NEW SW 1	495	91.737	0.098	18.4	0.1728	0.0000	OK
960 minute winter	EX SW 1	495	91.342	0.092	18.4	0.0000	0.0000	OK
960 minute winter	MH16	495	95.667	0.027	3.1	0.0844	0.0000	OK
960 minute winter	MH14	480	95.791	0.016	0.9	0.0292	0.0000	OK
960 minute winter	MH15	480	94.748	0.030	1.5	0.0949	0.0000	OK
960 minute winter	MH17	495	94.738	0.041	4.6	0.1217	0.0000	OK
960 minute winter	MH11	480	94.833	0.033	2.8	0.1202	0.0000	OK
960 minute winter	MH12	465	94.708	0.058	5.8	0.1966	0.0000	OK
960 minute winter	MH10	480	94.691	0.046	3.8	0.1803	0.0000	OK
960 minute winter	MH13	480	94.633	0.055	11.1	0.1625	0.0000	OK
960 minute winter	MH18	495	94.049	0.049	16.2	0.1478	0.0000	OK
960 minute winter	MH19	495	94.640	0.179	17.3	0.8094	0.0000	OK
960 minute winter	EX SW 3	495	93.313	0.046	16.3	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
960 minute winter	MH9	1.000	MH8	3.8	0.359	0.012	0.4621	
960 minute winter	MH8	1.001	MH6	6.9	0.488	0.016	0.5028	
960 minute winter	MH7	2.000	MH6	2.1	0.203	0.005	0.2007	
960 minute winter	MH6	1.002	MH4	10.9	0.613	0.025	0.3418	
960 minute winter	MH5	3.000	MH4	1.5	0.140	0.003	0.1387	
960 minute winter	MH4	1.003	MH2	12.8	0.669	0.029	0.3903	
960 minute winter	MH3	4.000	MH2	1.0	0.098	0.002	0.1496	
960 minute winter	MH2	1.004	MH1	15.8	0.644	0.033	0.6520	
960 minute winter	MH1	1.005	MH1.1	17.8	0.775	0.138	0.4305	
960 minute winter	MH1.1	1.006	NEW SW 1	18.4	0.849	0.130	0.1652	
960 minute winter	NEW SW 1	EX1.000	EX SW 1	18.4	1.570	0.693	0.2054	423.1
960 minute winter	MH16	5.000	MH17	3.1	1.007	0.016	0.0683	
960 minute winter	MH14	6.000	MH15	0.9	0.944	0.022	0.0108	
960 minute winter	MH15	6.001	MH17	1.5	0.227	0.005	0.0702	
960 minute winter	MH17	5.001	MH19	4.6	0.134	0.009	1.8066	
960 minute winter	MH11	7.000	MH12	2.8	0.291	0.006	0.3388	
960 minute winter	MH12	7.001	MH13	5.8	0.457	0.019	0.4755	
960 minute winter	MH10	8.000	MH13	3.8	0.365	0.012	0.3776	
960 minute winter	MH13	7.002	MH19	12.8	0.353	0.016	0.3476	
960 minute winter	MH18	5.003	EX SW 3	16.3	2.667	0.091	0.0383	361.8
960 minute winter	MH19	5.002	MH18	16.2	1.877	0.035	0.0752	

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

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
1440 minute summer	MH9	750	93.695	0.045	3.7	0.1687	0.0000	OK
1440 minute summer	MH8	750	93.604	0.051	6.7	0.1755	0.0000	OK
1440 minute summer	MH7	750	93.511	0.030	2.1	0.0963	0.0000	OK
1440 minute summer	MH6	750	93.473	0.065	10.7	0.2022	0.0000	OK
1440 minute summer	MH5	750	93.402	0.025	1.4	0.0743	0.0000	OK
1440 minute summer	MH4	750	93.400	0.071	12.5	0.1883	0.0000	OK
1440 minute summer	MH3	750	93.318	0.020	0.9	0.0577	0.0000	OK
1440 minute summer	MH2	750	93.317	0.072	15.3	0.2206	0.0000	OK
1440 minute summer	MH1	750	93.210	0.097	17.3	0.2969	0.0000	OK
1440 minute summer	MH1.1	750	93.132	0.097	17.9	0.1850	0.0000	OK
1440 minute summer	NEW SW 1	750	91.735	0.096	17.9	0.1694	0.0000	OK
1440 minute summer	EX SW 1	750	91.340	0.090	17.9	0.0000	0.0000	OK
1440 minute summer	MH16	750	95.667	0.027	3.0	0.0831	0.0000	OK
1440 minute summer	MH14	750	95.790	0.015	0.8	0.0276	0.0000	OK
1440 minute summer	MH15	750	94.747	0.029	1.4	0.0920	0.0000	OK
1440 minute summer	MH17	750	94.737	0.040	4.4	0.1193	0.0000	OK
1440 minute summer	MH11	750	94.833	0.033	2.7	0.1182	0.0000	OK
1440 minute summer	MH12	720	94.708	0.058	5.6	0.1963	0.0000	OK
1440 minute summer	MH10	750	94.691	0.046	3.7	0.1781	0.0000	OK
1440 minute summer	MH13	750	94.631	0.053	10.9	0.1578	0.0000	OK
1440 minute summer	MH18	720	94.047	0.047	14.9	0.1409	0.0000	OK
1440 minute summer	MH19	750	94.633	0.172	17.9	0.7777	0.0000	OK
1440 minute summer	EX SW 3	720	93.311	0.044	14.9	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
1440 minute summer	MH9	1.000	MH8	3.7	0.356	0.011	0.4533	
1440 minute summer	MH8	1.001	MH6	6.7	0.481	0.015	0.4950	
1440 minute summer	MH7	2.000	MH6	2.1	0.203	0.005	0.1988	
1440 minute summer	MH6	1.002	MH4	10.7	0.611	0.024	0.3367	
1440 minute summer	MH5	3.000	MH4	1.4	0.135	0.003	0.1356	
1440 minute summer	MH4	1.003	MH2	12.5	0.667	0.028	0.3827	
1440 minute summer	MH3	4.000	MH2	0.9	0.092	0.002	0.1453	
1440 minute summer	MH2	1.004	MH1	15.3	0.638	0.031	0.6376	
1440 minute summer	MH1	1.005	MH1.1	17.3	0.769	0.135	0.4216	
1440 minute summer	MH1.1	1.006	NEW SW 1	17.9	0.843	0.127	0.1619	
1440 minute summer	NEW SW 1	EX1.000	EX SW 1	17.9	1.561	0.674	0.2009	412.8
1440 minute summer	MH16	5.000	MH17	3.0	0.998	0.016	0.0667	
1440 minute summer	MH14	6.000	MH15	0.8	0.912	0.019	0.0099	
1440 minute summer	MH15	6.001	MH17	1.4	0.218	0.005	0.0676	
1440 minute summer	MH17	5.001	MH19	4.4	0.132	0.009	1.7125	
1440 minute summer	MH11	7.000	MH12	2.7	0.283	0.006	0.3356	
1440 minute summer	MH12	7.001	MH13	5.7	0.462	0.019	0.4619	
1440 minute summer	MH10	8.000	MH13	3.7	0.367	0.012	0.3651	
1440 minute summer	MH13	7.002	MH19	13.5	0.369	0.017	0.3330	
1440 minute summer	MH18	5.003	EX SW 3	14.9	2.606	0.083	0.0359	354.5
1440 minute summer	MH19	5.002	MH18	14.9	1.837	0.032	0.0706	

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

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
1440 minute winter	MH9	750	93.689	0.039	2.8	0.1490	0.0000	OK
1440 minute winter	MH8	750	93.598	0.045	5.1	0.1546	0.0000	OK
1440 minute winter	MH7	720	93.507	0.026	1.5	0.0830	0.0000	OK
1440 minute winter	MH6	750	93.464	0.056	8.0	0.1745	0.0000	OK
1440 minute winter	MH5	750	93.399	0.022	1.1	0.0665	0.0000	OK
1440 minute winter	MH4	750	93.390	0.061	9.4	0.1635	0.0000	OK
1440 minute winter	MH3	720	93.316	0.018	0.7	0.0515	0.0000	OK
1440 minute winter	MH2	750	93.308	0.063	11.5	0.1928	0.0000	OK
1440 minute winter	MH1	750	93.196	0.083	13.0	0.2552	0.0000	OK
1440 minute winter	MH1.1	750	93.118	0.083	13.4	0.1588	0.0000	OK
1440 minute winter	NEW SW 1	750	91.718	0.079	13.4	0.1399	0.0000	OK
1440 minute winter	EX SW 1	750	91.325	0.075	13.4	0.0000	0.0000	OK
1440 minute winter	MH16	750	95.663	0.023	2.3	0.0732	0.0000	OK
1440 minute winter	MH14	690	95.788	0.013	0.6	0.0241	0.0000	OK
1440 minute winter	MH15	690	94.743	0.025	1.0	0.0793	0.0000	OK
1440 minute winter	MH17	750	94.732	0.035	3.3	0.1039	0.0000	OK
1440 minute winter	MH11	750	94.829	0.029	2.1	0.1053	0.0000	OK
1440 minute winter	MH12	750	94.702	0.052	4.3	0.1746	0.0000	OK
1440 minute winter	MH10	750	94.685	0.040	2.8	0.1573	0.0000	OK
1440 minute winter	MH13	750	94.620	0.042	8.2	0.1257	0.0000	OK
1440 minute winter	MH18	750	94.041	0.041	11.5	0.1229	0.0000	OK
1440 minute winter	MH19	750	94.611	0.150	11.5	0.6771	0.0000	OK
1440 minute winter	EX SW 3	750	93.306	0.039	11.5	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
1440 minute winter	MH9	1.000	MH8	2.8	0.326	0.009	0.3750	
1440 minute winter	MH8	1.001	MH6	5.1	0.451	0.012	0.4039	
1440 minute winter	MH7	2.000	MH6	1.5	0.185	0.003	0.1593	
1440 minute winter	MH6	1.002	MH4	8.0	0.564	0.018	0.2725	
1440 minute winter	MH5	3.000	MH4	1.1	0.129	0.003	0.1109	
1440 minute winter	MH4	1.003	MH2	9.4	0.614	0.021	0.3122	
1440 minute winter	MH3	4.000	MH2	0.7	0.089	0.002	0.1195	
1440 minute winter	MH2	1.004	MH1	11.5	0.592	0.024	0.5160	
1440 minute winter	MH1	1.005	MH1.1	13.0	0.717	0.101	0.3398	
1440 minute winter	MH1.1	1.006	NEW SW 1	13.4	0.779	0.095	0.1311	
1440 minute winter	NEW SW 1	EX1.000	EX SW 1	13.4	1.466	0.505	0.1602	463.6
1440 minute winter	MH16	5.000	MH17	2.3	0.917	0.012	0.0556	
1440 minute winter	MH14	6.000	MH15	0.6	0.838	0.014	0.0081	
1440 minute winter	MH15	6.001	MH17	1.0	0.201	0.003	0.0546	
1440 minute winter	MH17	5.001	MH19	3.3	0.121	0.007	1.4094	
1440 minute winter	MH11	7.000	MH12	2.1	0.261	0.005	0.2814	
1440 minute winter	MH12	7.001	MH13	4.3	0.425	0.014	0.3628	
1440 minute winter	MH10	8.000	MH13	2.8	0.336	0.009	0.2787	
1440 minute winter	MH13	7.002	MH19	8.2	0.283	0.010	0.2686	
1440 minute winter	MH18	5.003	EX SW 3	11.5	2.432	0.064	0.0297	398.0
1440 minute winter	MH19	5.002	MH18	11.5	1.724	0.025	0.0580	

Results for 100 year +40% CC 15 minute summer. 255 minute analysis at 1 minute timestep. Mass balance: 99.93%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	MH9	16	94.733	1.083	113.2	4.1017	0.0000	SURCHARGED
15 minute summer	MH8	16	94.825	1.272	146.2	4.3798	0.0000	SURCHARGED
15 minute summer	MH7	16	94.736	1.255	69.4	4.0398	0.0000	SURCHARGED
15 minute summer	MH6	15	94.787	1.379	166.7	4.2653	0.0000	SURCHARGED
15 minute summer	MH5	15	94.758	1.381	41.4	4.1037	0.0000	SURCHARGED
15 minute summer	MH4	15	94.770	1.441	167.1	3.8376	0.0000	SURCHARGED
15 minute summer	MH3	15	94.756	1.458	54.2	4.1158	0.0000	SURCHARGED
15 minute summer	MH2	15	94.772	1.527	138.4	4.6956	0.0000	SURCHARGED
15 minute summer	MH1	15	94.750	1.637	138.5	5.0248	0.0000	SURCHARGED
15 minute summer	MH1.1	14	94.729	1.694	101.8	3.2331	0.0000	SURCHARGED
15 minute summer	NEW SW 1	14	94.712	3.073	85.4	5.4302	0.0000	SURCHARGED
15 minute summer	EX SW 1	6	91.392	0.142	71.4	0.0000	0.0000	OK
15 minute summer	MH16	15	95.796	0.156	57.7	0.4887	0.0000	OK
15 minute summer	MH14	10	95.844	0.069	16.2	0.1302	0.0000	OK
15 minute summer	MH15	14	95.801	1.083	27.4	3.4232	0.0000	SURCHARGED
15 minute summer	MH17	14	95.808	1.111	81.1	3.3168	0.0000	SURCHARGED
15 minute summer	MH11	15	95.797	0.997	52.3	3.5925	0.0000	SURCHARGED
15 minute summer	MH12	14	95.793	1.143	94.0	3.8721	0.0000	SURCHARGED
15 minute summer	MH10	15	95.830	1.185	71.2	4.6266	0.0000	SURCHARGED
15 minute summer	MH13	15	95.813	1.235	146.6	3.6726	0.0000	SURCHARGED
15 minute summer	MH18	21	94.129	0.129	79.9	0.3844	0.0000	OK
15 minute summer	MH19	15	95.805	1.344	178.8	6.0818	0.0000	SURCHARGED
15 minute summer	EX SW 3	21	93.372	0.105	79.9	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	MH9	1.000	MH8	101.0	0.765	0.313	12.2825	
15 minute summer	MH8	1.001	MH6	123.0	0.945	0.280	9.9902	
15 minute summer	MH7	2.000	MH6	35.8	0.407	0.083	5.1702	
15 minute summer	MH6	1.002	MH4	160.8	1.043	0.365	5.4121	
15 minute summer	MH5	3.000	MH4	25.2	0.394	0.058	3.4066	
15 minute summer	MH4	1.003	MH2	105.6	1.032	0.240	5.7468	
15 minute summer	MH3	4.000	MH2	46.0	0.250	0.106	3.7536	
15 minute summer	MH2	1.004	MH1	108.9	0.884	0.224	7.4408	
15 minute summer	MH1	1.005	MH1.1	93.3	1.078	0.726	2.0678	
15 minute summer	MH1.1	1.006	NEW SW 1	85.4	1.177	0.606	0.8406	
15 minute summer	NEW SW 1	EX1.000	EX SW 1	71.4	4.058	2.689	0.3054	147.5
15 minute summer	MH16	5.000	MH17	57.2	2.277	0.301	1.1917	
15 minute summer	MH14	6.000	MH15	16.1	2.107	0.388	0.1351	
15 minute summer	MH15	6.001	MH17	23.9	0.390	0.078	2.9641	
15 minute summer	MH17	5.001	MH19	53.1	0.550	0.108	12.9541	
15 minute summer	MH11	7.000	MH12	41.0	0.597	0.090	9.5629	
15 minute summer	MH12	7.001	MH13	60.3	0.650	0.197	10.0990	
15 minute summer	MH10	8.000	MH13	56.7	0.566	0.185	9.4294	
15 minute summer	MH13	7.002	MH19	144.6	0.952	0.179	2.3847	
15 minute summer	MH18	5.003	EX SW 3	79.9	3.846	0.447	0.1303	127.4
15 minute summer	MH19	5.002	MH18	79.9	2.544	0.173	0.2734	

Results for 100 year +40% CC 15 minute winter. 255 minute analysis at 1 minute timestep. Mass balance: 99.95%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	MH9	16	95.200	1.550	155.0	5.8705	0.0000	SURCHARGED
15 minute winter	MH8	15	95.263	1.710	155.3	5.8891	0.0000	SURCHARGED
15 minute winter	MH7	16	95.207	1.726	41.4	5.5535	0.0000	SURCHARGED
15 minute winter	MH6	16	95.216	1.808	173.0	5.5925	0.0000	SURCHARGED
15 minute winter	MH5	16	95.222	1.845	28.4	5.4820	0.0000	SURCHARGED
15 minute winter	MH4	16	95.225	1.896	138.3	5.0512	0.0000	SURCHARGED
15 minute winter	MH3	16	95.224	1.926	35.6	5.4368	0.0000	SURCHARGED
15 minute winter	MH2	16	95.230	1.985	154.6	6.1046	0.0000	SURCHARGED
15 minute winter	MH1	16	95.224	2.111	129.8	6.4815	0.0000	SURCHARGED
15 minute winter	MH1.1	15	95.198	2.163	134.9	4.1299	0.0000	SURCHARGED
15 minute winter	NEW SW 1	15	95.176	3.537	103.2	6.2497	0.0000	SURCHARGED
15 minute winter	EX SW 1	6	91.392	0.142	76.3	0.0000	0.0000	OK
15 minute winter	MH16	15	96.248	0.608	60.7	1.8991	0.0000	SURCHARGED
15 minute winter	MH14	15	96.268	0.493	17.0	0.9245	0.0000	SURCHARGED
15 minute winter	MH15	15	96.232	1.514	39.0	4.7836	0.0000	SURCHARGED
15 minute winter	MH17	16	96.223	1.526	88.9	4.5560	0.0000	SURCHARGED
15 minute winter	MH11	15	96.258	1.458	59.7	5.2529	0.0000	SURCHARGED
15 minute winter	MH12	16	96.231	1.581	85.1	5.3539	0.0000	SURCHARGED
15 minute winter	MH10	15	96.220	1.575	74.9	6.1460	0.0000	SURCHARGED
15 minute winter	MH13	15	96.218	1.640	123.1	4.8775	0.0000	SURCHARGED
15 minute winter	MH18	24	94.129	0.129	80.0	0.3843	0.0000	OK
15 minute winter	MH19	15	96.211	1.750	144.3	7.9174	0.0000	SURCHARGED
15 minute winter	EX SW 3	24	93.372	0.105	79.9	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute winter	MH9	1.000	MH8	-85.1	0.759	-0.264	12.2825	
15 minute winter	MH8	1.001	MH6	110.3	0.921	0.251	9.9902	
15 minute winter	MH7	2.000	MH6	70.6	0.423	0.163	5.1702	
15 minute winter	MH6	1.002	MH4	115.6	1.052	0.263	5.4121	
15 minute winter	MH5	3.000	MH4	49.9	0.417	0.115	3.4066	
15 minute winter	MH4	1.003	MH2	123.7	1.023	0.281	5.7468	
15 minute winter	MH3	4.000	MH2	30.9	0.267	0.071	3.7536	
15 minute winter	MH2	1.004	MH1	98.8	0.891	0.203	7.4408	
15 minute winter	MH1	1.005	MH1.1	126.0	1.143	0.980	2.0678	
15 minute winter	MH1.1	1.006	NEW SW 1	103.2	1.257	0.732	0.8406	
15 minute winter	NEW SW 1	EX1.000	EX SW 1	76.3	4.332	2.871	0.3054	165.7
15 minute winter	MH16	5.000	MH17	60.0	2.303	0.316	1.5609	
15 minute winter	MH14	6.000	MH15	16.8	2.130	0.407	0.1996	
15 minute winter	MH15	6.001	MH17	-32.2	0.379	-0.105	2.9641	
15 minute winter	MH17	5.001	MH19	43.2	0.557	0.088	12.9541	
15 minute winter	MH11	7.000	MH12	39.5	0.596	0.087	9.5629	
15 minute winter	MH12	7.001	MH13	52.9	0.643	0.173	10.0990	
15 minute winter	MH10	8.000	MH13	53.8	0.573	0.176	9.4294	
15 minute winter	MH13	7.002	MH19	119.7	0.972	0.148	2.3847	
15 minute winter	MH18	5.003	EX SW 3	79.9	3.846	0.447	0.1303	141.8
15 minute winter	MH19	5.002	MH18	80.0	2.549	0.173	0.2733	

Results for 100 year +40% CC 30 minute summer. 270 minute analysis at 1 minute timestep. Mass balance: 99.96%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
30 minute summer	MH9	25	95.108	1.458	120.3	5.5225	0.0000	SURCHARGED
30 minute summer	MH8	23	95.150	1.597	138.1	5.5013	0.0000	SURCHARGED
30 minute summer	MH7	25	95.114	1.633	40.9	5.2550	0.0000	SURCHARGED
30 minute summer	MH6	24	95.120	1.712	144.4	5.2939	0.0000	SURCHARGED
30 minute summer	MH5	24	95.111	1.734	31.8	5.1523	0.0000	SURCHARGED
30 minute summer	MH4	24	95.117	1.788	137.2	4.7626	0.0000	SURCHARGED
30 minute summer	MH3	24	95.117	1.819	48.6	5.1349	0.0000	SURCHARGED
30 minute summer	MH2	24	95.118	1.873	121.0	5.7605	0.0000	SURCHARGED
30 minute summer	MH1	24	95.116	2.003	103.0	6.1486	0.0000	SURCHARGED
30 minute summer	MH1.1	24	95.081	2.046	84.7	3.9054	0.0000	SURCHARGED
30 minute summer	NEW SW 1	24	95.058	3.419	78.8	6.0411	0.0000	SURCHARGED
30 minute summer	EX SW 1	8	91.392	0.142	75.1	0.0000	0.0000	OK
30 minute summer	MH16	24	96.123	0.483	53.2	1.5092	0.0000	SURCHARGED
30 minute summer	MH14	23	96.134	0.359	14.9	0.6736	0.0000	SURCHARGED
30 minute summer	MH15	23	96.111	1.393	25.3	4.4022	0.0000	SURCHARGED
30 minute summer	MH17	23	96.126	1.429	69.9	4.2677	0.0000	SURCHARGED
30 minute summer	MH11	23	96.091	1.291	48.3	4.6513	0.0000	SURCHARGED
30 minute summer	MH12	24	96.100	1.450	75.6	4.9099	0.0000	SURCHARGED
30 minute summer	MH10	24	96.119	1.474	65.7	5.7513	0.0000	SURCHARGED
30 minute summer	MH13	23	96.111	1.533	138.6	4.5602	0.0000	SURCHARGED
30 minute summer	MH18	35	94.129	0.129	80.0	0.3844	0.0000	OK
30 minute summer	MH19	24	96.112	1.651	186.3	7.4711	0.0000	SURCHARGED
30 minute summer	EX SW 3	35	93.372	0.105	79.9	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
30 minute summer	MH9	1.000	MH8	89.7	0.742	0.278	12.2825	
30 minute summer	MH8	1.001	MH6	102.8	0.890	0.234	9.9902	
30 minute summer	MH7	2.000	MH6	28.3	0.358	0.065	5.1702	
30 minute summer	MH6	1.002	MH4	130.4	0.992	0.296	5.4121	
30 minute summer	MH5	3.000	MH4	26.1	0.374	0.060	3.4066	
30 minute summer	MH4	1.003	MH2	90.3	1.010	0.205	5.7468	
30 minute summer	MH3	4.000	MH2	-33.7	0.223	-0.078	3.7536	
30 minute summer	MH2	1.004	MH1	84.4	0.857	0.174	7.4408	
30 minute summer	MH1	1.005	MH1.1	80.2	1.036	0.624	2.0678	
30 minute summer	MH1.1	1.006	NEW SW 1	78.8	1.160	0.558	0.8406	
30 minute summer	NEW SW 1	EX1.000	EX SW 1	75.1	4.265	2.827	0.3054	198.5
30 minute summer	MH16	5.000	MH17	54.4	2.223	0.287	1.5609	
30 minute summer	MH14	6.000	MH15	14.9	2.070	0.360	0.1996	
30 minute summer	MH15	6.001	MH17	23.5	0.324	0.077	2.9641	
30 minute summer	MH17	5.001	MH19	51.8	0.489	0.105	12.9541	
30 minute summer	MH11	7.000	MH12	32.1	0.470	0.070	9.5629	
30 minute summer	MH12	7.001	MH13	58.0	0.594	0.190	10.0990	
30 minute summer	MH10	8.000	MH13	52.6	0.487	0.172	9.4294	
30 minute summer	MH13	7.002	MH19	153.0	0.838	0.189	2.3847	
30 minute summer	MH18	5.003	EX SW 3	79.9	3.846	0.447	0.1303	170.8
30 minute summer	MH19	5.002	MH18	80.0	2.547	0.173	0.2734	

Results for 100 year +40% CC 30 minute winter. 270 minute analysis at 1 minute timestep. Mass balance: 99.99%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
30 minute winter	MH9	25	95.623	1.973	78.1	7.4732	0.0000	FLOOD RISK
30 minute winter	MH8	26	95.639	2.086	101.6	7.1847	0.0000	FLOOD RISK
30 minute winter	MH7	25	95.625	2.144	38.9	6.9008	0.0000	FLOOD RISK
30 minute winter	MH6	26	95.627	2.219	114.9	6.8643	0.0000	FLOOD RISK
30 minute winter	MH5	25	95.627	2.250	22.5	6.6870	0.0000	FLOOD RISK
30 minute winter	MH4	25	95.623	2.294	100.7	6.1122	0.0000	FLOOD RISK
30 minute winter	MH3	25	95.623	2.325	30.1	6.5627	0.0000	FLOOD RISK
30 minute winter	MH2	25	95.622	2.377	116.3	7.3127	0.0000	FLOOD RISK
30 minute winter	MH1	25	95.619	2.506	114.5	7.6937	0.0000	FLOOD RISK
30 minute winter	MH1.1	25	95.578	2.543	101.4	4.8552	0.0000	FLOOD RISK
30 minute winter	NEW SW 1	25	95.553	3.914	86.6	6.9158	0.0000	FLOOD RISK
30 minute winter	EX SW 1	8	91.392	0.142	80.0	0.0000	0.0000	OK
30 minute winter	MH16	25	96.504	0.864	48.1	2.7011	0.0000	SURCHARGED
30 minute winter	MH14	25	96.501	0.726	13.5	1.3611	0.0000	SURCHARGED
30 minute winter	MH15	25	96.489	1.771	27.2	5.5961	0.0000	SURCHARGED
30 minute winter	MH17	25	96.491	1.794	72.3	5.3573	0.0000	SURCHARGED
30 minute winter	MH11	25	96.493	1.693	43.6	6.1031	0.0000	FLOOD RISK
30 minute winter	MH12	25	96.486	1.836	70.9	6.2182	0.0000	SURCHARGED
30 minute winter	MH10	25	96.481	1.836	59.4	7.1672	0.0000	FLOOD RISK
30 minute winter	MH13	25	96.480	1.902	138.7	5.6552	0.0000	SURCHARGED
30 minute winter	MH18	18	94.129	0.129	79.9	0.3844	0.0000	OK
30 minute winter	MH19	25	96.477	2.016	198.0	9.1226	0.0000	SURCHARGED
30 minute winter	EX SW 3	18	93.372	0.105	79.9	0.0000	0.0000	OK
Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
30 minute winter	MH9	1.000	MH8	56.0	0.722	0.174	12.2825	
30 minute winter	MH8	1.001	MH6	83.1	0.862	0.189	9.9902	
30 minute winter	MH7	2.000	MH6	19.7	0.353	0.045	5.1702	
30 minute winter	MH6	1.002	MH4	93.2	0.971	0.212	5.4121	
30 minute winter	MH5	3.000	MH4	21.0	0.383	0.048	3.4066	
30 minute winter	MH4	1.003	MH2	87.3	0.992	0.198	5.7468	
30 minute winter	MH3	4.000	MH2	-21.3	0.227	-0.049	3.7536	
30 minute winter	MH2	1.004	MH1	87.8	0.856	0.181	7.4408	
30 minute winter	MH1	1.005	MH1.1	93.8	1.035	0.730	2.0678	
30 minute winter	MH1.1	1.006	NEW SW 1	86.6	1.157	0.614	0.8406	
30 minute winter	NEW SW 1	EX1.000	EX SW 1	80.0	4.543	3.011	0.3054	222.4
30 minute winter	MH16	5.000	MH17	49.2	2.134	0.259	1.5609	
30 minute winter	MH14	6.000	MH15	14.1	2.014	0.339	0.1996	
30 minute winter	MH15	6.001	MH17	23.1	0.328	0.076	2.9641	
30 minute winter	MH17	5.001	MH19	40.0	0.505	0.081	12.9541	
30 minute winter	MH11	7.000	MH12	29.1	0.462	0.064	9.5629	
30 minute winter	MH12	7.001	MH13	48.4	0.621	0.158	10.0990	
30 minute winter	MH10	8.000	MH13	51.2	0.516	0.167	9.4294	
30 minute winter	MH13	7.002	MH19	158.1	0.879	0.195	2.3847	
30 minute winter	MH18	5.003	EX SW 3	79.9	3.846	0.447	0.1303	190.0
30 minute winter	MH19	5.002	MH18	79.9	2.544	0.173	0.2733	

Results for 100 year +40% CC 60 minute summer. 300 minute analysis at 1 minute timestep. Mass balance: 99.98%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute summer	MH9	41	95.072	1.422	61.8	5.3847	0.0000	SURCHARGED
60 minute summer	MH8	41	95.076	1.523	84.5	5.2453	0.0000	SURCHARGED
60 minute summer	MH7	41	95.071	1.590	40.8	5.1182	0.0000	SURCHARGED
60 minute summer	MH6	41	95.074	1.666	98.0	5.1523	0.0000	SURCHARGED
60 minute summer	MH5	41	95.073	1.696	19.0	5.0399	0.0000	SURCHARGED
60 minute summer	MH4	41	95.074	1.745	93.8	4.6489	0.0000	SURCHARGED
60 minute summer	MH3	41	95.070	1.772	17.6	5.0017	0.0000	SURCHARGED
60 minute summer	MH2	41	95.072	1.827	100.2	5.6193	0.0000	SURCHARGED
60 minute summer	MH1	41	95.067	1.954	106.5	5.9995	0.0000	SURCHARGED
60 minute summer	MH1.1	41	95.033	1.998	94.9	3.8133	0.0000	SURCHARGED
60 minute summer	NEW SW 1	41	95.010	3.371	80.0	5.9573	0.0000	SURCHARGED
60 minute summer	EX SW 1	15	91.392	0.142	74.6	0.0000	0.0000	OK
60 minute summer	MH16	41	95.915	0.275	40.7	0.8605	0.0000	OK
60 minute summer	MH14	40	95.920	0.145	11.4	0.2721	0.0000	OK
60 minute summer	MH15	41	95.917	1.199	19.4	3.7876	0.0000	SURCHARGED
60 minute summer	MH17	41	95.917	1.220	59.5	3.6427	0.0000	SURCHARGED
60 minute summer	MH11	40	95.901	1.101	36.9	3.9696	0.0000	SURCHARGED
60 minute summer	MH12	41	95.909	1.259	62.8	4.2649	0.0000	SURCHARGED
60 minute summer	MH10	40	95.922	1.277	50.2	4.9847	0.0000	SURCHARGED
60 minute summer	MH13	41	95.916	1.338	121.6	3.9803	0.0000	SURCHARGED
60 minute summer	MH18	34	94.129	0.129	79.9	0.3845	0.0000	OK
60 minute summer	MH19	41	95.915	1.454	156.5	6.5776	0.0000	SURCHARGED
60 minute summer	EX SW 3	34	93.372	0.105	80.0	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
60 minute summer	MH9	1.000	MH8	45.9	0.713	0.142	12.2825	
60 minute summer	MH8	1.001	MH6	70.9	0.838	0.162	9.9902	
60 minute summer	MH7	2.000	MH6	35.7	0.306	0.082	5.1702	
60 minute summer	MH6	1.002	MH4	83.3	0.950	0.189	5.4121	
60 minute summer	MH5	3.000	MH4	14.9	0.339	0.034	3.4066	
60 minute summer	MH4	1.003	MH2	77.5	0.996	0.176	5.7468	
60 minute summer	MH3	4.000	MH2	15.2	0.233	0.035	3.7536	
60 minute summer	MH2	1.004	MH1	83.9	0.849	0.173	7.4408	
60 minute summer	MH1	1.005	MH1.1	88.4	1.045	0.688	2.0678	
60 minute summer	MH1.1	1.006	NEW SW 1	80.0	1.133	0.567	0.8406	
60 minute summer	NEW SW 1	EX1.000	EX SW 1	74.6	4.237	2.808	0.3056	255.0
60 minute summer	MH16	5.000	MH17	41.2	2.081	0.217	1.5307	
60 minute summer	MH14	6.000	MH15	11.4	1.936	0.275	0.1986	
60 minute summer	MH15	6.001	MH17	19.2	0.308	0.063	2.9641	
60 minute summer	MH17	5.001	MH19	39.5	0.457	0.080	12.9541	
60 minute summer	MH11	7.000	MH12	25.1	0.421	0.055	9.5629	
60 minute summer	MH12	7.001	MH13	40.0	0.516	0.131	10.0990	
60 minute summer	MH10	8.000	MH13	43.3	0.420	0.142	9.4294	
60 minute summer	MH13	7.002	MH19	118.2	0.803	0.146	2.3847	
60 minute summer	MH18	5.003	EX SW 3	80.0	3.846	0.447	0.1303	219.1
60 minute summer	MH19	5.002	MH18	79.9	2.544	0.173	0.2734	

Results for 100 year +40% CC 60 minute winter. 300 minute analysis at 1 minute timestep. Mass balance: 99.98%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute winter	MH9	44	95.444	1.794	40.3	6.7931	0.0000	SURCHARGED
60 minute winter	MH8	44	95.442	1.889	65.8	6.5073	0.0000	SURCHARGED
60 minute winter	MH7	44	95.442	1.961	22.5	6.3094	0.0000	FLOOD RISK
60 minute winter	MH6	44	95.445	2.037	87.7	6.3010	0.0000	SURCHARGED
60 minute winter	MH5	44	95.440	2.063	15.4	6.1320	0.0000	FLOOD RISK
60 minute winter	MH4	44	95.442	2.113	79.4	5.6291	0.0000	SURCHARGED
60 minute winter	MH3	44	95.439	2.141	13.7	6.0436	0.0000	FLOOD RISK
60 minute winter	MH2	44	95.439	2.194	90.5	6.7487	0.0000	SURCHARGED
60 minute winter	MH1	44	95.435	2.322	89.9	7.1286	0.0000	SURCHARGED
60 minute winter	MH1.1	44	95.396	2.361	83.9	4.5064	0.0000	SURCHARGED
60 minute winter	NEW SW 1	44	95.371	3.732	79.2	6.5943	0.0000	FLOOD RISK
60 minute winter	EX SW 1	11	91.392	0.142	78.2	0.0000	0.0000	OK
60 minute winter	MH16	44	96.113	0.473	32.9	1.4772	0.0000	SURCHARGED
60 minute winter	MH14	44	96.115	0.340	9.2	0.6387	0.0000	SURCHARGED
60 minute winter	MH15	44	96.106	1.388	15.7	4.3863	0.0000	SURCHARGED
60 minute winter	MH17	44	96.112	1.415	52.8	4.2239	0.0000	SURCHARGED
60 minute winter	MH11	44	96.112	1.312	29.9	4.7292	0.0000	SURCHARGED
60 minute winter	MH12	44	96.111	1.461	50.6	4.9490	0.0000	SURCHARGED
60 minute winter	MH10	44	96.111	1.466	40.6	5.7214	0.0000	SURCHARGED
60 minute winter	MH13	44	96.109	1.531	107.7	4.5519	0.0000	SURCHARGED
60 minute winter	MH18	34	94.129	0.129	79.9	0.3844	0.0000	OK
60 minute winter	MH19	44	96.108	1.647	136.2	7.4497	0.0000	SURCHARGED
60 minute winter	EX SW 3	34	93.372	0.105	79.9	0.0000	0.0000	OK
Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
60 minute winter	MH9	1.000	MH8	36.3	0.675	0.112	12.2825	
60 minute winter	MH8	1.001	MH6	57.7	0.807	0.131	9.9902	
60 minute winter	MH7	2.000	MH6	23.2	0.309	0.053	5.1702	
60 minute winter	MH6	1.002	MH4	71.8	0.921	0.163	5.4121	
60 minute winter	MH5	3.000	MH4	13.9	0.321	0.032	3.4066	
60 minute winter	MH4	1.003	MH2	69.9	0.970	0.159	5.7468	
60 minute winter	MH3	4.000	MH2	9.4	0.264	0.022	3.7536	
60 minute winter	MH2	1.004	MH1	71.9	0.851	0.148	7.4408	
60 minute winter	MH1	1.005	MH1.1	78.4	1.028	0.610	2.0678	
60 minute winter	MH1.1	1.006	NEW SW 1	79.2	1.150	0.562	0.8406	
60 minute winter	NEW SW 1	EX1.000	EX SW 1	78.2	4.443	2.945	0.3055	286.1
60 minute winter	MH16	5.000	MH17	33.8	1.961	0.178	1.5609	
60 minute winter	MH14	6.000	MH15	9.2	1.831	0.222	0.1996	
60 minute winter	MH15	6.001	MH17	19.6	0.308	0.064	2.9641	
60 minute winter	MH17	5.001	MH19	33.3	0.435	0.068	12.9541	
60 minute winter	MH11	7.000	MH12	22.2	0.417	0.049	9.5629	
60 minute winter	MH12	7.001	MH13	44.9	0.553	0.147	10.0990	
60 minute winter	MH10	8.000	MH13	35.4	0.451	0.116	9.4294	
60 minute winter	MH13	7.002	MH19	102.9	0.788	0.127	2.3847	
60 minute winter	MH18	5.003	EX SW 3	79.9	3.846	0.447	0.1303	245.6
60 minute winter	MH19	5.002	MH18	79.9	2.558	0.173	0.2734	

Results for 100 year +40% CC 120 minute summer. 360 minute analysis at 2 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
120 minute summer	MH9	76	94.530	0.880	32.9	3.3337	0.0000	SURCHARGED
120 minute summer	MH8	76	94.529	0.976	58.3	3.3620	0.0000	SURCHARGED
120 minute summer	MH7	76	94.530	1.049	18.3	3.3760	0.0000	SURCHARGED
120 minute summer	MH6	76	94.528	1.120	77.9	3.4646	0.0000	SURCHARGED
120 minute summer	MH5	76	94.529	1.152	12.6	3.4223	0.0000	SURCHARGED
120 minute summer	MH4	76	94.528	1.199	67.7	3.1936	0.0000	SURCHARGED
120 minute summer	MH3	76	94.526	1.228	11.3	3.4674	0.0000	SURCHARGED
120 minute summer	MH2	76	94.526	1.281	76.5	3.9406	0.0000	SURCHARGED
120 minute summer	MH1	76	94.523	1.410	78.6	4.3289	0.0000	SURCHARGED
120 minute summer	MH1.1	76	94.493	1.458	70.9	2.7831	0.0000	SURCHARGED
120 minute summer	NEW SW 1	76	94.474	2.835	69.3	5.0090	0.0000	SURCHARGED
120 minute summer	EX SW 1	42	91.392	0.142	68.8	0.0000	0.0000	OK
120 minute summer	MH16	64	95.719	0.079	26.9	0.2471	0.0000	OK
120 minute summer	MH14	64	95.820	0.045	7.5	0.0845	0.0000	OK
120 minute summer	MH15	72	95.178	0.460	12.8	1.4546	0.0000	OK
120 minute summer	MH17	72	95.182	0.485	43.8	1.4478	0.0000	OK
120 minute summer	MH11	72	95.182	0.382	24.4	1.3774	0.0000	OK
120 minute summer	MH12	72	95.182	0.532	44.1	1.8023	0.0000	OK
120 minute summer	MH10	72	95.183	0.538	33.2	2.0990	0.0000	OK
120 minute summer	MH13	72	95.184	0.606	84.9	1.8008	0.0000	SURCHARGED
120 minute summer	MH18	72	94.129	0.129	79.9	0.3842	0.0000	OK
120 minute summer	MH19	72	95.179	0.718	153.0	3.2479	0.0000	SURCHARGED
120 minute summer	EX SW 3	72	93.372	0.105	79.9	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
120 minute summer	MH9	1.000	MH8	31.4	0.655	0.097	12.2825	
120 minute summer	MH8	1.001	MH6	51.5	0.769	0.117	9.9902	
120 minute summer	MH7	2.000	MH6	14.0	0.289	0.032	5.1702	
120 minute summer	MH6	1.002	MH4	58.4	0.895	0.133	5.4121	
120 minute summer	MH5	3.000	MH4	11.3	0.323	0.026	3.4066	
120 minute summer	MH4	1.003	MH2	63.1	0.978	0.143	5.7468	
120 minute summer	MH3	4.000	MH2	7.2	0.210	0.017	3.7536	
120 minute summer	MH2	1.004	MH1	66.8	0.843	0.137	7.4408	
120 minute summer	MH1	1.005	MH1.1	68.0	1.002	0.529	2.0678	
120 minute summer	MH1.1	1.006	NEW SW 1	69.3	1.120	0.491	0.8406	
120 minute summer	NEW SW 1	EX1.000	EX SW 1	68.8	3.910	2.592	0.3054	316.8
120 minute summer	MH16	5.000	MH17	26.9	1.872	0.142	0.6104	
120 minute summer	MH14	6.000	MH15	7.5	1.734	0.181	0.0490	
120 minute summer	MH15	6.001	MH17	16.9	0.307	0.055	2.5045	
120 minute summer	MH17	5.001	MH19	34.3	0.369	0.070	12.0874	
120 minute summer	MH11	7.000	MH12	18.4	0.399	0.040	7.7004	
120 minute summer	MH12	7.001	MH13	35.8	0.468	0.117	9.7852	
120 minute summer	MH10	8.000	MH13	30.8	0.372	0.101	9.1719	
120 minute summer	MH13	7.002	MH19	118.7	0.728	0.147	2.3845	
120 minute summer	MH18	5.003	EX SW 3	79.9	3.846	0.446	0.1302	273.2
120 minute summer	MH19	5.002	MH18	79.9	2.547	0.173	0.2732	

Results for 100 year +40% CC 120 minute winter. 360 minute analysis at 2 minute timestep. Mass balance: 99.99%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
120 minute winter	MH9	80	94.551	0.901	25.4	3.4121	0.0000	SURCHARGED
120 minute winter	MH8	80	94.550	0.997	43.7	3.4330	0.0000	SURCHARGED
120 minute winter	MH7	80	94.550	1.069	14.1	3.4400	0.0000	SURCHARGED
120 minute winter	MH6	80	94.550	1.142	60.4	3.5325	0.0000	SURCHARGED
120 minute winter	MH5	80	94.549	1.172	9.7	3.4818	0.0000	SURCHARGED
120 minute winter	MH4	80	94.549	1.220	60.6	3.2495	0.0000	SURCHARGED
120 minute winter	MH3	80	94.547	1.249	8.0	3.5254	0.0000	SURCHARGED
120 minute winter	MH2	80	94.547	1.302	66.0	4.0050	0.0000	SURCHARGED
120 minute winter	MH1	80	94.544	1.431	71.5	4.3926	0.0000	SURCHARGED
120 minute winter	MH1.1	80	94.513	1.478	70.4	2.8216	0.0000	SURCHARGED
120 minute winter	NEW SW 1	80	94.494	2.855	69.4	5.0444	0.0000	SURCHARGED
120 minute winter	EX SW 1	36	91.392	0.142	69.1	0.0000	0.0000	OK
120 minute winter	MH16	64	95.709	0.069	20.7	0.2154	0.0000	OK
120 minute winter	MH14	64	95.814	0.039	5.8	0.0738	0.0000	OK
120 minute winter	MH15	74	95.084	0.366	9.9	1.1574	0.0000	OK
120 minute winter	MH17	74	95.084	0.387	35.2	1.1547	0.0000	OK
120 minute winter	MH11	74	95.085	0.285	18.8	1.0282	0.0000	OK
120 minute winter	MH12	74	95.085	0.435	36.3	1.4742	0.0000	OK
120 minute winter	MH10	74	95.085	0.440	25.6	1.7173	0.0000	OK
120 minute winter	MH13	74	95.084	0.506	93.2	1.5048	0.0000	OK
120 minute winter	MH18	74	94.128	0.128	79.2	0.3819	0.0000	OK
120 minute winter	MH19	74	95.085	0.624	147.3	2.8210	0.0000	SURCHARGED
120 minute winter	EX SW 3	74	93.371	0.104	79.2	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
120 minute winter	MH9	1.000	MH8	23.7	0.612	0.074	12.2825	
120 minute winter	MH8	1.001	MH6	39.7	0.746	0.090	9.9902	
120 minute winter	MH7	2.000	MH6	10.7	0.283	0.025	5.1702	
120 minute winter	MH6	1.002	MH4	52.7	0.878	0.120	5.4121	
120 minute winter	MH5	3.000	MH4	7.4	0.265	0.017	3.4066	
120 minute winter	MH4	1.003	MH2	54.7	0.956	0.124	5.7468	
120 minute winter	MH3	4.000	MH2	5.7	0.152	0.013	3.7536	
120 minute winter	MH2	1.004	MH1	61.4	0.836	0.126	7.4408	
120 minute winter	MH1	1.005	MH1.1	67.6	1.004	0.526	2.0678	
120 minute winter	MH1.1	1.006	NEW SW 1	69.4	1.124	0.492	0.8406	
120 minute winter	NEW SW 1	EX1.000	EX SW 1	69.1	3.923	2.600	0.3054	354.6
120 minute winter	MH16	5.000	MH17	20.7	1.743	0.109	0.2937	
120 minute winter	MH14	6.000	MH15	5.8	1.617	0.140	0.0407	
120 minute winter	MH15	6.001	MH17	14.5	0.293	0.048	1.9582	
120 minute winter	MH17	5.001	MH19	29.5	0.378	0.060	10.8921	
120 minute winter	MH11	7.000	MH12	16.3	0.394	0.036	5.9589	
120 minute winter	MH12	7.001	MH13	34.0	0.479	0.111	8.4712	
120 minute winter	MH10	8.000	MH13	27.2	0.388	0.089	7.9514	
120 minute winter	MH13	7.002	MH19	120.5	0.797	0.149	2.2657	
120 minute winter	MH18	5.003	EX SW 3	79.2	3.839	0.442	0.1293	303.5
120 minute winter	MH19	5.002	MH18	79.2	2.542	0.171	0.2711	

Results for 100 year +40% CC 180 minute summer. 420 minute analysis at 4 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
180 minute summer	MH9	108	94.024	0.374	24.5	1.4166	0.0000	OK
180 minute summer	MH8	108	94.023	0.470	44.0	1.6180	0.0000	OK
180 minute summer	MH7	108	94.022	0.541	13.7	1.7422	0.0000	OK
180 minute summer	MH6	108	94.021	0.613	65.8	1.8970	0.0000	SURCHARGED
180 minute summer	MH5	108	94.021	0.644	9.4	1.9146	0.0000	SURCHARGED
180 minute summer	MH4	108	94.021	0.692	59.3	1.8431	0.0000	SURCHARGED
180 minute summer	MH3	108	94.019	0.721	6.2	2.0355	0.0000	SURCHARGED
180 minute summer	MH2	108	94.019	0.774	63.8	2.3816	0.0000	SURCHARGED
180 minute summer	MH1	108	94.017	0.904	67.9	2.7738	0.0000	SURCHARGED
180 minute summer	MH1.1	108	93.990	0.955	64.3	1.8233	0.0000	SURCHARGED
180 minute summer	NEW SW 1	108	93.974	2.335	63.5	4.1255	0.0000	SURCHARGED
180 minute summer	EX SW 1	148	91.392	0.142	63.0	0.0000	0.0000	OK
180 minute summer	MH16	96	95.708	0.068	20.0	0.2116	0.0000	OK
180 minute summer	MH14	96	95.814	0.039	5.6	0.0724	0.0000	OK
180 minute summer	MH15	104	94.998	0.280	9.5	0.8853	0.0000	OK
180 minute summer	MH17	100	94.999	0.302	28.5	0.9012	0.0000	OK
180 minute summer	MH11	104	94.999	0.199	18.2	0.7167	0.0000	OK
180 minute summer	MH12	104	94.999	0.349	35.4	1.1823	0.0000	OK
180 minute summer	MH10	104	94.998	0.353	24.7	1.3794	0.0000	OK
180 minute summer	MH13	100	95.007	0.429	62.2	1.2760	0.0000	OK
180 minute summer	MH18	104	94.126	0.126	77.8	0.3771	0.0000	OK
180 minute summer	MH19	104	95.000	0.539	133.5	2.4372	0.0000	SURCHARGED
180 minute summer	EX SW 3	104	93.370	0.103	77.8	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
180 minute summer	MH9	1.000	MH8	24.0	0.622	0.074	9.1888	
180 minute summer	MH8	1.001	MH6	42.9	0.750	0.098	9.1932	
180 minute summer	MH7	2.000	MH6	10.7	0.287	0.025	5.0417	
180 minute summer	MH6	1.002	MH4	54.2	0.873	0.123	5.4121	
180 minute summer	MH5	3.000	MH4	6.7	0.206	0.015	3.4066	
180 minute summer	MH4	1.003	MH2	52.3	0.921	0.119	5.7468	
180 minute summer	MH3	4.000	MH2	5.4	0.182	0.012	3.7536	
180 minute summer	MH2	1.004	MH1	56.8	0.832	0.117	7.4408	
180 minute summer	MH1	1.005	MH1.1	61.7	1.016	0.480	2.0678	
180 minute summer	MH1.1	1.006	NEW SW 1	63.5	1.080	0.450	0.8406	
180 minute summer	NEW SW 1	EX1.000	EX SW 1	63.0	3.579	2.372	0.3055	353.1
180 minute summer	MH16	5.000	MH17	20.0	1.727	0.105	0.2567	
180 minute summer	MH14	6.000	MH15	5.6	1.602	0.135	0.0396	
180 minute summer	MH15	6.001	MH17	11.4	0.293	0.037	1.4168	
180 minute summer	MH17	5.001	MH19	28.4	0.359	0.058	9.3581	
180 minute summer	MH11	7.000	MH12	16.1	0.393	0.035	4.2705	
180 minute summer	MH12	7.001	MH13	31.3	0.464	0.102	6.8826	
180 minute summer	MH10	8.000	MH13	22.5	0.373	0.074	6.4620	
180 minute summer	MH13	7.002	MH19	109.9	0.810	0.136	2.0145	
180 minute summer	MH18	5.003	EX SW 3	77.8	3.828	0.435	0.1274	298.3
180 minute summer	MH19	5.002	MH18	77.8	2.550	0.168	0.2666	

Results for 100 year +40% CC 180 minute winter. 420 minute analysis at 4 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
180 minute winter	MH9	116	93.912	0.262	18.9	0.9932	0.0000	OK
180 minute winter	MH8	116	93.912	0.359	34.3	1.2356	0.0000	OK
180 minute winter	MH7	116	93.912	0.431	10.5	1.3854	0.0000	OK
180 minute winter	MH6	116	93.911	0.503	49.2	1.5572	0.0000	OK
180 minute winter	MH5	116	93.911	0.534	7.2	1.5865	0.0000	OK
180 minute winter	MH4	116	93.911	0.582	54.4	1.5499	0.0000	OK
180 minute winter	MH3	116	93.909	0.611	4.8	1.7261	0.0000	SURCHARGED
180 minute winter	MH2	116	93.909	0.664	61.0	2.0438	0.0000	SURCHARGED
180 minute winter	MH1	116	93.907	0.794	64.3	2.4376	0.0000	SURCHARGED
180 minute winter	MH1.1	116	93.883	0.848	61.9	1.6181	0.0000	SURCHARGED
180 minute winter	NEW SW 1	116	93.867	2.228	61.8	3.9374	0.0000	SURCHARGED
180 minute winter	EX SW 1	60	91.392	0.142	61.7	0.0000	0.0000	OK
180 minute winter	MH16	96	95.699	0.059	15.4	0.1850	0.0000	OK
180 minute winter	MH14	96	95.809	0.034	4.3	0.0631	0.0000	OK
180 minute winter	MH15	104	94.912	0.194	7.3	0.6132	0.0000	OK
180 minute winter	MH17	100	94.912	0.215	25.6	0.6420	0.0000	OK
180 minute winter	MH11	100	94.912	0.112	14.0	0.4041	0.0000	OK
180 minute winter	MH12	104	94.912	0.262	28.5	0.8879	0.0000	OK
180 minute winter	MH10	104	94.912	0.267	19.1	1.0407	0.0000	OK
180 minute winter	MH13	100	94.920	0.342	90.9	1.0158	0.0000	OK
180 minute winter	MH18	104	94.123	0.123	75.0	0.3664	0.0000	OK
180 minute winter	MH19	104	94.920	0.459	130.7	2.0744	0.0000	SURCHARGED
180 minute winter	EX SW 3	104	93.367	0.100	74.3	0.0000	0.0000	OK
Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
180 minute winter	MH9	1.000	MH8	18.9	0.574	0.059	6.4132	
180 minute winter	MH8	1.001	MH6	32.4	0.720	0.074	7.5950	
180 minute winter	MH7	2.000	MH6	9.2	0.277	0.021	4.3034	
180 minute winter	MH6	1.002	MH4	46.8	0.854	0.106	5.1087	
180 minute winter	MH5	3.000	MH4	5.9	0.230	0.014	3.2904	
180 minute winter	MH4	1.003	MH2	49.6	0.932	0.113	5.7224	
180 minute winter	MH3	4.000	MH2	4.7	0.129	0.011	3.7536	
180 minute winter	MH2	1.004	MH1	56.0	0.820	0.115	7.4408	
180 minute winter	MH1	1.005	MH1.1	59.8	1.005	0.465	2.0678	
180 minute winter	MH1.1	1.006	NEW SW 1	61.8	1.129	0.438	0.8406	
180 minute winter	NEW SW 1	EX1.000	EX SW 1	61.7	3.504	2.323	0.3054	396.4
180 minute winter	MH16	5.000	MH17	15.4	1.605	0.081	0.2127	
180 minute winter	MH14	6.000	MH15	4.3	1.490	0.104	0.0327	
180 minute winter	MH15	6.001	MH17	10.3	0.287	0.034	0.8801	
180 minute winter	MH17	5.001	MH19	26.4	0.360	0.054	7.3464	
180 minute winter	MH11	7.000	MH12	13.6	0.380	0.030	2.6189	
180 minute winter	MH12	7.001	MH13	31.5	0.466	0.103	5.0830	
180 minute winter	MH10	8.000	MH13	24.0	0.374	0.078	4.7803	
180 minute winter	MH13	7.002	MH19	104.3	0.817	0.129	1.6334	
180 minute winter	MH18	5.003	EX SW 3	74.3	3.806	0.415	0.1231	336.9
180 minute winter	MH19	5.002	MH18	75.0	2.531	0.162	0.2577	

Results for 100 year +40% CC 240 minute summer. 480 minute analysis at 4 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
240 minute summer	MH9	140	93.827	0.177	20.7	0.6690	0.0000	OK
240 minute summer	MH8	140	93.828	0.275	37.4	0.9460	0.0000	OK
240 minute summer	MH7	140	93.828	0.347	11.5	1.1156	0.0000	OK
240 minute summer	MH6	140	93.827	0.419	54.4	1.2972	0.0000	OK
240 minute summer	MH5	140	93.827	0.450	7.9	1.3367	0.0000	OK
240 minute summer	MH4	140	93.827	0.498	56.6	1.3260	0.0000	OK
240 minute summer	MH3	140	93.826	0.528	5.2	1.4893	0.0000	OK
240 minute summer	MH2	140	93.826	0.581	62.7	1.7858	0.0000	OK
240 minute summer	MH1	140	93.823	0.710	65.2	2.1803	0.0000	SURCHARGED
240 minute summer	MH1.1	140	93.799	0.764	60.9	1.4592	0.0000	SURCHARGED
240 minute summer	NEW SW 1	140	93.785	2.146	60.7	3.7912	0.0000	SURCHARGED
240 minute summer	EX SW 1	96	91.392	0.142	60.6	0.0000	0.0000	OK
240 minute summer	MH16	124	95.702	0.062	16.9	0.1936	0.0000	OK
240 minute summer	MH14	124	95.810	0.035	4.7	0.0660	0.0000	OK
240 minute summer	MH15	128	94.917	0.199	8.0	0.6276	0.0000	OK
240 minute summer	MH17	132	94.917	0.220	27.8	0.6560	0.0000	OK
240 minute summer	MH11	132	94.917	0.117	15.3	0.4234	0.0000	OK
240 minute summer	MH12	132	94.917	0.266	29.6	0.9026	0.0000	OK
240 minute summer	MH10	128	94.916	0.270	20.8	1.0557	0.0000	OK
240 minute summer	MH13	132	94.922	0.344	90.8	1.0244	0.0000	OK
240 minute summer	MH18	128	94.121	0.121	75.5	0.3627	0.0000	OK
240 minute summer	MH19	128	94.931	0.470	116.8	2.1281	0.0000	SURCHARGED
240 minute summer	EX SW 3	136	93.366	0.099	72.8	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
240 minute summer	MH9	1.000	MH8	20.5	0.596	0.064	4.2491	
240 minute summer	MH8	1.001	MH6	37.0	0.725	0.084	5.9602	
240 minute summer	MH7	2.000	MH6	9.6	0.278	0.022	3.4788	
240 minute summer	MH6	1.002	MH4	50.2	0.864	0.114	4.4221	
240 minute summer	MH5	3.000	MH4	5.9	0.210	0.014	2.8817	
240 minute summer	MH4	1.003	MH2	52.4	0.937	0.119	5.3961	
240 minute summer	MH3	4.000	MH2	4.6	0.153	0.011	3.6084	
240 minute summer	MH2	1.004	MH1	56.0	0.820	0.115	7.4062	
240 minute summer	MH1	1.005	MH1.1	58.8	1.006	0.457	2.0678	
240 minute summer	MH1.1	1.006	NEW SW 1	60.7	1.129	0.430	0.8406	
240 minute summer	NEW SW 1	EX1.000	EX SW 1	60.6	3.445	2.284	0.3054	379.7
240 minute summer	MH16	5.000	MH17	16.8	1.645	0.089	0.2267	
240 minute summer	MH14	6.000	MH15	4.7	1.524	0.113	0.0348	
240 minute summer	MH15	6.001	MH17	10.9	0.289	0.036	0.9099	
240 minute summer	MH17	5.001	MH19	24.8	0.353	0.050	7.5012	
240 minute summer	MH11	7.000	MH12	14.1	0.384	0.031	2.7103	
240 minute summer	MH12	7.001	MH13	32.2	0.471	0.105	5.1666	
240 minute summer	MH10	8.000	MH13	25.4	0.377	0.083	4.8582	
240 minute summer	MH13	7.002	MH19	97.3	0.792	0.120	1.6600	
240 minute summer	MH18	5.003	EX SW 3	72.8	3.801	0.407	0.1213	326.4
240 minute summer	MH19	5.002	MH18	75.5	2.543	0.163	0.2582	

Results for 100 year +40% CC 240 minute winter. 480 minute analysis at 4 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
240 minute winter	MH9	124	93.737	0.087	15.4	0.3301	0.0000	OK
240 minute winter	MH8	144	93.692	0.139	28.0	0.4791	0.0000	OK
240 minute winter	MH7	144	93.691	0.210	8.6	0.6771	0.0000	OK
240 minute winter	MH6	144	93.691	0.283	43.3	0.8766	0.0000	OK
240 minute winter	MH5	144	93.690	0.313	5.9	0.9313	0.0000	OK
240 minute winter	MH4	144	93.690	0.361	48.3	0.9626	0.0000	OK
240 minute winter	MH3	144	93.689	0.391	3.9	1.1046	0.0000	OK
240 minute winter	MH2	144	93.689	0.444	56.8	1.3665	0.0000	OK
240 minute winter	MH1	144	93.688	0.575	60.6	1.7649	0.0000	SURCHARGED
240 minute winter	MH1.1	144	93.666	0.631	59.0	1.2036	0.0000	SURCHARGED
240 minute winter	NEW SW 1	144	93.651	2.012	58.9	3.5561	0.0000	SURCHARGED
240 minute winter	EX SW 1	84	91.392	0.142	58.9	0.0000	0.0000	OK
240 minute winter	MH16	124	95.693	0.053	12.6	0.1672	0.0000	OK
240 minute winter	MH14	124	95.805	0.030	3.5	0.0568	0.0000	OK
240 minute winter	MH15	132	94.851	0.133	6.0	0.4214	0.0000	OK
240 minute winter	MH17	132	94.852	0.155	18.4	0.4633	0.0000	OK
240 minute winter	MH11	124	94.864	0.064	11.4	0.2316	0.0000	OK
240 minute winter	MH12	132	94.852	0.202	23.5	0.6838	0.0000	OK
240 minute winter	MH10	132	94.850	0.205	15.5	0.8001	0.0000	OK
240 minute winter	MH13	128	94.857	0.279	80.5	0.8297	0.0000	OK
240 minute winter	MH18	116	94.108	0.108	62.2	0.3224	0.0000	OK
240 minute winter	MH19	120	94.852	0.391	137.1	1.7700	0.0000	SURCHARGED
240 minute winter	EX SW 3	116	93.357	0.090	60.9	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
240 minute winter	MH9	1.000	MH8	15.4	0.548	0.048	1.5488	
240 minute winter	MH8	1.001	MH6	27.9	0.699	0.064	3.1982	
240 minute winter	MH7	2.000	MH6	8.3	0.280	0.019	2.0099	
240 minute winter	MH6	1.002	MH4	42.4	0.839	0.096	2.9612	
240 minute winter	MH5	3.000	MH4	5.1	0.210	0.012	1.9722	
240 minute winter	MH4	1.003	MH2	46.1	0.937	0.105	4.0909	
240 minute winter	MH3	4.000	MH2	4.6	0.132	0.011	2.7874	
240 minute winter	MH2	1.004	MH1	52.9	0.820	0.109	6.6228	
240 minute winter	MH1	1.005	MH1.1	57.0	0.992	0.443	2.0678	
240 minute winter	MH1.1	1.006	NEW SW 1	58.9	1.112	0.418	0.8406	
240 minute winter	NEW SW 1	EX1.000	EX SW 1	58.9	3.348	2.219	0.3054	425.7
240 minute winter	MH16	5.000	MH17	12.6	1.515	0.066	0.1842	
240 minute winter	MH14	6.000	MH15	3.5	1.405	0.085	0.0282	
240 minute winter	MH15	6.001	MH17	6.5	0.283	0.021	0.5481	
240 minute winter	MH17	5.001	MH19	24.2	0.274	0.049	5.7494	
240 minute winter	MH11	7.000	MH12	11.4	0.372	0.025	1.6783	
240 minute winter	MH12	7.001	MH13	23.7	0.464	0.078	3.7737	
240 minute winter	MH10	8.000	MH13	18.2	0.373	0.059	3.5502	
240 minute winter	MH13	7.002	MH19	112.9	0.783	0.139	1.3506	
240 minute winter	MH18	5.003	EX SW 3	60.9	3.647	0.340	0.1054	360.0
240 minute winter	MH19	5.002	MH18	62.2	2.480	0.135	0.2181	

Results for 100 year +40% CC 360 minute summer. 600 minute analysis at 8 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
360 minute summer	MH9	184	93.737	0.087	15.6	0.3309	0.0000	OK
360 minute summer	MH8	184	93.653	0.100	28.1	0.3456	0.0000	OK
360 minute summer	MH7	200	93.593	0.112	8.7	0.3595	0.0000	OK
360 minute summer	MH6	200	93.592	0.184	44.3	0.5704	0.0000	OK
360 minute summer	MH5	200	93.590	0.213	6.0	0.6339	0.0000	OK
360 minute summer	MH4	200	93.590	0.261	50.1	0.6958	0.0000	OK
360 minute summer	MH3	200	93.589	0.291	3.9	0.8201	0.0000	OK
360 minute summer	MH2	200	93.588	0.343	54.4	1.0565	0.0000	OK
360 minute summer	MH1	200	93.587	0.474	61.2	1.4555	0.0000	SURCHARGED
360 minute summer	MH1.1	200	93.566	0.531	58.3	1.0132	0.0000	SURCHARGED
360 minute summer	NEW SW 1	200	93.552	1.913	57.6	3.3809	0.0000	SURCHARGED
360 minute summer	EX SW 1	152	91.392	0.142	57.6	0.0000	0.0000	OK
360 minute summer	MH16	184	95.694	0.054	12.7	0.1676	0.0000	OK
360 minute summer	MH14	184	95.806	0.031	3.6	0.0575	0.0000	OK
360 minute summer	MH15	192	94.838	0.120	6.1	0.3794	0.0000	OK
360 minute summer	MH17	192	94.840	0.143	17.9	0.4270	0.0000	OK
360 minute summer	MH11	184	94.864	0.064	11.5	0.2319	0.0000	OK
360 minute summer	MH12	192	94.838	0.188	23.7	0.6369	0.0000	OK
360 minute summer	MH10	192	94.836	0.191	15.7	0.7444	0.0000	OK
360 minute summer	MH13	192	94.845	0.267	81.2	0.7954	0.0000	OK
360 minute summer	MH18	184	94.106	0.106	62.8	0.3153	0.0000	OK
360 minute summer	MH19	184	94.863	0.402	128.2	1.8167	0.0000	SURCHARGED
360 minute summer	EX SW 3	200	93.356	0.089	59.3	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
360 minute summer	MH9	1.000	MH8	15.4	0.551	0.048	1.2260	
360 minute summer	MH8	1.001	MH6	27.8	0.707	0.063	1.7467	
360 minute summer	MH7	2.000	MH6	8.6	0.276	0.020	1.0053	
360 minute summer	MH6	1.002	MH4	43.9	0.837	0.100	1.8362	
360 minute summer	MH5	3.000	MH4	5.0	0.149	0.011	1.2543	
360 minute summer	MH4	1.003	MH2	45.6	0.940	0.104	2.9021	
360 minute summer	MH3	4.000	MH2	3.8	0.103	0.009	2.0118	
360 minute summer	MH2	1.004	MH1	54.0	0.810	0.111	5.3575	
360 minute summer	MH1	1.005	MH1.1	56.2	0.989	0.437	2.0678	
360 minute summer	MH1.1	1.006	NEW SW 1	57.6	1.109	0.408	0.8406	
360 minute summer	NEW SW 1	EX1.000	EX SW 1	57.6	3.274	2.170	0.3054	417.7
360 minute summer	MH16	5.000	MH17	12.6	1.517	0.067	0.1848	
360 minute summer	MH14	6.000	MH15	3.6	1.415	0.087	0.0287	
360 minute summer	MH15	6.001	MH17	6.2	0.284	0.020	0.4810	
360 minute summer	MH17	5.001	MH19	22.7	0.225	0.046	5.6191	
360 minute summer	MH11	7.000	MH12	11.4	0.363	0.025	1.5320	
360 minute summer	MH12	7.001	MH13	23.7	0.458	0.077	3.5292	
360 minute summer	MH10	8.000	MH13	18.2	0.366	0.059	3.3203	
360 minute summer	MH13	7.002	MH19	105.6	0.754	0.130	1.2838	
360 minute summer	MH18	5.003	EX SW 3	59.3	3.650	0.332	0.1020	367.8
360 minute summer	MH19	5.002	MH18	62.8	2.488	0.136	0.2196	

Results for 100 year +40% CC 360 minute winter. 600 minute analysis at 8 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
360 minute winter	MH9	184	93.725	0.075	11.4	0.2858	0.0000	OK
360 minute winter	MH8	184	93.640	0.087	20.7	0.2986	0.0000	OK
360 minute winter	MH7	184	93.531	0.050	6.3	0.1603	0.0000	OK
360 minute winter	MH6	184	93.524	0.116	32.6	0.3594	0.0000	OK
360 minute winter	MH5	184	93.454	0.077	4.3	0.2298	0.0000	OK
360 minute winter	MH4	184	93.454	0.125	38.1	0.3329	0.0000	OK
360 minute winter	MH3	184	93.370	0.072	2.9	0.2030	0.0000	OK
360 minute winter	MH2	184	93.370	0.125	46.9	0.3836	0.0000	OK
360 minute winter	MH1	192	93.311	0.198	53.0	0.6073	0.0000	OK
360 minute winter	MH1.1	192	93.280	0.245	54.3	0.4674	0.0000	OK
360 minute winter	NEW SW 1	192	93.265	1.626	53.7	2.8736	0.0000	SURCHARGED
360 minute winter	EX SW 1	136	91.392	0.142	53.7	0.0000	0.0000	OK
360 minute winter	MH16	184	95.686	0.046	9.3	0.1435	0.0000	OK
360 minute winter	MH14	184	95.801	0.026	2.6	0.0490	0.0000	OK
360 minute winter	MH15	192	94.787	0.069	4.4	0.2193	0.0000	OK
360 minute winter	MH17	184	94.783	0.086	14.2	0.2562	0.0000	OK
360 minute winter	MH11	184	94.856	0.056	8.4	0.2003	0.0000	OK
360 minute winter	MH12	192	94.784	0.134	17.3	0.4555	0.0000	OK
360 minute winter	MH10	192	94.782	0.137	11.4	0.5363	0.0000	OK
360 minute winter	MH13	200	94.788	0.210	69.2	0.6241	0.0000	OK
360 minute winter	MH18	184	94.092	0.092	48.1	0.2741	0.0000	OK
360 minute winter	MH19	192	94.803	0.342	107.7	1.5466	0.0000	OK
360 minute winter	EX SW 3	184	93.347	0.080	49.1	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
360 minute winter	MH9	1.000	MH8	11.4	0.501	0.035	0.9910	
360 minute winter	MH8	1.001	MH6	20.6	0.656	0.047	1.1215	
360 minute winter	MH7	2.000	MH6	6.3	0.269	0.015	0.4521	
360 minute winter	MH6	1.002	MH4	32.5	0.807	0.074	0.7746	
360 minute winter	MH5	3.000	MH4	4.3	0.143	0.010	0.3844	
360 minute winter	MH4	1.003	MH2	38.1	0.906	0.086	0.8641	
360 minute winter	MH3	4.000	MH2	2.9	0.097	0.007	0.4086	
360 minute winter	MH2	1.004	MH1	46.9	0.814	0.096	1.6112	
360 minute winter	MH1	1.005	MH1.1	52.6	0.997	0.409	1.2668	
360 minute winter	MH1.1	1.006	NEW SW 1	53.7	1.121	0.381	0.6118	
360 minute winter	NEW SW 1	EX1.000	EX SW 1	53.7	3.049	2.021	0.3054	468.1
360 minute winter	MH16	5.000	MH17	9.3	1.390	0.049	0.1481	
360 minute winter	MH14	6.000	MH15	2.6	1.289	0.063	0.0228	
360 minute winter	MH15	6.001	MH17	5.0	0.279	0.016	0.2241	
360 minute winter	MH17	5.001	MH19	19.0	0.229	0.039	4.3774	
360 minute winter	MH11	7.000	MH12	8.4	0.366	0.018	1.0165	
360 minute winter	MH12	7.001	MH13	21.7	0.456	0.071	2.3904	
360 minute winter	MH10	8.000	MH13	16.5	0.361	0.054	2.2414	
360 minute winter	MH13	7.002	MH19	88.7	0.787	0.110	1.0192	
360 minute winter	MH18	5.003	EX SW 3	49.1	3.523	0.274	0.0875	400.0
360 minute winter	MH19	5.002	MH18	48.1	2.381	0.104	0.1758	

Results for 100 year +40% CC 480 minute summer. 720 minute analysis at 8 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
480 minute summer	MH9	248	93.728	0.078	12.2	0.2957	0.0000	OK
480 minute summer	MH8	248	93.643	0.090	22.2	0.3096	0.0000	OK
480 minute summer	MH7	248	93.533	0.052	6.8	0.1663	0.0000	OK
480 minute summer	MH6	248	93.529	0.121	35.1	0.3744	0.0000	OK
480 minute summer	MH5	248	93.460	0.083	4.7	0.2457	0.0000	OK
480 minute summer	MH4	248	93.459	0.130	41.1	0.3472	0.0000	OK
480 minute summer	MH3	256	93.389	0.091	3.1	0.2580	0.0000	OK
480 minute summer	MH2	256	93.389	0.144	50.0	0.4433	0.0000	OK
480 minute summer	MH1	256	93.388	0.275	55.6	0.8449	0.0000	OK
480 minute summer	MH1.1	256	93.374	0.339	56.5	0.6462	0.0000	OK
480 minute summer	NEW SW 1	256	93.363	1.724	55.2	3.0469	0.0000	SURCHARGED
480 minute summer	EX SW 1	208	91.392	0.142	55.1	0.0000	0.0000	OK
480 minute summer	MH16	248	95.688	0.048	10.0	0.1489	0.0000	OK
480 minute summer	MH14	248	95.802	0.027	2.8	0.0508	0.0000	OK
480 minute summer	MH15	248	94.796	0.078	4.8	0.2480	0.0000	OK
480 minute summer	MH17	248	94.799	0.102	15.2	0.3049	0.0000	OK
480 minute summer	MH11	248	94.857	0.057	9.0	0.2070	0.0000	OK
480 minute summer	MH12	248	94.795	0.145	18.6	0.4904	0.0000	OK
480 minute summer	MH10	248	94.790	0.145	12.3	0.5676	0.0000	OK
480 minute summer	MH13	248	94.816	0.238	77.4	0.7064	0.0000	OK
480 minute summer	MH18	256	94.099	0.099	51.7	0.2956	0.0000	OK
480 minute summer	MH19	256	94.796	0.335	114.5	1.5140	0.0000	OK
480 minute summer	EX SW 3	256	93.352	0.085	54.5	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
480 minute summer	MH9	1.000	MH8	12.2	0.511	0.038	1.0422	
480 minute summer	MH8	1.001	MH6	22.2	0.669	0.051	1.1857	
480 minute summer	MH7	2.000	MH6	6.8	0.275	0.016	0.4786	
480 minute summer	MH6	1.002	MH4	35.1	0.821	0.080	0.8217	
480 minute summer	MH5	3.000	MH4	4.7	0.140	0.011	0.4134	
480 minute summer	MH4	1.003	MH2	41.0	0.906	0.093	0.9552	
480 minute summer	MH3	4.000	MH2	3.0	0.097	0.007	0.5258	
480 minute summer	MH2	1.004	MH1	49.1	0.814	0.101	2.3506	
480 minute summer	MH1	1.005	MH1.1	54.6	0.983	0.424	1.7946	
480 minute summer	MH1.1	1.006	NEW SW 1	55.2	1.101	0.391	0.8168	
480 minute summer	NEW SW 1	EX1.000	EX SW 1	55.1	3.127	2.073	0.3054	447.9
480 minute summer	MH16	5.000	MH17	10.0	1.420	0.053	0.1562	
480 minute summer	MH14	6.000	MH15	2.8	1.318	0.068	0.0241	
480 minute summer	MH15	6.001	MH17	5.2	0.282	0.017	0.2806	
480 minute summer	MH17	5.001	MH19	19.3	0.229	0.039	4.3395	
480 minute summer	MH11	7.000	MH12	9.0	0.360	0.020	1.1192	
480 minute summer	MH12	7.001	MH13	22.3	0.468	0.073	2.7967	
480 minute summer	MH10	8.000	MH13	16.0	0.376	0.052	2.6169	
480 minute summer	MH13	7.002	MH19	95.2	0.809	0.118	1.0497	
480 minute summer	MH18	5.003	EX SW 3	54.5	3.576	0.304	0.0955	375.9
480 minute summer	MH19	5.002	MH18	51.7	2.393	0.112	0.1880	

Results for 100 year +40% CC 480 minute winter. 720 minute analysis at 8 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
480 minute winter	MH9	248	93.718	0.068	9.1	0.2575	0.0000	OK
480 minute winter	MH8	248	93.631	0.078	16.5	0.2686	0.0000	OK
480 minute winter	MH7	248	93.526	0.045	5.1	0.1454	0.0000	OK
480 minute winter	MH6	248	93.512	0.104	26.2	0.3203	0.0000	OK
480 minute winter	MH5	248	93.441	0.064	3.5	0.1902	0.0000	OK
480 minute winter	MH4	248	93.441	0.112	30.7	0.2974	0.0000	OK
480 minute winter	MH3	248	93.357	0.059	2.3	0.1666	0.0000	OK
480 minute winter	MH2	248	93.357	0.112	37.7	0.3440	0.0000	OK
480 minute winter	MH1	248	93.273	0.160	42.6	0.4918	0.0000	OK
480 minute winter	MH1.1	248	93.193	0.158	44.0	0.3019	0.0000	OK
480 minute winter	NEW SW 1	248	92.650	1.011	44.0	1.7870	0.0000	SURCHARGED
480 minute winter	EX SW 1	192	91.392	0.142	44.0	0.0000	0.0000	OK
480 minute winter	MH16	248	95.681	0.041	7.4	0.1283	0.0000	OK
480 minute winter	MH14	248	95.798	0.023	2.1	0.0440	0.0000	OK
480 minute winter	MH15	248	94.768	0.050	3.6	0.1577	0.0000	OK
480 minute winter	MH17	240	94.760	0.063	11.0	0.1893	0.0000	OK
480 minute winter	MH11	248	94.850	0.050	6.7	0.1803	0.0000	OK
480 minute winter	MH12	248	94.750	0.100	13.8	0.3395	0.0000	OK
480 minute winter	MH10	248	94.747	0.102	9.2	0.3962	0.0000	OK
480 minute winter	MH13	256	94.761	0.183	36.5	0.5447	0.0000	OK
480 minute winter	MH18	264	94.085	0.085	43.0	0.2524	0.0000	OK
480 minute winter	MH19	248	94.773	0.312	71.5	1.4136	0.0000	OK
480 minute winter	EX SW 3	264	93.340	0.073	41.5	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
480 minute winter	MH9	1.000	MH8	9.1	0.468	0.028	0.8484	
480 minute winter	MH8	1.001	MH6	16.5	0.617	0.038	0.9535	
480 minute winter	MH7	2.000	MH6	5.1	0.255	0.012	0.3848	
480 minute winter	MH6	1.002	MH4	26.2	0.766	0.060	0.6574	
480 minute winter	MH5	3.000	MH4	3.5	0.138	0.008	0.3149	
480 minute winter	MH4	1.003	MH2	30.7	0.850	0.070	0.7370	
480 minute winter	MH3	4.000	MH2	2.3	0.100	0.005	0.3359	
480 minute winter	MH2	1.004	MH1	37.7	0.788	0.078	1.2744	
480 minute winter	MH1	1.005	MH1.1	42.6	0.957	0.331	0.8344	
480 minute winter	MH1.1	1.006	NEW SW 1	44.0	1.071	0.312	0.3132	
480 minute winter	NEW SW 1	EX1.000	EX SW 1	44.0	2.499	1.656	0.3054	502.2
480 minute winter	MH16	5.000	MH17	7.4	1.301	0.039	0.1261	
480 minute winter	MH14	6.000	MH15	2.1	1.214	0.051	0.0196	
480 minute winter	MH15	6.001	MH17	3.6	0.277	0.012	0.1399	
480 minute winter	MH17	5.001	MH19	11.9	0.196	0.024	3.7670	
480 minute winter	MH11	7.000	MH12	6.7	0.360	0.015	0.7131	
480 minute winter	MH12	7.001	MH13	16.8	0.454	0.055	1.8224	
480 minute winter	MH10	8.000	MH13	12.2	0.364	0.040	1.6891	
480 minute winter	MH13	7.002	MH19	61.4	0.757	0.076	0.8315	
480 minute winter	MH18	5.003	EX SW 3	41.5	3.342	0.232	0.0778	424.5
480 minute winter	MH19	5.002	MH18	43.0	2.331	0.093	0.1605	

Results for 100 year +40% CC 600 minute summer. 840 minute analysis at 15 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
600 minute summer	MH9	315	93.721	0.071	9.9	0.2678	0.0000	OK
600 minute summer	MH8	315	93.634	0.081	18.0	0.2799	0.0000	OK
600 minute summer	MH7	315	93.528	0.047	5.5	0.1505	0.0000	OK
600 minute summer	MH6	315	93.516	0.108	28.5	0.3348	0.0000	OK
600 minute summer	MH5	315	93.446	0.069	3.8	0.2053	0.0000	OK
600 minute summer	MH4	315	93.446	0.117	33.4	0.3109	0.0000	OK
600 minute summer	MH3	315	93.362	0.064	2.5	0.1819	0.0000	OK
600 minute summer	MH2	315	93.362	0.117	41.1	0.3607	0.0000	OK
600 minute summer	MH1	315	93.282	0.169	46.4	0.5175	0.0000	OK
600 minute summer	MH1.1	315	93.201	0.166	47.9	0.3168	0.0000	OK
600 minute summer	NEW SW 1	315	92.884	1.245	47.9	2.2005	0.0000	SURCHARGED
600 minute summer	EX SW 1	270	91.392	0.142	47.9	0.0000	0.0000	OK
600 minute summer	MH16	315	95.683	0.043	8.1	0.1341	0.0000	OK
600 minute summer	MH14	315	95.800	0.025	2.3	0.0461	0.0000	OK
600 minute summer	MH15	315	94.774	0.056	3.9	0.1758	0.0000	OK
600 minute summer	MH17	315	94.767	0.070	11.9	0.2100	0.0000	OK
600 minute summer	MH11	315	94.852	0.052	7.4	0.1891	0.0000	OK
600 minute summer	MH12	315	94.762	0.112	15.2	0.3804	0.0000	OK
600 minute summer	MH10	315	94.758	0.113	10.0	0.4420	0.0000	OK
600 minute summer	MH13	330	94.758	0.180	47.7	0.5340	0.0000	OK
600 minute summer	MH18	300	94.082	0.082	42.0	0.2443	0.0000	OK
600 minute summer	MH19	300	94.772	0.311	98.5	1.4091	0.0000	OK
600 minute summer	EX SW 3	300	93.338	0.071	38.5	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
600 minute summer	MH9	1.000	MH8	9.9	0.480	0.031	0.9008	
600 minute summer	MH8	1.001	MH6	18.0	0.633	0.041	1.0154	
600 minute summer	MH7	2.000	MH6	5.5	0.260	0.013	0.4092	
600 minute summer	MH6	1.002	MH4	28.5	0.781	0.065	0.7009	
600 minute summer	MH5	3.000	MH4	3.8	0.142	0.009	0.3409	
600 minute summer	MH4	1.003	MH2	33.4	0.866	0.076	0.7871	
600 minute summer	MH3	4.000	MH2	2.5	0.099	0.006	0.3656	
600 minute summer	MH2	1.004	MH1	41.1	0.801	0.085	1.3670	
600 minute summer	MH1	1.005	MH1.1	46.4	0.977	0.361	0.8908	
600 minute summer	MH1.1	1.006	NEW SW 1	47.9	1.095	0.340	0.3335	
600 minute summer	NEW SW 1	EX1.000	EX SW 1	47.9	2.721	1.804	0.3054	470.4
600 minute summer	MH16	5.000	MH17	8.1	1.335	0.043	0.1345	
600 minute summer	MH14	6.000	MH15	2.3	1.245	0.056	0.0209	
600 minute summer	MH15	6.001	MH17	3.8	0.275	0.013	0.1654	
600 minute summer	MH17	5.001	MH19	14.9	0.198	0.030	3.7713	
600 minute summer	MH11	7.000	MH12	7.4	0.358	0.016	0.8197	
600 minute summer	MH12	7.001	MH13	15.3	0.465	0.050	1.9008	
600 minute summer	MH10	8.000	MH13	10.7	0.370	0.035	1.7822	
600 minute summer	MH13	7.002	MH19	83.6	0.788	0.103	0.9054	
600 minute summer	MH18	5.003	EX SW 3	38.5	3.264	0.215	0.0741	403.4
600 minute summer	MH19	5.002	MH18	42.0	2.322	0.091	0.1574	

Results for 100 year +40% CC 600 minute winter. 840 minute analysis at 15 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
600 minute winter	MH9	315	93.712	0.062	7.6	0.2363	0.0000	OK
600 minute winter	MH8	315	93.625	0.072	13.8	0.2467	0.0000	OK
600 minute winter	MH7	315	93.522	0.041	4.2	0.1332	0.0000	OK
600 minute winter	MH6	315	93.502	0.094	21.8	0.2905	0.0000	OK
600 minute winter	MH5	315	93.431	0.054	2.9	0.1604	0.0000	OK
600 minute winter	MH4	315	93.431	0.102	25.6	0.2705	0.0000	OK
600 minute winter	MH3	315	93.347	0.049	1.9	0.1373	0.0000	OK
600 minute winter	MH2	315	93.346	0.101	31.4	0.3120	0.0000	OK
600 minute winter	MH1	315	93.257	0.144	35.5	0.4420	0.0000	OK
600 minute winter	MH1.1	315	93.178	0.143	36.7	0.2728	0.0000	OK
600 minute winter	NEW SW 1	315	92.268	0.629	36.7	1.1116	0.0000	SURCHARGED
600 minute winter	EX SW 1	270	91.392	0.142	36.7	0.0000	0.0000	OK
600 minute winter	MH16	315	95.678	0.038	6.2	0.1177	0.0000	OK
600 minute winter	MH14	300	95.796	0.021	1.7	0.0397	0.0000	OK
600 minute winter	MH15	315	94.761	0.043	2.9	0.1361	0.0000	OK
600 minute winter	MH17	315	94.753	0.056	9.1	0.1665	0.0000	OK
600 minute winter	MH11	315	94.846	0.046	5.6	0.1659	0.0000	OK
600 minute winter	MH12	315	94.731	0.081	11.6	0.2759	0.0000	OK
600 minute winter	MH10	315	94.717	0.072	7.7	0.2808	0.0000	OK
600 minute winter	MH13	315	94.734	0.156	29.5	0.4632	0.0000	OK
600 minute winter	MH18	345	94.073	0.073	32.5	0.2189	0.0000	OK
600 minute winter	MH19	345	94.719	0.258	63.7	1.1674	0.0000	OK
600 minute winter	EX SW 3	345	93.332	0.065	32.8	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
600 minute winter	MH9	1.000	MH8	7.6	0.444	0.024	0.7491	
600 minute winter	MH8	1.001	MH6	13.8	0.590	0.031	0.8336	
600 minute winter	MH7	2.000	MH6	4.2	0.242	0.010	0.3345	
600 minute winter	MH6	1.002	MH4	21.8	0.732	0.050	0.5720	
600 minute winter	MH5	3.000	MH4	2.9	0.139	0.007	0.2653	
600 minute winter	MH4	1.003	MH2	25.6	0.815	0.058	0.6413	
600 minute winter	MH3	4.000	MH2	1.9	0.096	0.004	0.2804	
600 minute winter	MH2	1.004	MH1	31.4	0.760	0.065	1.0999	
600 minute winter	MH1	1.005	MH1.1	35.5	0.917	0.276	0.7260	
600 minute winter	MH1.1	1.006	NEW SW 1	36.7	1.021	0.260	0.2740	
600 minute winter	NEW SW 1	EX1.000	EX SW 1	36.7	2.085	1.382	0.3054	529.7
600 minute winter	MH16	5.000	MH17	6.2	1.234	0.033	0.1114	
600 minute winter	MH14	6.000	MH15	1.7	1.141	0.041	0.0169	
600 minute winter	MH15	6.001	MH17	2.9	0.270	0.009	0.1155	
600 minute winter	MH17	5.001	MH19	9.1	0.172	0.018	2.9395	
600 minute winter	MH11	7.000	MH12	5.6	0.354	0.012	0.5546	
600 minute winter	MH12	7.001	MH13	11.6	0.461	0.038	1.4487	
600 minute winter	MH10	8.000	MH13	8.0	0.367	0.026	1.2893	
600 minute winter	MH13	7.002	MH19	55.0	0.734	0.068	0.6851	
600 minute winter	MH18	5.003	EX SW 3	32.8	3.174	0.183	0.0648	447.2
600 minute winter	MH19	5.002	MH18	32.5	2.197	0.070	0.1288	

Results for 100 year +40% CC 720 minute summer. 960 minute analysis at 15 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
720 minute summer	MH9	375	93.717	0.067	8.8	0.2535	0.0000	OK
720 minute summer	MH8	375	93.630	0.077	16.0	0.2647	0.0000	OK
720 minute summer	MH7	375	93.525	0.044	4.9	0.1427	0.0000	OK
720 minute summer	MH6	375	93.510	0.102	25.3	0.3145	0.0000	OK
720 minute summer	MH5	375	93.439	0.062	3.4	0.1846	0.0000	OK
720 minute summer	MH4	375	93.439	0.110	29.7	0.2923	0.0000	OK
720 minute summer	MH3	375	93.355	0.057	2.2	0.1613	0.0000	OK
720 minute summer	MH2	375	93.355	0.110	36.5	0.3383	0.0000	OK
720 minute summer	MH1	375	93.270	0.157	41.2	0.4821	0.0000	OK
720 minute summer	MH1.1	375	93.190	0.155	42.5	0.2961	0.0000	OK
720 minute summer	NEW SW 1	375	92.567	0.928	42.5	1.6395	0.0000	SURCHARGED
720 minute summer	EX SW 1	345	91.392	0.142	42.5	0.0000	0.0000	OK
720 minute summer	MH16	375	95.681	0.040	7.2	0.1266	0.0000	OK
720 minute summer	MH14	375	95.798	0.023	2.0	0.0430	0.0000	OK
720 minute summer	MH15	375	94.766	0.048	3.4	0.1514	0.0000	OK
720 minute summer	MH17	375	94.758	0.061	10.6	0.1821	0.0000	OK
720 minute summer	MH11	375	94.849	0.049	6.5	0.1778	0.0000	OK
720 minute summer	MH12	375	94.746	0.096	13.4	0.3267	0.0000	OK
720 minute summer	MH10	375	94.742	0.097	8.9	0.3793	0.0000	OK
720 minute summer	MH13	390	94.714	0.136	42.9	0.4035	0.0000	OK
720 minute summer	MH18	375	94.084	0.084	42.6	0.2520	0.0000	OK
720 minute summer	MH19	375	94.767	0.306	73.3	1.3837	0.0000	OK
720 minute summer	EX SW 3	375	93.340	0.073	41.1	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
720 minute summer	MH9	1.000	MH8	8.8	0.463	0.027	0.8297	
720 minute summer	MH8	1.001	MH6	16.0	0.613	0.036	0.9307	
720 minute summer	MH7	2.000	MH6	4.9	0.253	0.011	0.3747	
720 minute summer	MH6	1.002	MH4	25.3	0.760	0.057	0.6408	
720 minute summer	MH5	3.000	MH4	3.4	0.143	0.008	0.3055	
720 minute summer	MH4	1.003	MH2	29.7	0.843	0.067	0.7190	
720 minute summer	MH3	4.000	MH2	2.2	0.097	0.005	0.3255	
720 minute summer	MH2	1.004	MH1	36.5	0.784	0.075	1.2408	
720 minute summer	MH1	1.005	MH1.1	41.2	0.950	0.320	0.8129	
720 minute summer	MH1.1	1.006	NEW SW 1	42.5	1.062	0.301	0.3053	
720 minute summer	NEW SW 1	EX1.000	EX SW 1	42.5	2.414	1.600	0.3054	490.8
720 minute summer	MH16	5.000	MH17	7.2	1.291	0.038	0.1237	
720 minute summer	MH14	6.000	MH15	2.0	1.197	0.048	0.0189	
720 minute summer	MH15	6.001	MH17	3.4	0.277	0.011	0.1335	
720 minute summer	MH17	5.001	MH19	10.2	0.161	0.021	3.6626	
720 minute summer	MH11	7.000	MH12	6.5	0.352	0.014	0.6806	
720 minute summer	MH12	7.001	MH13	14.0	0.442	0.046	1.3349	
720 minute summer	MH10	8.000	MH13	10.0	0.355	0.033	1.2518	
720 minute summer	MH13	7.002	MH19	64.2	0.767	0.079	0.8027	
720 minute summer	MH18	5.003	EX SW 3	41.1	3.328	0.230	0.0775	432.9
720 minute summer	MH19	5.002	MH18	42.6	2.325	0.092	0.1592	

Results for 100 year +40% CC 720 minute winter. 960 minute analysis at 15 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
720 minute winter	MH9	375	93.708	0.058	6.6	0.2209	0.0000	OK
720 minute winter	MH8	375	93.620	0.067	12.0	0.2312	0.0000	OK
720 minute winter	MH7	375	93.520	0.039	3.7	0.1259	0.0000	OK
720 minute winter	MH6	375	93.495	0.087	19.0	0.2704	0.0000	OK
720 minute winter	MH5	375	93.424	0.047	2.5	0.1399	0.0000	OK
720 minute winter	MH4	375	93.424	0.095	22.3	0.2520	0.0000	OK
720 minute winter	MH3	375	93.340	0.042	1.7	0.1188	0.0000	OK
720 minute winter	MH2	375	93.340	0.095	27.4	0.2916	0.0000	OK
720 minute winter	MH1	375	93.246	0.133	30.9	0.4082	0.0000	OK
720 minute winter	MH1.1	375	93.167	0.132	31.9	0.2525	0.0000	OK
720 minute winter	NEW SW 1	375	92.054	0.415	31.9	0.7331	0.0000	SURCHARGED
720 minute winter	EX SW 1	330	91.392	0.142	31.9	0.0000	0.0000	OK
720 minute winter	MH16	375	95.675	0.035	5.4	0.1101	0.0000	OK
720 minute winter	MH14	360	95.795	0.020	1.5	0.0373	0.0000	OK
720 minute winter	MH15	375	94.758	0.040	2.6	0.1273	0.0000	OK
720 minute winter	MH17	375	94.750	0.053	8.0	0.1569	0.0000	OK
720 minute winter	MH11	375	94.843	0.043	4.9	0.1561	0.0000	OK
720 minute winter	MH12	375	94.724	0.074	10.1	0.2519	0.0000	OK
720 minute winter	MH10	360	94.709	0.064	6.7	0.2510	0.0000	OK
720 minute winter	MH13	390	94.692	0.114	38.2	0.3403	0.0000	OK
720 minute winter	MH18	360	94.071	0.071	31.4	0.2134	0.0000	OK
720 minute winter	MH19	360	94.715	0.254	47.4	1.1481	0.0000	OK
720 minute winter	EX SW 3	360	93.330	0.063	31.3	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
720 minute winter	MH9	1.000	MH8	6.6	0.424	0.020	0.6790	
720 minute winter	MH8	1.001	MH6	12.0	0.568	0.027	0.7535	
720 minute winter	MH7	2.000	MH6	3.7	0.235	0.009	0.3028	
720 minute winter	MH6	1.002	MH4	19.0	0.708	0.043	0.5159	
720 minute winter	MH5	3.000	MH4	2.5	0.139	0.006	0.2331	
720 minute winter	MH4	1.003	MH2	22.3	0.785	0.051	0.5799	
720 minute winter	MH3	4.000	MH2	1.7	0.097	0.004	0.2469	
720 minute winter	MH2	1.004	MH1	27.4	0.738	0.056	0.9879	
720 minute winter	MH1	1.005	MH1.1	30.9	0.888	0.240	0.6528	
720 minute winter	MH1.1	1.006	NEW SW 1	31.9	0.984	0.226	0.2472	
720 minute winter	NEW SW 1	EX1.000	EX SW 1	31.9	1.812	1.201	0.3055	552.6
720 minute winter	MH16	5.000	MH17	5.4	1.184	0.028	0.1011	
720 minute winter	MH14	6.000	MH15	1.5	1.100	0.036	0.0155	
720 minute winter	MH15	6.001	MH17	2.6	0.261	0.009	0.1049	
720 minute winter	MH17	5.001	MH19	8.0	0.161	0.016	2.8790	
720 minute winter	MH11	7.000	MH12	4.9	0.346	0.011	0.4918	
720 minute winter	MH12	7.001	MH13	10.5	0.459	0.034	1.0171	
720 minute winter	MH10	8.000	MH13	7.7	0.363	0.025	0.8807	
720 minute winter	MH13	7.002	MH19	40.2	0.656	0.050	0.6020	
720 minute winter	MH18	5.003	EX SW 3	31.3	3.152	0.175	0.0626	482.6
720 minute winter	MH19	5.002	MH18	31.4	2.182	0.068	0.1251	

Results for 100 year +40% CC 960 minute summer. 1200 minute analysis at 15 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
960 minute summer	MH9	495	93.711	0.061	7.2	0.2303	0.0000	OK
960 minute summer	MH8	495	93.623	0.070	13.1	0.2408	0.0000	OK
960 minute summer	MH7	495	93.522	0.041	4.0	0.1304	0.0000	OK
960 minute summer	MH6	495	93.499	0.091	20.7	0.2828	0.0000	OK
960 minute summer	MH5	495	93.428	0.051	2.7	0.1517	0.0000	OK
960 minute summer	MH4	495	93.428	0.099	24.2	0.2627	0.0000	OK
960 minute summer	MH3	495	93.344	0.046	1.8	0.1294	0.0000	OK
960 minute summer	MH2	495	93.344	0.099	29.7	0.3033	0.0000	OK
960 minute summer	MH1	495	93.252	0.139	33.5	0.4275	0.0000	OK
960 minute summer	MH1.1	495	93.173	0.138	34.6	0.2640	0.0000	OK
960 minute summer	NEW SW 1	495	92.171	0.532	34.6	0.9395	0.0000	SURCHARGED
960 minute summer	EX SW 1	465	91.392	0.142	34.6	0.0000	0.0000	OK
960 minute summer	MH16	495	95.677	0.037	5.9	0.1149	0.0000	OK
960 minute summer	MH14	495	95.796	0.021	1.6	0.0385	0.0000	OK
960 minute summer	MH15	495	94.760	0.042	2.8	0.1331	0.0000	OK
960 minute summer	MH17	495	94.752	0.055	8.7	0.1631	0.0000	OK
960 minute summer	MH11	495	94.845	0.045	5.3	0.1618	0.0000	OK
960 minute summer	MH12	495	94.729	0.079	11.0	0.2684	0.0000	OK
960 minute summer	MH10	495	94.716	0.071	7.3	0.2768	0.0000	OK
960 minute summer	MH13	480	94.718	0.140	44.4	0.4156	0.0000	OK
960 minute summer	MH18	495	94.074	0.074	32.1	0.2216	0.0000	OK
960 minute summer	MH19	495	94.714	0.253	58.7	1.1450	0.0000	OK
960 minute summer	EX SW 3	495	93.333	0.066	33.9	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
960 minute summer	MH9	1.000	MH8	7.2	0.437	0.022	0.7219	
960 minute summer	MH8	1.001	MH6	13.1	0.582	0.030	0.8024	
960 minute summer	MH7	2.000	MH6	4.0	0.240	0.009	0.3220	
960 minute summer	MH6	1.002	MH4	20.7	0.725	0.047	0.5492	
960 minute summer	MH5	3.000	MH4	2.7	0.140	0.006	0.2516	
960 minute summer	MH4	1.003	MH2	24.2	0.803	0.055	0.6153	
960 minute summer	MH3	4.000	MH2	1.8	0.096	0.004	0.2660	
960 minute summer	MH2	1.004	MH1	29.7	0.752	0.061	1.0518	
960 minute summer	MH1	1.005	MH1.1	33.5	0.905	0.261	0.6944	
960 minute summer	MH1.1	1.006	NEW SW 1	34.6	1.005	0.245	0.2624	
960 minute summer	NEW SW 1	EX1.000	EX SW 1	34.6	1.966	1.303	0.3054	526.3
960 minute summer	MH16	5.000	MH17	5.9	1.216	0.031	0.1076	
960 minute summer	MH14	6.000	MH15	1.6	1.121	0.039	0.0162	
960 minute summer	MH15	6.001	MH17	2.8	0.265	0.009	0.1118	
960 minute summer	MH17	5.001	MH19	8.7	0.170	0.018	2.8872	
960 minute summer	MH11	7.000	MH12	5.3	0.354	0.012	0.5327	
960 minute summer	MH12	7.001	MH13	12.0	0.455	0.039	1.2687	
960 minute summer	MH10	8.000	MH13	9.4	0.365	0.031	1.1147	
960 minute summer	MH13	7.002	MH19	50.9	0.727	0.063	0.6500	
960 minute summer	MH18	5.003	EX SW 3	33.9	3.217	0.190	0.0662	443.6
960 minute summer	MH19	5.002	MH18	32.1	2.179	0.069	0.1279	

Results for 100 year +40% CC 960 minute winter. 1200 minute analysis at 15 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
960 minute winter	MH9	495	93.703	0.053	5.3	0.1996	0.0000	OK
960 minute winter	MH8	495	93.614	0.061	9.7	0.2088	0.0000	OK
960 minute winter	MH7	495	93.516	0.035	3.0	0.1137	0.0000	OK
960 minute winter	MH6	495	93.486	0.078	15.4	0.2428	0.0000	OK
960 minute winter	MH5	495	93.414	0.037	2.0	0.1111	0.0000	OK
960 minute winter	MH4	495	93.414	0.085	18.0	0.2259	0.0000	OK
960 minute winter	MH3	495	93.331	0.033	1.3	0.0924	0.0000	OK
960 minute winter	MH2	495	93.330	0.085	22.1	0.2628	0.0000	OK
960 minute winter	MH1	495	93.231	0.118	25.0	0.3626	0.0000	OK
960 minute winter	MH1.1	495	93.153	0.118	25.8	0.2249	0.0000	OK
960 minute winter	NEW SW 1	495	91.772	0.133	25.8	0.2346	0.0000	OK
960 minute winter	EX SW 1	495	91.390	0.140	25.8	0.0000	0.0000	OK
960 minute winter	MH16	495	95.672	0.032	4.4	0.0998	0.0000	OK
960 minute winter	MH14	480	95.793	0.018	1.2	0.0335	0.0000	OK
960 minute winter	MH15	495	94.754	0.036	2.1	0.1129	0.0000	OK
960 minute winter	MH17	495	94.745	0.048	6.5	0.1422	0.0000	OK
960 minute winter	MH11	495	94.840	0.040	4.0	0.1427	0.0000	OK
960 minute winter	MH12	495	94.717	0.067	8.2	0.2253	0.0000	OK
960 minute winter	MH10	495	94.699	0.054	5.4	0.2127	0.0000	OK
960 minute winter	MH13	480	94.684	0.106	20.0	0.3156	0.0000	OK
960 minute winter	MH18	540	94.057	0.057	20.7	0.1704	0.0000	OK
960 minute winter	MH19	450	94.669	0.208	43.0	0.9408	0.0000	OK
960 minute winter	EX SW 3	540	93.319	0.052	21.4	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
960 minute winter	MH9	1.000	MH8	5.3	0.396	0.016	0.5836	
960 minute winter	MH8	1.001	MH6	9.7	0.536	0.022	0.6456	
960 minute winter	MH7	2.000	MH6	3.0	0.223	0.007	0.2592	
960 minute winter	MH6	1.002	MH4	15.4	0.672	0.035	0.4403	
960 minute winter	MH5	3.000	MH4	2.0	0.139	0.005	0.1899	
960 minute winter	MH4	1.003	MH2	18.0	0.739	0.041	0.4970	
960 minute winter	MH3	4.000	MH2	1.3	0.098	0.003	0.2027	
960 minute winter	MH2	1.004	MH1	22.1	0.700	0.045	0.8401	
960 minute winter	MH1	1.005	MH1.1	25.0	0.843	0.194	0.5558	
960 minute winter	MH1.1	1.006	NEW SW 1	25.8	0.930	0.183	0.2115	
960 minute winter	NEW SW 1	EX1.000	EX SW 1	25.8	1.633	0.971	0.2942	589.9
960 minute winter	MH16	5.000	MH17	4.4	1.115	0.023	0.0875	
960 minute winter	MH14	6.000	MH15	1.2	1.028	0.029	0.0132	
960 minute winter	MH15	6.001	MH17	2.1	0.248	0.007	0.0899	
960 minute winter	MH17	5.001	MH19	6.5	0.159	0.013	2.2180	
960 minute winter	MH11	7.000	MH12	4.0	0.331	0.009	0.4196	
960 minute winter	MH12	7.001	MH13	8.2	0.457	0.027	0.9037	
960 minute winter	MH10	8.000	MH13	5.4	0.360	0.018	0.7717	
960 minute winter	MH13	7.002	MH19	36.7	0.664	0.045	0.4875	
960 minute winter	MH18	5.003	EX SW 3	21.4	2.872	0.119	0.0467	496.2
960 minute winter	MH19	5.002	MH18	20.7	1.999	0.045	0.0899	

Results for 100 year +40% CC 1440 minute summer. 1680 minute analysis at 30 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
1440 minute summer	MH9	750	93.702	0.052	5.2	0.1977	0.0000	OK
1440 minute summer	MH8	750	93.613	0.060	9.4	0.2057	0.0000	OK
1440 minute summer	MH7	750	93.516	0.035	2.9	0.1119	0.0000	OK
1440 minute summer	MH6	750	93.485	0.077	14.9	0.2387	0.0000	OK
1440 minute summer	MH5	750	93.413	0.036	2.0	0.1077	0.0000	OK
1440 minute summer	MH4	750	93.413	0.084	17.5	0.2227	0.0000	OK
1440 minute summer	MH3	750	93.330	0.032	1.3	0.0894	0.0000	OK
1440 minute summer	MH2	750	93.329	0.084	21.5	0.2594	0.0000	OK
1440 minute summer	MH1	750	93.229	0.116	24.3	0.3570	0.0000	OK
1440 minute summer	MH1.1	750	93.151	0.116	25.1	0.2216	0.0000	OK
1440 minute summer	NEW SW 1	750	91.768	0.129	25.1	0.2274	0.0000	OK
1440 minute summer	EX SW 1	750	91.366	0.116	25.1	0.0000	0.0000	OK
1440 minute summer	MH16	750	95.671	0.031	4.2	0.0976	0.0000	OK
1440 minute summer	MH14	750	95.793	0.018	1.2	0.0335	0.0000	OK
1440 minute summer	MH15	750	94.753	0.035	2.0	0.1099	0.0000	OK
1440 minute summer	MH17	750	94.744	0.047	6.2	0.1392	0.0000	OK
1440 minute summer	MH11	750	94.839	0.039	3.8	0.1392	0.0000	OK
1440 minute summer	MH12	750	94.716	0.066	7.9	0.2219	0.0000	OK
1440 minute summer	MH10	750	94.699	0.054	5.2	0.2090	0.0000	OK
1440 minute summer	MH13	720	94.676	0.098	23.5	0.2909	0.0000	OK
1440 minute summer	MH18	750	94.061	0.061	22.8	0.1813	0.0000	OK
1440 minute summer	MH19	750	94.672	0.211	24.5	0.9543	0.0000	OK
1440 minute summer	EX SW 3	750	93.322	0.055	23.8	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
1440 minute summer	MH9	1.000	MH8	5.2	0.396	0.016	0.5733	
1440 minute summer	MH8	1.001	MH6	9.4	0.532	0.021	0.6308	
1440 minute summer	MH7	2.000	MH6	2.9	0.221	0.007	0.2530	
1440 minute summer	MH6	1.002	MH4	14.9	0.666	0.034	0.4306	
1440 minute summer	MH5	3.000	MH4	2.0	0.138	0.005	0.1851	
1440 minute summer	MH4	1.003	MH2	17.5	0.733	0.040	0.4871	
1440 minute summer	MH3	4.000	MH2	1.3	0.097	0.003	0.1976	
1440 minute summer	MH2	1.004	MH1	21.5	0.696	0.044	0.8226	
1440 minute summer	MH1	1.005	MH1.1	24.3	0.837	0.189	0.5441	
1440 minute summer	MH1.1	1.006	NEW SW 1	25.1	0.923	0.178	0.2072	
1440 minute summer	NEW SW 1	EX1.000	EX SW 1	25.1	1.632	0.945	0.2689	578.5
1440 minute summer	MH16	5.000	MH17	4.2	1.099	0.022	0.0847	
1440 minute summer	MH14	6.000	MH15	1.2	1.028	0.029	0.0132	
1440 minute summer	MH15	6.001	MH17	2.0	0.246	0.007	0.0869	
1440 minute summer	MH17	5.001	MH19	6.2	0.156	0.013	2.2624	
1440 minute summer	MH11	7.000	MH12	3.8	0.323	0.008	0.4085	
1440 minute summer	MH12	7.001	MH13	8.0	0.456	0.026	0.8291	
1440 minute summer	MH10	8.000	MH13	5.2	0.365	0.017	0.7036	
1440 minute summer	MH13	7.002	MH19	19.3	0.450	0.024	0.4712	
1440 minute summer	MH18	5.003	EX SW 3	23.8	2.946	0.133	0.0507	494.8
1440 minute summer	MH19	5.002	MH18	22.8	2.025	0.049	0.0979	

Results for 100 year +40% CC 1440 minute winter. 1680 minute analysis at 30 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
1440 minute winter	MH9	750	93.696	0.046	3.9	0.1728	0.0000	OK
1440 minute winter	MH8	750	93.605	0.052	7.1	0.1804	0.0000	OK
1440 minute winter	MH7	750	93.512	0.031	2.2	0.0984	0.0000	OK
1440 minute winter	MH6	750	93.475	0.067	11.3	0.2077	0.0000	OK
1440 minute winter	MH5	750	93.403	0.026	1.5	0.0767	0.0000	OK
1440 minute winter	MH4	750	93.402	0.073	13.2	0.1934	0.0000	OK
1440 minute winter	MH3	750	93.319	0.021	1.0	0.0605	0.0000	OK
1440 minute winter	MH2	750	93.319	0.074	16.2	0.2267	0.0000	OK
1440 minute winter	MH1	750	93.213	0.100	18.3	0.3059	0.0000	OK
1440 minute winter	MH1.1	750	93.135	0.100	18.9	0.1904	0.0000	OK
1440 minute winter	NEW SW 1	750	91.739	0.100	18.9	0.1762	0.0000	OK
1440 minute winter	EX SW 1	750	91.343	0.093	18.9	0.0000	0.0000	OK
1440 minute winter	MH16	750	95.667	0.027	3.2	0.0856	0.0000	OK
1440 minute winter	MH14	720	95.791	0.016	0.9	0.0292	0.0000	OK
1440 minute winter	MH15	720	94.748	0.030	1.5	0.0949	0.0000	OK
1440 minute winter	MH17	750	94.738	0.041	4.7	0.1228	0.0000	OK
1440 minute winter	MH11	750	94.834	0.034	2.9	0.1222	0.0000	OK
1440 minute winter	MH12	750	94.708	0.058	6.0	0.1974	0.0000	OK
1440 minute winter	MH10	750	94.692	0.047	3.9	0.1825	0.0000	OK
1440 minute winter	MH13	750	94.640	0.062	11.7	0.1852	0.0000	OK
1440 minute winter	MH18	720	94.050	0.050	16.8	0.1499	0.0000	OK
1440 minute winter	MH19	720	94.644	0.183	17.8	0.8293	0.0000	OK
1440 minute winter	EX SW 3	720	93.313	0.046	16.7	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
1440 minute winter	MH9	1.000	MH8	3.9	0.361	0.012	0.4708	
1440 minute winter	MH8	1.001	MH6	7.1	0.490	0.016	0.5151	
1440 minute winter	MH7	2.000	MH6	2.2	0.205	0.005	0.2066	
1440 minute winter	MH6	1.002	MH4	11.3	0.620	0.026	0.3504	
1440 minute winter	MH5	3.000	MH4	1.5	0.138	0.003	0.1413	
1440 minute winter	MH4	1.003	MH2	13.2	0.676	0.030	0.3982	
1440 minute winter	MH3	4.000	MH2	1.0	0.097	0.002	0.1519	
1440 minute winter	MH2	1.004	MH1	16.2	0.648	0.033	0.6650	
1440 minute winter	MH1	1.005	MH1.1	18.3	0.781	0.142	0.4394	
1440 minute winter	MH1.1	1.006	NEW SW 1	18.9	0.855	0.134	0.1685	
1440 minute winter	NEW SW 1	EX1.000	EX SW 1	18.9	1.578	0.712	0.2099	650.5
1440 minute winter	MH16	5.000	MH17	3.2	1.016	0.017	0.0698	
1440 minute winter	MH14	6.000	MH15	0.9	0.944	0.022	0.0108	
1440 minute winter	MH15	6.001	MH17	1.5	0.226	0.005	0.0709	
1440 minute winter	MH17	5.001	MH19	4.7	0.138	0.010	1.8644	
1440 minute winter	MH11	7.000	MH12	2.9	0.295	0.006	0.3431	
1440 minute winter	MH12	7.001	MH13	6.2	0.458	0.020	0.5261	
1440 minute winter	MH10	8.000	MH13	3.9	0.360	0.013	0.4261	
1440 minute winter	MH13	7.002	MH19	13.1	0.334	0.016	0.3597	
1440 minute winter	MH18	5.003	EX SW 3	16.7	2.681	0.093	0.0390	557.9
1440 minute winter	MH19	5.002	MH18	16.8	1.895	0.036	0.0773	

CIVIL ENGINEERING • STRUCTURAL ENGINEERING • TRANSPORTATION • ROADS & BRIDGES
PORTS & HARBOURS • GEOTECHNICAL & ENVIRONMENTAL ENGINEERING • PLANNING &
DEVELOPMENT • WATER SERVICES • CDM COORDINATOR SERVICES

www.fairhurst.co.uk

Aberdeen	Leeds
Birmingham	London
Bristol	Manchester
Dundee	Newcastle upon Tyne
Edinburgh	Sevenoaks
Elgin	Sheffield
Glasgow	Taunton
Inverness	Watford

FAIRHURST