MWP

Sustainable Drainage Strategy Design Report

Broadwater Farm Estate, Tangmere (Main Block), Tottenham, London, N17 6NG

OUR REF: 26015

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Proposed Redevelopment at Broadwater Farm Estate, Tangmere (Main Block), Tottenham, London, N17 6NG

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1. Introduction

The following report has been prepared to outline the proposed surface water strategy to discharge condition 24 of planning ref HYY/2022/0823 in relation to the proposed development at Broadwater Farm Estate, Tangmere (main block), Tottenham, London N17 6NG.

Planning permission has been granted to demolish the existing buildings and erect 2 blocks of 7 storeys (ground floor and 6 floors) building comprising of 116 residential housing units and 381m2 area of retail space with private gardens, and communal courtyards

Figure 1 shows the location of the site outlined in red.



Figure 1: Site location (Google Maps)

The site is set in a residential area which is bounded by highways to the west (Gloucester Road), the north and east (Willan Road) and residential housing to the south.

The existing site total area 5094m2 is classified as 100% impermeable, consisting entirely of hard standing and building footprints. In contrast, the proposed scheme introduces a significant increase in permeable surfacing, effectively reducing the site's impermeable area to 83%. This will be achieved through the integration of:

- Soft Landscaping: Inclusion of lawn areas and communal courtyards.
- Source Control: Strategically placed permeable zones designed to intercept and infiltrate surface water runoff.

See the Catchment Area plan drawing in Appendix K and below-ground drainage drawing by MWP included in Appendix A.

1.1 Development Proposal

The proposed development involves the construction of two 7-storey blocks (comprising ground plus six upper storeys), delivering 116 residential units and 381m² of retail floorspace. The scheme further incorporates high-quality private gardens, communal courtyards, and dedicated car parking facilities as illustrated in figure 2.

This Drainage and Sustainable Drainage Systems (SuDS) Strategy has been prepared in accordance with the National Planning Policy Framework (NPPF), the London Plan, and the policies and guidance of the London Borough of Haringey as Lead Local Flood Authority (LLFA). The strategy follows the London Plan drainage hierarchy, prioritizing the use of infiltration and on-site attenuation where feasible, prior to controlled discharge to the public sewer network.

Surface water runoff from the proposed development will be managed to ensure that post-development runoff rates and volumes do not exceed existing conditions. The proposed SuDS measures will provide attenuation, water quality treatment, and flow control, with the objective of reducing flood risk both on-site and downstream. Where practicable, blue-green infrastructure will be incorporated to deliver additional environmental and amenity benefits.



Figure 2: Proposed Development Plan

1.2 Aim - Planning Permission

Planning permission (Application Ref: HYY/2022/0823) was granted by the London Borough of Haringey Planning Department, along with a set of conditions for the proposed development at Broadwater Farm Estate.

This report aims to discharge condition 24 which relates to the site's drainage strategy. Condition 24 is stated as follows:

24 No development above ground level within each Phase shall take place until a detailed Surface Water Drainage scheme for that Phase has been submitted and approved in writing by the Local Planning Authority. The detailed drainage scheme should also accompany a detailed drainage plan appropriately cross-referenced to supporting calculations for the development and they should clearly indicates the location of all proposed drainage elements demonstrating that the surface water generated by this development (For all the rainfall durations starting from 15 min to 10080 min and intensities up to and including the climate change adjusted critical 100 yr. storm) can be accommodated and disposed of without discharging onto the highway and without increasing flood risk on or off-site. The scheme shall include rainwater harvesting, where possible. The development shall thereafter be completed in accordance with the approved details.

Reason: To endure that the principles of Sustainable Drainage are incorporated into this proposal and maintained thereafter.

2. Topography

A topographical survey of the site was carried out by Terrain Surveys Ltd in April 2018. The survey confirm that the external levels fall from approximately 16.58 in the south to approximately 15.98 in the north. Refer to topographical survey in Appendix B.

3. Existing Drainage Strategy

3.1 Public Drainage

According to Thames Water asset records, the site is served by established foul and surface water infrastructure. The existing drainage strategy utilizes the site's natural topography, with primary flows directed toward the north.

Foul Water Network

The foul water system originates from several manholes at the southern extent of the site, conveying effluent northwards via two main routes:

- Gloucester Road: A longitudinal sewer running south to north.
- Tangmere Main Block Site: Internal drainage runs that flow northwards to intercept the Willan Road infrastructure, which then conveys flows from west to east.

Surface Water Network and Outfall

Surface water runoff is managed via a sub-surface network that outfalls into the Moselle Culvert. This culvert is located at the northern boundary, flowing in a north-easterly direction. The catchment is divided into two primary conveyance corridors:

- Gloucester Road Corridor: Surface water flows south to north, discharging directly into the Moselle Culvert.
- Tangmere/Willan Road Corridor: Internal site drainage connects to the Willan Road network, which subsequently discharges into the culvert at the northern extent of the site.

Refer to Figure 3 and Thames Water Asset map in Appendix C.



Figure 3: Thames Water Asset Map

3.2 Diversion/Abandonment

To facilitate the proposed development, the redundant internal drainage assets within the Tangmere Main Block site will be decommissioned as follows:

- Internal Foul Infrastructure: The eastern foul sewer run, which currently traverses the site from south to north, will be abandoned.
- Internal Surface Water Infrastructure: Internal surface water drainage runs within the Tangmere site boundary will be abandoned to clear the building footprint.

Application to abandon both runs are in progress under Thames Water Section 116, Refer to drawing in Appendix D. All abandonment and diversion works will be carried out in strict accordance with Thames Water's technical specifications to ensure formal adoption and sign-off.

3.3 Pre-Development Runoff Rates

The existing site area 5094m2 is classified as 100% impermeable, comprising entirely of hardstanding and building footprints. In contrast, the proposed scheme significantly enhances site permeability, reducing the impermeable area to 83%.

Table 1 details the existing discharge rates for the 1 in 1, 1 in 30, 1 in 100, and 1 in 100-year + 40% climate change allowance events. These rates were calculated using the Modified Rational Method; please refer to the full calculations in Appendix E.

Table 1: Impermeable Area Existing Run-off Rates

Storm Event (1 in x yr)	Discharge from permeable area of site (l/s)	Discharge from impermeable area of site (l/s)	Total Discharge from Site (l/s)
1	0	54.17	54.17
30	0	146.57	146.57
100	0	203.29	203.29
100+40%CC	0	284.60	284.60

3.4 Greenfield Run-off Rates

Policy 5.13 of the London Plan (2016) requires development proposals to restrict surface water discharge to Greenfield runoff rates wherever feasible. In accordance with this requirement, surface water discharge from the site has been designed to achieve Greenfield runoff rates calculated using the IH124 method, with the calculations provided in Appendix F and the resulting rates summarized in Table 2

Table 2: Greenfield Run-off Rates

Greenfield Run-off Rates l/s					
100	Qbar	1 in 1	1 in 30	1 in 100	1 in 200
100+40%1CC	0.8	0.7	1.9	2.6	3.1

3.5 Proposed Discharged rates.

The calculated Obar Greenfield runoff rate for the site is 0.8 l/s. However, discharging at this rate is considered impractical from an operational and hydraulic perspective due to the increased risk of blockage associated with very low flow rates. As such, it is proposed to restrict surface water discharge to 2.5 l/s.

This proposed discharge rate is lower than the calculated 1 in 30-year Greenfield runoff rate and remains below the 5.0 l/s minimum discharge rate referenced in the Environment Agency Report SC03021. The approach therefore represents a pragmatic and policy-compliant solution that balances Greenfield runoff control with long-term operational reliability.

Table 3 shows the site's existing discharge rates, with the proposed discharge rate as a comparison.

The proposed surface water drainage strategy is considered compliant with London Plan Policy 5.13 and is acceptable to the Lead Local Flood Authority and Thames Water.

Table 3: Comparison of Existing and Proposed Run-off rates

Storm Event (1 in x yr)	Existing Discharge from Site (l/s)	Proposed Discharge from Site (l/s)	Reduction (l/s)
1	54.17	2.5	95%
30	146.57	2.5	98%
100	203.29	2.5	99%
100+40%CC	284.60	2.5	99%

Table 3 shows that during rainfall, the volume of water that will be discharged post-development from the site would be controlled to 2.5 l/s, this equates to a reduction between 95-99% less than the current discharge rate. This complies with Ciria C753, The London Plan, and Policy CC3 of the Local Plan as it reduces the rate of discharge of water into the local sewers/rivers thus reducing the risk of flooding further downstream.

See Appendix G for full Causeway storage calculations.

4. MWP Proposed Drainage Strategy

MWP has proposed a detailed strategy for the surface water drainage at Tangmere (Main block) — see the below-ground drainage drawing included in Appendix A; please also refer to the Thames Water S106 consent to connect to the public sewer in Appendix J.

Causeway Flow drainage modelling software was used to simulate the drainage infrastructure, see the full report from the software included in Appendix G. The software was used to determine the size of the attenuation required, based on the site proposed discharge rates.

4.1 SuDS Assessment

A hierarchy that lists the most to least preferred solutions for surface water runoff management is included in The London Plan. 4 shows the hierarchy and explains the reasons for feasibility/non-feasibility for the proposed drainage at the proposed building at Tangmere (Main block).

Table 4: Surface Water Discharge Hierarchy (The London Plan)

SuDS Techniques		Feasibility	Explanation
1	Store water for later use.	×	There is no room within the site to provide adequate water storage for later use.
2	Use infiltration techniques, such as porous surfaces in non-clay areas.	×	From borehole data, we assume that the ground around the site is made up of clay – therefore infiltration rates may be low.
3	Attenuate rainwater in ponds or open water features for gradual release.	×	There is insufficient space to provide ponds for the entire site therefore this is not feasible.
4	Discharge rainwater direct to a watercourse.	×	There are no viable watercourses to discharge to near the site.
5	Discharge rainwater to a surface water sewer/drain.	✓	This will be used to discharge runoff from the site at a controlled rate. (refer to sections 3.5)
6	Discharge rainwater to the combined sewer.	×	N/A as there is no combined drainage system nearby.

From Table 4 we can infer that we have limited methods to manage surface water runoff. The following sections explain in detail how SuDS techniques will be implemented at Tangmere.

5. Condition 24

This section expands on the specific requirements by Condition 24, refer to section 1.2 for the full planning condition.

5.1 Incorporating Permeable Surfaces.

Geological data from nearby borehole records indicates a site profile dominated by cohesive clay deposits. These subsurface conditions exhibit negligible infiltration potential, rendering the site unsuitable for ground-disposal SuDS such as soakaways.

Permeable paving has been purposefully omitted from the design due to these ground conditions. In high-plasticity clay, the introduction of surface water into the pavement sub-base—even in a 'tanked' system—presents a significant risk of subgrade softening and structural deformation. To ensure the long-term integrity of the hardstanding, the strategy focuses on managed surface flow to dedicated collection points.

In place of open attenuation features like swales or ponds, which are precluded by the site's constrained urban layout, the drainage strategy utilizes the ground floor soft-landscaped courtyard as an initial management zone. Surface runoff from pedestrian footpaths is directed into these landscaped areas to facilitate interception, natural filtration, and evapotranspiration.

To manage peak storm events, the primary drainage network conveys remaining runoff to an on-site attenuation tank. Discharge from this tank is strictly regulated via a Hydro-Brake, limiting the outflow to the greenfield equivalent rate (2.5l/s) before entering the local sewer network. This combined approach of soft-landscape source control and mechanical attenuation provides a robust, site-specific response that satisfies the requirements of Condition 24.

5.2 Incorporating Green & Blue Roofs

5.2.1 Green Roofs

Green roofs have been incorporated into the Tangmere Building. The approved scheme includes 80mm substrate green roof area 2104m2 across Tangmere roof levels. Refer to Catchment Area Plan drawing in Appendix K.

5.2.2 Blue Roofs

It is not proposed to introduce Blue Roofs to Tangmere Building –

- Blue roofs would impose additional loads on the building, therefore would require columns/foundations to increase in size to accommodate.
- Blue roofs would require extra maintenance, possibly by special contractors, this may not be practical for blue roof with a small area.
- From an architectural perspective, attempting to include a blue roof would require raising the building's height so as to not overwhelm the parapets.

For the reasons outlined above, we have not included blue roofs for this strategy. We believe that the other SuDS components will be sufficient to clean and attenuate the runoff for this site. This strategy aligns with the original SuDS strategy prepared by Elliot Wood as part of the approved scheme, summarised in the table extracted from Broadwater Farm Estate, Tottenham N17 6NG 2190487 SuDS Report prepared by Elliot Wood In figure 4 below.

Table 12 – SuDS Evaluation

SUDS Technique	Y/N	Comment
Green and Blue Roofs	Y	Green roofs are proposed to provide biodiversity and amenity benefits
Rainwater reuse	N	Rainwater reuse is not considered viable as the majority of the roofs will be surfaced with green roofs, which means the run-off is not appropriate for use with rainwater harvesting systems without complex filtering processes. On projects of this nature which have complex phasing it is difficult to be able to provide a centralised RWH system. When considering rainwater re-use from a sustainability perspective (The NPPF principles environment, social and economic) this translates as an order of priorities; reduce, reuse, recycle. For this project it makes much more sense to use less water (by using water efficient appliances) than it does to install a rainwater harvesting system.
Infiltration devices	N	The site is underlain by London Clay Formation which is not suitable for infiltration
Permeable surfaces	N	Cohesive clay subgrades are prone to softening and instability if saturated, rendering sub-base storage technically unviable.
Basins and ponds	N	The spatial configuration of the development prohibits the use of basins and ponds.
Filter strips and swales	N	The spatial configuration of the development prohibits the use of filter strips and swales.
Filter drains	N	The spatial configuration of the development prohibits the use of filter drains.
Below Ground Tanked systems	Y	Below ground attenuation tanks are proposed due to restrictions of space on site.

Figure 4: table extracted from Broadwater Farm Estate, Tottenham N17 6NG 2190487 SuDS Report

5.3 Attenuation Storage

5.3.1 Attenuation Tank Size

The proposed site layout provides 0.111 hectares (23%) of permeable soft landscaping, resulting in a total impermeable drainage area of 0.392 hectares. Refer to Catchment Area Plan in Appendix K

The greatest storm analysis was a 1 in 100-year storm event, an additional 40% was included in calculations to account for an increase as a result of climate change. A total (minimum) attenuation volume of 259m^3 to 347 m^3 would be required assuming the above (with a discharge rate of 2.5 l/s).

Causeway Flow software was used to calculate the approximate volume of attenuation required for the 1 in 100 +40% CC storm event (using 2.5 l/s as a discharge rate), see Figure 5 for Causeway Flow estimate.

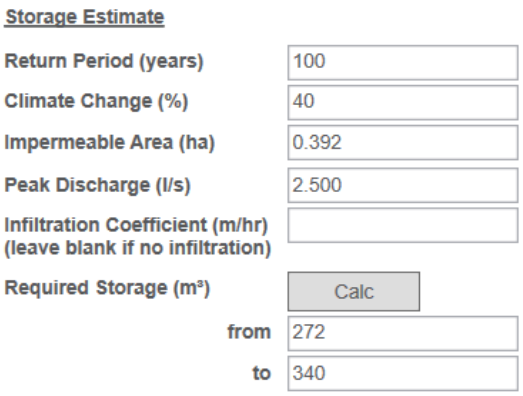


Figure 5: Causeway Flow attenuation storage estimate

The proposed extensive green roof covers a total area of 2104m2 with an 80mm substrate depth, providing a total media volume of 168.32m3. Based on industry-standard volumetric retention rates for extensive systems (typically 30%-40%), the roof is estimated to provide a storage and attenuation capacity of between 50.5m3 and 67.3m3.

This significantly reduces the total runoff volume and peak discharge entering the downstream network, as detailed in the calculations below.

Total Substrate Volume : 2104m2 x 0.080m = 168.32m3

Green roof substrates are engineered to be porous. For an 80mm extensive system, the water retention capacity typically ranges from 30% to 40% by volume:

Minimum Retention (30%): 168.32m3 x 0.30 = 50.5m3

Maximum Retention (40%): 168.32m3 x 0.40 =67.3m3

The volume attenuated within the storage tank can therefore be reduced, we propose to provide storage of 237m3.

5.3.2 Attenuation Tank Location

The attenuation tank is located to the northeast of the courtyard. Runoff from the entire site is discharged into the tank via the drainage network before it is attenuated and discharged in a controlled rate.

The proposed tank covers an area of 267m^2 x 0.914m deep, and assuming 97% void capacity, the tank provides 237m^3 of attenuation.

The size of the attenuation tank is limited as the area is bound by the building footprint, the concrete tower crane base, proposed trees/soft landscaping, and the existing neighboring building.

5.4 Controlled Rate of Surface Water Discharge (Hydrobrake)

As mentioned above, the discharge rate of the surface water runoff from the site will be controlled to a maximum rate of 2.5l/s. To achieve this rate, a Hydrobrake (or similar flow control device) will be installed.

This discharge rate of 2.5 l/s has been determined as the greenfield runoff rate, calculated in accordance with the London Borough of Haringey SuDS Design requirements for LLFA Technical Assessment guidelines, CIRIA guidance, and recommendations from Thames Water as outlined in the pre-planning enquiry.

See Appendix A for MWP's Below Ground Drainage Layout for the Hydrobrake location.

6. Causeway Flow Analysis

MWP used Causeway Flow drainage modelling software to simulate the drainage strategy in different intensity storm events – see Appendix G for the full report.

From the results shown in Appendix G, we can determine that the proposed SuDS drainage infrastructure will be able to withstand each of the inputted flood events: 1 in 1-year storm, 1 in a 30-year storm (plus 40% CC), 1 in 100-year storm event (with 40% CC).

We have designed the SuDS drainage components for a 1 in 100-year + 40% CC storm event, therefore (assuming 100% efficiency of the components) the drainage devices should surcharge during storm events however major flooding should not occur on site.

7. Exceedance

Exceedance flows arising from rainfall events greater than the 1 in 100-year design storm, including a 40% climate change allowance, will be directed away from buildings, and safely managed within the on-site landscaped areas. Flow paths will route water towards low points within the courtyard and external amenity areas. All exceedance flows will be contained within the site boundary and will not discharge onto neighbouring land or the public highway (refer to Appendix H for Exceedance Plan)

8. Operation and Maintenance of SuDS Infrastructure

The responsibility of the drainage and SuDS infrastructure will be handed over to the property owners/building management once construction is completed. Operation and maintenance tasks must be carried out as per the recommendations as this will ensure the effectiveness of the components.

As a guide, MWP has compiled a set of general operation and maintenance tasks extracted from Ciria C753 – see Appendix I for information. It must be noted that this compilation is for general operation and maintenance, for more detailed information the manufacturer's manuals must be read.

9. Conclusion

In conclusion, this report has expressed how the outlined drainage strategy has incorporated a variety of SuDS techniques, and why we have selected feasible and suitable options for the proposed development at Broadwater Farm Estate.

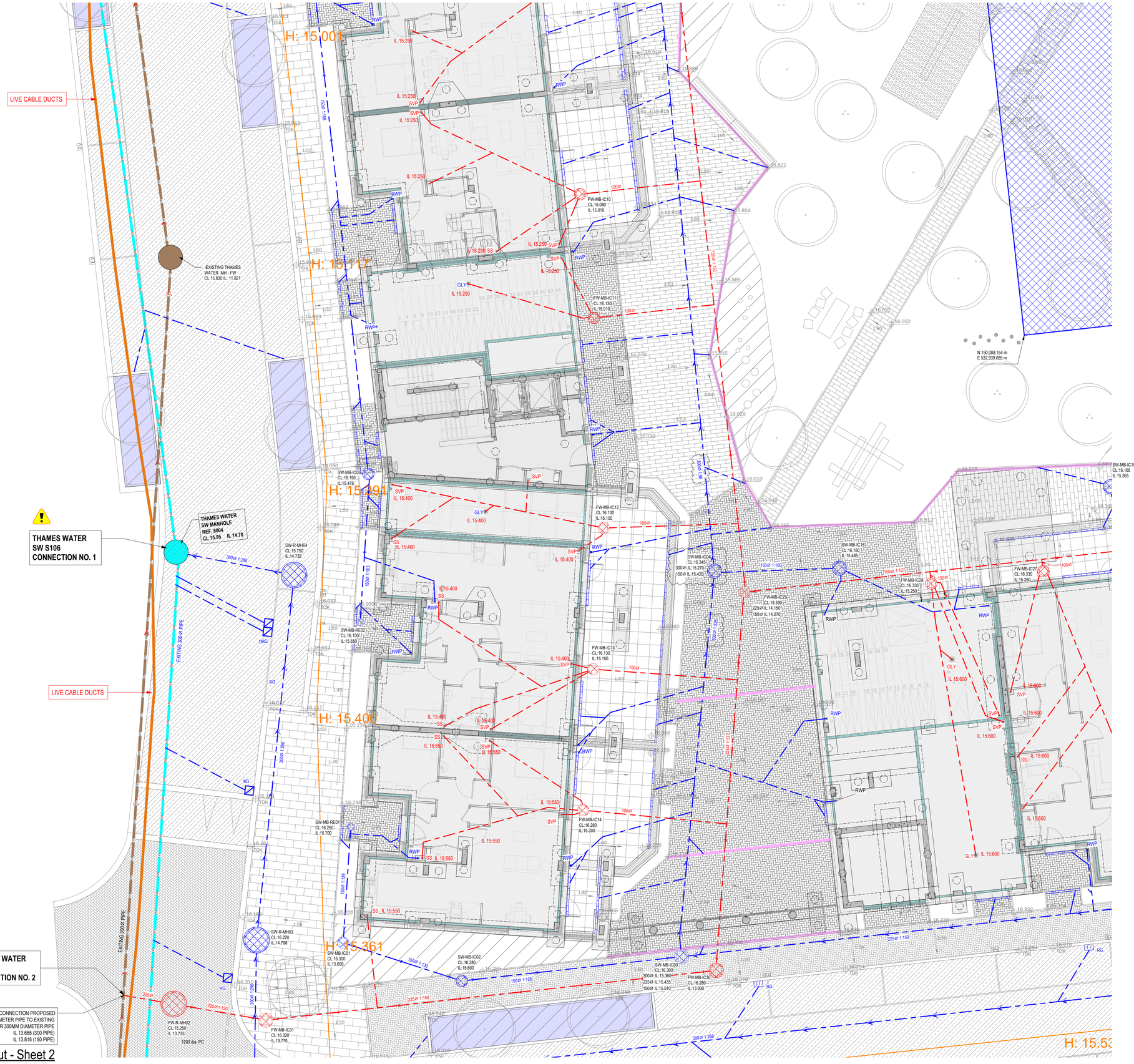
- See MWP's proposed below-ground drainage layout included in Appendix A.
- Causeway Flow modelling software has been used to simulate various storm events (up to a 1 in 100 years + 40% CC event) to support the proposed drainage strategy (see Appendix G for the report).
- All of the buildings collected runoff from the roof and external areas are piped through the drainage network, then through the attenuation tank before being discharged into the Thames Water manhole at the Northeast outside of the site on Willan Road, at a maximum controlled rate of 2.5 l/s
- The green roof is implemented to attenuate peak discharge and increase the time of concentration for surface water runoff.
- The proposed attenuation tank volume is 237m^3, see Drainage Layout in Appendix A for tank location.
- Typical operation and maintenance schedules explained and considered - specific device maintenance methods must be provided by the manufacturing company (see Appendix I).

The drainage strategy has been modelled and detailed, it is our opinion that the drainage strategy, as per the below ground drainage drawing included in Appendix A, provides an effective method for dealing with the surface water on site.

For the reasons outlined in this report, we believe that planning conditions 24 should be discharged.

Appendix A

MWP – Below Ground Drainage Layout



Site Wide Drainage Layout - Sheet 2

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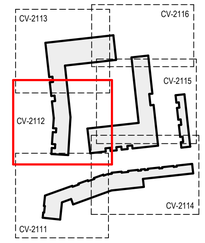
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DRAINAGE LEGEND

- BOUNDARY LINE
- EXISTING FOUL WATER SEWER
- EXISTING SURFACE WATER SEWER
- PROPOSED SURFACE WATER PIPE
- PROPOSED FOUL WATER PIPE
- EXISTING SEWER TO BE ABANDONED & REMOVED & DIVERTED
- EXISTING SEWER TO BE ABANDONED & REMOVED & DIVERTED
- THAMES WATER SURFACE/FOUL WATER SEWER MANHOLES
- PROPOSED 1.2m DIA. FOUL/SURFACE WATER MANHOLES ACCESS COVER TO BE 600x600 WITH DOUBLE SEALED RECESSED MANHOLE COVER
- PROPOSED 0.6m DIA. FOUL/SURFACE INSPECTION CHAMBERS. ACCESS COVER TO BE 450x450 WITH DOUBLE SEALED RECESSED MANHOLE COVER
- SURFACE WATER FLOW CONTROL DEVICE LIMITING DISCHARGE TO PUBLIC SEWER
- ACO CHANNEL TO LANDSCAPE ARCHITECTS DETAILS
- PERMEABLE PAVING LAYOUT
- RG — PROPOSED ROAD GULLY
- RWP — RAIN WATER PIPE
- SVP — SOIL VENT PIPE
- RE — RODDING EYE
- BD — BACKDROP MANHOLE
- AJ — ARMSTRONG JUNCTION
- UTR — UNABLE TO RAISE



KEY PLAN

REV	DATE	DESCRIPTION	BY	APP
C04	15.06.26	Revised as Clouded	TH	RS
C03	20.05.26	Drainage Runs Revised due to Foundation and Existing Live Services- Revised as Clouded	VH	RS
C02	27.04.26	Attenuation Tank Updated and Revised as Clouded	VH	RS
C01	10.04.26	Issued for Construction	VH	RS
P03	30.03.26	Channel drains added to terraces; changes clouded	VH	RS
P02	13.03.26	Issued for Information	VH	RS
P01	27.02.26	Issued for Information	VH	RS

PROJECT: Tangmere

TITLE: Site Wide Drainage Layout - Sheet 2

CLIENT: Formation D&B Ltd

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26015	27/02/26	As indicated

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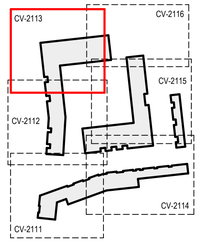
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C01	10.04.26	Issued for Construction	VH	RS
P04	30.03.26	Channel drains added to terraces; changes clouded	VH	RS
P03	13.03.26	Issued for Information	VH	RS
P02	13.02.26	Revised As Indicated	TH	RS
P01	27.02.26	Issued for Information	VH	RS

PROJECT:
Tangmere

TITLE:
Site Wide Drainage Layout - Sheet 3

CLIENT:
Formation D&B Ltd

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VH	DO	RS
PROJECT NUMBER:	DATE:	SCALE @ A1:
26015	27/02/26	As indicated
STATUS DESCRIPTION:		STATUS:
FOR CONSTRUCTION		A
DRAWING NUMBER:		REV:
TAN-MWP-XX-00-DR-CV-2113		C04

Site Wide Drainage Layout - Sheet 3

SCALE 1 : 100

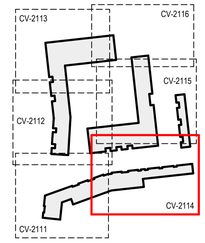
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5. DRAWINGS ARE NOT TO BE SCALED.
6. ALL TEMPORARY WORKS TO CONTRACTORS DETAILS.
7. CONTRACTOR TO APPROVE ALL SET OUT INFORMATION PRIOR TO CONSTRUCTION.

DRAINAGE LEGEND

- BOUNDARY LINE
- EXISTING FOUL WATER SEWER
- EXISTING SURFACE WATER SEWER
- PROPOSED SURFACE WATER PIPE
- PROPOSED FOUL WATER PIPE
- EXISTING SEWER TO BE ABANDONED & REMOVED & DIVERTED
- EXISTING SEWER TO BE ABANDONED & REMOVED & DIVERTED
- THAMES WATER SURFACE/FOUL WATER SEWER MANHOLES
- PROPOSED 1.2m DIA. FOUL/SURFACE WATER MANHOLES ACCESS COVER TO BE 600x600 WITH DOUBLE SEALED RECESSED MANHOLE COVER
- PROPOSED 0.6m DIA. FOUL/SURFACE INSPECTION CHAMBERS. ACCESS COVER TO BE 450x450 WITH DOUBLE SEALED RECESSED MANHOLE COVER
- SURFACE WATER FLOW CONTROL DEVICE LIMITING DISCHARGE TO PUBLIC SEWER
- ACO CHANNEL TO LANDSCAPE ARCHITECTS DETAILS
- PERMEABLE PAVING LAYOUT
- RG — PROPOSED ROAD GULLY
- RWP — RAIN WATER PIPE
- SVP — SOIL VENT PIPE
- RE — RODDING EYE
- BD — BACKDROP MANHOLE
- AJ — ARMSTRONG JUNCTION
- UTR — UNABLE TO RAISE



KEY PLAN

REV	DATE	DESCRIPTION	BY	APP
C04	15.06.26	General Updates to Town House Drainage	TH	RS
C03	20.05.26	Drainage Runs Revised due to Foundation and Existing Live Services- Revised as Clouded	VH	RS
C02	27.04.26	Attenuation Tank Updated and Revised as Clouded	VH	RS
C01	10.04.26	Issued for Construction	VH	RS
P03	30.03.26	Issued for Information	VH	RS
P02	13.03.26	Issued for Information	VH	RS
P01	27.02.26	Issued for Information	VH	RS

PROJECT: Tangmere

TITLE: Site Wide Drainage Layout - Sheet 4

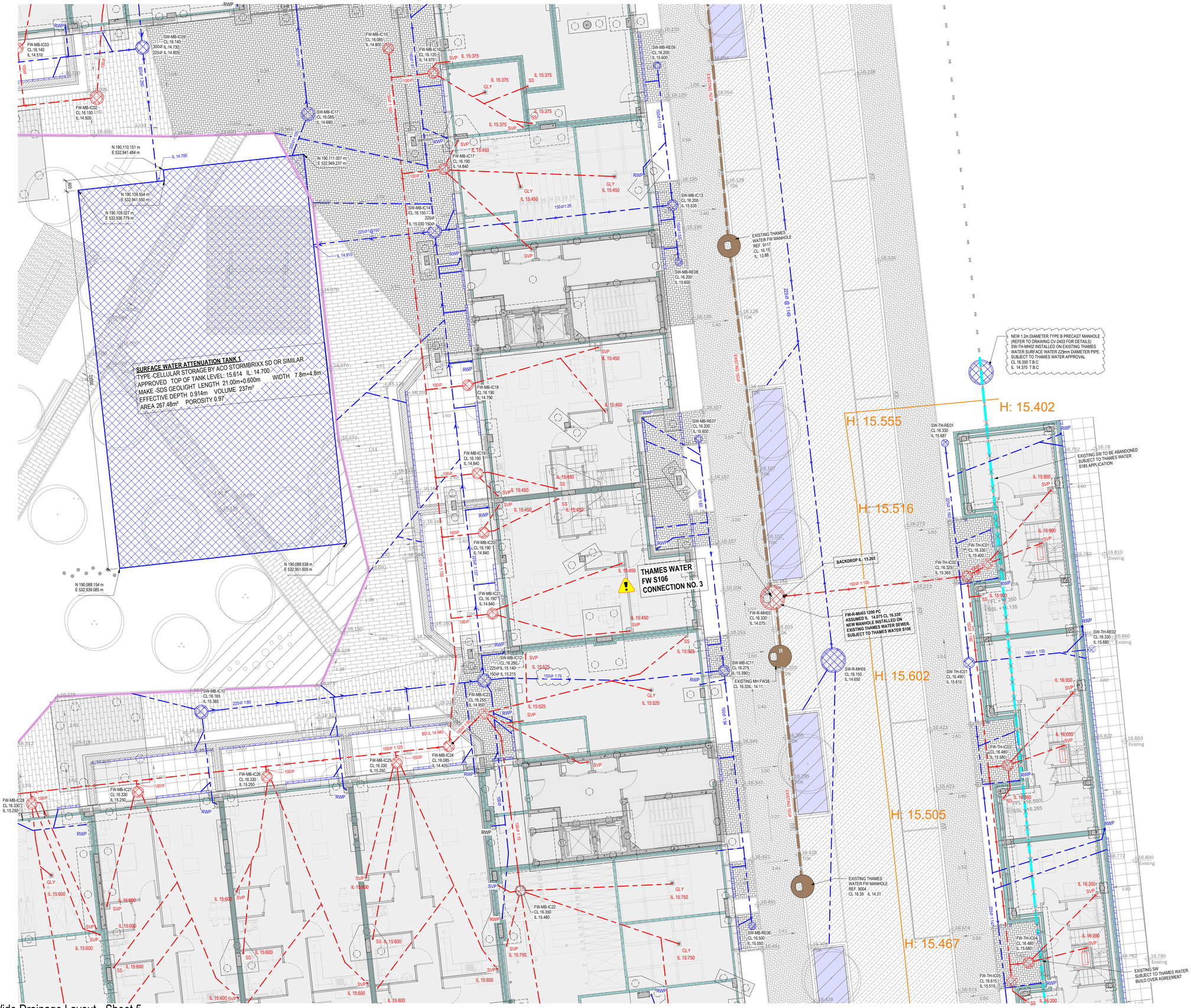
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VH	DO	RS
PROJECT NUMBER:	DATE:	SCALE @ A1:
26015	27/02/26	As indicated
STATUS DESCRIPTION:		STATUS:
FOR CONSTRUCTION		A
DRAWING NUMBER:		REV:
TAN-MWP-XX-00-DR-CV-2114		C04

Site Wide Drainage Layout - Sheet 4

SCALE 1 : 100



Site Wide Drainage Layout - Sheet 5

SCALE 1 : 100

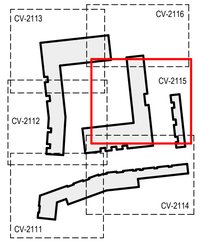
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5. DRAWINGS ARE NOT TO BE SCALED.
6. ALL TEMPORARY WORKS TO CONTRACTORS DETAILS.
7. CONTRACTOR TO APPROVE ALL SET OUT INFORMATION PRIOR TO CONSTRUCTION.

DRAINAGE LEGEND

- BOUNDARY LINE
- EXISTING FOUL WATER SEWER
- EXISTING SURFACE WATER SEWER
- PROPOSED SURFACE WATER PIPE
- PROPOSED FOUL WATER PIPE
- EXISTING SEWER TO BE ABANDONED & REMOVED & DIVERTED
- EXISTING SEWER TO BE ABANDONED & REMOVED & DIVERTED
- THAMES WATER SURFACE/FOUL WATER SEWER MANHOLES
- PROPOSED 1.2m DIA. FOUL/SURFACE WATER MANHOLES ACCESS COVER TO BE 600x600 WITH DOUBLE SEALED RECESSED MANHOLE COVER
- PROPOSED 0.6m DIA. FOUL/SURFACE INSPECTION CHAMBERS. ACCESS COVER TO BE 450x450 WITH DOUBLE SEALED RECESSED MANHOLE COVER
- SURFACE WATER FLOW CONTROL DEVICE LIMITING DISCHARGE TO PUBLIC SEWER
- ACO CHANNEL TO LANDSCAPE ARCHITECTS DETAILS
- PERMEABLE PAVING LAYOUT
- RG — PROPOSED ROAD GULLY
- RWP — RAIN WATER PIPE
- SVP — SOIL VENT PIPE
- RE — RODDING EYE
- BD — BACKDROP MANHOLE
- AJ — ARMSTRONG JUNCTION
- UTR — UNABLE TO RAISE



KEY PLAN

REV	DATE	DESCRIPTION	BY	APP
C04	15.06.26	Revised as Clouded	TH	RS
C03	20.05.26	Drainage Runs Revised due to Foundation and Existing Live Services- Revised as Clouded	VH	RS
C02	27.04.26	Attenuation Tank Updated and Revised as Clouded	VH	RS
C01	10.04.26	Issued for Construction	VH	RS
P03	30.03.26	Channel drains added to terraces; changes clouded	VH	RS
P02	13.03.26	Issued for Information	VH	RS
P01	27.02.26	Issued for Information	VH	RS

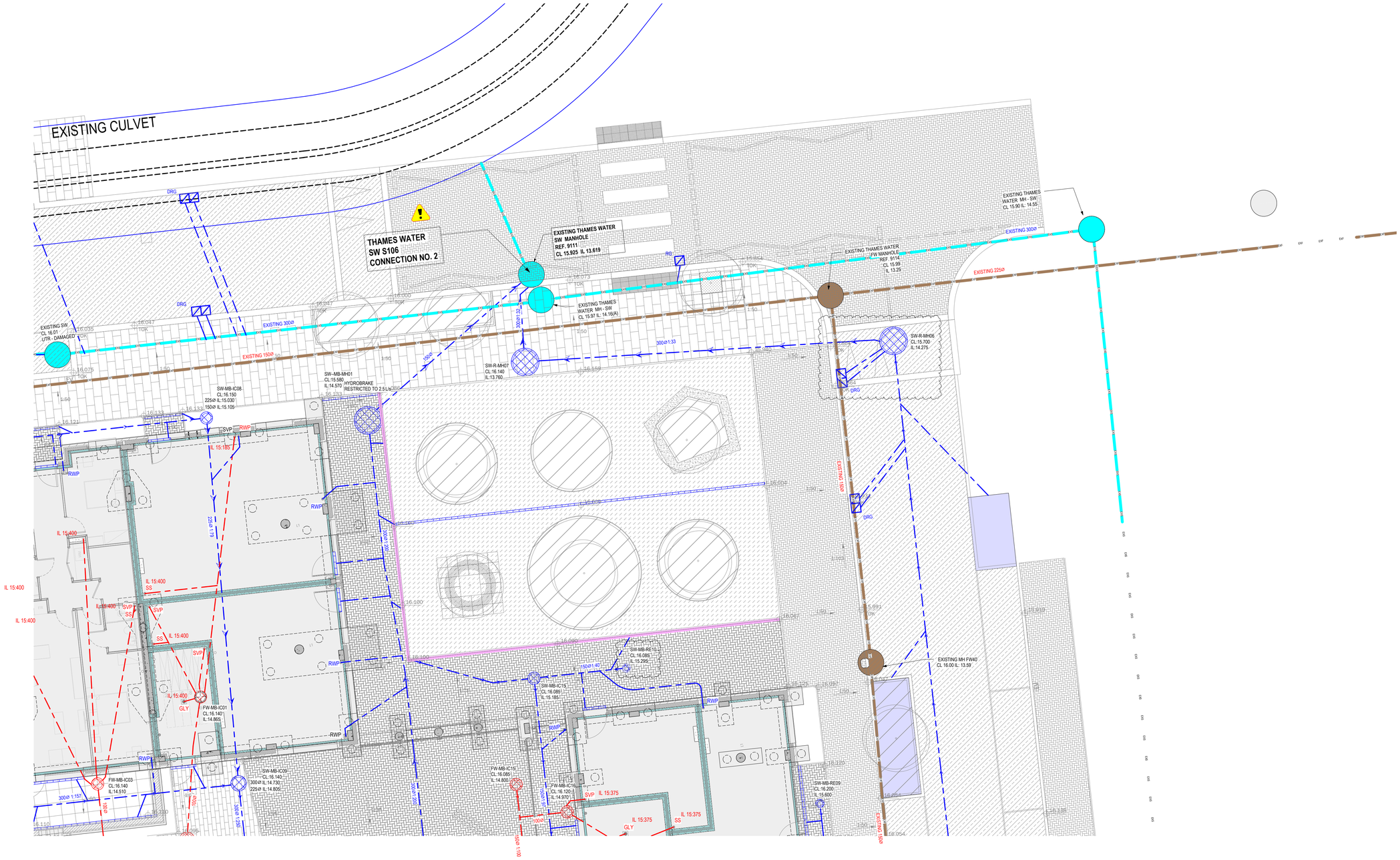
PROJECT: Tangmere

TITLE: Site Wide Drainage Layout - Sheet 5

CLIENT: Formation D&B Ltd

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PROJECT NUMBER:	DATE:	SCALE @ A1:
26015	27/02/26	As indicated
STATUS DESCRIPTION:		STATUS:
FOR CONSTRUCTION		A
DRAWING NUMBER:		REV:
TAN-MWP-XX-00-DR-CV-2115		C04



Site Wide Drainage Layout - Sheet 6

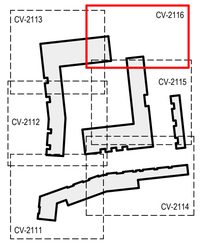
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DRAINAGE LEGEND

- BOUNDARY LINE
- EXISTING FOUL WATER SEWER
- EXISTING SURFACE WATER SEWER
- PROPOSED SURFACE WATER PIPE
- PROPOSED FOUL WATER PIPE
- EXISTING SEWER TO BE ABANDONED & REMOVED & DIVERTED
- EXISTING SEWER TO BE ABANDONED & REMOVED & DIVERTED
- THAMES WATER SURFACE/FOUL WATER SEWER MANHOLES
- PROPOSED 1.2m DIA. FOUL/SURFACE WATER MANHOLES ACCESS COVER TO BE 600x600 WITH DOUBLE SEALED RECESSED MANHOLE COVER
- PROPOSED 0.6m DIA. FOUL/SURFACE INSPECTION CHAMBERS. ACCESS COVER TO BE 450x450 WITH DOUBLE SEALED RECESSED MANHOLE COVER
- SURFACE WATER FLOW CONTROL DEVICE LIMITING DISCHARGE TO PUBLIC SEWER
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- RE — RODDING EYE
- BD — BACKDROP MANHOLE
- AJ — ARMSTRONG JUNCTION
- UTR — UNABLE TO RAISE



KEY PLAN

REV	DATE	DESCRIPTION	BY	APP
C05	15.06.26	Revised as Clouded	TH	RS
C04	20.05.26	Drainage Runs Revised due to Foundation and Existing Live Services- Revised as Clouded	VH	RS
C03	27.04.26	Attenuation Tank Updated and Revised as Clouded	VH	RS
C02	13.04.26	Revised as Clouded	VH	RS
C01	10.04.26	Issued for Construction	VH	RS
P03	30.03.26	Channel drains added to terraces; changes clouded	VH	RS
P02	13.03.26	Issued for Information	VH	RS
P01	27.02.26	Issued for Information	VH	RS

PROJECT: Tangmere

TITLE: Site Wide Drainage Layout - Sheet 6

CLIENT: Formation D&B Ltd

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PROJECT NUMBER:	DATE:	SCALE @ A1:
26015	27/02/26	As indicated
STATUS DESCRIPTION:		STATUS:
FOR CONSTRUCTION		A
DRAWING NUMBER:		REV:
TAN-MWP-XX-00-DR-CV-2116		C05

MAIN BUILDING FOUL WATER MANHOLE SCHEDULE

MH REF	Cover LvL. (m)	Invert LvL. (m)	Load Class	Manhole Depth (m)	Internal MH DIA (m)	Manhole Type	Easting (To Centre)(m)	Northing (To Centre)(m)
FW-MB-IC01	16.140	14.865	D400	1.275	0.450	PPIC	532938.477 m	190121.126 m
FW-MB-IC02	16.150	14.500	D400	1.650	0.600	PPIC	532937.819 m	190114.138 m
FW-MB-IC03	16.140	14.510	D400	1.630	0.450	PPIC	532933.443 m	190116.875 m
FW-MB-IC04	16.140	14.510	D400	1.630	0.450	PPIC	532926.290 m	190116.084 m
FW-MB-IC05	16.140	14.665	D400	1.475	0.450	PPIC	532920.028 m	190115.393 m
FW-MB-IC06	16.130	14.380	D400	1.750	0.450	PPIC	532920.397 m	190112.213 m
FW-MB-IC07	16.150	15.000	D400	1.150	0.450	PPIC	532912.388 m	190122.962 m
FW-MB-IC08	16.000	14.800	D400	1.200	0.450	PPIC	532913.675 m	190111.471 m
FW-MB-IC09	16.080	15.010	D400	1.070	0.450	PPIC	532914.644 m	190106.511 m
FW-MB-IC10	16.080	15.010	D400	1.070	0.450	PPIC	532915.857 m	190095.529 m
FW-MB-IC11	16.130	15.010	D400	1.120	0.450	PPIC	532916.572 m	190089.055 m
FW-MB-IC12	16.130	15.100	D400	1.030	0.450	PPIC	532917.080 m	190078.069 m
FW-MB-IC13	16.130	15.100	D400	1.030	0.450	PPIC	532916.535 m	190070.685 m
FW-MB-IC14	16.280	15.300	D400	0.980	0.450	PPIC	532916.006 m	190063.311 m
FW-MB-IC15	16.085	14.800	D400	1.285	0.450	PPIC	532953.911 m	190116.844 m
FW-MB-IC16	16.120	14.970	D400	1.150	0.450	PPIC	532956.404 m	190115.502 m
FW-MB-IC17	16.190	14.840	D400	1.350	0.450	PPIC	532956.991 m	190110.195 m
FW-MB-IC18	16.190	14.790	D400	1.400	0.450	PPIC	532958.308 m	190098.268 m
FW-MB-IC19	16.190	14.840	D400	1.350	0.450	PPIC	532958.846 m	190093.397 m
FW-MB-IC20	16.190	14.840	D400	1.350	0.450	PPIC	532959.185 m	190090.119 m
FW-MB-IC21	16.190	14.840	D400	1.350	0.450	PPIC	532959.679 m	190085.647 m
FW-MB-IC22	16.350	15.480	D400	0.870	0.450	PPIC	532961.221 m	190070.357 m
FW-MB-IC23	16.255	14.950	D400	1.305	0.450	PPIC	532959.190 m	190080.129 m
FW-MB-IC24	16.085	14.405	D400	1.680	0.450	PPIC	532957.260 m	190078.325 m
FW-MB-IC25	16.330	15.250	D400	1.080	0.450	PPIC	532954.378 m	190077.397 m
FW-MB-IC26	16.330	15.250	D400	1.080	0.450	PPIC	532947.205 m	190076.637 m
FW-MB-IC27	16.330	15.250	D400	1.080	0.450	PPIC	532940.082 m	190075.811 m
FW-MB-IC28	16.330	15.250	D400	1.080	0.450	PPIC	532934.217 m	190075.163 m
FW-MB-IC29	16.330	14.150	D400	2.180	0.450	PPIC	532924.453 m	190074.713 m
FW-MB-IC30	16.280	13.930	D400	2.350	0.600	PPIC	532922.969 m	190054.934 m
FW-MB-IC31	16.320	13.770	D400	2.550	0.600	PPIC	532899.413 m	190052.331 m

MAIN BUILDING STORM WATER MANHOLE SCHEDULE

MH REF	Cover LvL. (m)	Invert LvL. (m)	Load Class	Manhole Depth (m)	Internal MH DIA (m)	Manhole Type	Easting (To Centre)(m)	Northing (To Centre)(m)
SW-MB-IC01	16.300	15.650	D400	0.650	0.450	PPIC	532903.454 m	190056.384 m
SW-MB-IC02	16.280	15.600	D400	0.680	0.450	PPIC	532909.661 m	190054.381 m
SW-MB-IC03	16.300	15.360	D400	0.940	0.600	PPIC	532921.159 m	190055.652 m
SW-MB-IC04	16.345	15.270	D400	1.075	0.600	PPIC	532922.879 m	190075.821 m
SW-MB-IC05	16.150	15.475	D400	0.675	0.450	PPIC	532904.772 m	190080.898 m
SW-MB-IC06	16.000	15.180	D400	0.820	0.450	PPIC	532901.273 m	190112.541 m
SW-MB-IC07	16.130	14.865	D400	1.265	0.600	PPIC	532919.267 m	190114.530 m
SW-MB-IC08	16.150	15.030	D400	1.120	0.450	PPIC	532938.763 m	190134.761 m
SW-MB-IC09	16.140	14.730	D400	1.410	0.600	PPIC	532940.336 m	190116.901 m
SW-MB-IC10	16.165	15.365	D400	0.800	0.600	PPIC	532943.595 m	190080.227 m
SW-MB-IC11	16.275	15.390	D400	0.885	0.450	PPIC	532972.455 m	190082.508 m
SW-MB-IC12	16.290	15.140	D400	1.150	0.600	PPIC	532959.212 m	190081.963 m
SW-MB-IC13	16.200	15.535	D400	0.665	0.450	PPIC	532969.616 m	190108.207 m
SW-MB-IC14	16.150	14.955	D400	1.195	0.600	PPIC	532956.475 m	190106.755 m
SW-MB-IC15	16.085	15.185	D400	0.900	0.450	PPIC	532954.786 m	190122.039 m
SW-MB-IC16	16.180	15.485	D400	0.695	0.600	PPIC	532929.413 m	190075.972 m
SW-MB-IC17	16.085	14.680	D400	1.405	0.600	PPIC	532949.486 m	190113.233 m
SW-MB-RE01	16.250	15.700	D400	0.550	0.250		532903.855 m	190062.423 m
SW-MB-RE02	16.100	15.550	D400	0.550	0.250		532904.344 m	190073.168 m
SW-MB-RE03	16.150	15.550	D400	0.600	0.250		532900.436 m	190120.116 m
SW-MB-RE04	16.150	15.350	D400	0.800	0.250		532902.146 m	190130.715 m
SW-MB-RE05	16.480	15.755	D400	0.725	0.250		532969.232 m	190060.963 m
SW-MB-RE06	16.500	15.550	D400	0.950	0.250		532974.011 m	190068.423 m
SW-MB-RE07	16.200	15.600	D400	0.600	0.250		532971.043 m	190095.293 m
SW-MB-RE08	16.200	15.600	D400	0.600	0.250		532969.964 m	190105.059 m
SW-MB-RE09	16.200	15.600	D400	0.600	0.250		532968.764 m	190115.921 m
SW-MB-RE10	16.085	15.295	D400	0.790	0.250		532959.296 m	190122.537 m

ROAD FOUL WATER MANHOLE SCHEDULE

MH REF	Cover LvL. (m)	Invert LvL. (m)	Load Class	Manhole Depth (m)	Internal MH DIA (m)	Manhole Type	Easting (To Centre)(m)	Northing (To Centre)(m)
FW-R-MH01	17.050	14.865	D400	2.185	1.200	PC	532893.087 m	190032.204 m
FW-R-MH02	16.250	13.735	D400	2.515	1.200	PC	532894.594 m	190053.171 m
FW-R-MH03	16.330	14.075	D400	2.255	1.200	PC	532975.142 m	190086.542 m

ROAD STORM WATER MANHOLE SCHEDULE

MH REF	Cover LvL. (m)	Cover LvL. (m)	Load Class	Manhole Depth (m)	Internal MH DIA (m)	Manhole Type	Easting (To Centre)(m)	Northing (To Centre)(m)
SW-R-MH01	16.225	15.065	D400	1.160	1.200	PC	532962.735 m	190055.740 m
SW-R-MH02	16.250	14.825	D400	1.425	1.200	PC	532898.796 m	190048.654 m
SW-R-MH03	16.220	14.798	D400	1.422	1.200	PC	532898.923 m	190056.521 m
SW-R-MH04	15.750	14.732	D400	1.018	1.200	PC	532900.887 m	190075.609 m
SW-R-MH05	16.150	14.650	D400	1.500	1.200	PC	532978.491 m	190083.086 m
SW-R-MH06	15.700	14.275	D400	1.425	1.200	PC	532972.365 m	190138.535 m
SW-R-MH07	16.140	13.760	D400	2.380	1.200	PC	532954.350 m	190137.495 m

TOWN HOUSE FOUL WATER MANHOLE SCHEDULE

MH REF	Cover LvL. (m)	Cover LvL. (m)	Load Class	Manhole Depth (m)	Internal MH DIA (m)	Manhole Type	Easting (To Centre)(m)	Northing (To Centre)(m)
FW-TH-IC01	16.330	15.400	D400	0.930	0.450	PPIC	532986.987 m	190088.403 m
FW-TH-IC02	16.325	15.365	D400	0.960	0.450	PPIC	532985.885 m	190087.724 m
FW-TH-IC03	16.480	15.580	D400	0.900	0.450	PPIC	532988.130 m	190077.284 m
FW-TH-IC04	16.480	15.680	D400	0.800	0.450	PPIC	532989.286 m	190066.388 m
FW-TH-IC05	16.615	15.515	D400	1.100	0.450	PPIC	532988.351 m	190065.397 m
FW-TH-IC06	16.690	15.520	D400	1.170	0.450	PPIC	532986.322 m	190050.688 m
FW-TH-IC07	16.690	15.450	D400	1.240	0.450	PPIC	532977.319 m	190049.165 m
FW-TH-IC08	16.465	15.405	D400	1.060	0.450	PPIC	532967.927 m	190048.224 m
FW-TH-IC09	16.465	15.355	D400	1.110	0.450	PPIC	532960.112 m	190047.396 m
FW-TH-IC10	16.465	15.315	D400	1.150	0.450	PPIC	532954.476 m	190046.786 m
FW-TH-IC11	16.465	15.285	D400	1.180	0.450	PPIC	532949.377 m	190046.198 m
FW-TH-IC12	16.465	15.285	D400	1.180	0.450	PPIC	532943.763 m	190045.580 m
FW-TH-IC13	16.450	15.210	D400	1.240	0.450	PPIC	532940.284 m	190045.649 m
FW-TH-IC14	16.455	15.285	D400	1.170	0.450	PPIC	532937.383 m	190044.139 m
FW-TH-IC15	16.455	15.285	D400	1.170	0.450	PPIC	532932.146 m	190042.171 m
FW-TH-IC16	16.455	15.285	D400	1.170	0.450	PPIC	532927.245 m	190040.395 m
FW-TH-IC17	16.670	15.500	D400	1.170	0.450	PPIC	532921.923 m	190038.501 m
FW-TH-IC18	16.690	15.500	D400	1.190	0.450	PPIC	532917.090 m	190036.750 m
FW-TH-IC19	16.915	15.500	D400	1.415	0.450	PPIC	532909.388 m	190034.002 m
FW-TH-IC20	17.130	14.915	D400	2.215	0.450	PPIC	532899.218 m	190030.550 m
FW-TH-IC21	17.745	16.475	D400	1.270	0.450	PPIC	532898.597 m	190023.984 m
FW-TH-IC22	17.730	16.275	D400	1.455	0.450	PPIC	532897.561 m	190020.638 m

TOWN HOUSE STORM WATER MANHOLE SCHEDULE

MH REF	Cover LvL. (m)	Invert LvL. (m)	Load Class	Manhole Depth (m)	Internal MH DIA (m)	Manhole Type	Notes	Easting (To Centre)(m)	Northing (To Centre)(m)
SW-TH-IC01	16.490	15.615	D400	0.875	0.450	PPIC		532986.002 m	190082.941 m
SW-TH-IC02	16.640	15.465	D400	1.175	0.450	PPIC		532988.429 m	190060.974 m
SW-TH-IC03	16.690	15.360	D400	1.330	0.450	PPIC		532987.398 m	190051.605 m
SW-TH-IC04	16.460	15.210	D400	1.250	0.450	PPIC		532962.013 m	190048.800 m
SW-TH-IC05	17.000	15.450	D400	1.550	0.450	PPIC	CATCHPIT MH	532916.163 m	190027.206 m
SW-TH-IC06	17.300	15.465	D400	1.835	0.450	PPIC		532898.382 m	190032.105 m
SW-TH-IC07	16.435	15.160	D400	1.275	0.450	PPIC		532927.219 m	190042.206 m
SW-TH-IC08	16.200	15.005	D400	1.195	0.450	PPIC		532927.523 m	190044.190 m
SW-TH-IC09	17.650	16.500	D400	1.150	0.450	PPIC	CATCHPIT MH	532898.562 m	190015.161 m
SW-TH-IC10	17.730	16.474	D400	1.256	0.450			532896.274 m	190016.095 m
SW-TH-IC11	16.555	15.350	D400	1.205	0.450	PPIC		532924.058 m	190039.239 m
SW-TH-IC12	16.455	15.245	D400	1.210	0.450	PPIC		532926.072 m	190039.955 m
SW-TH-MH01	16.585	14.982	D400	1.603	1.200	PC		532904.799 m	190043.213 m
SW-TH-MH02	16.350	14.370	D400	1.980	1.200	PC		532986.861 m	190096.989 m
SW-TH-RE01	16.330	15.687	D400	0.643	0.250			532984.663 m	190095.067 m
SW-TH-RE02	16.330	15.680	D400	0.650	0.250			532992.791 m	190083.712 m
SW-TH-RE03	16.630	15.730	D400	0.900	0.250			532995.168 m	190061.719 m

DO NOT SCALE FROM THIS DRAWING. USE FIGURED DIMENSIONS IN ALL CASES. VERIFY DIMENSIONS ON SITE AND REPORT ANY DISCREPANCIES TO THE DESIGNERS IMMEDIATELY.
THIS DRAWING TO BE READ IN CONJUNCTION WITH THE DESIGNERS SPECIFICATION.
© THIS DRAWING IS COPYRIGHT AND MAY ONLY BE REPRODUCED WITH THE DESIGNERS PERMISSION.

1. ALL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH ALL RELEVANT SPECIFICATIONS, BILLS OF QUANTITIES, ARCHITECTURAL, SERVICES AND ENGINEERING DRAWINGS.
2. ANY DISCREPENCIES BETWEEN THESE DOCUMENTS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER.
3. ALL DIMENSIONS ARE IN MILLIMETRES, UNLESS NOTED OTHERWISE. TBC ON SITE
4. ALL LEVELS ARE IN METRES RELATED TO ORDNANCE DATUM. TBC ON SITE
5. DRAWINGS ARE NOT TO BE SCALED.
6. ALL TEMPORARY WORKS TO CONTRACTORS DETAILS.
7. CONTRACTOR TO APPROVE ALL SET OUT INFORMATION PRIOR TO CONSTRUCTION.

REV	DATE	DESCRIPTION	BY	APP
C04	15.06.26	Revised as Clouded	TH	RS
C03	20.05.26	Drainage Runs Revised due to Foundation and Existing Live Services- Revised as Clouded	VH	RS
C02	13.04.26	Revised as Clouded	VH	RS
C01	10.04.26	Issued for Construction	VH	RS
P03	30.03.26	Channel drains added to terraces; changes clouded	VH	RS
P02	13.03.26	Issued for Information	VH	RS
P01	27.02.26	Issued for Information	VH	RS

PROJECT:
Tangmere

TITLE:
Manhole Schedules

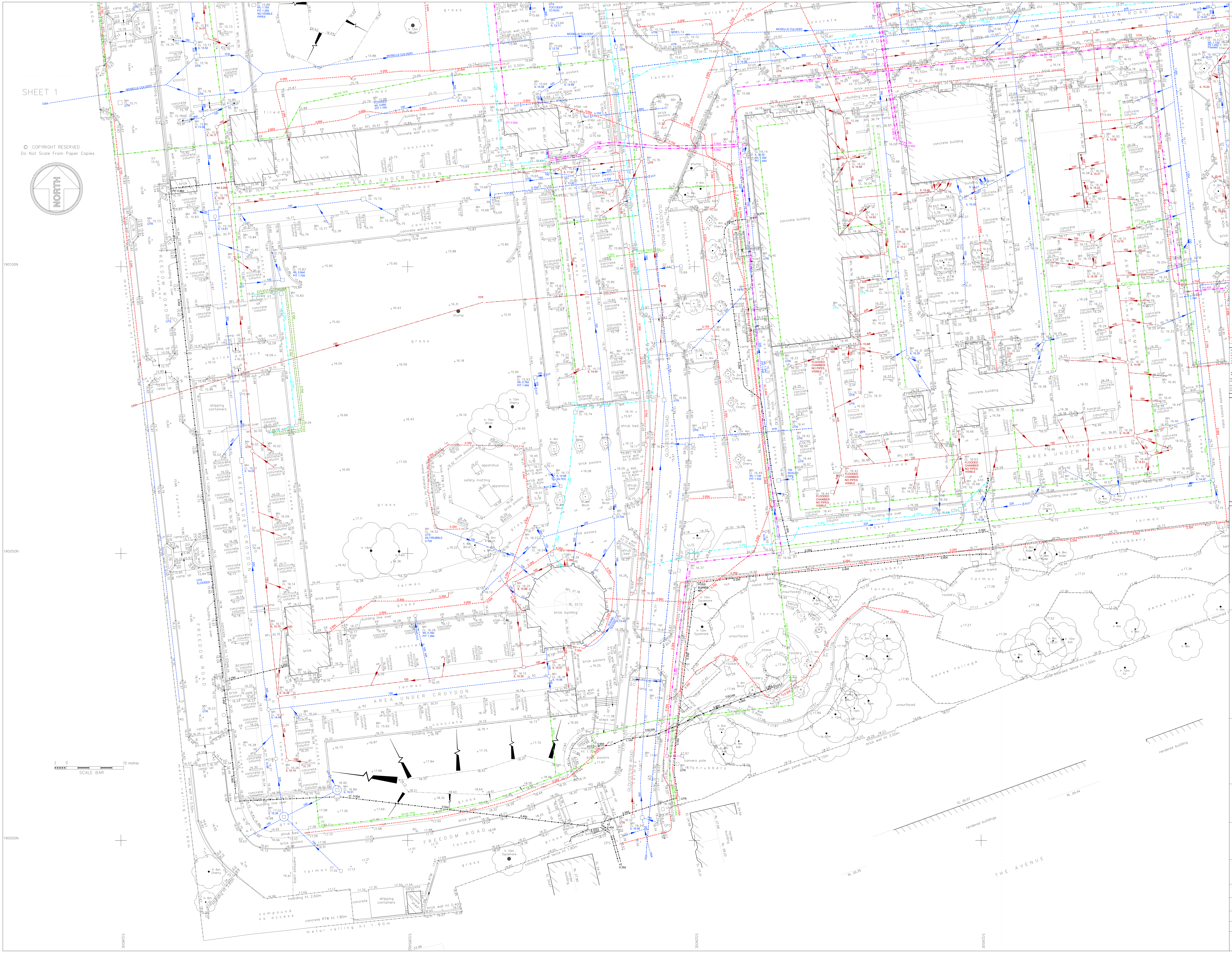
CLIENT:
Formation D&B Ltd

MWP
ENGINEERING AND ENVIRONMENTAL CONSULTANTS
CORK | TRALEE | LONDON | LIMERICK
mwalsh.co.uk

DRAWN:	CHECKED:	APPROVED:
VH	DO	RS
PROJECT NUMBER:	DATE:	SCALE @ A1:
26015	27/02/26	
STATUS DESCRIPTION:		STATUS:
FOR CONSTRUCTION		A
DRAWING NUMBER:		REV:
TAN-MWP-XX-00-DR-CV-2117		C04

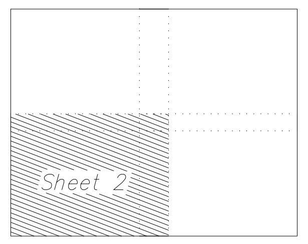
Appendix B

Topographical Survey



Note: The underground services information has been supplied by Site Vision Surveys Ltd

Sheet Layout



Revision	Description	Date
A	Underground services added, footprints for Northolt, Kenley and Tangmere updated.	23.04.18

UTILITY NOTES

MAIN ELECTRIC LOCATED FROM EP AT THE REAR OF THE SITE.
UNABLE TO TRACE P.E WATER FROM METER AT THE FRONT OF THE SITE.
NO GAS ON SITE - OIL TANK TO THE REAR OF THE SCHOOL.
UNABLE TO LOCATE BT CABLE DUE TO CONGESTED AREA.
UNABLE TO LOCATE FOUL OUTFALL DUE TO OBSTRUCTIONS IN THE AREA - A/R SHOWN.
NO STORM WATER MANHOLES ON SITE.

AREAS ON SITE WERE UNABLE TO ACCESS AND FULLY SURVEY DUE TO PLAY EQUIPMENT AND BUILDINGS ETC, SERVICES WITHIN THESE AREAS HAVE ASSUMED ROUTES.

ALL UTILITIES AND FEATURES SHOWN BY SVS HAVE BEEN ADDED TO BASEPLAN BY CREATING A SCALE HAND DRAWING ON SITE THEN TRANSFERRING TO CAD.

DUE TO POTENTIAL INACCURACIES THAT MAY ARISE FROM SUCH TECHNIQUES THE LOCATION OF ALL SVS DRAWN FEATURES MUST BE TREATED AS INDICATIVE AND ANY CRITICAL DIMENSIONS CONFIRMED ON SITE.

LEGEND

- Foul Drainage
- Surface Drainage
- Combined Drainage
- Electricity
- Electricity High Voltage
- Traffic Signals
- Gas
- Water
- Cable Television
- Close Circuit Television
- Communication
- British Telecom
- Compressed Air
- Offset Fill-Line
- Oil Pipe
- Pipe
- Ventilation
- Fuel Line
- Vapour Recovery
- Gauge Line
- Telemetry
- Fibre Optics
- Unknown
- Overhead Line
- Historical by Layer
- End Of Trace

▨ Do Not Drill / Banded Pipes
☒ T TANK* - W= Water U=Unknown
F=Foam
P=Product
C=Concrete
● Borehole / SVS
⋈ Trial Pit Location
☒ STANTION
◢ PUMP ISLAND

LEGEND

A/R	ASSUMED ROUTE	OSA	OFF SURVEY AREA
BOLL	BOLLARD		
ILLU BOLL	ILLUMINOUS BOLLARD	PR	PIPE RISER
BH	BOREHOLE	P&R FENCE	POST & RAIL FENCE
BTIC	BRITISH TELECOM COVER	RET WALL	RETAINING WALL
C/BOX	CONTROL BOX	RE	RODDING EYE
C/B FENCE	CLOSEBOARD FENCE	RS	ROAD SIGN
CR	CABLE RISER	RWP	RAIN WATER PIPE
CTV	CABLE TV	S/A	SOAK AWAY
CP	CATCHPIT	SAP	SAPLING
CONC	CONCRETE	S/C	SOUND CONNECTED
CL	COVER LEVEL	SEC FENCE	SECURITY FENCE
D	DEPTH / DEEP	SL	SPOT LIGHT
D/CHAN	DRAINAGE CHANNEL	SP	SOIL PIPE
DP	DOWN PIPE	ST	STOP TAP
EIC	ELECTRICITY COVER	STN	STATION (DATUM POINT)
ER	EARTH ROD	SV	STOP VALVE
EP	ELECTRICITY POLE	SVP	SOIL VENT PIPE
EOT	END OF TRACE	TBM	TEMPORARY BENCH MARK
FFL	FINISHED FLOOR LEVEL	TCL	TREE CANOPY LEVEL
F/BED	FLOWER BED	TOW	TOP OF WALL LEVEL
FH	FIRE HYDRANT	TFR	TAKEN FROM RECORDS
FS	FIRE SWITCH	THL	THRESHOLD LEVEL
GV	GAS VALVE	TL	TRAFFIC LIGHT
G	GULLY	TP	TELEGRAPH POLE
G-RUN	GULLY RUN	UTL	UNABLE TO LOCATE
HT	HEIGHT	UTR	UNABLE TO RAISE
IC	INSPECTION COVER	UTS	UNABLE TO SURVEY
IL	INVERT LEVEL	UTT	UNABLE TO TRACE
LP	LAMP POST	VR	VAPOUR RECOVERY
MH	MANHOLE	VP	VENT PIPE
MKR	MARKER	WM	WATER METER
MTR	METER	WFC	WATER FILLED CHAMBER
MW	MONITORING WELL	WP	WASTE PIPE
OH	OVERHEAD	U/S	UNDERSIDE
		Ø	DIAMETER

DISCLAIMER: THE LOCATION OF UNDER GROUND SERVICES SHOWN ON THIS DRAWING HAS BEEN DETERMINED USING ELECTRO-MAGNETIC (AND/OR GROUND PROBING RADAR, WHERE REQUESTED) TECHNIQUES AND VISUAL OBSERVATIONS. THE LIMITATIONS OF THIS DRAWING SHOULD BE REALISED AND NO GUARANTEE CAN BE GIVEN THAT ALL SERVICES HAVE BEEN IDENTIFIED. THIS DRAWING MAY NOT INCLUDE THE LOCATION OF ALL PUBLIC SERVICES THAT MAY CROSS THE SITE AND THEREFORE THE RELEVANT SERVICE DRAWINGS SHOULD BE OBTAINED FROM THE APPROPRIATE UTILITY COMPANY AND USED IN CONJUNCTION WITH THIS DRAWING. ADDITIONAL SERVICES, STRUCTURES OR OTHER BELOW GROUND OBSTRUCTIONS NOT INDICATED ON THIS DRAWING MAY BE PRESENT ON SITE. REFERENCE SHOULD BE MADE TO HISTORICAL PLANS AND AS BUILT DRAWINGS. EXCAVATIONS IN THE VICINITY OF SERVICES SHOULD BE CARRIED OUT WITH DUE DILIGENCE REF: HSG47 DOCUMENT "AVOIDING DANGERS FROM UNDERGROUND SERVICES". LOCATION ACCURACY IS DETERMINED BY REFERING TO MANUFACTURERS GUIDELINES FOR THE SYSTEMS DEPLOYED. REFERENCE SHOULD BE MADE TO THE LATEST VERSION OF SVS LTD SITE PROCEDURES DOCUMENT FOR UTILITY LOCATION SURVEYS.

terrain
Land and Architectural Surveyors

Terrain Surveys Ltd
Bridge Chambers
28a High Street
Welwyn
Herts
AL6 9EQ

Tel 01438 841300
Fax 01438 841301
enquiries@terrainsurveys.co.uk
www.terrainsurveys.co.uk

THE SURVEY ASSOCIATION

Client
ENGIE

Project
BROADWATER FARM ESTATE,
LONDON N17

Title
UNDERGROUND SURVEY

Drawn by JT	*Checked by* PG
Scale 1:200@A0	*Date* MAR 2018
Drawing Number TS18–077T\6	*Revision* A
Sheet 2 *of* 4	

All levels related to Ordnance Survey active GPS network, at survey station 40.

Value 15.952m

Appendix C

Thames Water Asset Map

Asset location search

Property Searches

Search address supplied: Haringey Building Design Service, 157, Gloucester Road, London, N17 6JW

Dear Sir / Madam

An Asset Location Search is recommended when undertaking a site development. It is essential to obtain information on the size and location of clean water and sewerage assets to safeguard against expensive damage and allow cost-effective service design.

The following records were searched in compiling this report: - the map of public sewers & the map of waterworks. Thames Water Utilities Ltd (TWUL) holds all of these.

This searchprovides maps showing the position, size of Thames Water assets close to the proposed development and also manhole cover and invert levels, where available.

Please note that none of the charges made for this report relate to the provision of Ordnance Survey mapping information. The replies contained in this letter are given following inspection of the public service records available to this company. No responsibility can be accepted for any error or omission in the replies.

You should be aware that the information contained on these plans is current only on the day that the plans are issued. The plans should only be used for the duration of the work that is being carried out at the present time. Under no circumstances should this data be copied or transmitted to parties other than those for whom the current work is being carried out.

Thames Water do update these service plans on a regular basis and failure to observe the above conditions could lead to damage arising to new or diverted services at a later date.

Contact Us

If you have any further queries regarding this enquiry please feel free to contact a member of the team on 0845 070 9148, or use the address below:

Thames Water Utilities Ltd
Property Searches
PO Box 3189
Slough
SL1 4WW

Email: searches@thameswater.co.uk
Web: www.thameswater-propertysearches.co.uk

Asset location search

Property Searches

Waste Water Services

Please provide a copy extract from the public sewer map.

The following quartiles have been printed as they fall within Thames' sewerage area:

TQ3390SW
TQ3289NE
TQ3290SE
TQ3389NW

Enclosed is a map showing the approximate lines of our sewers. Our plans do not show sewer connections from individual properties or any sewers not owned by Thames Water unless specifically annotated otherwise. Records such as "private" pipework are in some cases available from the Building Control Department of the relevant Local Authority.

Where the Local Authority does not hold such plans it might be advisable to consult the property deeds for the site or contact neighbouring landowners.

This report relates only to sewerage apparatus of Thames Water Utilities Ltd, it does not disclose details of cables and or communications equipment that may be running through or around such apparatus.

The sewer level information contained in this response represents all of the level data available in our existing records. Should you require any further Information, please refer to the relevant section within the 'Further Contacts' page found later in this document.

For your guidance:

- The Company is not generally responsible for rivers, watercourses, ponds, culverts or highway drains. If any of these are shown on the copy extract they are shown for information only.
- Any private sewers or lateral drains which are indicated on the extract of the public sewer map as being subject to an agreement under Section 104 of the Water Industry Act 1991 are not an ‘as constructed’ record. It is recommended these details be checked with the developer.

Clean Water Services

Please provide a copy extract from the public water main map.

The following quartiles have been printed as they fall within Thames' water area:

Asset location search

Property Searches

TQ3390SW
TQ3289NE
TQ3290SE
TQ3389NW

Enclosed is a map showing the approximate positions of our water mains and associated apparatus. Please note that records are not kept of the positions of individual domestic supplies.

For your information, there will be a pressure of at least 10m head at the outside stop valve. If you would like to know the static pressure, please contact our Customer Centre on 0800 316 9800. The Customer Centre can also arrange for a full flow and pressure test to be carried out for a fee.

For your guidance:

- Assets other than vested water mains may be shown on the plan, for information only.
- If an extract of the public water main record is enclosed, this will show known public water mains in the vicinity of the property. It should be possible to estimate the likely length and route of any private water supply pipe connecting the property to the public water network.

Payment for this Search

A charge will be added to your suppliers account.

Asset location search

Property Searches

Further contacts:

Waste Water queries

Should you require verification of the invert levels of public sewers, by site measurement, you will need to approach the relevant Thames Water Area Network Office for permission to lift the appropriate covers. This permission will usually involve you completing a TWOSA form. For further information please contact our Customer Centre on Tel: 0845 920 0800. Alternatively, a survey can be arranged, for a fee, through our Customer Centre on the above number.

If you have any questions regarding sewer connections, budget estimates, diversions, building over issues or any other questions regarding operational issues please direct them to our service desk. Which can be contacted by writing to:

Developer Services (Waste Water)
Thames Water
Clearwater Court
Vastern Road
Reading
RG1 8DB

Tel: 0800 009 3921
Email: developer.services@thameswater.co.uk

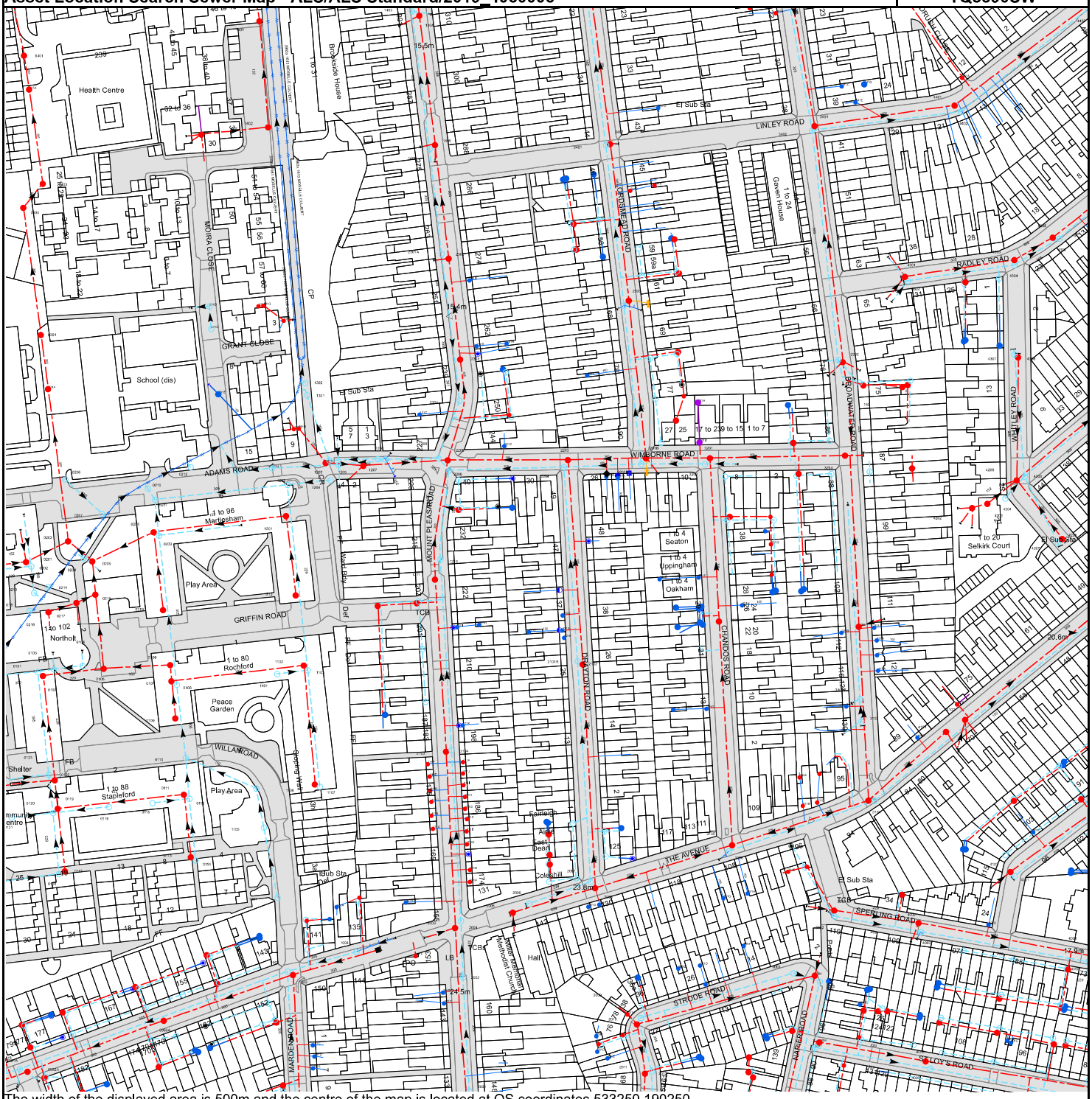
Clean Water queries

Should you require any advice concerning clean water operational issues or clean water connections, please contact:

Developer Services (Clean Water)
Thames Water
Clearwater Court
Vastern Road
Reading
RG1 8DB

Tel: 0800 009 3921
Email: developer.services@thameswater.co.uk

Asset Location Search Sewer Map - ALS/ALS Standard/2019_4060006 | **TQ3390SW**



The width of the displayed area is 500m and the centre of the map is located at OS coordinates 533250,190250

The position of the apparatus shown on this plan is given without obligation and warranty, and the accuracy cannot be guaranteed. Service pipes are not shown but their presence should be anticipated. No liability of any kind whatsoever is accepted by Thames Water for any error or omission. The actual position of mains and services must be verified and established on site before any works are undertaken.

Based on the Ordnance Survey Map with the Sanction of the controller of H.M. Stationery Office, License no. 100019345 Crown Copyright Reserved.

NB. Levels quoted in metres Ordnance Newlyn Datum. The value -9999.00 indicates that no survey information is available

Manhole Reference	Manhole Cover Level	Manhole Invert Level
0404	n/a	10.48
0401	n/a	10.09
041A	n/a	n/a
0403	n/a	10.44
23VP	n/a	n/a
23TQ	n/a	n/a
23TV	n/a	n/a
23TR	n/a	n/a
23TW	n/a	n/a
23TT	n/a	n/a
23TS	n/a	n/a
24TX	n/a	n/a
241B	n/a	n/a
241A	n/a	n/a
24TZ	n/a	n/a
24VQ	n/a	n/a
24TV	n/a	n/a
2401	16.8	15.49
2402	16.82	13.66
241C	n/a	n/a
231D	n/a	n/a
2302	15.31	12.38
2301A	15.28	14.4
1406	15.31	14.31
1405	15.37	12.11
0402	14.52	13.82
1402	14.7	13.21
1401	14.65	11.98
1404	15.57	11.85
1403	15.52	14.21
33TQ	n/a	n/a
33SY	n/a	n/a
33SZ	n/a	n/a
33SW	n/a	n/a
341B	n/a	n/a
341A	n/a	n/a
3402	18.29	16.64
3401	18.32	15.62
341C	n/a	n/a
341E	n/a	n/a
341D	n/a	n/a
4301	20.65	18.76
4302	20.66	19.27
4401	19.89	15.08
4402	19.8	16.42
441A	n/a	n/a
43VW	n/a	n/a
43WT	n/a	n/a
4304	21.23	19.07
4303	21.25	17.31
4305	19.89	15.08
4306	19.8	16.42
4403	19.25	15.79
2201B	19.26	16.06
221C	n/a	n/a
32SV	n/a	n/a
131D	n/a	n/a
131B	15.43	13.9
23VY	n/a	n/a
23VV	n/a	n/a
131C	n/a	n/a
2304	15.74	13.9
23WV	n/a	n/a
1301	14.86	13.09
031E	15.61	n/a
1302	14.86	12.63
231C	n/a	n/a
23VX	n/a	n/a
23VW	n/a	n/a
2303	15.62	12.89
23WT	n/a	n/a
231B	n/a	n/a
231A	n/a	n/a
031C	15.56	n/a
131E	14.95	14.19
031D	15.66	n/a
131F	14.95	n/a
131G	14.95	n/a
2305	17.14	15.79
2306	17.25	14.83
4223	n/a	n/a
3202	20.35	19.24
3201	20.42	17.15
3204	21.52	18.71
32XP	n/a	n/a
321D	n/a	n/a
32XR	n/a	n/a
32XS	n/a	n/a
33TW	n/a	n/a
33VQ	n/a	n/a
331A	n/a	n/a

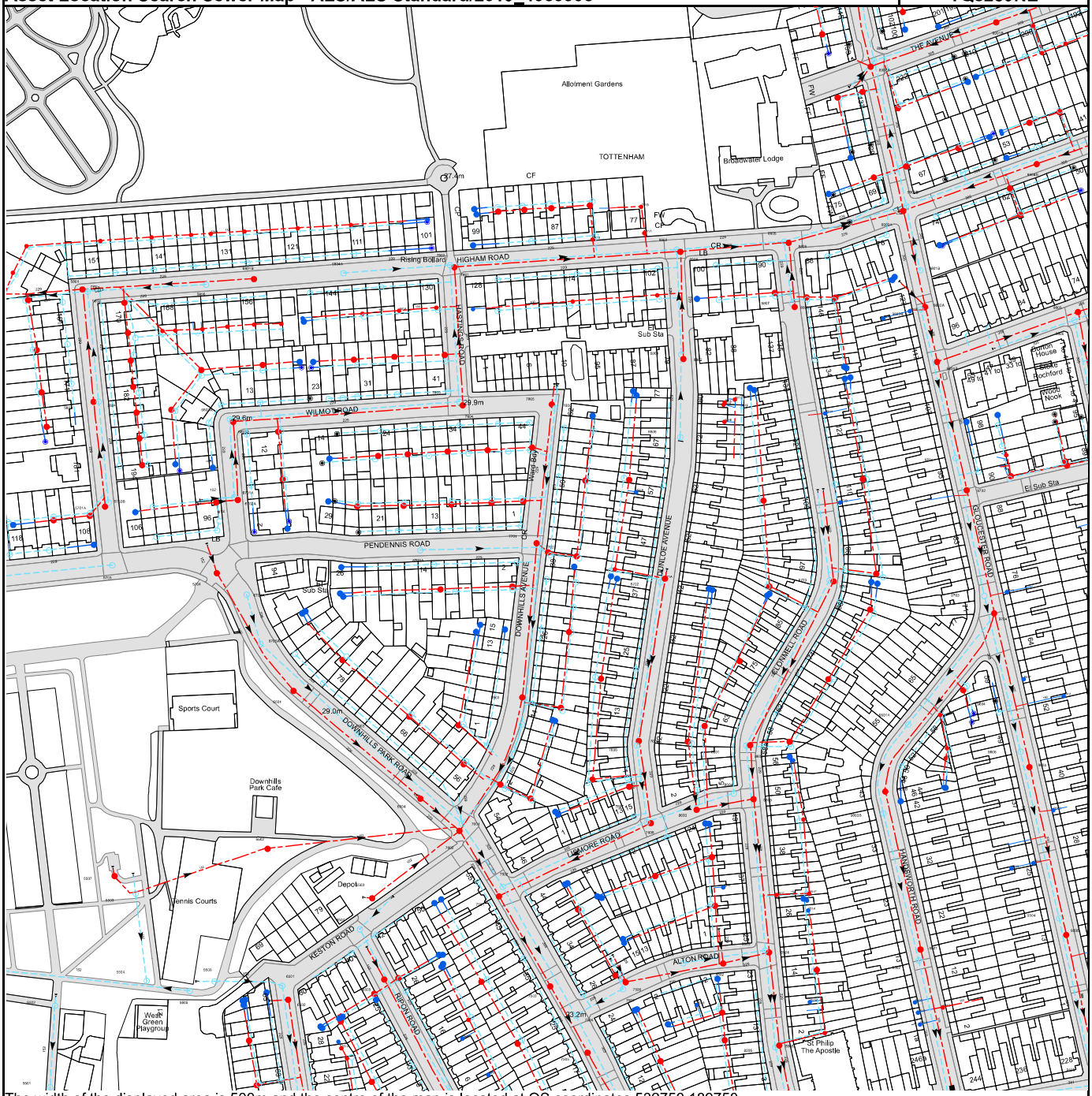
Manhole Reference	Manhole Cover Level	Manhole Invert Level
33TV	n/a	n/a
4325	n/a	n/a
3319	n/a	n/a
4324	n/a	n/a
3320	n/a	n/a
4323	n/a	n/a
3302	20.94	17.98
3301A	20.88	18.47
4308	21.11	19.18
4307	21.1	19.97
33TR	n/a	n/a
33TT	n/a	n/a
43WW	n/a	n/a
43WR	n/a	n/a
43VY	n/a	n/a
43WP	n/a	n/a
00VQ	n/a	n/a
00VV	n/a	n/a
00VT	n/a	n/a
00YX	n/a	n/a
00YP	n/a	n/a
00YS	n/a	n/a
0003A	23.14	20.45
00YY	n/a	n/a
00TX	n/a	n/a
0113	n/a	n/a
00YV	n/a	n/a
0114	n/a	n/a
00YR	n/a	n/a
00VZ	n/a	n/a
00WP	n/a	n/a
00WS	n/a	n/a
00VY	n/a	n/a
00WR	n/a	n/a
10SV	n/a	n/a
10SX	n/a	n/a
10VS	n/a	n/a
10VW	n/a	n/a
0121	n/a	n/a
0201	n/a	11.32
0215	14.96	12.79
0202	n/a	13.44
0213	n/a	n/a
0101	n/a	13.9
0301	16.81	10.81
0102	n/a	12.1
031A	n/a	n/a
0214	14.95	12.71
0123	n/a	14.43
0216	n/a	11.81
0120	n/a	14.62
0103	n/a	n/a
0122	n/a	12.7
0119	n/a	13.15
0206	n/a	13.42
0203	16.13	11.13
0217	n/a	n/a
0104	n/a	n/a
0204	14.91	13.2
0205	n/a	n/a
0218	n/a	n/a
0207	14.88	12.7
0105	n/a	11.8
0116	n/a	n/a
00WX	n/a	n/a
00XP	n/a	n/a
00XR	n/a	n/a
00XT	n/a	n/a
0002A	20.9	18.56
0001A	20.81	18.98
00SP	n/a	n/a
00SV	n/a	n/a
0011	n/a	n/a
00SQ	n/a	n/a
00SW	n/a	n/a
00SY	n/a	n/a
00TT	n/a	n/a
00TP	n/a	n/a
0118	n/a	n/a
0117	n/a	n/a
221I	n/a	n/a
221H	n/a	n/a
221G	n/a	n/a
12VZ	n/a	n/a
12VY	n/a	n/a
12WR	n/a	n/a
1211	16.8	14.59
321E	n/a	n/a
1210	16.69	15.69
22SY	n/a	n/a
22TV	n/a	n/a
22TP	n/a	n/a
1204	n/a	n/a

Manhole Reference	Manhole Cover Level	Manhole Invert Level
22TR	n/a	n/a
221B	n/a	n/a
221A	n/a	n/a
2206	16.12	14.93
2204	17.9	16.68
1206	15.31	13.42
1205	15.17	13.3
2202B	19.18	18.14
1203	15.17	13.3
2205	16.07	13.06
2203	17.98	14.88
1208	15.39	14.42
1207	15.32	13.48
1209	15.99	13.55
4208	21.03	19.18
311D	n/a	n/a
3104	22.32	21.44
41WW	n/a	n/a
3103	22.4	20.14
41WR	n/a	n/a
311C	n/a	n/a
41WQ	n/a	n/a
411D	n/a	n/a
4101	21.74	20.54
3102	22.5	21.64
4102	21.61	18.21
311H	n/a	n/a
411B	n/a	n/a
3101B	22.43	21.48
411A	n/a	n/a
421A	n/a	n/a
321A	n/a	n/a
321B	n/a	n/a
321C	n/a	n/a
3206	22.19	19.71
4207	21.03	19.81
4202	21.43	20.3
4203	21.27	20.17
4204	n/a	n/a
4205	21.01	18.93
4206	20.99	19.53
32WS	n/a	n/a
3213	n/a	n/a
311F	n/a	n/a
32SQ	n/a	n/a
32RZ	n/a	n/a
321F	n/a	n/a
32SX	n/a	n/a
32SY	n/a	n/a
32SR	n/a	n/a
32SP	n/a	n/a
311G	n/a	n/a
3205	22.52	19.68
32VW	n/a	n/a
32VV	n/a	n/a
32TW	n/a	n/a
321H	n/a	n/a
3214	n/a	n/a
32TX	n/a	n/a
321G	n/a	n/a
32TY	n/a	n/a
32TZ	n/a	n/a
32VQ	n/a	n/a
32VS	n/a	n/a
32WW	n/a	n/a
32WP	n/a	n/a
311A	n/a	n/a
32WY	n/a	n/a
311B	n/a	n/a
32WR	n/a	n/a
41VW	n/a	n/a
41XP	n/a	n/a
41VY	n/a	n/a
41VZ	n/a	n/a
0210	14.91	12.67
0115	n/a	n/a
0208	n/a	12.65
0211	n/a	n/a
0209	n/a	13.82
0219	n/a	15.02
0106	n/a	12.42
0107	n/a	n/a
0109	n/a	15.24
0108	n/a	14.5
0111	n/a	n/a
0110	n/a	14.84
0112	n/a	n/a
0212	14.86	12.67
121C	15.67	13.61
1104	n/a	n/a
1105	n/a	n/a
1224	15.59	13.77
1101	n/a	n/a

Manhole Reference	Manhole Cover Level	Manhole Invert Level
1201	n/a	14.9
1202	n/a	14.18
1213	n/a	15.02
1102	15.65	14.15
1103	n/a	15.06
1106	n/a	n/a
1107	n/a	n/a
121B	15.37	13.75
111A	n/a	n/a
21SW	n/a	n/a
21VS	n/a	n/a
21TW	n/a	n/a
21VP	n/a	n/a
211F	n/a	n/a
111B	n/a	n/a
211G	n/a	n/a
111C	n/a	n/a
211H	n/a	n/a
111D	n/a	n/a
211I	n/a	n/a
111E	n/a	n/a
211J	n/a	n/a
111F	n/a	n/a
211A	n/a	n/a
2103	20.65	18.24
2104	20.56	19.51
211K	n/a	n/a
11YP	n/a	n/a
11YQ	n/a	n/a
2102	21.32	18.32
2101B	21.2	20.11
12WT	n/a	n/a
221F	n/a	n/a
221E	n/a	n/a
221D	n/a	n/a
40RY	n/a	n/a
40RR	n/a	n/a
40RQ	n/a	n/a
30PY	n/a	n/a
40RS	n/a	n/a
40VZ	n/a	n/a
40WS	n/a	n/a
301B	n/a	n/a
40WP	n/a	n/a
40WT	n/a	n/a
30VS	n/a	n/a
30VX	n/a	n/a
40WR	n/a	n/a
40WW	n/a	n/a
40WY	n/a	n/a
40WZ	n/a	n/a
4003	21.1	19.8
401B	n/a	n/a
4002	21.18	19.86
40SR	n/a	n/a
40SP	n/a	n/a
4001	20.41	19.2
4103	20.45	18.96
41WZ	n/a	n/a
41WT	n/a	n/a
41WY	n/a	n/a
411C	n/a	n/a
30RY	n/a	n/a
20VQ	n/a	n/a
30SP	n/a	n/a
30RW	n/a	n/a
2010	24.04	21.46
2009	24.05	22.12
201H	n/a	n/a
301E	n/a	n/a
3005	22.77	21.02
30WP	n/a	n/a
20VW	n/a	n/a
3004	22.8	20.24
3003	22.99	21.17
301C	n/a	n/a
301D	n/a	n/a
301F	n/a	n/a
3002	22.55	21.12
3001	22.57	21.1
301G	n/a	n/a
301H	n/a	n/a
311E	n/a	n/a

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Asset Location Search Sewer Map - ALS/ALS Standard/2019_4060006	TQ3289NE



The width of the displayed area is 500m and the centre of the map is located at OS coordinates 532750,189750

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NB. Levels quoted in metres Ordnance Newlyn Datum. The value -9999.00 indicates that no survey information is available

Manhole Reference	Manhole Cover Level	Manhole Invert Level
99TX	n/a	n/a
99XR	n/a	n/a
99TY	n/a	n/a
961A	n/a	n/a
97VV	n/a	n/a
98SZ	n/a	n/a
98TP	n/a	n/a
97TV	n/a	n/a
97SZ	n/a	n/a
97VT	n/a	n/a
97VQ	n/a	n/a
97TP	n/a	n/a
97TR	n/a	n/a
97TQ	n/a	n/a
9806	25.54	24.17
9805	25.61	23.25
98SX	n/a	n/a
97TT	n/a	n/a
98SQ	n/a	n/a
98TT	n/a	n/a
99XW	n/a	n/a
99XZ	n/a	n/a
99YR	n/a	n/a
9903A	25.39	21.94
9902B	25.37	22.26
99RR	n/a	n/a
99YX	n/a	n/a
99XY	n/a	n/a
99RQ	n/a	n/a
89YX	n/a	n/a
99TV	n/a	n/a
99SS	n/a	n/a
9904B	24.86	22.5
99SY	n/a	n/a
99XV	n/a	n/a
99ST	n/a	n/a
99XS	n/a	n/a
99SZ	n/a	n/a
99SX	n/a	n/a
99WW	n/a	n/a
99WZ	n/a	n/a
99WT	n/a	n/a
99WY	n/a	n/a
99WS	n/a	n/a
99XP	n/a	n/a
99RW	n/a	n/a
99RY	n/a	n/a
99RX	n/a	n/a
99SQ	n/a	n/a
99VT	n/a	n/a
99VW	n/a	n/a
8902A	20.72	17.74
8901B	20.66	18.16
99VV	n/a	n/a
99VQ	n/a	n/a
99VY	n/a	n/a
99QX	n/a	n/a
99WQ	n/a	n/a
99QT	n/a	n/a
99VP	n/a	n/a
9901B	20.71	18.23
99QV	n/a	n/a
99QS	n/a	n/a
99QQ	n/a	n/a
8807	26.76	25.16
8808	26.78	n/a
88WW	n/a	n/a
88XT	n/a	n/a
88XV	n/a	n/a
881H	n/a	n/a
88XP	n/a	n/a
87WZ	n/a	n/a
88WX	n/a	n/a
871B	n/a	n/a
88XR	n/a	n/a
88YZ	n/a	n/a
88WZ	n/a	n/a
88YX	n/a	n/a
87XT	n/a	n/a
87XR	n/a	n/a
981A	n/a	n/a
98TW	n/a	n/a
98TY	n/a	n/a
981B	n/a	n/a
9801B	26.45	24.74
9803B	26.98	25.26
9802A	26.74	24.66
9804B	26.34	23.98
9701	25.34	23.9
98SY	n/a	n/a

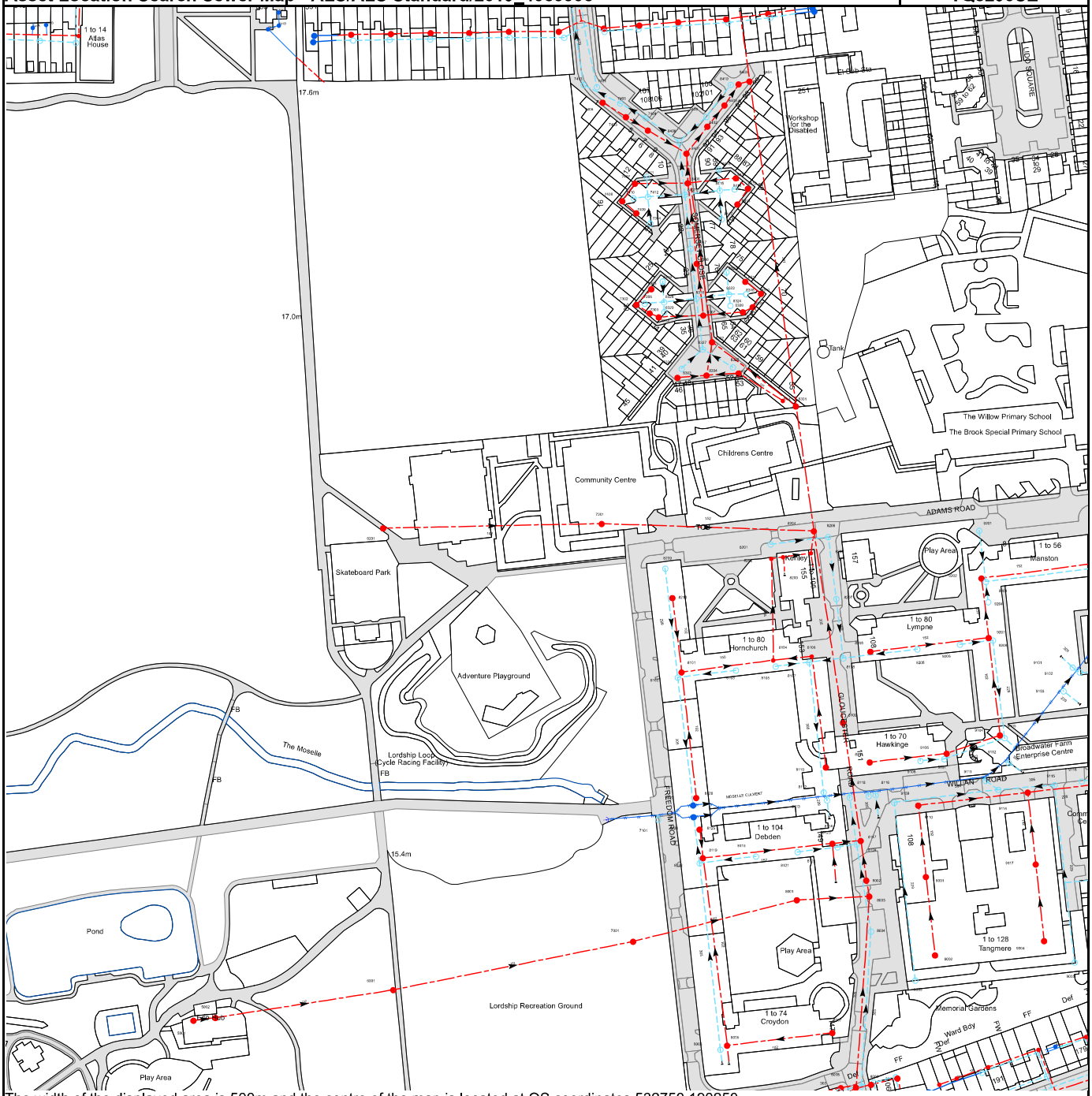
Manhole Reference	Manhole Cover Level	Manhole Invert Level
9702	25.08	23.01
86WP	n/a	n/a
87WQ	n/a	n/a
86WT	n/a	n/a
8703	25.78	24.29
86WQ	n/a	n/a
8704	25.69	22.47
87XV	n/a	n/a
87XQ	n/a	n/a
87YP	n/a	n/a
87YR	n/a	n/a
87XX	n/a	n/a
97VX	n/a	n/a
87XZ	n/a	n/a
97VW	n/a	n/a
9601A	23.51	21.78
96WX	n/a	n/a
96WR	n/a	n/a
96WY	n/a	n/a
96WS	n/a	n/a
96TY	n/a	n/a
96VV	n/a	n/a
9703	24.09	22.65
9704	23.95	21.88
96VS	n/a	n/a
971A	n/a	n/a
9604	22.97	21.65
9606	22.51	21.2
961F	n/a	n/a
77ZQ	n/a	n/a
77YX	n/a	n/a
78YY	n/a	n/a
771A	n/a	n/a
78YW	n/a	n/a
78YR	n/a	n/a
78XW	n/a	n/a
88VQ	n/a	n/a
87VV	n/a	n/a
8809	27.92	26.6
8801	28.03	26.63
8802	28.03	26.38
88VX	n/a	n/a
88WS	n/a	n/a
88WP	n/a	n/a
881D	n/a	n/a
881E	n/a	n/a
881C	n/a	n/a
881B	n/a	n/a
881F	n/a	n/a
881A	n/a	n/a
88YT	n/a	n/a
88YQ	n/a	n/a
87WS	n/a	n/a
87VY	n/a	n/a
88VV	n/a	n/a
88VZ	n/a	n/a
77ZW	n/a	n/a
77ZP	n/a	n/a
77YW	n/a	n/a
77ZS	n/a	n/a
76WW	n/a	n/a
7606	26.18	24.49
7605	26.29	24.79
77YZ	n/a	n/a
8702	27.5	25.74
871A	n/a	n/a
86WZ	n/a	n/a
86WX	n/a	n/a
86VT	n/a	n/a
86VW	n/a	n/a
87YW	n/a	n/a
87YT	n/a	n/a
8608	n/a	n/a
8601	25.03	23.54
8602	24.98	23.19
86VR	n/a	n/a
86VZ	n/a	n/a
87WR	n/a	n/a
87WW	n/a	n/a
87VX	n/a	n/a
87WY	n/a	n/a
86VX	n/a	n/a
86WS	n/a	n/a
77VS	n/a	n/a
77VX	n/a	n/a
77TZ	n/a	n/a
76VZ	n/a	n/a
7603	27.96	25.71
7604	27.96	25.79
76TW	n/a	n/a
7701	28.52	26.76
7702	28.53	26.71
77YR	n/a	n/a

Manhole Reference	Manhole Cover Level	Manhole Invert Level
77YV	n/a	n/a
77WY	n/a	n/a
77YT	n/a	n/a
76VS	n/a	n/a
76VR	n/a	n/a
76VX	n/a	n/a
76TT	n/a	n/a
76TR	n/a	n/a
77XZ	n/a	n/a
77XV	n/a	n/a
77WT	n/a	n/a
77XY	n/a	n/a
77XW	n/a	n/a
77WZ	n/a	n/a
77XS	n/a	n/a
76WX	n/a	n/a
76WT	n/a	n/a
89YR	n/a	n/a
89YS	n/a	n/a
89YQ	n/a	n/a
89YV	n/a	n/a
89XZ	n/a	n/a
89XQ	n/a	n/a
89XS	n/a	n/a
89XP	n/a	n/a
67WR	n/a	n/a
77TV	n/a	n/a
77TX	n/a	n/a
77ST	n/a	n/a
77TY	n/a	n/a
77XR	n/a	n/a
77WW	n/a	n/a
77XT	n/a	n/a
67VT	n/a	n/a
67VP	n/a	n/a
67VS	n/a	n/a
67TZ	n/a	n/a
77TP	n/a	n/a
77SW	n/a	n/a
77SV	n/a	n/a
77TR	n/a	n/a
77SY	n/a	n/a
77SZ	n/a	n/a
68SZ	n/a	n/a
77XQ	n/a	n/a
78XV	n/a	n/a
68SY	n/a	n/a
78VW	n/a	n/a
78VV	n/a	n/a
78VT	n/a	n/a
78XS	n/a	n/a
7806	29.08	27.55
88WR	n/a	n/a
88WT	n/a	n/a
68VR	n/a	n/a
8804	27.2	25.15
8803	27.21	25.49
78VZ	n/a	n/a
8806	26.25	24.19
8805	26.26	24.5
78VX	n/a	n/a
781B	n/a	n/a
78WQ	n/a	n/a
781A	n/a	n/a
68TX	n/a	n/a
68TV	n/a	n/a
69ZY	n/a	n/a
79YX	n/a	n/a
79ZY	n/a	n/a
79ZX	n/a	n/a
79ZT	n/a	n/a
79ZW	n/a	n/a
79ZR	n/a	n/a
791B	n/a	n/a
79ZQ	n/a	n/a
79ZV	n/a	n/a
79ZP	n/a	n/a
79YZ	n/a	n/a
89YZ	n/a	n/a
7804	29.74	27.43
7805	29.09	27.45
7803	29.73	27.83
68WT	n/a	n/a
68WS	n/a	n/a
68WR	n/a	n/a
78WT	n/a	n/a
68XP	n/a	n/a
78WW	n/a	n/a
68XS	n/a	n/a
68XR	n/a	n/a
78WY	n/a	n/a
68ZQ	n/a	n/a
68YW	n/a	n/a

Manhole Reference	Manhole Cover Level	Manhole Invert Level
78XY	n/a	n/a
681A	n/a	n/a
68ZP	n/a	n/a
78YQ	n/a	n/a
68YV	n/a	n/a
78XX	n/a	n/a
78XZ	n/a	n/a
68ZS	n/a	n/a
78YT	n/a	n/a
78YS	n/a	n/a
6804A	28.65	27.24
7801	28.96	26.98
7802	28.99	27
67XY	n/a	n/a
67YT	n/a	n/a
67ZP	n/a	n/a
67YQ	n/a	n/a
67YX	n/a	n/a
67VX	n/a	n/a
6603	28.65	26.62
67WQ	n/a	n/a
67WT	n/a	n/a
67VW	n/a	n/a
66YY	n/a	n/a
66YW	n/a	n/a
6703A	29.67	28.68
67YR	n/a	n/a
67WS	n/a	n/a
67XW	n/a	n/a
77TW	n/a	n/a
77VT	n/a	n/a
76SW	n/a	n/a
76SY	n/a	n/a
77VZ	n/a	n/a
77VP	n/a	n/a
77WQ	n/a	n/a
76TQ	n/a	n/a
77SS	n/a	n/a
77WS	n/a	n/a
77VQ	n/a	n/a
58XV	n/a	n/a
58YS	n/a	n/a
57XS	n/a	n/a
57YP	n/a	n/a
58YR	n/a	n/a
68VV	n/a	n/a
6802A	29.65	28.35
6803A	29.66	27.98
6701A	30.05	28.41
6702A	30.05	28.04
68VY	n/a	n/a
68YT	n/a	n/a
67XR	n/a	n/a
68VW	n/a	n/a
68WZ	n/a	n/a
68XW	n/a	n/a
68XY	n/a	n/a
68YR	n/a	n/a
68YP	n/a	n/a
68VZ	n/a	n/a
67WZ	n/a	n/a
67WW	n/a	n/a
68XX	n/a	n/a
68XT	n/a	n/a
67VZ	n/a	n/a
68WW	n/a	n/a
67VR	n/a	n/a
68VX	n/a	n/a
68ZR	n/a	n/a
68YY	n/a	n/a
58YP	n/a	n/a
58WX	n/a	n/a
58YQ	n/a	n/a
68WP	n/a	n/a
68WQ	n/a	n/a
68ZT	n/a	n/a
5805	26.4	24.3
6801B	27.21	24.23
58TS	n/a	n/a
58TT	n/a	n/a
58TV	n/a	n/a
68VP	n/a	n/a
68VQ	n/a	n/a
58ST	n/a	n/a

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Asset Location Search Sewer Map - ALS/ALS Standard/2019_4060006	TQ3290SE



The width of the displayed area is 500m and the centre of the map is located at OS coordinates 532750,190250

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NB. Levels quoted in metres Ordnance Newlyn Datum. The value -9999.00 indicates that no survey information is available

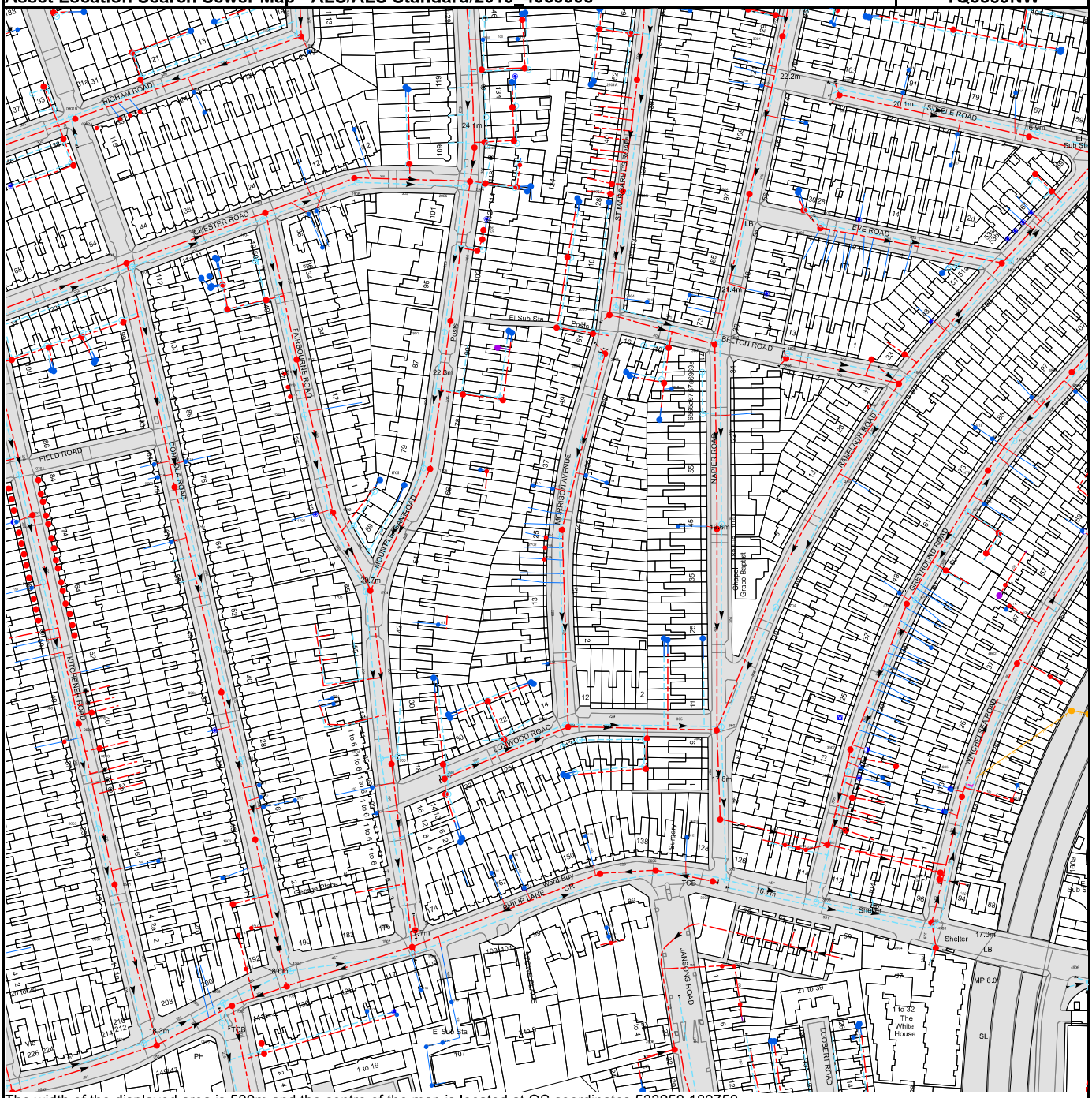
Manhole Reference	Manhole Cover Level	Manhole Invert Level
84YZ	n/a	n/a
84ZP	n/a	n/a
84ZV	n/a	n/a
8403	n/a	n/a
7405	n/a	n/a
7406	n/a	n/a
7401	n/a	n/a
7413	n/a	n/a
8410	n/a	n/a
8405	n/a	n/a
8404	n/a	n/a
64ZR	n/a	n/a
64ZP	n/a	n/a
64YZ	n/a	n/a
74ZQ	n/a	n/a
74ZS	n/a	n/a
74ZP	n/a	n/a
64ZQ	n/a	n/a
64ZW	n/a	n/a
64ZV	n/a	n/a
74ZV	n/a	n/a
74ZT	n/a	n/a
74ZX	n/a	n/a
74YY	n/a	n/a
74YZ	n/a	n/a
74YW	n/a	n/a
84ZS	n/a	n/a
74YX	n/a	n/a
84ZT	n/a	n/a
84YY	n/a	n/a
541A	n/a	n/a
54ZW	n/a	n/a
541B	n/a	n/a
54ZX	n/a	n/a
54ZY	n/a	n/a
641C	n/a	n/a
641A	n/a	n/a
641B	n/a	n/a
64ZT	n/a	n/a
64ZY	n/a	n/a
84ZX	n/a	n/a
84ZR	n/a	n/a
8319	n/a	n/a
8322	n/a	n/a
8306	n/a	n/a
8317	n/a	n/a
7304	n/a	n/a
8417	n/a	n/a
7409	n/a	n/a
8413	n/a	n/a
7408	n/a	n/a
7410	n/a	n/a
7412	n/a	n/a
8407	n/a	n/a
8415	n/a	n/a
8414	n/a	n/a
8412	n/a	n/a
7407	n/a	n/a
8406	n/a	n/a
8411	n/a	n/a
7411	n/a	n/a
8416	n/a	n/a
8401	n/a	n/a
8408	n/a	n/a
7402	n/a	n/a
8402	n/a	n/a
7404	n/a	n/a
7403	n/a	n/a
8409	n/a	n/a
9116	n/a	14.63
80XZ	n/a	n/a
90YT	n/a	n/a
80YR	n/a	n/a
901E	n/a	n/a
90ZR	n/a	n/a
90ZS	n/a	n/a
90ZP	n/a	n/a
90YW	n/a	n/a
90YQ	n/a	n/a
901B	n/a	n/a
90YY	n/a	n/a
90YS	n/a	n/a
901D	n/a	n/a
901C	n/a	n/a
901A	n/a	n/a
9003	n/a	15.01
9005	n/a	14.97
9002	n/a	n/a
9004	n/a	14.38
8004	15.75	14.71

Manhole Reference	Manhole Cover Level	Manhole Invert Level
8003	15.54	11.77
9001	n/a	14.58
9117	n/a	14.17
8118	15.19	12.91
8111	n/a	14.61
8208	n/a	13.45
8116	15.17	12.93
9109	n/a	14.61
9205	n/a	14.34
9110	n/a	13.89
9108	n/a	13.93
9107	n/a	13.82
9106	n/a	13.75
9206	n/a	14.09
9201	n/a	14.21
9202	n/a	11.83
9111	15.11	12.91
9203	n/a	14.03
9204	n/a	14.18
9207	n/a	12.29
9208	n/a	13.93
9113	n/a	n/a
9104	n/a	13.05
9105	n/a	13.44
9112	15.08	12.86
9114	n/a	13.14
9115	n/a	13.55
9103	15.07	12.84
9101	15.02	12.83
9102	15.01	12.83
8125	n/a	14.48
7101	15.28	13.09
8126	15.19	13.05
8127	15.18	13.05
8113	15.18	13.01
8128	n/a	14.66
8114	15.2	12.91
8112	15.18	13
8110	n/a	14.28
8109	14.83	11.36
8102	n/a	13.86
8101	n/a	13.23
8103	n/a	14.28
8105	n/a	14.01
8107	n/a	13.88
8104	14.5	12.5
8108	n/a	14.16
8106	16.03	13.03
8207	n/a	n/a
8210	n/a	15.01
8209	n/a	14.14
8202	14.24	11.74
8203	n/a	11.66
8205	n/a	11.43
8201	n/a	14.78
8206	n/a	14.36
8204	15.22	11.04
89XV	n/a	n/a
80XW	n/a	n/a
8008	18.31	14.5
8009	18.28	16.9
8005	n/a	14.53
8006	n/a	14.28
8007	n/a	15.53
6001	16.62	14.55
7001	15.94	13.38
8001	n/a	n/a
8002	15.42	11.76
8122	n/a	13.76
8119	n/a	12.54
8115	n/a	13.67
8121	n/a	14.01
8120	n/a	13.89
8124	n/a	n/a
8123	n/a	12.06
8117	n/a	n/a
6201	15.63	14.68
7201	15.54	14.22
8301	n/a	n/a
831A	n/a	n/a
8303	n/a	n/a
8304	n/a	n/a
8305	n/a	n/a
8326	n/a	n/a
8325	n/a	n/a
8327	n/a	n/a
8302	n/a	n/a
8312	n/a	n/a
8307	n/a	n/a
7301	n/a	n/a
8309	n/a	n/a
8320	n/a	n/a
8308	n/a	n/a

Manhole Reference	Manhole Cover Level	Manhole Invert Level
8324	n/a	n/a
7302	n/a	n/a
7305	n/a	n/a
8328	n/a	n/a
8316	n/a	n/a
8323	n/a	n/a
8318	n/a	n/a
8310	n/a	n/a
7303	n/a	n/a
8311	n/a	n/a
5001	16.49	15.73
5002	16.43	15.47

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Asset Location Search Sewer Map - ALS/ALS Standard/2019_4060006	TQ3389NW



The width of the displayed area is 500m and the centre of the map is located at OS coordinates 533250,189750

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NB. Levels quoted in metres Ordnance Newlyn Datum. The value -9999.00 indicates that no survey information is available

Manhole Reference	Manhole Cover Level	Manhole Invert Level
091C	n/a	n/a
09VY	n/a	n/a
09WX	n/a	n/a
09WQ	n/a	n/a
09XS	n/a	n/a
08SS	n/a	n/a
08SY	n/a	n/a
08SV	n/a	n/a
08SX	n/a	n/a
08VV	n/a	n/a
08TZ	n/a	n/a
0801	25.34	22.81
0802	25.27	23.38
071A	n/a	n/a
071B	n/a	n/a
0803	23.71	22.26
071C	n/a	n/a
0703	22.76	20.86
071D	n/a	n/a
0704	22.25	19.07
08QT	n/a	n/a
08QV	n/a	n/a
08QW	n/a	n/a
08QX	n/a	n/a
0706	21.01	19.82
08RS	n/a	n/a
08RP	n/a	n/a
18VT	n/a	n/a
18VS	n/a	n/a
18VY	n/a	n/a
18VR	n/a	n/a
1801	23.59	22.07
09SS	n/a	n/a
09SY	n/a	n/a
09SW	n/a	n/a
09SX	n/a	n/a
09RX	n/a	n/a
0907	n/a	n/a
09SP	n/a	n/a
09VR	n/a	n/a
09TV	n/a	n/a
0901B	25.03	23.31
09TZ	n/a	n/a
09TW	n/a	n/a
0902A	25.09	22.85
09SR	n/a	n/a
09RZ	n/a	n/a
091D	n/a	n/a
091A	n/a	n/a
091B	n/a	n/a
09VZ	n/a	n/a
09WR	n/a	n/a
0732	n/a	n/a
0731	n/a	n/a
0730	n/a	n/a
0729	n/a	n/a
0728	n/a	n/a
0727	n/a	n/a
0726	n/a	n/a
0725	n/a	n/a
0724	n/a	n/a
0723	n/a	n/a
0705	22.78	21.58
0711	n/a	n/a
0712	n/a	n/a
0713	n/a	n/a
0714	n/a	n/a
0715	n/a	n/a
0716	n/a	n/a
0717	n/a	n/a
0718	n/a	n/a
061A	n/a	n/a
0719	n/a	n/a
0601	21.51	20.36
0720	n/a	n/a
0721	n/a	n/a
0722	n/a	n/a
0602	21.41	19.2
0735	n/a	n/a
0734	n/a	n/a
08SR	n/a	n/a
0733	n/a	n/a
0701	23.95	22.63
0702	23.45	21.16
0708	n/a	n/a
0709	n/a	n/a
0710	n/a	n/a
08RZ	n/a	n/a
08RW	n/a	n/a
08SQ	n/a	n/a

Manhole Reference	Manhole Cover Level	Manhole Invert Level
08RY	n/a	n/a
29XY	n/a	n/a
29XV	n/a	n/a
29XT	n/a	n/a
29YS	n/a	n/a
29VZ	n/a	n/a
29VR	n/a	n/a
29VT	n/a	n/a
3901	22.39	19.86
2917	n/a	n/a
2918	n/a	n/a
39ST	n/a	n/a
39SW	n/a	n/a
39RQ	n/a	n/a
391E	n/a	n/a
39QZ	n/a	n/a
391A	n/a	n/a
39SX	n/a	n/a
391B	n/a	n/a
39RR	n/a	n/a
391C	n/a	n/a
491C	n/a	n/a
49TV	n/a	n/a
49TS	n/a	n/a
49VQ	n/a	n/a
49TY	n/a	n/a
49VR	n/a	n/a
49TZ	n/a	n/a
39TP	n/a	n/a
39SY	n/a	n/a
49TW	n/a	n/a
091F	n/a	n/a
091E	n/a	n/a
1901	25.34	23.54
1902	25.37	23.1
191B	n/a	n/a
191A	n/a	n/a
19VY	n/a	n/a
19VW	n/a	n/a
19VT	n/a	n/a
19VR	n/a	n/a
2904B	24.02	21.1
29XR	n/a	n/a
291B	n/a	n/a
29YP	n/a	n/a
29SP	n/a	n/a
29SQ	n/a	n/a
29ST	n/a	n/a
29TS	n/a	n/a
29TQ	n/a	n/a
29TP	n/a	n/a
29SW	n/a	n/a
29SV	n/a	n/a
291A	n/a	n/a
29RV	n/a	n/a
29XS	n/a	n/a
29YQ	n/a	n/a
29WQ	n/a	n/a
29VY	n/a	n/a
29VW	n/a	n/a
18VW	n/a	n/a
18WQ	n/a	n/a
08RR	n/a	n/a
08RV	n/a	n/a
28WS	n/a	n/a
28WW	n/a	n/a
28RT	n/a	n/a
28RY	n/a	n/a
181D	n/a	n/a
28RV	n/a	n/a
28RW	n/a	n/a
1904	24.75	23.09
191C	n/a	n/a
1903	24.76	22.41
29WX	n/a	n/a
29WZ	n/a	n/a
29QX	n/a	n/a
29RW	n/a	n/a
29RS	n/a	n/a
2905	23.76	22.62
29RP	n/a	n/a
29RY	n/a	n/a
29RR	n/a	n/a
1906	24.3	22.98
2906	23.77	20.75
1905	24.28	21.89
29RT	n/a	n/a
4803	18.67	16.61
4804	18.5	16.69
3804	21.06	18.98
3803	21.09	19.76
39RY	n/a	n/a
39RT	n/a	n/a

Manhole Reference	Manhole Cover Level	Manhole Invert Level
29XP	n/a	n/a
2907	n/a	n/a
3904	21.81	19.26
2903B	22.71	20.68
39SP	n/a	n/a
49TP	n/a	n/a
2902A	22.68	20.04
49SV	n/a	n/a
39RW	n/a	n/a
2908	n/a	n/a
49SX	n/a	n/a
49SW	n/a	n/a
4902	17.21	14.57
4901	16.98	15.26
391F	n/a	n/a
3903	21.5	19.04
491A	n/a	n/a
491B	n/a	n/a
3902	21.47	20.01
391D	n/a	n/a
2901A	23.43	20.71
28ST	n/a	n/a
28SR	n/a	n/a
38SY	n/a	n/a
3813	n/a	n/a
3806	20.54	18.31
2806	21.75	20.43
4809	n/a	n/a
3805	20.65	19.22
2805	21.76	20
38TP	n/a	n/a
38TS	n/a	n/a
28SP	n/a	n/a
3801	21.21	18.6
3802	21.24	19.74
28TZ	n/a	n/a
28VV	n/a	n/a
28VP	n/a	n/a
28VY	n/a	n/a
28WV	n/a	n/a
28WR	n/a	n/a
2803	22	19.29
2804	21.98	20.18
281B	n/a	n/a
381C	n/a	n/a
48RV	n/a	n/a
48RR	n/a	n/a
48RX	n/a	n/a
481D	n/a	n/a
481E	n/a	n/a
4805	17.32	n/a
4806	17.27	15.77
4704	16.93	13.57
471C	n/a	n/a
271D	n/a	n/a
271A	n/a	n/a
271B	n/a	n/a
271C	n/a	n/a
261B	n/a	n/a
271E	n/a	n/a
2702	20.23	18.75
2701	20.24	17.85
271I	n/a	n/a
271H	n/a	n/a
38TW	n/a	n/a
38TQ	n/a	n/a
37WQ	n/a	n/a
38TT	n/a	n/a
37WS	n/a	n/a
381B	n/a	n/a
371A	n/a	n/a
38SX	n/a	n/a
37VZ	n/a	n/a
3702	19.61	17.2
3701	19.6	18.33
3704	18.5	17.23
3703	19.13	17.89
381A	n/a	n/a
4801	19.74	16.45
471I	n/a	n/a
4707	17.51	14.87
4802	19.69	18.38
181C	n/a	n/a
181B	n/a	n/a
181A	n/a	n/a
1802	23.22	20.55
1803	22.53	21.12
1701	21.52	20.13
1702	21.65	18.56
17WQ	n/a	n/a
1703	20.57	19.34
17WT	n/a	n/a
1704	20.59	17.52

Manhole Reference	Manhole Cover Level	Manhole Invert Level
17WR	n/a	n/a
17WP	n/a	n/a
17XW	n/a	n/a
1705	21.45	20.24
1706	21.54	18.47
16VW	n/a	n/a
171B	n/a	n/a
2801	22.54	21.57
2802	22.68	19.67
28VZ	n/a	n/a
28VR	n/a	n/a
271G	n/a	n/a
271F	n/a	n/a
281A	n/a	n/a
28VW	n/a	n/a
28VS	n/a	n/a
461G	n/a	n/a
461J	n/a	n/a
4606	16.57	14.06
461E	n/a	n/a
461H	n/a	n/a
4605	16.59	n/a
461C	n/a	n/a
461D	n/a	n/a
4602	16.76	13.82
471F	n/a	n/a
471B	n/a	n/a
471A	n/a	n/a
4706	17.46	16.29
471H	n/a	n/a
471G	n/a	n/a
4708	n/a	n/a
4709	n/a	n/a
47VT	n/a	n/a
47VP	n/a	n/a
47VS	n/a	n/a
4703	18.24	16.81
471E	n/a	n/a
4702	18.38	15.19
4701	18.11	16.58
481F	n/a	n/a
481B	n/a	n/a
481A	n/a	n/a
361E	n/a	n/a
261D	n/a	n/a
3611	n/a	n/a
3603	n/a	n/a
3615	n/a	n/a
461L	n/a	n/a
461F	n/a	n/a
26RX	n/a	n/a
26RR	n/a	n/a
26RQ	n/a	n/a
3606	16.5	15.48
26RV	n/a	n/a
361B	n/a	n/a
26RP	n/a	n/a
4609	n/a	n/a
3607	16.57	14.59
26QX	n/a	n/a
26QW	n/a	n/a
26QZ	n/a	n/a
26RT	n/a	n/a
3602	18.05	15.58
2604	18.86	16.22
3601	18.08	16.45
2603	18.86	17.15
26SY	n/a	n/a
26SS	n/a	n/a
4601	16.87	15.92
26VZ	n/a	n/a
1602	19.35	17.35
26VV	n/a	n/a
0603	20.34	19.07
161D	n/a	n/a
26VS	n/a	n/a
26VX	n/a	n/a
161C	n/a	n/a
2602	18.95	16.55
2601	18.94	17.43
26VP	n/a	n/a
26TY	n/a	n/a
1605	18.98	16.05
1601	19.99	18.73

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ALS Sewer Map Key

Public Sewer Types (Operated & Maintained by Thames Water)

Foul: A sewer designed to convey waste water from domestic and industrial sources to a treatment works.

Surface Water: A sewer designed to convey surface water (e.g. rain water from roofs, yards and car parks) to rivers or watercourses.

Combined: A sewer designed to convey both waste water and surface water from domestic and industrial sources to a treatment works.

Trunk Surface Water

Trunk Foul

Storm Relief

Trunk Combined

Vent Pipe

Bio-solids (Sludge)

Proposed Thames Surface Water Sewer

Proposed Thames Water Foul Sewer

Gallery

Foul Rising Main

Surface Water Rising Main

Combined Rising Main

Sludge Rising Main

Proposed Thames Water Rising Main

Vacuum

Sewer Fittings

A feature in a sewer that does not affect the flow in the pipe. Example: a vent is a fitting as the function of a vent is to release excess gas.

Air Valve

Dam Chase

Fitting

Meter

Vent Column

Operational Controls

A feature in a sewer that changes or diverts the flow in the sewer. Example: A hydrobrake limits the flow passing downstream.

Control Valve

Drop Pipe

Ancillary

Weir

End Items

End symbols appear at the start or end of a sewer pipe. Examples: an Undefined End at the start of a sewer indicates that Thames Water has no knowledge of the position of the sewer upstream of that symbol, Outfall on a surface water sewer indicates that the pipe discharges into a stream or river.

Outfall

Undefined End

Inlet

Other Symbols

Symbols used on maps which do not fall under other general categories

Public/Private Pumping Station

Change of characteristic indicator (C.O.C.I.)

Invert Level

Summit

Areas

Lines denoting areas of underground surveys, etc.

Agreement

Operational Site

Chamber

Tunnel

Conduit Bridge

Other Sewer Types (Not Operated or Maintained by Thames Water)

Foul Sewer

Surface Water Sewer

Combined Sewer

Gulley

Culverted Watercourse

Proposed

Abandoned Sewer

Notes:

1) All levels associated with the plans are to Ordnance Datum Newlyn.

2) All measurements on the plans are metric.

3) Arrows (on gravity fed sewers) or flecks (on rising mains) indicate direction of flow.

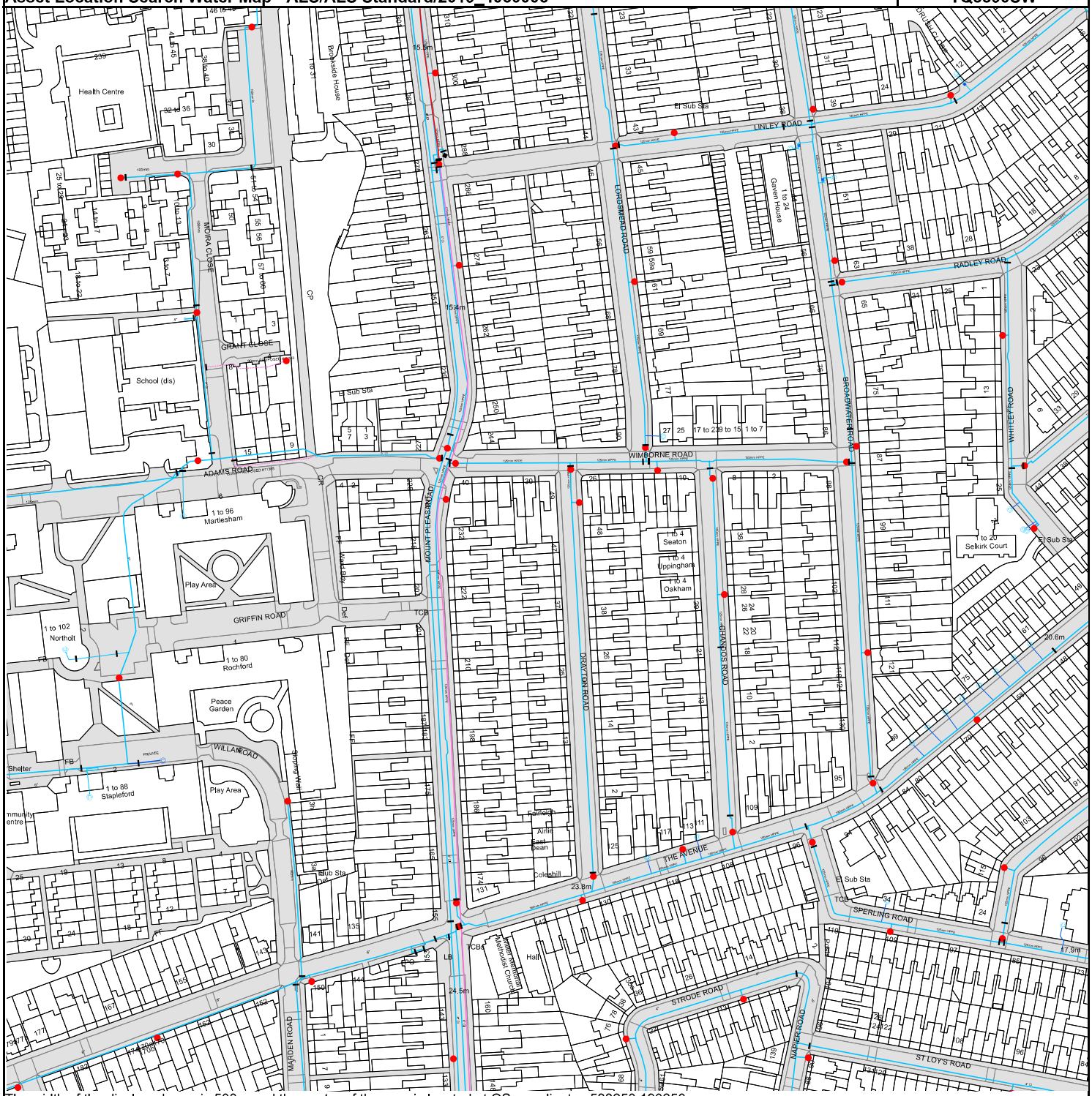
4) Most private pipes are not shown on our plans, as in the past, this information has not been recorded.

5) 'na' or '0' on a manhole level indicates that data is unavailable.

6) The text appearing alongside a sewer line indicates the internal diameter of the pipe in milimetres. Text next to a manhole indicates the manhole reference number and should not be taken as a measurement. If you are unsure about any text or symbology present on the plan, please contact a member of Property Insight on 0845 070 9148.

Asset Location Search Water Map - ALS/ALS Standard/2019_4060006

TQ3390SW

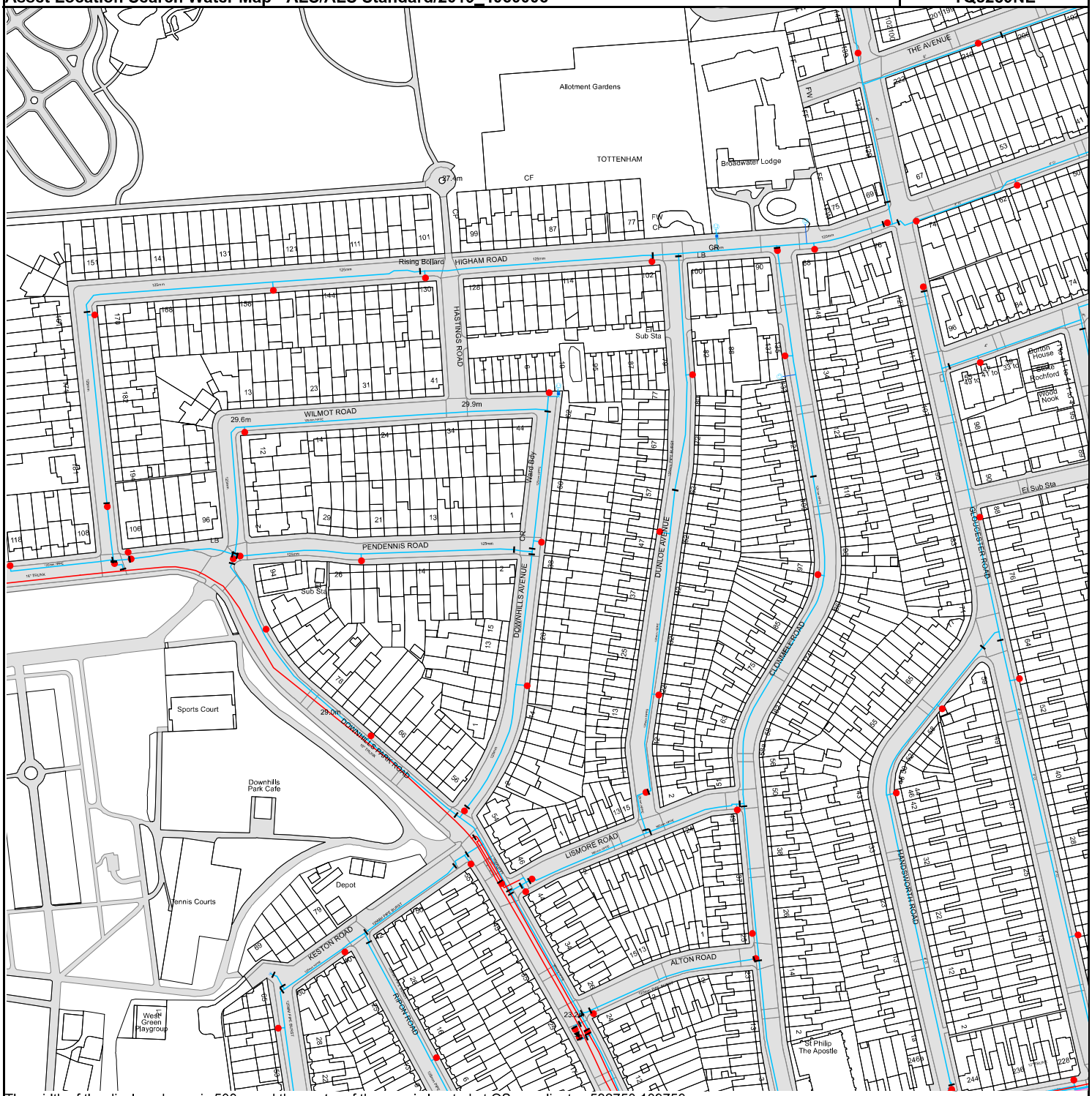


The width of the displayed area is 500m and the centre of the map is located at OS coordinates 533250,190250

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Asset Location Search Water Map - ALS/ALS Standard/2019_4060006 | **TQ3289NE**



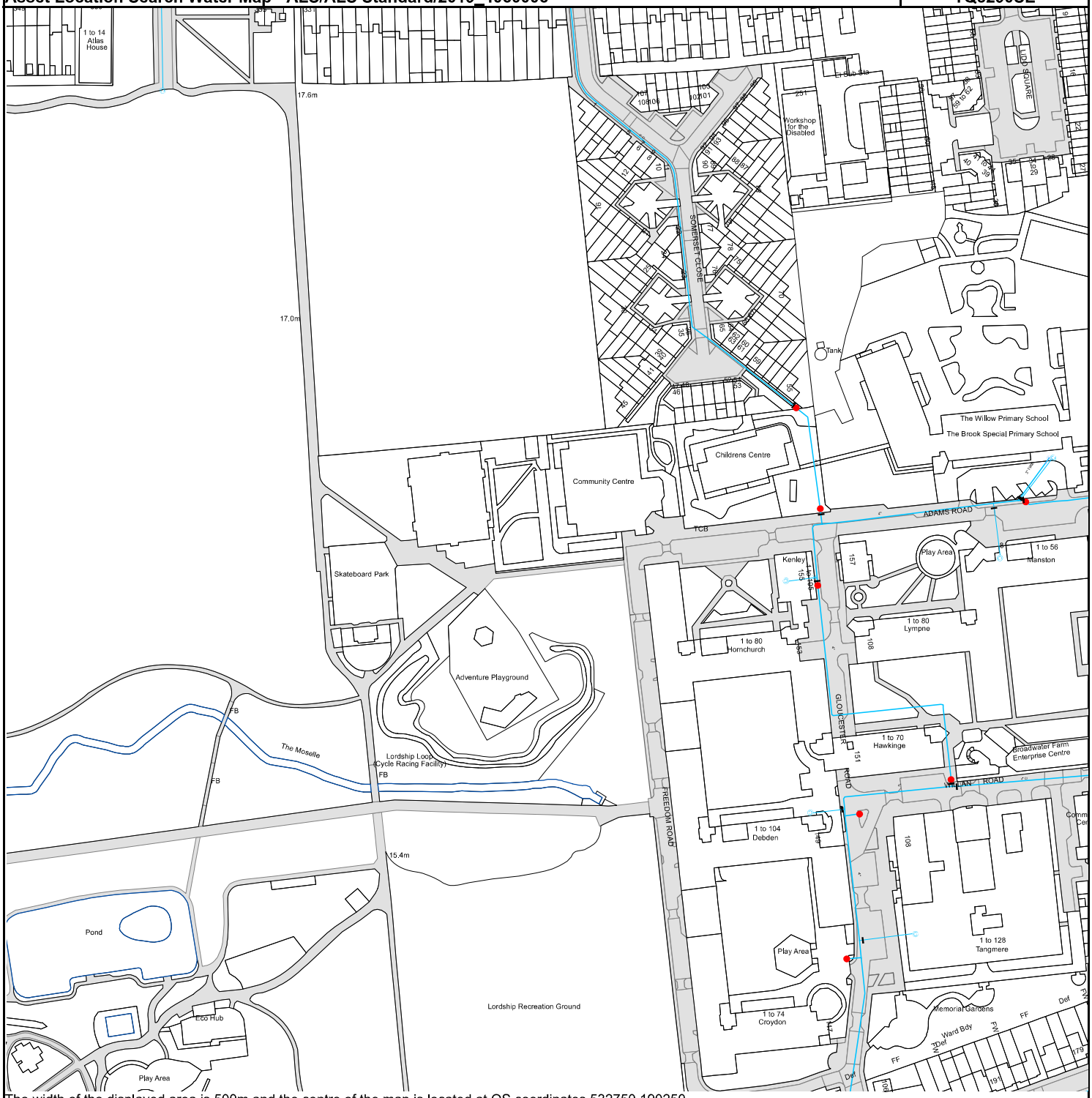
The width of the displayed area is 500m and the centre of the map is located at OS coordinates 532750,189750

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Asset Location Search Water Map - ALS/ALS Standard/2019_4060006

TQ3290SE



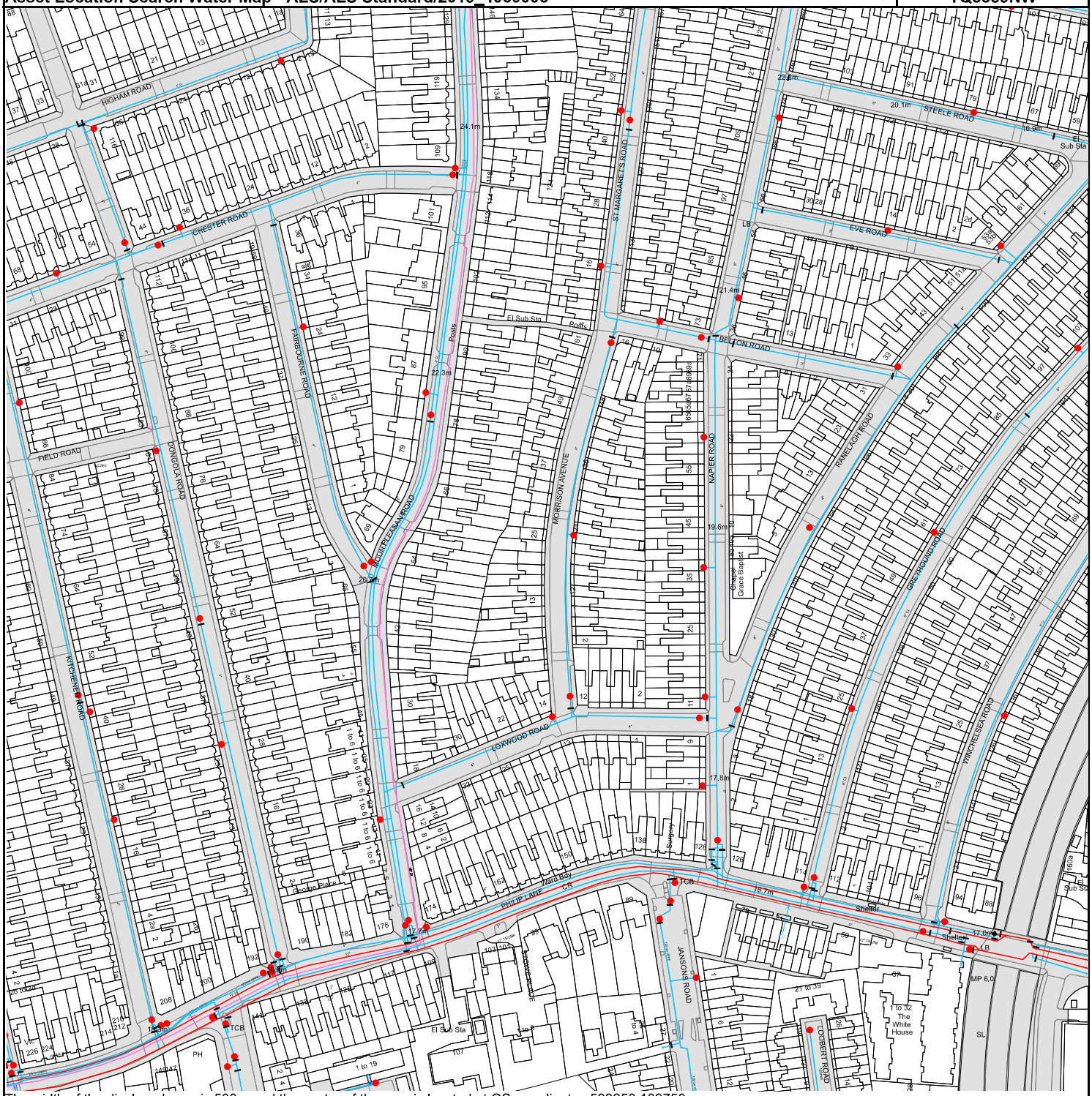
The width of the displayed area is 500m and the centre of the map is located at OS coordinates 532750,190250

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Asset Location Search Water Map - ALS/ALS Standard/2019_4060006

TQ3389NW



The width of the displayed area is 500m and the centre of the map is located at OS coordinates 533250,189750

The position of the apparatus shown on this plan is given without obligation and warranty, and the accuracy cannot be guaranteed. Service pipes are not shown but their presence should be anticipated. No liability of any kind whatsoever is accepted by Thames Water for any error or omission. The actual position of mains and services must be verified and established on site before any works are undertaken.

Based on the Ordnance Survey Map with the Sanction of the controller of H.M. Stationery Office, License no. 100019345 Crown Copyright Reserved.

ALS Water Map Key

Water Pipes (Operated & Maintained by Thames Water)

4"

Distribution Main: The most common pipe shown on water maps. With few exceptions, domestic connections are only made to distribution mains.

16"

Trunk Main: A main carrying water from a source of supply to a treatment plant or reservoir, or from one treatment plant or reservoir to another. Also a main transferring water in bulk to smaller water mains used for supplying individual customers.

3" SUPPLY

Supply Main: A supply main indicates that the water main is used as a supply for a single property or group of properties.

3" FIRE

Fire Main: Where a pipe is used as a fire supply, the word FIRE will be displayed along the pipe.

3" METERED

Metered Pipe: A metered main indicates that the pipe in question supplies water for a single property or group of properties and that quantity of water passing through the pipe is metered even though there may be no meter symbol shown.

Transmission Tunnel: A very large diameter water pipe. Most tunnels are buried very deep underground. These pipes are not expected to affect the structural integrity of buildings shown on the map provided.

Proposed Main: A main that is still in the planning stages or in the process of being laid. More details of the proposed main and its reference number are generally included near the main.

PIPE DIAMETER	DEPTH BELOW GROUND
Up to 300mm (12")	900mm (3')
300mm - 600mm (12" - 24")	1100mm (3' 8")
600mm and bigger (24" plus)	1200mm (4')

Valves

- General Purpose Valve
- Air Valve
- Pressure Control Valve
- Customer Valve

Hydrants

- Single Hydrant

Meters

- Meter

End Items

Symbol indicating what happens at the end of a water main.

- Blank Flange
- Capped End
- Emptying Pit
- Undefined End
- Manifold
- Customer Supply
- Fire Supply

Operational Sites

- Booster Station
- Other
- Other (Proposed)
- Pumping Station
- Service Reservoir
- Shaft Inspection
- Treatment Works
- Unknown
- Water Tower

Other Symbols

- Data Logger

Other Water Pipes (Not Operated or Maintained by Thames Water)

Other Water Company Main: Occasionally other water company water pipes may overlap the border of our clean water coverage area. These mains are denoted in purple and in most cases have the owner of the pipe displayed along them.

Private Main: Indiates that the water main in question is not owned by Thames Water. These mains normally have text associated with them indicating the diameter and owner of the pipe.

Terms and Conditions

All sales are made in accordance with Thames Water Utilities Limited (TWUL) standard terms and conditions unless previously agreed in writing.

1. All goods remain in the property of Thames Water Utilities Ltd until full payment is received.
2. Provision of service will be in accordance with all legal requirements and published TWUL policies.
3. All invoices are strictly due for payment 14 days from due date of the invoice. Any other terms must be accepted/agreed in writing prior to provision of goods or service, or will be held to be invalid.
4. Thames Water does not accept post-dated cheques-any cheques received will be processed for payment on date of receipt.
5. In case of dispute TWUL`s terms and conditions shall apply.
6. Penalty interest may be invoked by TWUL in the event of unjustifiable payment delay. Interest charges will be in line with UK Statute Law 'The Late Payment of Commercial Debts (Interest) Act 1998'.
7. Interest will be charged in line with current Court Interest Charges, if legal action is taken.
8. A charge may be made at the discretion of the company for increased administration costs.

A copy of Thames Water's standard terms and conditions are available from the Commercial Billing Team (cashoperations@thameswater.co.uk).

We publish several Codes of Practice including a guaranteed standards scheme. You can obtain copies of these leaflets by calling us on 0800 316 9800

If you are unhappy with our service you can speak to your original goods or customer service provider. If you are not satisfied with the response, your complaint will be reviewed by the Customer Services Director. You can write to her at: Thames Water Utilities Ltd. PO Box 492, Swindon, SN38 8TU.

If the Goods or Services covered by this invoice falls under the regulation of the 1991 Water Industry Act, and you remain dissatisfied you can refer your complaint to Consumer Council for Water on 0121 345 1000 or write to them at Consumer Council for Water, 1st Floor, Victoria Square House, Victoria Square, Birmingham, B2 4AJ.

Ways to pay your bill

Credit Card	**BACS Payment**	**Telephone Banking**	**Cheque**
Call **0845 070 9148** quoting your invoice number starting CBA or ADS / OSS	Account number **90478703** Sort code **60-00-01** A remittance advice must be sent to: **Thames Water Utilities Ltd., PO Box 3189, Slough SL1 4WW.** or email **ps.billing@thameswater.co.uk**	By calling your bank and quoting: Account number **90478703** Sort code **60-00-01** and your invoice number	Made payable to '**Thames Water Utilities Ltd**' Write your Thames Water account number on the back. Send to: **Thames Water Utilities Ltd., PO Box 3189, Slough SL1 4WW** or by DX to **151280 Slough 13**

Thames Water Utilities Ltd Registered in England & Wales No. 2366661 Registered Office Clearwater Court, Vastern Rd, Reading, Berks, RG1 8DB.

Terms and Conditions

Search Code

IMPORTANT CONSUMER PROTECTION INFORMATION

This search has been produced by Thames Water Property Searches, Clearwater Court, Vastern Road, Reading RG1 8DB, which is registered with the Property Codes Compliance Board (PCCB) as a subscriber to the Search Code. The PCCB independently monitors how registered search firms maintain compliance with the Code.

The Search Code:

- provides protection for homebuyers, sellers, estate agents, conveyancers and mortgage lenders who rely on the information included in property search reports undertaken by subscribers on residential and commercial property within the United Kingdom
- sets out minimum standards which firms compiling and selling search reports have to meet
- promotes the best practise and quality standards within the industry for the benefit of consumers and property professionals
- enables consumers and property professionals to have confidence in firms which subscribe to the code, their products and services.

By giving you this information, the search firm is confirming that they keep to the principles of the Code. This provides important protection for you.

The Code's core principles

Firms which subscribe to the Search Code will:

- display the Search Code logo prominently on their search reports
- act with integrity and carry out work with due skill, care and diligence
- at all times maintain adequate and appropriate insurance to protect consumers
- conduct business in an honest, fair and professional manner
- handle complaints speedily and fairly
- ensure that products and services comply with industry registration rules and standards and relevant laws
- monitor their compliance with the Code

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If you have a query or complaint about your search, you should raise it directly with the search firm, and if appropriate ask for any complaint to be considered under their formal internal complaints procedure. If you remain dissatisfied with the firm's final response, after your complaint has been formally considered, or if the firm has exceeded the response timescales, you may refer your complaint for consideration under The Property Ombudsman scheme (TPOs). The Ombudsman can award compensation of up to £5,000 to you if the Ombudsman finds that you have suffered actual loss and/or aggravation, distress or inconvenience as a result of your search provider failing to keep to the code.

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TPOs Contact Details

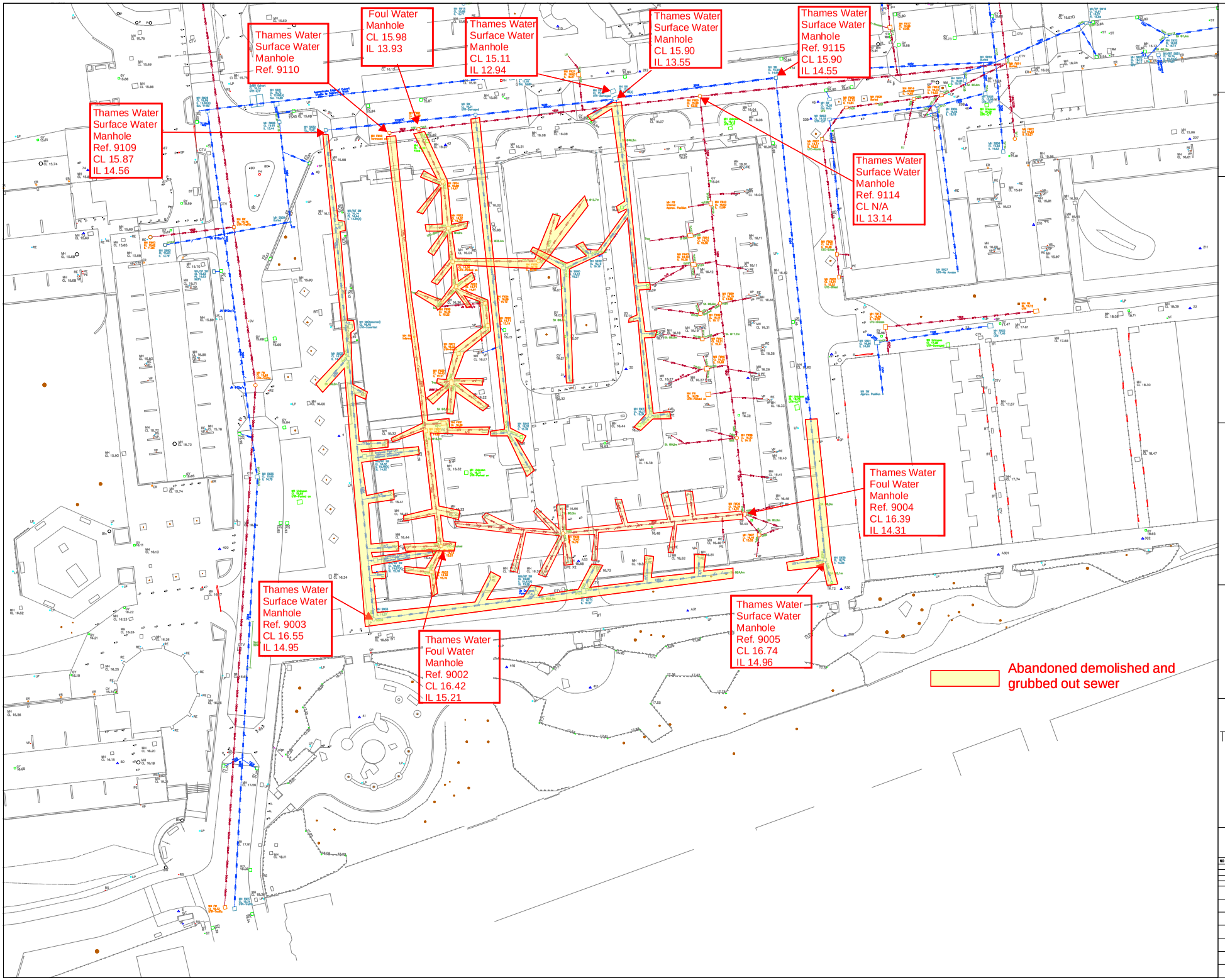
The Property Ombudsman scheme
Milford House
43-55 Milford Street
Salisbury
Wiltshire SP1 2BP
Tel: 01722 333306
Fax: 01722 332296
Web site: www.tpos.co.uk
Email: admin@tpos.co.uk

You can get more information about the PCCB from www.propertycodes.org.uk

PLEASE ASK YOUR SEARCH PROVIDER IF YOU WOULD LIKE A COPY OF THE SEARCH CODE

Appendix D

MWP – Sewer Abandonment Plan



LASER SURVEYS

LAND AND BUILDING SURVEYS, UNDERGROUND SERVICES LOCATION, CCTV DRAINAGE SURVEYS.
Established 1975. Member of The Survey Association.
OPEN SPACE, LEIGH SINTON ROAD, UPPER INTERFIELDS, MALVERN, WR14 1UT
TEL 01886 833173 email. malvern@laser-surveys.com
THE OLD DAIRY, STUBBINS FARM, MOUNTNESSING ROAD, BLACKMORE, ESSEX, CM4 0NX
TEL 01277 657555 email. london@laser-surveys.com

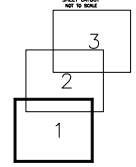
DATUM NOTES
DRAWING IS BASED ON SITE DIGITAL DATA PROVIDED BY KONSTANTINOS CARSON ARCHITECTS.
LEVELS ARE RELATED TO (= SUPPLIED DIGITAL DATA.

ABBREVIATIONS (where applicable)

AV	Air Valve	MK	Marker
BK	Brick	MST	Manstone
BL	Bollard	MW	Meter
BS	Bus Stop	MY	Mercury
BT	British Telecom	OH	Overhead
C/B	Close Boarded	PAV	Pavior
CL	Channel Level	PC	Post
CH	Chainage	PCC	Pre Cast
CO	Column	PE	Polythene Pipe
Conc	Concrete	P/R	Post and Rail
CP	Catch Pit	PT	Petrol
CPS	Concrete Paving Slabs	P/W	Post and Wire
CT	Cable Television	RE	Reading Eye
DC	Drainage Channel	RET	Retaining Wall
DIP	Drain Pipe	RS	Road Sign
ET	Electricity Pipe	RSJ	Rolled Steel Joist
EB	Earthing Rod	SC	Stop Cock
FB	Flower Bed	SH	Sandstone
FE	Fence	SHG	Shingle Strip
FH	Fire Hydrant	SP	Soil Pipe
FL	Floor Level	SV	Stop Valve
FP	Flag Pole	SVC	Security Video Camera
GP	Gate Post	TCB	Telephone Call Box
GV	Gas Valve	TH	Threshold Level
GUY	Guy	TL	Traffic Light
HT	Height	TR	Tank
IC	Inspection Cover	TP	Telegraph Pole
IL	Invert Level	UG	Underground
IN	Interceptor	UTE	Unable to Trace Further
K/B	Kerb Blocks	UTL	Unable to Locate
KD	Kerb Dished	UTO	Unable to Open
KO	Kerb Outlet	UTV	Unable to View
LB	Litter Bin	VP	Vent Pipe
LP	Lamp Post	WL	Water Level
MH	Manhole Cover	WM	Water Meter
		WO	Wash Out
FB	Foul Water	VCP	Vitrified Clay Pipe
SW	Storm Water	PC	Plastic Pipe
CW	Combined Water	CI	Cast Iron Pipe
FL	FB Level	CO	Concrete Pipe
SL	SW Level	PSC	Size Change
D	Depth	MC	Material Change
S/C	Surcharged	JN	Junction
M/D	Manhole Pipe	CN	Connection
SP	Spring Valve	UTC	Unable to Connect
OV	Overflow	UTC-V	Unable to Connect-Silted
A/C	Abstract Connection		
DRP	Drop Pipe		
TEL	Telephone		
You	Relates to Section Number in CCTV Report		

NOTES
- Drainage pipe sizes (where shown) have been gauged from the surface for safety reasons and should be regarded as approximate only.
- Tree roots (where shown) should be treated with caution and expert identification is advised.
- Although this is a digital survey the accuracy and amount of detail are limited to that which can be seen from the surface. Private drains and sewers cannot be shown unless they are manholed.
- Visible features in the vicinity of the boundaries as shown above, may not represent the extent of legally surveyed ownership.
- Whilst every effort has been made to achieve accuracy on this plan, CRUCIAL clearance dimensions, levels and invert levels should be checked prior to design and construction.
- Mark levels have been taken in the bottom of the channel.
- All drainage pipe sizes are 100# unless otherwise stated along the length.

SHEET LAYOUT NOT TO SCALE



TANGMERE & NORTHOLT SITES
BROADWATER FARM ESTATE
N17 6BF

CCTV DRAINAGE SURVEY

SURVEYED FOR	Konstaventic Carson Architects The Gymnasium 60 Kingsway Place Sans Walk London, EC1R 0LU
SURVEYOR	D Jenkins P Jinks
DATE	April 2020

NO	DATE	REVISION

DRAWING NO	N 1053/1 REV 0
DRAWING TITLE	CCTV DRAINAGE
SCALE	1 : 200 (A0)
SEE ALSO DWG NOS	N 10005/1–2
SHEET	1 of 3
REF NO	N 1053



SEWER ABANDONMENT

SCALE1 : 150

North

DO NOT SCALE FROM THIS DRAWING. USE FIGURED DIMENSIONS IN ALL CASES. VERIFY DIMENSIONS ON SITE AND REPORT ANY DISCREPANCIES TO THE DESIGNERS IMMEDIATELY.
THIS DRAWING TO BE READ IN CONJUNCTION WITH THE DESIGNERS SPECIFICATION.
© THIS DRAWING IS COPYRIGHT AND MAY ONLY BE REPRODUCED WITH THE DESIGNERS PERMISSION.

1. ALL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH ALL RELEVANT SPECIFICATIONS, BILLS OF QUANTITIES, ARCHITECTURAL, SERVICES AND ENGINEERING DRAWINGS.
2. ANY DISCREPENCIES BETWEEN THESE DOCUMENTS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER.
3. ALL DIMENSIONS ARE IN MILLIMETRES, UNLESS NOTED OTHERWISE. TBC ON SITE
4. ALL LEVELS ARE IN METRES RELATED TO ORDNANCE DATUM. TBC ON SITE.
5. DRAWINGS ARE NOT TO BE SCALED.
6. ALL TEMPORARY WORKS TO CONTRACTORS DETAILS.
7. CONTRACTOR TO APPROVE ALL SET OUT INFORMATION PRIOR TO CONSTRUCTION.

LEGEND :

- SITE BOUNDARY
- EXISTING THAMES FOUL WATER SEWER
- EXISTING THAMES FOUL WATER SEWER TO BE ABANDONED
- EXISTING THAMES SURFACE WATER SEWER
- EXISTING THAMES SURFACE WATER SEWER TO BE ABANDONED
- EXISTING PRIVATE FOUL WATER PIPE
- EXISTING PRIVATE SURFACE WATER SEWER
- NEW SURFACE WATER SEWER

NOTE : ALL ON SITE EXISTING BELOW GROUND DRAINAGE TO BE CONFIRMED BY CCTV SURVEY BY CONTRACTOR

NOTE: ALL EXISTING THAMES WATER ASSETS ARE SHOWN APPROXIMATELY AND NEED TO BE CONFIRMED ON SITE BY CONTRACTOR

REV	DATE	DESCRIPTION	BY	APP
P01	05.03.26	Issued for Information	DO	RS

PROJECT: Tangmere

TITLE: SEWER ABANDONMENT

CLIENT: Formation D&B Ltd

MWP
ENGINEERING AND ENVIRONMENTAL CONSULTANTS
CORK | TRALEE | LONDON | LIMERICK
mwpitch.co.uk

DRAWN:	CHECKED:	APPROVED:
VH	SZ	RS

PROJECT NUMBER:	DATE:	SCALE @ A1:
26015	02/02/26	As indicated

STATUS DESCRIPTION:	STATUS:
FOR INFORMATION	S2

DRAWING NUMBER:	REV:
TAN-MWP-XX-00-DR-CV-2300	P01

Appendix E

MWP – Existing Runoff Rates Calculations

MWP

Tangmere Main Block

Project No.	26015
Date	Mar-26
Design By	DO
Checked By	RS
Calc Pg No.	1

Surface Water Run-off Calculation:

SW run-off from pre-developed site:

Impermeable area =	5094	m2
Permeable area =	0	m2
Proposed Discharge from Site =	2.5	l/s

Formula for calculating run-off from impermeable areas:

Q = 2.78 C i A

C = Run-off Coefficient =	0.9	
i = rainfall intencity (50mm/hr) =	50	mm/h for an average 1 in 2 year storm event
A = imperbeable area	0.5094	hectares

Hydrological Growth Curve Factors:

1 year factor =	0.85
30 year factor =	2.3
100 year factor =	3.19

Run-off from impermeable Surfaces:

Surface	Area (ha) (ha)	Coefficient © ©	Storm Event (1 in x yr)	Growth Curve Factor	Surface Water Run-off Discharge Rate (l/s)
Hard Standing	0.5094	0.9	1	0.85	54.17
	0.5094	0.9	30	2.3	146.57
	0.5094	0.9	100	3.19	203.29
	0.5094	0.9	100 + 40% CC	3.19	284.60

Summary of Existing Run-off:

Storm Event (1 in x yr)	Discharge from permeable area of site (l/s)	Discharge from impermeable area of site (l/s)	Total Discharge from Site (l/s)
1	0	54.17	54.17
30	0	146.57	146.57
100	0	203.29	203.29
100+40%CC	0	284.60	284.60

Existing vs Proposed Runoff rates:

Storm Event (1 in x yr)	Existing Discharge from Site (l/s)	Proposed Discharge from Site (l/s)	Reduction (l/s)
1	54.17	2.50	95%
30	146.57	2.50	98%
100	203.29	2.50	99%
100+40%CC	284.60	2.50	99%

Appendix F

MWP – Greenfield Runoff Rate

Greenfield runoff rate estimation tool

www.uksuds.com | Greenfield runoff rate estimation tool (https://www.uksuds.com/)

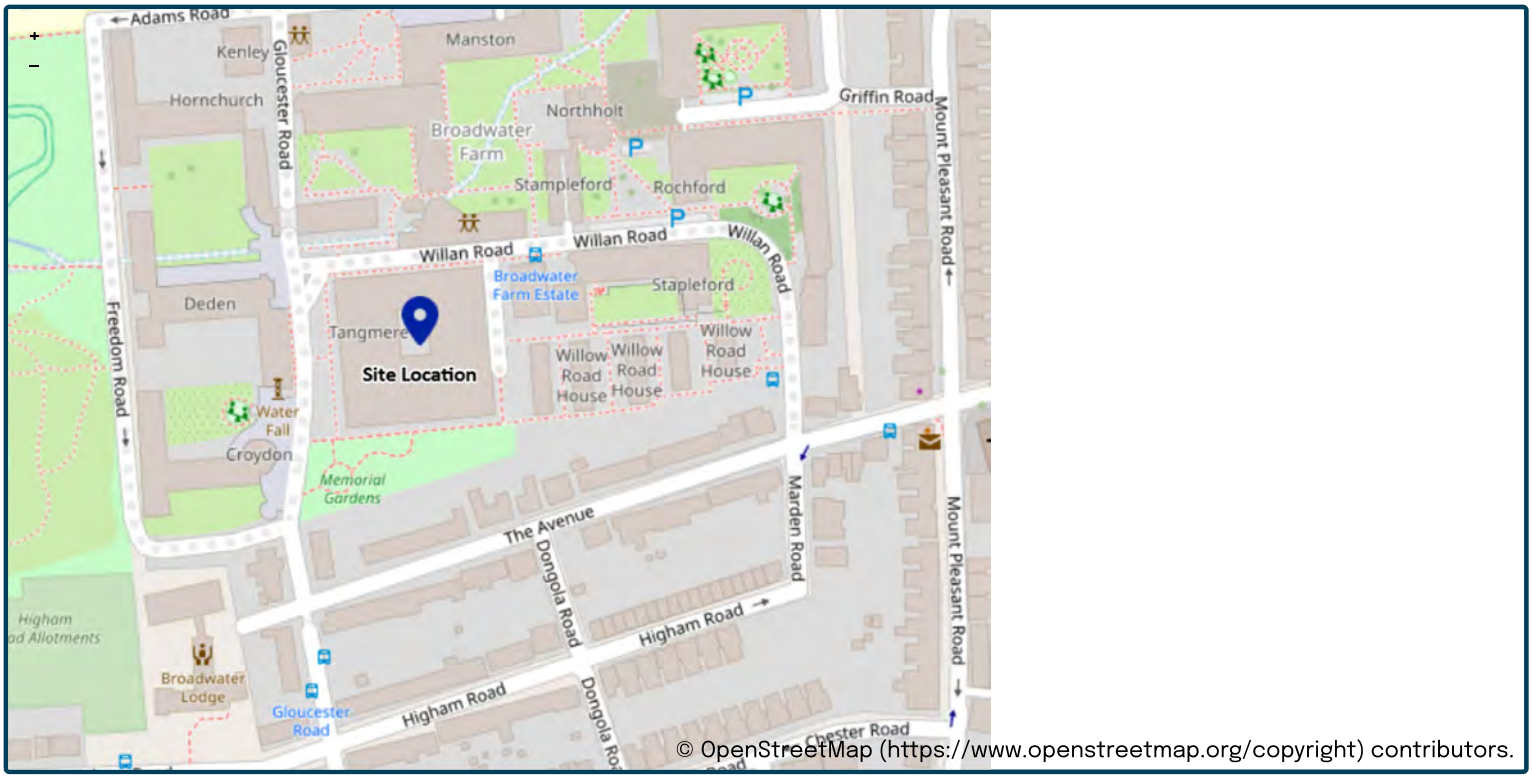
This is an estimation of the greenfield runoff rates that are used to meet normal best practice criteria in line with Environment Agency guidance “Rainfall runoff management for developments”, SC030219 (2013), the SuDS Manual C753 (CIRIA, 2015) and the non-statutory standards for SuDS (Defra, 2015). This information on greenfield runoff rates may be the basis for setting consents for the drainage of surface water runoff from sites.

Project details

Date	03/03/2026
Calculated by	David Omonitan
Reference	Tangmere
Model version	2.2.3

Location

Site name	Tangmere
Site location	Harringey



Site easting (British National Grid)	532952
Site northing (British National Grid)	190087

Site details

Total site area (ha)	0.5094 ha

Greenfield runoff

Method

Method	IH124

IH124

	My value		Map value
SAAR (mm)	631 mm		631
How should SPR be derived?	WRAP soil type		
WRAP soil type	2		2
SPR	0.3		
QBar (IH124) (l/s)	0.8 l/s		

Growth curve factors

	My value		Map value
Hydrological region	6		6
1 year growth factor	0.85		
2 year growth factor	0.88		
10 year growth factor	1.62		
30 year growth factor	2.3		
100 year growth factor	3.19		
200 year growth factor	3.74		

Results

Method	IH124
Flow rate 1 year (l/s)	0.7 l/s
Flow rate 2 year (l/s)	0.7 l/s
Flow rate 10 years (l/s)	1.3 l/s
Flow rate 30 years (l/s)	1.9 l/s
Flow rate 100 years (l/s)	2.6 l/s
Flow rate 200 years (l/s)	3.1 l/s

Please note runoff estimation is subject to significant uncertainty. Results are therefore normally reported to only 1 decimal place. Where 2 decimal places are provided, this does not indicate accuracy to this level, it has been adopted to prevent 'zero' figures from being reported. Outputs less than 0.01 l/s are reported as 0.01 l/s.

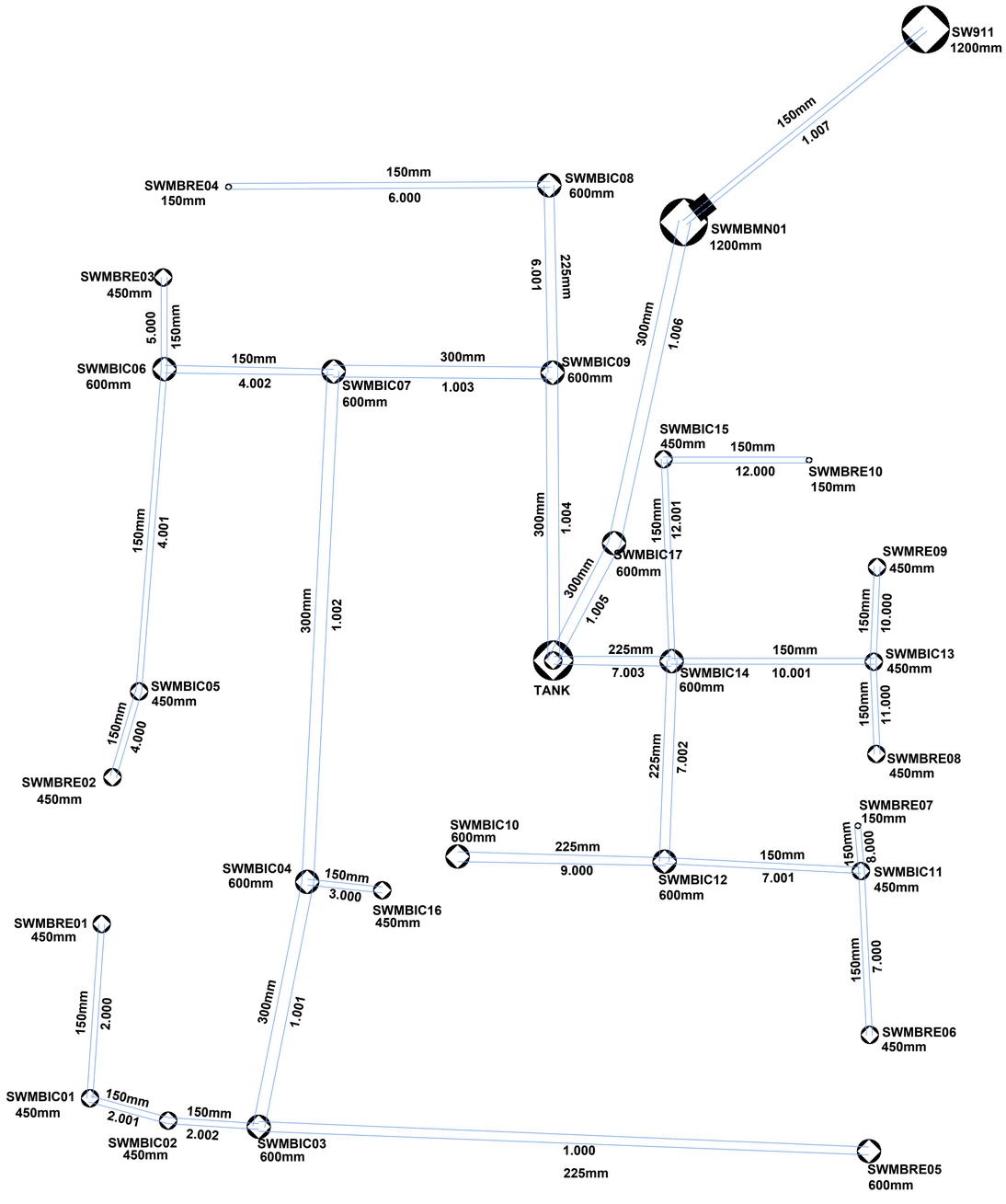
Disclaimer

This report was produced using the Greenfield runoff rate estimation tool (2.2.3) developed by HR Wallingford and available at uksuds.com (https://www.uksuds.com/). The use of this tool is subject to the UK SuDS terms and conditions and licence agreement, which can both be found at uksuds.com/terms-conditions (https://www.uksuds.com/terms-conditions). The outputs from this tool have been used to estimate Greenfield runoff rates. The use of these results is the responsibility of the users of this tool. No liability will be accepted by HR Wallingford, the Environment Agency, Centre for Ecology and Hydrology, Wallingford Hydrosolutions or any other organisation for the use of these data in the design or operational characteristics of any drainage scheme.

Appendix G

MWP – Causeway Flow Simulation Report

	Malachy Walsh & Co. (UK) Ltd 2 Exchange Tower 1-2 Harbour Exchange Square London E14 9GE	File: Drainage Network -Mainblock-P02.pfd Network: Storm Network D.O 02/06/2026	Page 1 Tangmere Main Block



Flow+ v16.0 Copyright © 1988-2026 Causeway Technologies Ltd

Design Settings

Rainfall Methodology	FEH-22	Minimum Velocity (m/s)	1.00
Return Period (years)	100	Connection Type	Level Soffits
Additional Flow (%)	0	Minimum Backdrop Height (m)	0.200
CV	0.750	Preferred Cover Depth (m)	1.200
Time of Entry (mins)	5.00	Include Intermediate Ground	✓
Maximum Time of Concentration (mins)	30.00	Enforce best practice design rules	x
Maximum Rainfall (mm/hr)	50.0		

Nodes

Name	Area (ha)	T of E (mins)	Cover Level (m)	Diameter (mm)	Easting (m)	Northing (m)	Depth (m)	Invert Level (m)
SWMBRE04		5.00	16.150	150	22.237	64.784	0.800	15.350
SWMBIC08	0.028	5.00	16.150	600	30.297	64.824	1.120	15.030
SWMBIC09	0.031	5.00	16.140	600	30.382	60.100	1.410	14.730
SWMBRE03		5.00	16.150	450	20.596	62.501	0.600	15.550
SWMBIC06	0.015	5.00	16.000	600	20.627	60.190	0.820	15.180
SWMBIC07	0.031	5.00	16.130	600	24.878	60.131	1.265	14.865
SWMBRE02	0.005	5.00	16.100	450	19.321	49.898	0.550	15.550
SWMBIC05	0.010	5.00	16.150	450	19.990	52.061	0.675	15.475
SWMBRE01	0.004	5.00	16.250	450	19.050	46.198	0.550	15.700
SWMBIC01	0.004	5.00	16.300	450	18.756	41.803	0.650	15.650
SWMBIC02			16.280	450	20.720	41.239	0.680	15.600
SWMBIC03	0.055	5.00	16.300	600	22.996	41.084	0.940	15.360
SWMBRE05	0.020	5.00	16.480	600	38.332	40.469	0.725	15.755
SWMBIC04	0.035	5.00	16.345	600	24.214	47.259	1.075	15.270
SWMBIC10	0.030	5.00	16.165	600	27.993	47.899	0.800	15.365
SWMBIC12			16.290	600	33.195	47.772	1.150	15.140
SWMBRE06		5.00	16.500	450	38.352	43.402	0.950	15.550
SWMBIC11	0.014	5.00	16.275	450	38.129	47.533	0.885	15.390
SWMBIC14	0.050	5.00	16.150	600	33.374	52.826	1.195	14.955
SWMBIC13	0.014	5.00	16.200	450	38.453	52.811	0.665	15.535
SWMBRE08		5.00	16.200	450	38.518	50.485	0.600	15.600
SWMRE09		5.00	16.200	450	38.535	55.196	0.600	15.600
SWMBRE10	0.006	5.00	16.085	150	36.826	57.895	0.790	15.295
SWMBIC15			16.085	450	33.169	57.916	0.900	15.185
TANK			16.070	450	30.397	52.841	1.370	14.700
SWMBMN01	0.040	5.00	16.100	1200	33.680	63.895	1.530	14.570
SW911			15.925	1200	39.757	68.757	2.306	13.619
SWMBRE07		5.00	16.200	150	38.053	48.675	0.600	15.600
SWMBIC16		5.00	16.180	450	26.100	47.048	0.695	15.485
SWMBIC17			16.085	600	31.927	55.800	1.405	14.680

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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)
6.000	SWMBRE04	SWMBIC08	36.765	0.600	15.350	15.105	0.245	150.1	150	5.75	50.0
6.001	SWMBIC08	SWMBIC09	17.969	0.600	15.030	14.805	0.225	79.9	225	5.95	50.0
5.000	SWMBRE03	SWMBIC06	7.603	0.600	15.550	15.180	0.370	20.5	150	5.06	50.0
4.002	SWMBIC06	SWMBIC07	18.101	0.600	15.180	15.015	0.165	109.7	150	5.99	50.0
1.003	SWMBIC07	SWMBIC09	21.162	0.600	14.865	14.730	0.135	156.8	300	6.77	50.0
4.000	SWMBRE02	SWMBIC05	7.738	0.600	15.550	15.475	0.075	103.2	150	5.13	50.0
4.001	SWMBIC05	SWMBIC06	31.854	0.600	15.475	15.180	0.295	108.0	150	5.68	50.0
2.000	SWMBRE01	SWMBIC01	6.045	0.600	15.700	15.650	0.050	120.9	150	5.11	50.0
2.001	SWMBIC01	SWMBIC02	6.522	0.600	15.650	15.600	0.050	130.4	150	5.23	50.0
2.002	SWMBIC02	SWMBIC03	11.368	0.600	15.600	15.510	0.090	126.3	150	5.45	50.0
1.000	SWMBRE05	SWMBIC03	48.275	0.600	15.755	15.435	0.320	150.9	225	5.76	50.0
1.001	SWMBIC03	SWMBIC04	20.297	0.600	15.360	15.270	0.090	225.5	300	6.08	50.0
1.002	SWMBIC04	SWMBIC07	38.877	0.600	15.270	14.865	0.405	96.0	300	6.49	50.0
9.000	SWMBIC10	SWMBIC12	17.913	0.600	15.365	15.140	0.225	79.6	225	5.20	50.0
7.000	SWMBRE06	SWMBIC11	15.091	0.600	15.550	15.390	0.160	94.3	150	5.24	50.0
7.001	SWMBIC11	SWMBIC12	13.203	0.600	15.390	15.215	0.175	75.4	150	5.43	50.0
7.002	SWMBIC12	SWMBIC14	25.340	0.600	15.140	14.955	0.185	137.0	225	5.81	50.0
10.001	SWMBIC13	SWMBIC14	13.222	0.600	15.535	15.030	0.505	26.2	150	5.24	50.0
11.000	SWMBRE08	SWMBIC13	3.566	0.600	15.600	15.535	0.065	54.9	150	5.04	50.0
10.000	SWMRE09	SWMBIC13	7.365	0.600	15.600	15.535	0.065	113.3	150	5.13	50.0
12.000	SWMBRE10	SWMBIC15	4.430	0.600	15.295	15.185	0.110	40.3	150	5.05	50.0
12.001	SWMBIC15	SWMBIC14	15.049	0.600	15.185	15.030	0.155	97.1	150	5.29	50.0
7.003	SWMBIC14	TANK	6.750	0.600	14.955	14.910	0.045	150.0	225	5.92	50.0
1.004	SWMBIC09	TANK	7.500	0.600	14.730	14.700	0.030	250.0	300	6.89	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)	Pro Depth (mm)	Pro Velocity (m/s)
6.000	0.818	14.5	0.0	0.650	0.895	0.000	0.0	0	0.000
6.001	1.464	58.2	3.8	0.895	1.110	0.028	0.0	39	0.837
5.000	2.231	39.4	0.0	0.450	0.670	0.000	0.0	0	0.000
4.002	0.959	16.9	4.1	0.670	0.965	0.030	0.0	50	0.790
1.003	1.253	88.6	24.3	0.965	1.110	0.179	0.0	107	1.073
4.000	0.989	17.5	0.7	0.400	0.525	0.005	0.0	20	0.476
4.001	0.966	17.1	2.0	0.525	0.670	0.015	0.0	35	0.650
2.000	0.913	16.1	0.5	0.400	0.500	0.004	0.0	19	0.422
2.001	0.878	15.5	1.1	0.500	0.530	0.008	0.0	27	0.503
2.002	0.893	15.8	1.1	0.530	0.640	0.008	0.0	27	0.511
1.000	1.062	42.2	2.7	0.500	0.640	0.020	0.0	38	0.597
1.001	1.043	73.7	11.2	0.640	0.775	0.083	0.0	79	0.759
1.002	1.605	113.4	16.0	0.775	0.965	0.118	0.0	76	1.146
9.000	1.467	58.3	4.1	0.575	0.925	0.030	0.0	40	0.849
7.000	1.035	18.3	0.0	0.800	0.735	0.000	0.0	0	0.000
7.001	1.158	20.5	1.9	0.735	0.925	0.014	0.0	31	0.725
7.002	1.115	44.3	6.0	0.925	0.970	0.044	0.0	56	0.784
10.001	1.975	34.9	1.9	0.515	0.970	0.014	0.0	24	1.058
11.000	1.361	24.0	0.0	0.450	0.515	0.000	0.0	0	0.000
10.000	0.943	16.7	0.0	0.450	0.515	0.000	0.0	0	0.000
12.000	1.590	28.1	0.8	0.640	0.750	0.006	0.0	17	0.695
12.001	1.020	18.0	0.8	0.750	0.970	0.006	0.0	22	0.518
7.003	1.065	42.3	15.4	0.970	0.935	0.114	0.0	94	0.982
1.004	0.990	70.0	32.3	1.110	1.070	0.238	0.0	143	0.971

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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)
1.007	SWMBMN01	SW911	11.479	0.600	14.570	13.619	0.951	12.1	150	7.31	50.0
8.000	SWMBRE07	SWMBIC11	12.500	0.600	15.600	15.390	0.210	59.5	150	5.16	50.0
3.000	SWMBIC16	SWMBIC04	6.522	0.600	15.485	15.420	0.065	100.3	150	5.11	50.0
1.005	TANK	SWMBIC17	2.447	0.600	14.700	14.680	0.020	122.4	300	6.92	50.0
1.006	SWMBIC17	SWMBMN01	21.632	0.600	14.680	14.570	0.110	196.7	300	7.25	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)	Pro Depth (mm)	Pro Velocity (m/s)
1.007	2.915	51.5	53.1	1.380	2.156	0.392	0.0	128	3.302
8.000	1.306	23.1	0.0	0.450	0.735	0.000	0.0	0	0.000
3.000	1.003	17.7	0.0	0.545	0.775	0.000	0.0	0	0.000
1.005	1.420	100.4	47.7	1.070	1.105	0.352	0.0	146	1.403
1.006	1.117	79.0	47.7	1.105	1.230	0.352	0.0	168	1.168

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)
6.000	36.765	150.1	150	Circular	16.150	15.350	0.650	16.150	15.105	0.895
6.001	17.969	79.9	225	Circular	16.150	15.030	0.895	16.140	14.805	1.110
5.000	7.603	20.5	150	Circular	16.150	15.550	0.450	16.000	15.180	0.670
4.002	18.101	109.7	150	Circular	16.000	15.180	0.670	16.130	15.015	0.965
1.003	21.162	156.8	300	Circular	16.130	14.865	0.965	16.140	14.730	1.110
4.000	7.738	103.2	150	Circular	16.100	15.550	0.400	16.150	15.475	0.525
4.001	31.854	108.0	150	Circular	16.150	15.475	0.525	16.000	15.180	0.670
2.000	6.045	120.9	150	Circular	16.250	15.700	0.400	16.300	15.650	0.500
2.001	6.522	130.4	150	Circular	16.300	15.650	0.500	16.280	15.600	0.530
2.002	11.368	126.3	150	Circular	16.280	15.600	0.530	16.300	15.510	0.640
1.000	48.275	150.9	225	Circular	16.480	15.755	0.500	16.300	15.435	0.640
1.001	20.297	225.5	300	Circular	16.300	15.360	0.640	16.345	15.270	0.775
1.002	38.877	96.0	300	Circular	16.345	15.270	0.775	16.130	14.865	0.965
9.000	17.913	79.6	225	Circular	16.165	15.365	0.575	16.290	15.140	0.925

Link	US Node	Dia (mm)	Node Type	MH Type	DS Node	Dia (mm)	Node Type	MH Type
6.000	SWMBRE04	150	Manhole	Adoptable	SWMBIC08	600	Manhole	Adoptable
6.001	SWMBIC08	600	Manhole	Adoptable	SWMBIC09	600	Manhole	Adoptable
5.000	SWMBRE03	450	Manhole	Adoptable	SWMBIC06	600	Manhole	Adoptable
4.002	SWMBIC06	600	Manhole	Adoptable	SWMBIC07	600	Manhole	Adoptable
1.003	SWMBIC07	600	Manhole	Adoptable	SWMBIC09	600	Manhole	Adoptable
4.000	SWMBRE02	450	Manhole	Adoptable	SWMBIC05	450	Manhole	Adoptable
4.001	SWMBIC05	450	Manhole	Adoptable	SWMBIC06	600	Manhole	Adoptable
2.000	SWMBRE01	450	Manhole	Adoptable	SWMBIC01	450	Manhole	Adoptable
2.001	SWMBIC01	450	Manhole	Adoptable	SWMBIC02	450	Manhole	Adoptable
2.002	SWMBIC02	450	Manhole	Adoptable	SWMBIC03	600	Manhole	Adoptable
1.000	SWMBRE05	600	Manhole	Adoptable	SWMBIC03	600	Manhole	Adoptable
1.001	SWMBIC03	600	Manhole	Adoptable	SWMBIC04	600	Manhole	Adoptable
1.002	SWMBIC04	600	Manhole	Adoptable	SWMBIC07	600	Manhole	Adoptable
9.000	SWMBIC10	600	Manhole	Adoptable	SWMBIC12	600	Manhole	Adoptable

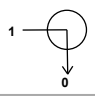
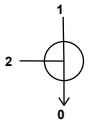
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Pipeline Schedule

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)
7.000	15.091	94.3	150	Circular	16.500	15.550	0.800	16.275	15.390	0.735
7.001	13.203	75.4	150	Circular	16.275	15.390	0.735	16.290	15.215	0.925
7.002	25.340	137.0	225	Circular	16.290	15.140	0.925	16.150	14.955	0.970
10.001	13.222	26.2	150	Circular	16.200	15.535	0.515	16.150	15.030	0.970
11.000	3.566	54.9	150	Circular	16.200	15.600	0.450	16.200	15.535	0.515
10.000	7.365	113.3	150	Circular	16.200	15.600	0.450	16.200	15.535	0.515
12.000	4.430	40.3	150	Circular	16.085	15.295	0.640	16.085	15.185	0.750
12.001	15.049	97.1	150	Circular	16.085	15.185	0.750	16.150	15.030	0.970
7.003	6.750	150.0	225	Circular	16.150	14.955	0.970	16.070	14.910	0.935
1.004	7.500	250.0	300	Circular	16.140	14.730	1.110	16.070	14.700	1.070
1.007	11.479	12.1	150	Circular	16.100	14.570	1.380	15.925	13.619	2.156
8.000	12.500	59.5	150	Circular	16.200	15.600	0.450	16.275	15.390	0.735
3.000	6.522	100.3	150	Circular	16.180	15.485	0.545	16.345	15.420	0.775
1.005	2.447	122.4	300	Circular	16.070	14.700	1.070	16.085	14.680	1.105
1.006	21.632	196.7	300	Circular	16.085	14.680	1.105	16.100	14.570	1.230

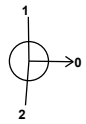
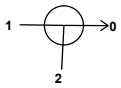
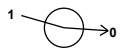
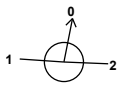
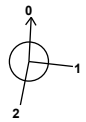
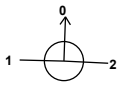
Link	US Node	Dia (mm)	Node Type	MH Type	DS Node	Dia (mm)	Node Type	MH Type
7.000	SWMBRE06	450	Manhole	Adoptable	SWMBIC11	450	Manhole	Adoptable
7.001	SWMBIC11	450	Manhole	Adoptable	SWMBIC12	600	Manhole	Adoptable
7.002	SWMBIC12	600	Manhole	Adoptable	SWMBIC14	600	Manhole	Adoptable
10.001	SWMBIC13	450	Manhole	Adoptable	SWMBIC14	600	Manhole	Adoptable
11.000	SWMBRE08	450	Manhole	Adoptable	SWMBIC13	450	Manhole	Adoptable
10.000	SWMRE09	450	Manhole	Adoptable	SWMBIC13	450	Manhole	Adoptable
12.000	SWMBRE10	150	Manhole	Adoptable	SWMBIC15	450	Manhole	Adoptable
12.001	SWMBIC15	450	Manhole	Adoptable	SWMBIC14	600	Manhole	Adoptable
7.003	SWMBIC14	600	Manhole	Adoptable	TANK	450	Manhole	Adoptable
1.004	SWMBIC09	600	Manhole	Adoptable	TANK	450	Manhole	Adoptable
1.007	SWMBMN01	1200	Manhole	Adoptable	SW911	1200	Manhole	Adoptable
8.000	SWMBRE07	150	Manhole	Adoptable	SWMBIC11	450	Manhole	Adoptable
3.000	SWMBIC16	450	Manhole	Adoptable	SWMBIC04	600	Manhole	Adoptable
1.005	TANK	450	Manhole	Adoptable	SWMBIC17	600	Manhole	Adoptable
1.006	SWMBIC17	600	Manhole	Adoptable	SWMBMN01	1200	Manhole	Adoptable

Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)
SWMBRE04	22.237	64.784	16.150	0.800	150				
						0	6.000	15.350	150
SWMBIC08	30.297	64.824	16.150	1.120	600	1	6.000	15.105	150
									
						0	6.001	15.030	225
SWMBIC09	30.382	60.100	16.140	1.410	600	1	6.001	14.805	225
							2	1.003	14.730	300
						0	1.004	14.730	300

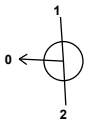
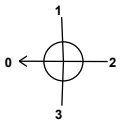
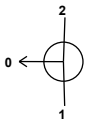
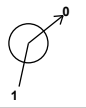
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Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)
SWMBRE03	20.596	62.501	16.150	0.600	450				
						0	5.000	15.550	150
SWMBIC06	20.627	60.190	16.000	0.820	600		1	5.000	15.180	150
							2	4.001	15.180	150
						0	4.002	15.180	150
SWMBIC07	24.878	60.131	16.130	1.265	600		1	4.002	15.015	150
							2	1.002	14.865	300
						0	1.003	14.865	300
SWMBRE02	19.321	49.898	16.100	0.550	450				
						0	4.000	15.550	150
SWMBIC05	19.990	52.061	16.150	0.675	450		1	4.000	15.475	150
						0	4.001	15.475	150
SWMBRE01	19.050	46.198	16.250	0.550	450				
						0	2.000	15.700	150
SWMBIC01	18.756	41.803	16.300	0.650	450		1	2.000	15.650	150
						0	2.001	15.650	150
SWMBIC02	20.720	41.239	16.280	0.680	450		1	2.001	15.600	150
						0	2.002	15.600	150
SWMBIC03	22.996	41.084	16.300	0.940	600		1	2.002	15.510	150
							2	1.000	15.435	225
						0	1.001	15.360	300
SWMBRE05	38.332	40.469	16.480	0.725	600				
						0	1.000	15.755	225
SWMBIC04	24.214	47.259	16.345	1.075	600		1	3.000	15.420	150
							2	1.001	15.270	300
						0	1.002	15.270	300
SWMBIC10	27.993	47.899	16.165	0.800	600				
						0	9.000	15.365	225
SWMBIC12	33.195	47.772	16.290	1.150	600		1	9.000	15.140	225
							2	7.001	15.215	150
						0	7.002	15.140	225

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Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)
SWMBRE06	38.352	43.402	16.500	0.950	450				
						0	7.000	15.550	150
SWMBIC11	38.129	47.533	16.275	0.885	450		1	8.000	15.390	150
							2	7.000	15.390	150
						0	7.001	15.390	150
SWMBIC14	33.374	52.826	16.150	1.195	600		1	12.001	15.030	150
							2	10.001	15.030	150
							3	7.002	14.955	225
						0	7.003	14.955	225
SWMBIC13	38.453	52.811	16.200	0.665	450		1	11.000	15.535	150
							2	10.000	15.535	150
						0	10.001	15.535	150
SWMBRE08	38.518	50.485	16.200	0.600	450				
						0	11.000	15.600	150
SWMRE09	38.535	55.196	16.200	0.600	450				
						0	10.000	15.600	150
SWMBRE10	36.826	57.895	16.085	0.790	150				
						0	12.000	15.295	150
SWMBIC15	33.169	57.916	16.085	0.900	450		1	12.000	15.185	150
						0	12.001	15.185	150
TANK	30.397	52.841	16.070	1.370	450		1	7.003	14.910	225
							2	1.004	14.700	300
						0	1.005	14.700	300
SWMBMN01	33.680	63.895	16.100	1.530	1200		1	1.006	14.570	300
						0	1.007	14.570	150
SW911	39.757	68.757	15.925	2.306	1200		1	1.007	13.619	150
SWMBRE07	38.053	48.675	16.200	0.600	150				
						0	8.000	15.600	150
SWMBIC16	26.100	47.048	16.180	0.695	450				
						0	3.000	15.485	150

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Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections		Link	IL (m)	Dia (mm)
SWMBIC17	31.927	55.800	16.085	1.405	600		1	1.005	14.680	300
							0	1.006	14.680	300

Simulation Settings

Rainfall Methodology	FEH-22	Skip Steady State	x	Check Discharge Rate(s)	x
Rainfall Events	Singular	Drain Down Time (mins)	240	Check Discharge Volume	x
Summer CV	0.750	Additional Storage (m³/ha)	20.0		
Analysis Speed	Normal	Starting Level (m)			

Storm Durations

15	30	60	120	180

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

Node SWMBMN01 Online Hydro-Brake® Control

Flap Valve	x	Objective	(HE) Minimise upstream storage
Replaces Downstream Link	x	Sump Available	✓
Invert Level (m)	14.570	Product Number	CTL-SHE-0077-2500-0914-2500
Design Depth (m)	0.914	Min Outlet Diameter (m)	0.100
Design Flow (l/s)	2.5	Min Node Diameter (mm)	1200

Node TANK Depth/Area Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Safety Factor	2.0	Invert Level (m)	14.700
Side Inf Coefficient (m/hr)	0.00000	Porosity	0.97	Time to half empty (mins)	

Depth (m)	Area (m²)	Inf Area (m²)	Depth (m)	Area (m²)	Inf Area (m²)	Depth (m)	Area (m²)	Inf Area (m²)
0.000	267.4	267.4	0.914	267.4	320.4	0.915	0.0	320.4

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Results for 1 year Critical Storm Duration. Lowest 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	SWMBRE04	1	15.350	0.000	0.0	0.0000	0.0000	OK
15 minute summer	SWMBIC08	10	15.059	0.029	2.1	0.0227	0.0000	OK
15 minute summer	SWMBIC09	9	14.908	0.178	16.9	0.1287	0.0000	OK
15 minute summer	SWMBRE03	1	15.550	0.000	0.0	0.0000	0.0000	OK
15 minute summer	SWMBIC06	11	15.217	0.037	2.2	0.0241	0.0000	OK
15 minute summer	SWMBIC07	11	14.941	0.076	12.9	0.0588	0.0000	OK
15 minute summer	SWMBRE02	11	15.566	0.016	0.4	0.0054	0.0000	OK
15 minute summer	SWMBIC05	11	15.501	0.026	1.2	0.0119	0.0000	OK
15 minute summer	SWMBRE01	11	15.714	0.014	0.3	0.0043	0.0000	OK
15 minute summer	SWMBIC01	11	15.671	0.021	0.6	0.0058	0.0000	OK
15 minute summer	SWMBIC02	11	15.620	0.020	0.6	0.0032	0.0000	OK
15 minute summer	SWMBIC03	11	15.419	0.059	5.9	0.0855	0.0000	OK
15 minute summer	SWMBRE05	11	15.783	0.028	1.5	0.0230	0.0000	OK
15 minute summer	SWMBIC04	11	15.325	0.055	8.5	0.0515	0.0000	OK
15 minute summer	SWMBIC10	10	15.395	0.030	2.3	0.0312	0.0000	OK
15 minute summer	SWMBIC12	11	15.181	0.041	3.3	0.0117	0.0000	OK
15 minute summer	SWMBRE06	1	15.550	0.000	0.0	0.0000	0.0000	OK
15 minute summer	SWMBIC11	11	15.413	0.023	1.1	0.0111	0.0000	OK
15 minute summer	SWMBIC14	11	15.028	0.073	8.4	0.0819	0.0000	OK
15 minute summer	SWMBIC13	10	15.553	0.018	1.1	0.0106	0.0000	OK
15 minute summer	SWMBRE08	1	15.600	0.000	0.0	0.0000	0.0000	OK
15 minute summer	SWMRE09	1	15.600	0.000	0.0	0.0000	0.0000	OK
15 minute summer	SWMBRE10	10	15.309	0.014	0.5	0.0023	0.0000	OK
15 minute summer	SWMBIC15	11	15.202	0.017	0.5	0.0026	0.0000	OK
180 minute summer	TANK	132	14.791	0.091	12.1	23.7182	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 summer	SWMBRE04	6.000	SWMBIC08	0.0	0.000	0.000	0.0000	
15 minute summer	SWMBIC08	6.001	SWMBIC09	2.1	0.600	0.036	0.1848	
15 minute summer	SWMBIC09	1.004	TANK	20.2	1.513	0.288	0.1646	
15 minute summer	SWMBRE03	5.000	SWMBIC06	0.0	0.000	0.000	0.0129	
15 minute summer	SWMBIC06	4.002	SWMBIC07	2.2	0.655	0.129	0.0603	
15 minute summer	SWMBIC07	1.003	SWMBIC09	12.7	0.687	0.143	0.5738	
15 minute summer	SWMBRE02	4.000	SWMBIC05	0.4	0.271	0.023	0.0117	
15 minute summer	SWMBIC05	4.001	SWMBIC06	1.1	0.432	0.067	0.0866	
15 minute summer	SWMBRE01	2.000	SWMBIC01	0.3	0.264	0.019	0.0069	
15 minute summer	SWMBIC01	2.001	SWMBIC02	0.6	0.426	0.039	0.0093	
15 minute summer	SWMBIC02	2.002	SWMBIC03	0.6	0.427	0.038	0.0159	
15 minute summer	SWMBIC03	1.001	SWMBIC04	6.0	0.644	0.081	0.1887	
15 minute summer	SWMBRE05	1.000	SWMBIC03	1.3	0.487	0.032	0.1334	
15 minute summer	SWMBIC04	1.002	SWMBIC07	8.5	0.748	0.075	0.4448	
15 minute summer	SWMBIC10	9.000	SWMBIC12	2.3	0.579	0.039	0.0725	
15 minute summer	SWMBIC12	7.002	SWMBIC14	3.3	0.415	0.074	0.2046	
15 minute summer	SWMBRE06	7.000	SWMBIC11	0.0	0.000	0.000	0.0131	
15 minute summer	SWMBIC11	7.001	SWMBIC12	1.0	0.605	0.051	0.0227	
15 minute summer	SWMBIC14	7.003	TANK	8.5	0.798	0.200	0.0716	
15 minute summer	SWMBIC13	10.001	SWMBIC14	1.1	0.881	0.030	0.0159	
15 minute summer	SWMBRE08	11.000	SWMBIC13	0.0	0.000	0.000	0.0022	
15 minute summer	SWMRE09	10.000	SWMBIC13	0.0	0.000	0.000	0.0045	
15 minute summer	SWMBRE10	12.000	SWMBIC15	0.5	0.523	0.017	0.0040	
15 minute summer	SWMBIC15	12.001	SWMBIC14	0.5	0.434	0.025	0.0158	
180 minute summer	TANK	1.005	SWMBIC17	2.5	0.502	0.025	0.0512	

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Results for 1 year Critical Storm Duration. Lowest 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	SWMBMN01	124	14.791	0.221	3.2	0.3658	0.0000	SURCHARGED
180 minute summer	SW911	124	13.641	0.022	2.5	0.0000	0.0000	OK
15 minute summer	SWMBRE07	1	15.600	0.000	0.0	0.0000	0.0000	OK
15 minute summer	SWMBIC16	1	15.485	0.000	0.0	0.0000	0.0000	OK
180 minute summer	SWMBIC17	128	14.791	0.111	2.5	0.0315	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)
180 minute summer	SWMBMN01	1.007	SW911	2.5	1.483	0.048	0.0190	37.0
15 minute summer	SWMBRE07	8.000	SWMBIC11	0.0	0.000	0.000	0.0109	
15 minute summer	SWMBIC16	3.000	SWMBIC04	0.0	0.000	0.000	0.0000	
180 minute summer	SWMBIC17	1.006	SWMBMN01	2.4	0.148	0.030	0.8582	

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Results for 30 year Critical Storm Duration. Lowest 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	SWMBRE04	1	15.350	0.000	0.0	0.0000	0.0000	OK
180 minute summer	SWMBIC08	184	15.154	0.124	3.6	0.0969	0.0000	OK
180 minute summer	SWMBIC09	184	15.154	0.424	30.2	0.3060	0.0000	SURCHARGED
15 minute summer	SWMBRE03	1	15.550	0.000	0.0	0.0000	0.0000	OK
15 minute summer	SWMBIC06	11	15.275	0.095	11.7	0.0618	0.0000	OK
180 minute summer	SWMBIC07	184	15.154	0.289	22.7	0.2232	0.0000	OK
15 minute summer	SWMBRE02	10	15.584	0.034	2.0	0.0116	0.0000	OK
15 minute summer	SWMBIC05	10	15.535	0.060	5.9	0.0273	0.0000	OK
15 minute summer	SWMBRE01	10	15.732	0.032	1.6	0.0096	0.0000	OK
15 minute summer	SWMBIC01	10	15.699	0.049	3.2	0.0137	0.0000	OK
15 minute summer	SWMBIC02	10	15.647	0.047	3.1	0.0074	0.0000	OK
15 minute summer	SWMBIC03	10	15.505	0.145	32.4	0.2101	0.0000	OK
15 minute summer	SWMBRE05	10	15.820	0.065	7.9	0.0546	0.0000	OK
15 minute summer	SWMBIC04	11	15.400	0.130	45.6	0.1218	0.0000	OK
15 minute summer	SWMBIC10	10	15.434	0.069	11.8	0.0709	0.0000	OK
15 minute summer	SWMBIC12	11	15.236	0.096	17.1	0.0270	0.0000	OK
15 minute summer	SWMBRE06	1	15.550	0.000	0.0	0.0000	0.0000	OK
15 minute summer	SWMBIC11	10	15.445	0.055	5.5	0.0260	0.0000	OK
15 minute summer	SWMBIC14	11	15.175	0.220	44.4	0.2463	0.0000	OK
15 minute summer	SWMBIC13	10	15.575	0.040	5.5	0.0233	0.0000	OK
15 minute summer	SWMBRE08	1	15.600	0.000	0.0	0.0000	0.0000	OK
15 minute summer	SWMRE09	1	15.600	0.000	0.0	0.0000	0.0000	OK
15 minute summer	SWMBRE10	10	15.326	0.031	2.4	0.0052	0.0000	OK
15 minute summer	SWMBIC15	10	15.222	0.037	2.4	0.0058	0.0000	OK
180 minute summer	TANK	184	15.154	0.454	45.8	117.7688	0.0000	SURCHARGED

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	SWMBRE04	6.000	SWMBIC08	0.0	0.000	0.000	0.0000	
180 minute summer	SWMBIC08	6.001	SWMBIC09	3.6	0.633	0.062	0.5583	
180 minute summer	SWMBIC09	1.004	TANK	29.1	0.891	0.416	0.5281	
15 minute summer	SWMBRE03	5.000	SWMBIC06	0.0	0.000	0.000	0.0448	
15 minute summer	SWMBIC06	4.002	SWMBIC07	11.5	1.007	0.679	0.2069	
180 minute summer	SWMBIC07	1.003	SWMBIC09	22.7	0.675	0.256	1.4813	
15 minute summer	SWMBRE02	4.000	SWMBIC05	2.0	0.420	0.114	0.0371	
15 minute summer	SWMBIC05	4.001	SWMBIC06	5.8	0.642	0.340	0.2922	
15 minute summer	SWMBRE01	2.000	SWMBIC01	1.6	0.419	0.098	0.0231	
15 minute summer	SWMBIC01	2.001	SWMBIC02	3.1	0.656	0.203	0.0313	
15 minute summer	SWMBIC02	2.002	SWMBIC03	3.1	0.683	0.197	0.0517	
15 minute summer	SWMBIC03	1.001	SWMBIC04	31.8	1.017	0.432	0.6355	
15 minute summer	SWMBRE05	1.000	SWMBIC03	7.8	0.786	0.184	0.4831	
15 minute summer	SWMBIC04	1.002	SWMBIC07	45.4	1.062	0.400	1.6845	
15 minute summer	SWMBIC10	9.000	SWMBIC12	11.7	0.896	0.201	0.2352	
15 minute summer	SWMBIC12	7.002	SWMBIC14	16.9	0.586	0.382	0.7039	
15 minute summer	SWMBRE06	7.000	SWMBIC11	0.0	0.000	0.000	0.0439	
15 minute summer	SWMBIC11	7.001	SWMBIC12	5.4	0.957	0.264	0.0746	
15 minute summer	SWMBIC14	7.003	TANK	43.8	1.186	1.035	0.2453	
15 minute summer	SWMBIC13	10.001	SWMBIC14	5.5	1.035	0.157	0.1398	
15 minute summer	SWMBRE08	11.000	SWMBIC13	0.0	0.000	0.000	0.0068	
15 minute summer	SWMRE09	10.000	SWMBIC13	0.0	0.000	0.000	0.0140	
15 minute summer	SWMBRE10	12.000	SWMBIC15	2.4	0.811	0.085	0.0131	
15 minute summer	SWMBIC15	12.001	SWMBIC14	2.4	0.473	0.131	0.1559	
180 minute summer	TANK	1.005	SWMBIC17	5.3	0.507	0.053	0.1723	

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Results for 30 year Critical Storm Duration. Lowest mass balance: 99.96%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
180 minute summer	SWMBMN01	184	15.153	0.583	5.1	0.9651	0.0000	SURCHARGED
60 minute summer	SW911	33	13.642	0.023	2.5	0.0000	0.0000	OK
15 minute summer	SWMBRE07	1	15.600	0.000	0.0	0.0000	0.0000	OK
15 minute summer	SWMBIC16	1	15.485	0.000	0.0	0.0000	0.0000	OK
180 minute summer	SWMBIC17	184	15.154	0.474	5.3	0.1341	0.0000	SURCHARGED

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
180 minute summer	SWMBMN01	1.007	SW911	2.5	1.491	0.049	0.0193	53.4
15 minute summer	SWMBRE07	8.000	SWMBIC11	0.0	0.000	0.000	0.0364	
15 minute summer	SWMBIC16	3.000	SWMBIC04	0.0	0.000	0.000	0.0000	
180 minute summer	SWMBIC17	1.006	SWMBMN01	2.9	0.137	0.037	1.5233	

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Results for 100 year +40% CC Critical Storm Duration. Lowest mass balance: 99.09%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
180 minute summer	SWMBRE04	184	15.568	0.218	0.5	0.0039	0.0000	SURCHARGED
180 minute summer	SWMBIC08	184	15.568	0.538	6.6	0.4213	0.0000	SURCHARGED
180 minute summer	SWMBIC09	184	15.568	0.838	52.2	0.6051	0.0000	SURCHARGED
15 minute summer	SWMBRE03	12	15.646	0.096	1.3	0.0153	0.0000	OK
15 minute summer	SWMBIC06	12	15.644	0.464	19.9	0.3008	0.0000	SURCHARGED
180 minute summer	SWMBIC07	184	15.568	0.703	41.0	0.5434	0.0000	SURCHARGED
15 minute summer	SWMBRE02	12	15.730	0.180	3.6	0.0614	0.0000	SURCHARGED
15 minute summer	SWMBIC05	12	15.724	0.249	10.8	0.1132	0.0000	SURCHARGED
15 minute summer	SWMBRE01	10	15.743	0.043	2.9	0.0130	0.0000	OK
15 minute summer	SWMBIC01	10	15.718	0.068	5.8	0.0192	0.0000	OK
15 minute summer	SWMBIC02	12	15.702	0.102	5.7	0.0161	0.0000	OK
15 minute summer	SWMBIC03	12	15.693	0.333	59.2	0.4835	0.0000	SURCHARGED
15 minute summer	SWMBRE05	10	15.844	0.089	14.4	0.0741	0.0000	OK
15 minute summer	SWMBIC04	12	15.633	0.363	80.1	0.3389	0.0000	SURCHARGED
180 minute summer	SWMBIC10	184	15.568	0.203	7.0	0.2096	0.0000	OK
180 minute summer	SWMBIC12	184	15.568	0.428	10.3	0.1211	0.0000	SURCHARGED
180 minute summer	SWMBRE06	188	15.568	0.018	0.0	0.0028	0.0000	OK
180 minute summer	SWMBIC11	188	15.568	0.178	3.3	0.0845	0.0000	SURCHARGED
180 minute summer	SWMBIC14	184	15.568	0.613	26.7	0.6866	0.0000	SURCHARGED
15 minute summer	SWMBIC13	10	15.590	0.055	10.1	0.0320	0.0000	OK
15 minute summer	SWMBRE08	1	15.600	0.000	0.0	0.0000	0.0000	OK
15 minute summer	SWMRE09	1	15.600	0.000	0.0	0.0000	0.0000	OK
180 minute summer	SWMBRE10	184	15.568	0.273	1.4	0.0464	0.0000	SURCHARGED
180 minute summer	SWMBIC15	184	15.568	0.383	1.4	0.0609	0.0000	SURCHARGED
180 minute summer	TANK	184	15.568	0.868	83.9	225.3152	0.0000	SURCHARGED

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
180 minute summer	SWMBRE04	6.000	SWMBIC08	-0.5	-0.045	-0.033	0.6472	
180 minute summer	SWMBIC08	6.001	SWMBIC09	5.4	0.596	0.094	0.7146	
180 minute summer	SWMBIC09	1.004	TANK	51.8	1.059	0.741	0.5281	
15 minute summer	SWMBRE03	5.000	SWMBIC06	1.4	0.111	0.037	0.1122	
15 minute summer	SWMBIC06	4.002	SWMBIC07	16.9	0.997	0.999	0.3187	
180 minute summer	SWMBIC07	1.003	SWMBIC09	39.7	0.614	0.448	1.4902	
15 minute summer	SWMBRE02	4.000	SWMBIC05	3.6	0.480	0.205	0.1362	
15 minute summer	SWMBIC05	4.001	SWMBIC06	9.7	0.703	0.566	0.5608	
15 minute summer	SWMBRE01	2.000	SWMBIC01	2.9	0.484	0.178	0.0361	
15 minute summer	SWMBIC01	2.001	SWMBIC02	5.7	0.773	0.368	0.0647	
15 minute summer	SWMBIC02	2.002	SWMBIC03	5.6	0.769	0.357	0.1722	
15 minute summer	SWMBIC03	1.001	SWMBIC04	55.0	1.112	0.746	1.4293	
15 minute summer	SWMBRE05	1.000	SWMBIC03	14.1	0.743	0.334	1.3036	
15 minute summer	SWMBIC04	1.002	SWMBIC07	70.4	1.114	0.621	2.7377	
180 minute summer	SWMBIC10	9.000	SWMBIC12	7.0	0.777	0.120	0.6940	
180 minute summer	SWMBIC12	7.002	SWMBIC14	10.3	0.519	0.232	1.0078	
180 minute summer	SWMBRE06	7.000	SWMBIC11	0.0	-0.003	-0.001	0.1418	
180 minute summer	SWMBIC11	7.001	SWMBIC12	3.3	0.838	0.161	0.2324	
180 minute summer	SWMBIC14	7.003	TANK	25.5	0.980	0.603	0.2685	
15 minute summer	SWMBIC13	10.001	SWMBIC14	10.0	1.049	0.288	0.1551	
15 minute summer	SWMBRE08	11.000	SWMBIC13	0.0	0.000	0.000	0.0105	
15 minute summer	SWMRE09	10.000	SWMBIC13	0.0	0.000	0.000	0.0216	
180 minute summer	SWMBRE10	12.000	SWMBIC15	1.4	0.701	0.050	0.0780	
180 minute summer	SWMBIC15	12.001	SWMBIC14	1.4	0.473	0.078	0.2649	
180 minute summer	TANK	1.005	SWMBIC17	-6.5	0.511	-0.065	0.1723	

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Results for 100 year +40% CC Critical Storm Duration. Lowest mass balance: 99.09%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
180 minute summer	SWMBMN01	188	15.567	0.997	9.4	1.6496	0.0000	SURCHARGED
180 minute summer	SW911	192	13.642	0.023	2.6	0.0000	0.0000	OK
15 minute summer	SWMBRE07	1	15.600	0.000	0.0	0.0000	0.0000	OK
15 minute summer	SWMBIC16	12	15.633	0.148	1.5	0.0235	0.0000	OK
180 minute summer	SWMBIC17	188	15.567	0.887	6.8	0.2511	0.0000	SURCHARGED

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
180 minute summer	SWMBMN01	1.007	SW911	2.6	1.505	0.050	0.0197	59.9
15 minute summer	SWMBRE07	8.000	SWMBIC11	0.0	0.000	0.000	0.0873	
15 minute summer	SWMBIC16	3.000	SWMBIC04	-1.5	-0.234	-0.086	0.1146	
180 minute summer	SWMBIC17	1.006	SWMBMN01	-6.8	0.126	-0.086	1.5233	

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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	SWMBRE04	1	15.350	0.000	0.0	0.0000	0.0000	OK
15 minute summer	SWMBIC08	10	15.059	0.029	2.1	0.0227	0.0000	OK
15 minute summer	SWMBIC09	9	14.908	0.178	16.9	0.1287	0.0000	OK
15 minute summer	SWMBRE03	1	15.550	0.000	0.0	0.0000	0.0000	OK
15 minute summer	SWMBIC06	11	15.217	0.037	2.2	0.0241	0.0000	OK
15 minute summer	SWMBIC07	11	14.941	0.076	12.9	0.0588	0.0000	OK
15 minute summer	SWMBRE02	11	15.566	0.016	0.4	0.0054	0.0000	OK
15 minute summer	SWMBIC05	11	15.501	0.026	1.2	0.0119	0.0000	OK
15 minute summer	SWMBRE01	11	15.714	0.014	0.3	0.0043	0.0000	OK
15 minute summer	SWMBIC01	11	15.671	0.021	0.6	0.0058	0.0000	OK
15 minute summer	SWMBIC02	11	15.620	0.020	0.6	0.0032	0.0000	OK
15 minute summer	SWMBIC03	11	15.419	0.059	5.9	0.0855	0.0000	OK
15 minute summer	SWMBRE05	11	15.783	0.028	1.5	0.0230	0.0000	OK
15 minute summer	SWMBIC04	11	15.325	0.055	8.5	0.0515	0.0000	OK
15 minute summer	SWMBIC10	10	15.395	0.030	2.3	0.0312	0.0000	OK
15 minute summer	SWMBIC12	11	15.181	0.041	3.3	0.0117	0.0000	OK
15 minute summer	SWMBRE06	1	15.550	0.000	0.0	0.0000	0.0000	OK
15 minute summer	SWMBIC11	11	15.413	0.023	1.1	0.0111	0.0000	OK
15 minute summer	SWMBIC14	11	15.028	0.073	8.4	0.0819	0.0000	OK
15 minute summer	SWMBIC13	10	15.553	0.018	1.1	0.0106	0.0000	OK
15 minute summer	SWMBRE08	1	15.600	0.000	0.0	0.0000	0.0000	OK
15 minute summer	SWMRE09	1	15.600	0.000	0.0	0.0000	0.0000	OK
15 minute summer	SWMBRE10	10	15.309	0.014	0.5	0.0023	0.0000	OK
15 minute summer	SWMBIC15	11	15.202	0.017	0.5	0.0026	0.0000	OK
15 minute summer	TANK	20	14.738	0.038	28.4	9.8451	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	SWMBRE04	6.000	SWMBIC08	0.0	0.000	0.000	0.0000	
15 minute summer	SWMBIC08	6.001	SWMBIC09	2.1	0.600	0.036	0.1848	
15 minute summer	SWMBIC09	1.004	TANK	20.2	1.513	0.288	0.1646	
15 minute summer	SWMBRE03	5.000	SWMBIC06	0.0	0.000	0.000	0.0129	
15 minute summer	SWMBIC06	4.002	SWMBIC07	2.2	0.655	0.129	0.0603	
15 minute summer	SWMBIC07	1.003	SWMBIC09	12.7	0.687	0.143	0.5738	
15 minute summer	SWMBRE02	4.000	SWMBIC05	0.4	0.271	0.023	0.0117	
15 minute summer	SWMBIC05	4.001	SWMBIC06	1.1	0.432	0.067	0.0866	
15 minute summer	SWMBRE01	2.000	SWMBIC01	0.3	0.264	0.019	0.0069	
15 minute summer	SWMBIC01	2.001	SWMBIC02	0.6	0.426	0.039	0.0093	
15 minute summer	SWMBIC02	2.002	SWMBIC03	0.6	0.427	0.038	0.0159	
15 minute summer	SWMBIC03	1.001	SWMBIC04	6.0	0.644	0.081	0.1887	
15 minute summer	SWMBRE05	1.000	SWMBIC03	1.3	0.487	0.032	0.1334	
15 minute summer	SWMBIC04	1.002	SWMBIC07	8.5	0.748	0.075	0.4448	
15 minute summer	SWMBIC10	9.000	SWMBIC12	2.3	0.579	0.039	0.0725	
15 minute summer	SWMBIC12	7.002	SWMBIC14	3.3	0.415	0.074	0.2046	
15 minute summer	SWMBRE06	7.000	SWMBIC11	0.0	0.000	0.000	0.0131	
15 minute summer	SWMBIC11	7.001	SWMBIC12	1.0	0.605	0.051	0.0227	
15 minute summer	SWMBIC14	7.003	TANK	8.5	0.798	0.200	0.0716	
15 minute summer	SWMBIC13	10.001	SWMBIC14	1.1	0.881	0.030	0.0159	
15 minute summer	SWMBRE08	11.000	SWMBIC13	0.0	0.000	0.000	0.0022	
15 minute summer	SWMRE09	10.000	SWMBIC13	0.0	0.000	0.000	0.0045	
15 minute summer	SWMBRE10	12.000	SWMBIC15	0.5	0.523	0.017	0.0040	
15 minute summer	SWMBIC15	12.001	SWMBIC14	0.5	0.434	0.025	0.0158	
15 minute summer	TANK	1.005	SWMBIC17	2.5	0.475	0.025	0.0172	

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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	SWMBMN01	21	14.735	0.165	3.1	0.2736	0.0000	SURCHARGED
15 minute summer	SW911	22	13.641	0.022	2.3	0.0000	0.0000	OK
15 minute summer	SWMBRE07	1	15.600	0.000	0.0	0.0000	0.0000	OK
15 minute summer	SWMBIC16	1	15.485	0.000	0.0	0.0000	0.0000	OK
15 minute summer	SWMBIC17	22	14.736	0.056	2.5	0.0157	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	SWMBMN01	1.007	SW911	2.3	1.461	0.045	0.0184	10.6
15 minute summer	SWMBRE07	8.000	SWMBIC11	0.0	0.000	0.000	0.0109	
15 minute summer	SWMBIC16	3.000	SWMBIC04	0.0	0.000	0.000	0.0000	
15 minute summer	SWMBIC17	1.006	SWMBMN01	2.4	0.148	0.030	0.5275	

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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	SWMBRE04	1	15.350	0.000	0.0	0.0000	0.0000	OK
30 minute summer	SWMBIC08	18	15.057	0.027	1.8	0.0215	0.0000	OK
30 minute summer	SWMBIC09	18	14.831	0.101	14.8	0.0732	0.0000	OK
30 minute summer	SWMBRE03	1	15.550	0.000	0.0	0.0000	0.0000	OK
30 minute summer	SWMBIC06	19	15.215	0.035	2.0	0.0224	0.0000	OK
30 minute summer	SWMBIC07	19	14.936	0.071	11.3	0.0553	0.0000	OK
30 minute summer	SWMBRE02	19	15.564	0.014	0.3	0.0047	0.0000	OK
30 minute summer	SWMBIC05	18	15.499	0.024	1.0	0.0111	0.0000	OK
30 minute summer	SWMBRE01	18	15.714	0.014	0.3	0.0043	0.0000	OK
30 minute summer	SWMBIC01	18	15.671	0.021	0.6	0.0058	0.0000	OK
30 minute summer	SWMBIC02	18	15.620	0.020	0.6	0.0031	0.0000	OK
30 minute summer	SWMBIC03	18	15.416	0.056	5.3	0.0806	0.0000	OK
30 minute summer	SWMBRE05	19	15.781	0.026	1.3	0.0220	0.0000	OK
30 minute summer	SWMBIC04	19	15.322	0.052	7.6	0.0483	0.0000	OK
30 minute summer	SWMBIC10	18	15.393	0.028	2.0	0.0294	0.0000	OK
30 minute summer	SWMBIC12	18	15.178	0.038	2.9	0.0109	0.0000	OK
30 minute summer	SWMBRE06	1	15.550	0.000	0.0	0.0000	0.0000	OK
30 minute summer	SWMBIC11	18	15.412	0.022	0.9	0.0103	0.0000	OK
30 minute summer	SWMBIC14	18	15.023	0.068	7.4	0.0760	0.0000	OK
30 minute summer	SWMBIC13	18	15.552	0.017	0.9	0.0098	0.0000	OK
30 minute summer	SWMBRE08	1	15.600	0.000	0.0	0.0000	0.0000	OK
30 minute summer	SWMRE09	1	15.600	0.000	0.0	0.0000	0.0000	OK
30 minute summer	SWMBRE10	19	15.308	0.013	0.4	0.0021	0.0000	OK
30 minute summer	SWMBIC15	19	15.201	0.016	0.4	0.0025	0.0000	OK
30 minute summer	TANK	33	14.746	0.046	22.4	12.0365	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	SWMBRE04	6.000	SWMBIC08	0.0	0.000	0.000	0.0000	
30 minute summer	SWMBIC08	6.001	SWMBIC09	1.8	0.660	0.031	0.0489	
30 minute summer	SWMBIC09	1.004	TANK	15.1	1.429	0.216	0.0867	
30 minute summer	SWMBRE03	5.000	SWMBIC06	0.0	0.000	0.000	0.0116	
30 minute summer	SWMBIC06	4.002	SWMBIC07	1.9	0.633	0.113	0.0547	
30 minute summer	SWMBIC07	1.003	SWMBIC09	11.2	0.691	0.127	0.3543	
30 minute summer	SWMBRE02	4.000	SWMBIC05	0.3	0.237	0.017	0.0103	
30 minute summer	SWMBIC05	4.001	SWMBIC06	1.0	0.406	0.058	0.0781	
30 minute summer	SWMBRE01	2.000	SWMBIC01	0.3	0.263	0.018	0.0069	
30 minute summer	SWMBIC01	2.001	SWMBIC02	0.6	0.424	0.038	0.0091	
30 minute summer	SWMBIC02	2.002	SWMBIC03	0.6	0.419	0.035	0.0152	
30 minute summer	SWMBIC03	1.001	SWMBIC04	5.3	0.621	0.072	0.1724	
30 minute summer	SWMBRE05	1.000	SWMBIC03	1.2	0.474	0.029	0.1247	
30 minute summer	SWMBIC04	1.002	SWMBIC07	7.4	0.723	0.066	0.4065	
30 minute summer	SWMBIC10	9.000	SWMBIC12	2.0	0.552	0.034	0.0661	
30 minute summer	SWMBIC12	7.002	SWMBIC14	2.8	0.398	0.064	0.1843	
30 minute summer	SWMBRE06	7.000	SWMBIC11	0.0	0.000	0.000	0.0118	
30 minute summer	SWMBIC11	7.001	SWMBIC12	0.9	0.576	0.043	0.0203	
30 minute summer	SWMBIC14	7.003	TANK	7.3	0.767	0.173	0.0645	
30 minute summer	SWMBIC13	10.001	SWMBIC14	0.9	0.839	0.026	0.0142	
30 minute summer	SWMBRE08	11.000	SWMBIC13	0.0	0.000	0.000	0.0019	
30 minute summer	SWMRE09	10.000	SWMBIC13	0.0	0.000	0.000	0.0040	
30 minute summer	SWMBRE10	12.000	SWMBIC15	0.4	0.501	0.014	0.0037	
30 minute summer	SWMBIC15	12.001	SWMBIC14	0.4	0.416	0.022	0.0145	
30 minute summer	TANK	1.005	SWMBIC17	2.8	0.474	0.028	0.0227	

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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	SWMBMN01	31	14.748	0.178	3.5	0.2944	0.0000	SURCHARGED
30 minute summer	SW911	34	13.641	0.022	2.4	0.0000	0.0000	OK
30 minute summer	SWMBRE07	1	15.600	0.000	0.0	0.0000	0.0000	OK
30 minute summer	SWMBIC16	1	15.485	0.000	0.0	0.0000	0.0000	OK
30 minute summer	SWMBIC17	31	14.747	0.067	2.8	0.0189	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	SWMBMN01	1.007	SW911	2.4	1.468	0.046	0.0186	13.9
30 minute summer	SWMBRE07	8.000	SWMBIC11	0.0	0.000	0.000	0.0097	
30 minute summer	SWMBIC16	3.000	SWMBIC04	0.0	0.000	0.000	0.0000	
30 minute summer	SWMBIC17	1.006	SWMBMN01	2.8	0.148	0.035	0.5974	

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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	SWMBRE04	1	15.350	0.000	0.0	0.0000	0.0000	OK
60 minute summer	SWMBIC08	34	15.054	0.024	1.3	0.0184	0.0000	OK
60 minute summer	SWMBIC09	33	14.812	0.082	11.0	0.0590	0.0000	OK
60 minute summer	SWMBRE03	1	15.550	0.000	0.0	0.0000	0.0000	OK
60 minute summer	SWMBIC06	34	15.209	0.029	1.4	0.0189	0.0000	OK
60 minute summer	SWMBIC07	34	14.926	0.061	8.3	0.0474	0.0000	OK
60 minute summer	SWMBRE02	36	15.561	0.011	0.2	0.0039	0.0000	OK
60 minute summer	SWMBIC05	33	15.496	0.021	0.7	0.0094	0.0000	OK
60 minute summer	SWMBRE01	35	15.712	0.012	0.2	0.0036	0.0000	OK
60 minute summer	SWMBIC01	32	15.667	0.017	0.4	0.0048	0.0000	OK
60 minute summer	SWMBIC02	35	15.617	0.017	0.4	0.0027	0.0000	OK
60 minute summer	SWMBIC03	33	15.407	0.047	3.9	0.0687	0.0000	OK
60 minute summer	SWMBRE05	34	15.778	0.023	0.9	0.0188	0.0000	OK
60 minute summer	SWMBIC04	33	15.315	0.045	5.5	0.0416	0.0000	OK
60 minute summer	SWMBIC10	33	15.389	0.024	1.4	0.0248	0.0000	OK
60 minute summer	SWMBIC12	33	15.173	0.033	2.1	0.0093	0.0000	OK
60 minute summer	SWMBRE06	1	15.550	0.000	0.0	0.0000	0.0000	OK
60 minute summer	SWMBIC11	33	15.409	0.019	0.7	0.0091	0.0000	OK
60 minute summer	SWMBIC14	33	15.012	0.057	5.4	0.0643	0.0000	OK
60 minute summer	SWMBIC13	33	15.550	0.015	0.7	0.0087	0.0000	OK
60 minute summer	SWMBRE08	1	15.600	0.000	0.0	0.0000	0.0000	OK
60 minute summer	SWMRE09	1	15.600	0.000	0.0	0.0000	0.0000	OK
60 minute summer	SWMBRE10	34	15.306	0.011	0.3	0.0019	0.0000	OK
60 minute summer	SWMBIC15	34	15.199	0.014	0.3	0.0022	0.0000	OK
60 minute summer	TANK	56	14.751	0.051	16.4	13.2746	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	SWMBRE04	6.000	SWMBIC08	0.0	0.000	0.000	0.0000	
60 minute summer	SWMBIC08	6.001	SWMBIC09	1.3	0.600	0.022	0.0390	
60 minute summer	SWMBIC09	1.004	TANK	11.1	1.249	0.158	0.0719	
60 minute summer	SWMBRE03	5.000	SWMBIC06	0.0	0.000	0.000	0.0091	
60 minute summer	SWMBIC06	4.002	SWMBIC07	1.4	0.574	0.081	0.0430	
60 minute summer	SWMBIC07	1.003	SWMBIC09	8.3	0.646	0.093	0.2724	
60 minute summer	SWMBRE02	4.000	SWMBIC05	0.2	0.224	0.011	0.0079	
60 minute summer	SWMBIC05	4.001	SWMBIC06	0.7	0.364	0.040	0.0609	
60 minute summer	SWMBRE01	2.000	SWMBIC01	0.2	0.234	0.012	0.0052	
60 minute summer	SWMBIC01	2.001	SWMBIC02	0.4	0.381	0.026	0.0070	
60 minute summer	SWMBIC02	2.002	SWMBIC03	0.4	0.379	0.025	0.0120	
60 minute summer	SWMBIC03	1.001	SWMBIC04	3.8	0.566	0.052	0.1381	
60 minute summer	SWMBRE05	1.000	SWMBIC03	0.9	0.429	0.021	0.0990	
60 minute summer	SWMBIC04	1.002	SWMBIC07	5.5	0.661	0.048	0.3272	
60 minute summer	SWMBIC10	9.000	SWMBIC12	1.4	0.488	0.024	0.0522	
60 minute summer	SWMBIC12	7.002	SWMBIC14	2.1	0.365	0.046	0.1462	
60 minute summer	SWMBRE06	7.000	SWMBIC11	0.0	0.000	0.000	0.0098	
60 minute summer	SWMBIC11	7.001	SWMBIC12	0.7	0.534	0.034	0.0170	
60 minute summer	SWMBIC14	7.003	TANK	5.4	0.706	0.127	0.0514	
60 minute summer	SWMBIC13	10.001	SWMBIC14	0.7	0.778	0.020	0.0119	
60 minute summer	SWMBRE08	11.000	SWMBIC13	0.0	0.000	0.000	0.0016	
60 minute summer	SWMRE09	10.000	SWMBIC13	0.0	0.000	0.000	0.0033	
60 minute summer	SWMBRE10	12.000	SWMBIC15	0.3	0.498	0.011	0.0030	
60 minute summer	SWMBIC15	12.001	SWMBIC14	0.3	0.382	0.017	0.0118	
60 minute summer	TANK	1.005	SWMBIC17	2.9	0.494	0.029	0.0257	

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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	SWMBMN01	50	14.753	0.183	3.6	0.3028	0.0000	SURCHARGED
60 minute summer	SW911	50	13.641	0.022	2.4	0.0000	0.0000	OK
60 minute summer	SWMBRE07	1	15.600	0.000	0.0	0.0000	0.0000	OK
60 minute summer	SWMBIC16	1	15.485	0.000	0.0	0.0000	0.0000	OK
60 minute summer	SWMBIC17	55	14.752	0.072	2.9	0.0205	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	SWMBMN01	1.007	SW911	2.4	1.470	0.046	0.0186	17.3
60 minute summer	SWMBRE07	8.000	SWMBIC11	0.0	0.000	0.000	0.0081	
60 minute summer	SWMBIC16	3.000	SWMBIC04	0.0	0.000	0.000	0.0000	
60 minute summer	SWMBIC17	1.006	SWMBMN01	2.6	0.148	0.033	0.6257	

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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	SWMBRE04	2	15.350	0.000	0.0	0.0000	0.0000	OK
120 minute summer	SWMBIC08	64	15.053	0.023	1.2	0.0177	0.0000	OK
120 minute summer	SWMBIC09	64	14.806	0.076	10.0	0.0548	0.0000	OK
120 minute summer	SWMBRE03	2	15.550	0.000	0.0	0.0000	0.0000	OK
120 minute summer	SWMBIC06	66	15.207	0.027	1.2	0.0178	0.0000	OK
120 minute summer	SWMBIC07	64	14.923	0.058	7.5	0.0451	0.0000	OK
120 minute summer	SWMBRE02	64	15.561	0.011	0.2	0.0039	0.0000	OK
120 minute summer	SWMBIC05	66	15.494	0.019	0.6	0.0088	0.0000	OK
120 minute summer	SWMBRE01	66	15.712	0.012	0.2	0.0036	0.0000	OK
120 minute summer	SWMBIC01	62	15.667	0.017	0.4	0.0048	0.0000	OK
120 minute summer	SWMBIC02	66	15.617	0.017	0.4	0.0027	0.0000	OK
120 minute summer	SWMBIC03	64	15.405	0.045	3.5	0.0655	0.0000	OK
120 minute summer	SWMBRE05	66	15.777	0.022	0.8	0.0179	0.0000	OK
120 minute summer	SWMBIC04	64	15.313	0.043	5.0	0.0398	0.0000	OK
120 minute summer	SWMBIC10	64	15.388	0.023	1.3	0.0240	0.0000	OK
120 minute summer	SWMBIC12	64	15.172	0.032	1.9	0.0089	0.0000	OK
120 minute summer	SWMBRE06	2	15.550	0.000	0.0	0.0000	0.0000	OK
120 minute summer	SWMBIC11	64	15.408	0.018	0.6	0.0085	0.0000	OK
120 minute summer	SWMBIC14	64	15.010	0.055	4.9	0.0611	0.0000	OK
120 minute summer	SWMBIC13	64	15.549	0.014	0.6	0.0081	0.0000	OK
120 minute summer	SWMBRE08	2	15.600	0.000	0.0	0.0000	0.0000	OK
120 minute summer	SWMRE09	2	15.600	0.000	0.0	0.0000	0.0000	OK
120 minute summer	SWMBRE10	64	15.306	0.011	0.3	0.0019	0.0000	OK
120 minute summer	SWMBIC15	64	15.199	0.014	0.3	0.0022	0.0000	OK
120 minute summer	TANK	94	14.780	0.080	14.8	20.7370	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	SWMBRE04	6.000	SWMBIC08	0.0	0.000	0.000	0.0000	
120 minute summer	SWMBIC08	6.001	SWMBIC09	1.2	0.586	0.021	0.0368	
120 minute summer	SWMBIC09	1.004	TANK	9.9	1.008	0.142	0.0877	
120 minute summer	SWMBRE03	5.000	SWMBIC06	0.0	0.000	0.000	0.0083	
120 minute summer	SWMBIC06	4.002	SWMBIC07	1.2	0.553	0.071	0.0393	
120 minute summer	SWMBIC07	1.003	SWMBIC09	7.5	0.635	0.084	0.2496	
120 minute summer	SWMBRE02	4.000	SWMBIC05	0.2	0.225	0.011	0.0074	
120 minute summer	SWMBIC05	4.001	SWMBIC06	0.6	0.347	0.035	0.0559	
120 minute summer	SWMBRE01	2.000	SWMBIC01	0.2	0.234	0.012	0.0052	
120 minute summer	SWMBIC01	2.001	SWMBIC02	0.4	0.373	0.026	0.0070	
120 minute summer	SWMBIC02	2.002	SWMBIC03	0.4	0.379	0.025	0.0120	
120 minute summer	SWMBIC03	1.001	SWMBIC04	3.5	0.550	0.047	0.1290	
120 minute summer	SWMBRE05	1.000	SWMBIC03	0.8	0.417	0.019	0.0924	
120 minute summer	SWMBIC04	1.002	SWMBIC07	5.0	0.640	0.044	0.3051	
120 minute summer	SWMBIC10	9.000	SWMBIC12	1.3	0.479	0.022	0.0494	
120 minute summer	SWMBIC12	7.002	SWMBIC14	1.9	0.358	0.043	0.1365	
120 minute summer	SWMBRE06	7.000	SWMBIC11	0.0	0.000	0.000	0.0089	
120 minute summer	SWMBIC11	7.001	SWMBIC12	0.6	0.512	0.029	0.0154	
120 minute summer	SWMBIC14	7.003	TANK	4.9	0.688	0.115	0.0479	
120 minute summer	SWMBIC13	10.001	SWMBIC14	0.6	0.744	0.017	0.0107	
120 minute summer	SWMBRE08	11.000	SWMBIC13	0.0	0.000	0.000	0.0014	
120 minute summer	SWMRE09	10.000	SWMBIC13	0.0	0.000	0.000	0.0030	
120 minute summer	SWMBRE10	12.000	SWMBIC15	0.3	0.450	0.011	0.0030	
120 minute summer	SWMBIC15	12.001	SWMBIC14	0.3	0.382	0.017	0.0118	
120 minute summer	TANK	1.005	SWMBIC17	2.4	0.488	0.024	0.0435	

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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	SWMBMN01	90	14.781	0.211	3.7	0.3482	0.0000	SURCHARGED
120 minute summer	SW911	90	13.641	0.022	2.4	0.0000	0.0000	OK
120 minute summer	SWMBRE07	2	15.600	0.000	0.0	0.0000	0.0000	OK
120 minute summer	SWMBIC16	2	15.485	0.000	0.0	0.0000	0.0000	OK
120 minute summer	SWMBIC17	92	14.780	0.100	2.4	0.0283	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	SWMBMN01	1.007	SW911	2.4	1.480	0.047	0.0189	29.7
120 minute summer	SWMBRE07	8.000	SWMBIC11	0.0	0.000	0.000	0.0074	
120 minute summer	SWMBIC16	3.000	SWMBIC04	0.0	0.000	0.000	0.0000	
120 minute summer	SWMBIC17	1.006	SWMBMN01	2.4	0.148	0.030	0.7932	

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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	SWMBRE04	4	15.350	0.000	0.0	0.0000	0.0000	OK
180 minute summer	SWMBIC08	96	15.051	0.021	1.0	0.0162	0.0000	OK
180 minute summer	SWMBIC09	96	14.800	0.070	8.2	0.0508	0.0000	OK
180 minute summer	SWMBRE03	4	15.550	0.000	0.0	0.0000	0.0000	OK
180 minute summer	SWMBIC06	96	15.205	0.025	1.0	0.0162	0.0000	OK
180 minute summer	SWMBIC07	96	14.918	0.053	6.1	0.0408	0.0000	OK
180 minute summer	SWMBRE02	96	15.561	0.011	0.2	0.0039	0.0000	OK
180 minute summer	SWMBIC05	96	15.493	0.018	0.5	0.0080	0.0000	OK
180 minute summer	SWMBRE01	88	15.709	0.009	0.1	0.0026	0.0000	OK
180 minute summer	SWMBIC01	80	15.662	0.012	0.2	0.0034	0.0000	OK
180 minute summer	SWMBIC02	88	15.612	0.012	0.2	0.0019	0.0000	OK
180 minute summer	SWMBIC03	96	15.400	0.040	2.8	0.0588	0.0000	OK
180 minute summer	SWMBRE05	96	15.775	0.020	0.7	0.0168	0.0000	OK
180 minute summer	SWMBIC04	96	15.308	0.038	4.0	0.0358	0.0000	OK
180 minute summer	SWMBIC10	96	15.386	0.021	1.0	0.0212	0.0000	OK
180 minute summer	SWMBIC12	96	15.168	0.028	1.5	0.0080	0.0000	OK
180 minute summer	SWMBRE06	4	15.550	0.000	0.0	0.0000	0.0000	OK
180 minute summer	SWMBIC11	96	15.406	0.016	0.5	0.0078	0.0000	OK
180 minute summer	SWMBIC14	96	15.003	0.048	3.9	0.0543	0.0000	OK
180 minute summer	SWMBIC13	96	15.548	0.013	0.5	0.0074	0.0000	OK
180 minute summer	SWMBRE08	4	15.600	0.000	0.0	0.0000	0.0000	OK
180 minute summer	SWMRE09	4	15.600	0.000	0.0	0.0000	0.0000	OK
180 minute summer	SWMBRE10	96	15.304	0.009	0.2	0.0016	0.0000	OK
180 minute summer	SWMBIC15	100	15.196	0.011	0.2	0.0018	0.0000	OK
180 minute summer	TANK	132	14.791	0.091	12.1	23.7182	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	SWMBRE04	6.000	SWMBIC08	0.0	0.000	0.000	0.0000	
180 minute summer	SWMBIC08	6.001	SWMBIC09	1.0	0.555	0.017	0.0324	
180 minute summer	SWMBIC09	1.004	TANK	8.2	0.825	0.117	0.1070	
180 minute summer	SWMBRE03	5.000	SWMBIC06	0.0	0.000	0.000	0.0073	
180 minute summer	SWMBIC06	4.002	SWMBIC07	1.0	0.524	0.059	0.0345	
180 minute summer	SWMBIC07	1.003	SWMBIC09	6.1	0.585	0.069	0.2211	
180 minute summer	SWMBRE02	4.000	SWMBIC05	0.2	0.231	0.011	0.0068	
180 minute summer	SWMBIC05	4.001	SWMBIC06	0.5	0.327	0.029	0.0491	
180 minute summer	SWMBRE01	2.000	SWMBIC01	0.1	0.192	0.006	0.0032	
180 minute summer	SWMBIC01	2.001	SWMBIC02	0.2	0.347	0.013	0.0043	
180 minute summer	SWMBIC02	2.002	SWMBIC03	0.2	0.308	0.013	0.0074	
180 minute summer	SWMBIC03	1.001	SWMBIC04	2.8	0.515	0.038	0.1103	
180 minute summer	SWMBRE05	1.000	SWMBIC03	0.7	0.401	0.017	0.0839	
180 minute summer	SWMBIC04	1.002	SWMBIC07	4.0	0.594	0.035	0.2632	
180 minute summer	SWMBIC10	9.000	SWMBIC12	1.0	0.438	0.017	0.0417	
180 minute summer	SWMBIC12	7.002	SWMBIC14	1.5	0.335	0.034	0.1157	
180 minute summer	SWMBRE06	7.000	SWMBIC11	0.0	0.000	0.000	0.0078	
180 minute summer	SWMBIC11	7.001	SWMBIC12	0.5	0.486	0.024	0.0136	
180 minute summer	SWMBIC14	7.003	TANK	3.9	0.647	0.092	0.0407	
180 minute summer	SWMBIC13	10.001	SWMBIC14	0.5	0.705	0.014	0.0094	
180 minute summer	SWMBRE08	11.000	SWMBIC13	0.0	0.000	0.000	0.0013	
180 minute summer	SWMRE09	10.000	SWMBIC13	0.0	0.000	0.000	0.0026	
180 minute summer	SWMBRE10	12.000	SWMBIC15	0.2	0.413	0.007	0.0023	
180 minute summer	SWMBIC15	12.001	SWMBIC14	0.2	0.337	0.011	0.0089	
180 minute summer	TANK	1.005	SWMBIC17	2.5	0.502	0.025	0.0512	

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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	SWMBMN01	124	14.791	0.221	3.2	0.3658	0.0000	SURCHARGED
180 minute summer	SW911	124	13.641	0.022	2.5	0.0000	0.0000	OK
180 minute summer	SWMBRE07	4	15.600	0.000	0.0	0.0000	0.0000	OK
180 minute summer	SWMBIC16	4	15.485	0.000	0.0	0.0000	0.0000	OK
180 minute summer	SWMBIC17	128	14.791	0.111	2.5	0.0315	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	SWMBMN01	1.007	SW911	2.5	1.483	0.048	0.0190	37.0
180 minute summer	SWMBRE07	8.000	SWMBIC11	0.0	0.000	0.000	0.0065	
180 minute summer	SWMBIC16	3.000	SWMBIC04	0.0	0.000	0.000	0.0000	
180 minute summer	SWMBIC17	1.006	SWMBMN01	2.4	0.148	0.030	0.8582	

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Results for 30 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	SWMBRE04	1	15.350	0.000	0.0	0.0000	0.0000	OK
15 minute summer	SWMBIC08	10	15.096	0.066	11.0	0.0514	0.0000	OK
15 minute summer	SWMBIC09	11	14.978	0.248	91.1	0.1790	0.0000	OK
15 minute summer	SWMBRE03	1	15.550	0.000	0.0	0.0000	0.0000	OK
15 minute summer	SWMBIC06	11	15.275	0.095	11.7	0.0618	0.0000	OK
15 minute summer	SWMBIC07	11	15.092	0.227	68.5	0.1757	0.0000	OK
15 minute summer	SWMBRE02	10	15.584	0.034	2.0	0.0116	0.0000	OK
15 minute summer	SWMBIC05	10	15.535	0.060	5.9	0.0273	0.0000	OK
15 minute summer	SWMBRE01	10	15.732	0.032	1.6	0.0096	0.0000	OK
15 minute summer	SWMBIC01	10	15.699	0.049	3.2	0.0137	0.0000	OK
15 minute summer	SWMBIC02	10	15.647	0.047	3.1	0.0074	0.0000	OK
15 minute summer	SWMBIC03	10	15.505	0.145	32.4	0.2101	0.0000	OK
15 minute summer	SWMBRE05	10	15.820	0.065	7.9	0.0546	0.0000	OK
15 minute summer	SWMBIC04	11	15.400	0.130	45.6	0.1218	0.0000	OK
15 minute summer	SWMBIC10	10	15.434	0.069	11.8	0.0709	0.0000	OK
15 minute summer	SWMBIC12	11	15.236	0.096	17.1	0.0270	0.0000	OK
15 minute summer	SWMBRE06	1	15.550	0.000	0.0	0.0000	0.0000	OK
15 minute summer	SWMBIC11	10	15.445	0.055	5.5	0.0260	0.0000	OK
15 minute summer	SWMBIC14	11	15.175	0.220	44.4	0.2463	0.0000	OK
15 minute summer	SWMBIC13	10	15.575	0.040	5.5	0.0233	0.0000	OK
15 minute summer	SWMBRE08	1	15.600	0.000	0.0	0.0000	0.0000	OK
15 minute summer	SWMRE09	1	15.600	0.000	0.0	0.0000	0.0000	OK
15 minute summer	SWMBRE10	10	15.326	0.031	2.4	0.0052	0.0000	OK
15 minute summer	SWMBIC15	10	15.222	0.037	2.4	0.0058	0.0000	OK
15 minute summer	TANK	22	14.930	0.230	145.1	59.7097	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	SWMBRE04	6.000	SWMBIC08	0.0	0.000	0.000	0.0000	
15 minute summer	SWMBIC08	6.001	SWMBIC09	10.9	0.526	0.188	0.3787	
15 minute summer	SWMBIC09	1.004	TANK	91.3	2.185	1.306	0.4045	
15 minute summer	SWMBRE03	5.000	SWMBIC06	0.0	0.000	0.000	0.0448	
15 minute summer	SWMBIC06	4.002	SWMBIC07	11.5	1.007	0.679	0.2069	
15 minute summer	SWMBIC07	1.003	SWMBIC09	68.9	1.152	0.778	1.2650	
15 minute summer	SWMBRE02	4.000	SWMBIC05	2.0	0.420	0.114	0.0371	
15 minute summer	SWMBIC05	4.001	SWMBIC06	5.8	0.642	0.340	0.2922	
15 minute summer	SWMBRE01	2.000	SWMBIC01	1.6	0.419	0.098	0.0231	
15 minute summer	SWMBIC01	2.001	SWMBIC02	3.1	0.656	0.203	0.0313	
15 minute summer	SWMBIC02	2.002	SWMBIC03	3.1	0.683	0.197	0.0517	
15 minute summer	SWMBIC03	1.001	SWMBIC04	31.8	1.017	0.432	0.6355	
15 minute summer	SWMBRE05	1.000	SWMBIC03	7.8	0.786	0.184	0.4831	
15 minute summer	SWMBIC04	1.002	SWMBIC07	45.4	1.062	0.400	1.6845	
15 minute summer	SWMBIC10	9.000	SWMBIC12	11.7	0.896	0.201	0.2352	
15 minute summer	SWMBIC12	7.002	SWMBIC14	16.9	0.586	0.382	0.7039	
15 minute summer	SWMBRE06	7.000	SWMBIC11	0.0	0.000	0.000	0.0439	
15 minute summer	SWMBIC11	7.001	SWMBIC12	5.4	0.957	0.264	0.0746	
15 minute summer	SWMBIC14	7.003	TANK	43.8	1.186	1.035	0.2453	
15 minute summer	SWMBIC13	10.001	SWMBIC14	5.5	1.035	0.157	0.1398	
15 minute summer	SWMBRE08	11.000	SWMBIC13	0.0	0.000	0.000	0.0068	
15 minute summer	SWMRE09	10.000	SWMBIC13	0.0	0.000	0.000	0.0140	
15 minute summer	SWMBRE10	12.000	SWMBIC15	2.4	0.811	0.085	0.0131	
15 minute summer	SWMBIC15	12.001	SWMBIC14	2.4	0.473	0.131	0.1559	
15 minute summer	TANK	1.005	SWMBIC17	-10.8	-0.637	-0.108	0.1477	

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Results for 30 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	SWMBMN01	24	14.930	0.360	15.7	0.5961	0.0000	SURCHARGED
15 minute summer	SW911	131	13.642	0.023	2.5	0.0000	0.0000	OK
15 minute summer	SWMBRE07	1	15.600	0.000	0.0	0.0000	0.0000	OK
15 minute summer	SWMBIC16	1	15.485	0.000	0.0	0.0000	0.0000	OK
15 minute summer	SWMBIC17	22	14.930	0.250	12.1	0.0708	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	SWMBMN01	1.007	SW911	2.5	1.491	0.049	0.0193	37.4
15 minute summer	SWMBRE07	8.000	SWMBIC11	0.0	0.000	0.000	0.0364	
15 minute summer	SWMBIC16	3.000	SWMBIC04	0.0	0.000	0.000	0.0000	
15 minute summer	SWMBIC17	1.006	SWMBMN01	-12.1	-0.276	-0.153	1.4403	

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Results for 30 year 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	SWMBRE04	1	15.350	0.000	0.0	0.0000	0.0000	OK
30 minute summer	SWMBIC08	18	15.092	0.062	9.7	0.0484	0.0000	OK
30 minute summer	SWMBIC09	36	14.990	0.260	80.8	0.1880	0.0000	OK
30 minute summer	SWMBRE03	1	15.550	0.000	0.0	0.0000	0.0000	OK
30 minute summer	SWMBIC06	18	15.268	0.088	10.3	0.0569	0.0000	OK
30 minute summer	SWMBIC07	18	15.069	0.204	61.2	0.1579	0.0000	OK
30 minute summer	SWMBRE02	18	15.582	0.032	1.7	0.0108	0.0000	OK
30 minute summer	SWMBIC05	18	15.531	0.056	5.1	0.0255	0.0000	OK
30 minute summer	SWMBRE01	18	15.730	0.030	1.4	0.0091	0.0000	OK
30 minute summer	SWMBIC01	18	15.695	0.045	2.8	0.0128	0.0000	OK
30 minute summer	SWMBIC02	18	15.644	0.044	2.8	0.0070	0.0000	OK
30 minute summer	SWMBIC03	18	15.495	0.135	28.5	0.1961	0.0000	OK
30 minute summer	SWMBRE05	18	15.816	0.061	6.9	0.0512	0.0000	OK
30 minute summer	SWMBIC04	18	15.392	0.122	40.6	0.1143	0.0000	OK
30 minute summer	SWMBIC10	18	15.429	0.064	10.3	0.0658	0.0000	OK
30 minute summer	SWMBIC12	18	15.230	0.090	15.1	0.0254	0.0000	OK
30 minute summer	SWMBRE06	1	15.550	0.000	0.0	0.0000	0.0000	OK
30 minute summer	SWMBIC11	18	15.441	0.051	4.8	0.0243	0.0000	OK
30 minute summer	SWMBIC14	18	15.150	0.195	39.2	0.2184	0.0000	OK
30 minute summer	SWMBIC13	18	15.573	0.038	4.8	0.0218	0.0000	OK
30 minute summer	SWMBRE08	1	15.600	0.000	0.0	0.0000	0.0000	OK
30 minute summer	SWMRE09	1	15.600	0.000	0.0	0.0000	0.0000	OK
30 minute summer	SWMBRE10	18	15.324	0.029	2.1	0.0048	0.0000	OK
30 minute summer	SWMBIC15	18	15.220	0.035	2.1	0.0055	0.0000	OK
30 minute summer	TANK	35	14.991	0.291	126.3	75.4082	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	SWMBRE04	6.000	SWMBIC08	0.0	0.000	0.000	0.0000	
30 minute summer	SWMBIC08	6.001	SWMBIC09	9.7	0.713	0.167	0.3472	
30 minute summer	SWMBIC09	1.004	TANK	79.7	1.889	1.140	0.5052	
30 minute summer	SWMBRE03	5.000	SWMBIC06	0.0	0.000	0.000	0.0407	
30 minute summer	SWMBIC06	4.002	SWMBIC07	10.2	0.979	0.599	0.1878	
30 minute summer	SWMBIC07	1.003	SWMBIC09	60.4	1.106	0.682	1.1620	
30 minute summer	SWMBRE02	4.000	SWMBIC05	1.7	0.401	0.097	0.0336	
30 minute summer	SWMBIC05	4.001	SWMBIC06	5.1	0.617	0.298	0.2657	
30 minute summer	SWMBRE01	2.000	SWMBIC01	1.4	0.405	0.087	0.0211	
30 minute summer	SWMBIC01	2.001	SWMBIC02	2.8	0.635	0.180	0.0288	
30 minute summer	SWMBIC02	2.002	SWMBIC03	2.8	0.663	0.177	0.0480	
30 minute summer	SWMBIC03	1.001	SWMBIC04	28.5	0.987	0.386	0.5858	
30 minute summer	SWMBRE05	1.000	SWMBIC03	6.7	0.780	0.160	0.4175	
30 minute summer	SWMBIC04	1.002	SWMBIC07	40.4	1.034	0.356	1.5182	
30 minute summer	SWMBIC10	9.000	SWMBIC12	10.3	0.869	0.177	0.2146	
30 minute summer	SWMBIC12	7.002	SWMBIC14	15.1	0.575	0.340	0.6500	
30 minute summer	SWMBRE06	7.000	SWMBIC11	0.0	0.000	0.000	0.0400	
30 minute summer	SWMBIC11	7.001	SWMBIC12	4.8	0.927	0.234	0.0683	
30 minute summer	SWMBIC14	7.003	TANK	38.7	1.137	0.914	0.2287	
30 minute summer	SWMBIC13	10.001	SWMBIC14	4.8	1.018	0.138	0.1227	
30 minute summer	SWMBRE08	11.000	SWMBIC13	0.0	0.000	0.000	0.0062	
30 minute summer	SWMRE09	10.000	SWMBIC13	0.0	0.000	0.000	0.0127	
30 minute summer	SWMBRE10	12.000	SWMBIC15	2.1	0.783	0.075	0.0119	
30 minute summer	SWMBIC15	12.001	SWMBIC14	2.1	0.483	0.117	0.1366	
30 minute summer	TANK	1.005	SWMBIC17	-8.4	0.469	-0.084	0.1715	

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Results for 30 year 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	SWMBMN01	36	14.990	0.420	13.8	0.6951	0.0000	SURCHARGED
30 minute summer	SW911	260	13.642	0.023	2.5	0.0000	0.0000	OK
30 minute summer	SWMBRE07	1	15.600	0.000	0.0	0.0000	0.0000	OK
30 minute summer	SWMBIC16	1	15.485	0.000	0.0	0.0000	0.0000	OK
30 minute summer	SWMBIC17	37	14.992	0.312	9.8	0.0882	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
30 minute summer	SWMBMN01	1.007	SW911	2.5	1.491	0.049	0.0193	39.0
30 minute summer	SWMBRE07	8.000	SWMBIC11	0.0	0.000	0.000	0.0332	
30 minute summer	SWMBIC16	3.000	SWMBIC04	0.0	0.000	0.000	0.0000	
30 minute summer	SWMBIC17	1.006	SWMBMN01	-9.8	-0.206	-0.124	1.5233	

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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	SWMBRE04	1	15.350	0.000	0.0	0.0000	0.0000	OK
60 minute summer	SWMBIC08	33	15.082	0.052	7.0	0.0410	0.0000	OK
60 minute summer	SWMBIC09	65	15.044	0.314	58.6	0.2265	0.0000	SURCHARGED
60 minute summer	SWMBRE03	1	15.550	0.000	0.0	0.0000	0.0000	OK
60 minute summer	SWMBIC06	33	15.252	0.072	7.4	0.0465	0.0000	OK
60 minute summer	SWMBIC07	65	15.044	0.179	44.2	0.1381	0.0000	OK
60 minute summer	SWMBRE02	33	15.577	0.027	1.2	0.0091	0.0000	OK
60 minute summer	SWMBIC05	33	15.522	0.047	3.7	0.0215	0.0000	OK
60 minute summer	SWMBRE01	33	15.725	0.025	1.0	0.0077	0.0000	OK
60 minute summer	SWMBIC01	33	15.688	0.038	2.0	0.0107	0.0000	OK
60 minute summer	SWMBIC02	33	15.637	0.037	2.0	0.0059	0.0000	OK
60 minute summer	SWMBIC03	33	15.472	0.112	20.6	0.1633	0.0000	OK
60 minute summer	SWMBRE05	33	15.807	0.052	5.0	0.0435	0.0000	OK
60 minute summer	SWMBIC04	33	15.373	0.103	29.3	0.0959	0.0000	OK
60 minute summer	SWMBIC10	33	15.419	0.054	7.5	0.0560	0.0000	OK
60 minute summer	SWMBIC12	33	15.216	0.076	11.0	0.0214	0.0000	OK
60 minute summer	SWMBRE06	1	15.550	0.000	0.0	0.0000	0.0000	OK
60 minute summer	SWMBIC11	33	15.433	0.043	3.5	0.0205	0.0000	OK
60 minute summer	SWMBIC14	33	15.105	0.150	28.5	0.1682	0.0000	OK
60 minute summer	SWMBIC13	33	15.567	0.032	3.5	0.0186	0.0000	OK
60 minute summer	SWMBRE08	1	15.600	0.000	0.0	0.0000	0.0000	OK
60 minute summer	SWMRE09	1	15.600	0.000	0.0	0.0000	0.0000	OK
60 minute summer	SWMBRE10	33	15.319	0.024	1.5	0.0041	0.0000	OK
60 minute summer	SWMBIC15	33	15.214	0.029	1.5	0.0046	0.0000	OK
60 minute summer	TANK	64	15.044	0.344	90.8	89.2296	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
60 minute summer	SWMBRE04	6.000	SWMBIC08	0.0	0.000	0.000	0.0000	
60 minute summer	SWMBIC08	6.001	SWMBIC09	7.0	0.720	0.120	0.3712	
60 minute summer	SWMBIC09	1.004	TANK	57.3	1.370	0.820	0.5281	
60 minute summer	SWMBRE03	5.000	SWMBIC06	0.0	0.000	0.000	0.0316	
60 minute summer	SWMBIC06	4.002	SWMBIC07	7.4	0.908	0.434	0.1466	
60 minute summer	SWMBIC07	1.003	SWMBIC09	44.0	0.976	0.496	1.2078	
60 minute summer	SWMBRE02	4.000	SWMBIC05	1.2	0.365	0.069	0.0265	
60 minute summer	SWMBIC05	4.001	SWMBIC06	3.7	0.571	0.217	0.2081	
60 minute summer	SWMBRE01	2.000	SWMBIC01	1.0	0.370	0.062	0.0165	
60 minute summer	SWMBIC01	2.001	SWMBIC02	2.0	0.582	0.129	0.0224	
60 minute summer	SWMBIC02	2.002	SWMBIC03	2.0	0.604	0.126	0.0376	
60 minute summer	SWMBIC03	1.001	SWMBIC04	20.6	0.906	0.279	0.4605	
60 minute summer	SWMBRE05	1.000	SWMBIC03	4.9	0.713	0.116	0.3322	
60 minute summer	SWMBIC04	1.002	SWMBIC07	29.1	0.976	0.257	1.1648	
60 minute summer	SWMBIC10	9.000	SWMBIC12	7.5	0.796	0.129	0.1707	
60 minute summer	SWMBIC12	7.002	SWMBIC14	11.0	0.551	0.247	0.5050	
60 minute summer	SWMBRE06	7.000	SWMBIC11	0.0	0.000	0.000	0.0317	
60 minute summer	SWMBIC11	7.001	SWMBIC12	3.5	0.851	0.171	0.0542	
60 minute summer	SWMBIC14	7.003	TANK	28.3	1.076	0.668	0.1774	
60 minute summer	SWMBIC13	10.001	SWMBIC14	3.5	1.019	0.100	0.0766	
60 minute summer	SWMBRE08	11.000	SWMBIC13	0.0	0.000	0.000	0.0049	
60 minute summer	SWMRE09	10.000	SWMBIC13	0.0	0.000	0.000	0.0102	
60 minute summer	SWMBRE10	12.000	SWMBIC15	1.5	0.716	0.053	0.0093	
60 minute summer	SWMBIC15	12.001	SWMBIC14	1.5	0.498	0.083	0.0845	
60 minute summer	TANK	1.005	SWMBIC17	5.2	0.503	0.051	0.1723	

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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	SWMBMN01	65	15.043	0.473	10.0	0.7827	0.0000	SURCHARGED
60 minute summer	SW911	33	13.642	0.023	2.5	0.0000	0.0000	OK
60 minute summer	SWMBRE07	1	15.600	0.000	0.0	0.0000	0.0000	OK
60 minute summer	SWMBIC16	1	15.485	0.000	0.0	0.0000	0.0000	OK
60 minute summer	SWMBIC17	65	15.043	0.363	6.4	0.1029	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
60 minute summer	SWMBMN01	1.007	SW911	2.5	1.491	0.049	0.0193	42.1
60 minute summer	SWMBRE07	8.000	SWMBIC11	0.0	0.000	0.000	0.0262	
60 minute summer	SWMBIC16	3.000	SWMBIC04	0.0	0.000	0.000	0.0000	
60 minute summer	SWMBIC17	1.006	SWMBMN01	-6.4	0.114	-0.081	1.5233	

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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	SWMBRE04	2	15.350	0.000	0.0	0.0000	0.0000	OK
120 minute summer	SWMBIC08	124	15.119	0.089	4.7	0.0697	0.0000	OK
120 minute summer	SWMBIC09	124	15.119	0.389	40.2	0.2809	0.0000	SURCHARGED
120 minute summer	SWMBRE03	2	15.550	0.000	0.0	0.0000	0.0000	OK
120 minute summer	SWMBIC06	64	15.237	0.057	5.0	0.0373	0.0000	OK
120 minute summer	SWMBIC07	124	15.119	0.254	30.3	0.1963	0.0000	OK
120 minute summer	SWMBRE02	64	15.572	0.022	0.8	0.0074	0.0000	OK
120 minute summer	SWMBIC05	64	15.514	0.039	2.5	0.0176	0.0000	OK
120 minute summer	SWMBRE01	64	15.721	0.021	0.7	0.0065	0.0000	OK
120 minute summer	SWMBIC01	64	15.682	0.032	1.4	0.0089	0.0000	OK
120 minute summer	SWMBIC02	64	15.631	0.031	1.4	0.0049	0.0000	OK
120 minute summer	SWMBIC03	64	15.452	0.092	14.1	0.1331	0.0000	OK
120 minute summer	SWMBRE05	64	15.798	0.043	3.4	0.0360	0.0000	OK
120 minute summer	SWMBIC04	64	15.354	0.084	20.0	0.0788	0.0000	OK
120 minute summer	SWMBIC10	64	15.410	0.045	5.1	0.0462	0.0000	OK
120 minute summer	SWMBIC12	64	15.202	0.062	7.5	0.0176	0.0000	OK
120 minute summer	SWMBRE06	2	15.550	0.000	0.0	0.0000	0.0000	OK
120 minute summer	SWMBIC11	64	15.426	0.036	2.4	0.0169	0.0000	OK
120 minute summer	SWMBIC14	124	15.119	0.164	19.4	0.1838	0.0000	OK
120 minute summer	SWMBIC13	64	15.562	0.027	2.4	0.0155	0.0000	OK
120 minute summer	SWMBRE08	2	15.600	0.000	0.0	0.0000	0.0000	OK
120 minute summer	SWMRE09	2	15.600	0.000	0.0	0.0000	0.0000	OK
120 minute summer	SWMBRE10	64	15.314	0.019	1.0	0.0033	0.0000	OK
120 minute summer	SWMBIC15	64	15.209	0.024	1.0	0.0038	0.0000	OK
120 minute summer	TANK	126	15.119	0.419	61.7	108.7697	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
120 minute summer	SWMBRE04	6.000	SWMBIC08	0.0	0.000	0.000	0.0151	
120 minute summer	SWMBIC08	6.001	SWMBIC09	4.7	0.681	0.081	0.4884	
120 minute summer	SWMBIC09	1.004	TANK	39.1	0.997	0.560	0.5281	
120 minute summer	SWMBRE03	5.000	SWMBIC06	0.0	0.000	0.000	0.0236	
120 minute summer	SWMBIC06	4.002	SWMBIC07	5.0	0.823	0.295	0.1272	
120 minute summer	SWMBIC07	1.003	SWMBIC09	30.2	0.793	0.341	1.4179	
120 minute summer	SWMBRE02	4.000	SWMBIC05	0.8	0.329	0.046	0.0200	
120 minute summer	SWMBIC05	4.001	SWMBIC06	2.5	0.515	0.146	0.1560	
120 minute summer	SWMBRE01	2.000	SWMBIC01	0.7	0.337	0.043	0.0127	
120 minute summer	SWMBIC01	2.001	SWMBIC02	1.4	0.529	0.090	0.0173	
120 minute summer	SWMBIC02	2.002	SWMBIC03	1.4	0.547	0.089	0.0291	
120 minute summer	SWMBIC03	1.001	SWMBIC04	14.1	0.818	0.191	0.3492	
120 minute summer	SWMBRE05	1.000	SWMBIC03	3.4	0.641	0.080	0.2550	
120 minute summer	SWMBIC04	1.002	SWMBIC07	20.0	0.947	0.176	1.2898	
120 minute summer	SWMBIC10	9.000	SWMBIC12	5.1	0.711	0.087	0.1299	
120 minute summer	SWMBIC12	7.002	SWMBIC14	7.5	0.507	0.169	0.4100	
120 minute summer	SWMBRE06	7.000	SWMBIC11	0.0	0.000	0.000	0.0240	
120 minute summer	SWMBIC11	7.001	SWMBIC12	2.4	0.767	0.117	0.0413	
120 minute summer	SWMBIC14	7.003	TANK	19.4	0.986	0.458	0.2346	
120 minute summer	SWMBIC13	10.001	SWMBIC14	2.4	1.027	0.069	0.0736	
120 minute summer	SWMBRE08	11.000	SWMBIC13	0.0	0.000	0.000	0.0038	
120 minute summer	SWMRE09	10.000	SWMBIC13	0.0	0.000	0.000	0.0078	
120 minute summer	SWMBRE10	12.000	SWMBIC15	1.0	0.638	0.036	0.0070	
120 minute summer	SWMBIC15	12.001	SWMBIC14	1.0	0.488	0.055	0.0839	
120 minute summer	TANK	1.005	SWMBIC17	5.8	0.513	0.058	0.1723	

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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	SWMBMN01	124	15.120	0.550	6.8	0.9105	0.0000	SURCHARGED
120 minute summer	SW911	60	13.642	0.023	2.5	0.0000	0.0000	OK
120 minute summer	SWMBRE07	2	15.600	0.000	0.0	0.0000	0.0000	OK
120 minute summer	SWMBIC16	2	15.485	0.000	0.0	0.0000	0.0000	OK
120 minute summer	SWMBIC17	124	15.119	0.439	5.8	0.1243	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
120 minute summer	SWMBMN01	1.007	SW911	2.5	1.491	0.049	0.0193	47.8
120 minute summer	SWMBRE07	8.000	SWMBIC11	0.0	0.000	0.000	0.0199	
120 minute summer	SWMBIC16	3.000	SWMBIC04	0.0	0.000	0.000	0.0000	
120 minute summer	SWMBIC17	1.006	SWMBMN01	-3.8	0.130	-0.048	1.5233	

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Results for 30 year 180 minute summer. 420 minute analysis at 4 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
180 minute summer	SWMBRE04	4	15.350	0.000	0.0	0.0000	0.0000	OK
180 minute summer	SWMBIC08	184	15.154	0.124	3.6	0.0969	0.0000	OK
180 minute summer	SWMBIC09	184	15.154	0.424	30.2	0.3060	0.0000	SURCHARGED
180 minute summer	SWMBRE03	4	15.550	0.000	0.0	0.0000	0.0000	OK
180 minute summer	SWMBIC06	96	15.229	0.049	3.8	0.0321	0.0000	OK
180 minute summer	SWMBIC07	184	15.154	0.289	22.7	0.2232	0.0000	OK
180 minute summer	SWMBRE02	96	15.569	0.019	0.6	0.0065	0.0000	OK
180 minute summer	SWMBIC05	96	15.509	0.034	1.9	0.0153	0.0000	OK
180 minute summer	SWMBRE01	96	15.718	0.018	0.5	0.0055	0.0000	OK
180 minute summer	SWMBIC01	96	15.677	0.027	1.0	0.0075	0.0000	OK
180 minute summer	SWMBIC02	96	15.626	0.026	1.0	0.0041	0.0000	OK
180 minute summer	SWMBIC03	96	15.439	0.079	10.5	0.1141	0.0000	OK
180 minute summer	SWMBRE05	96	15.792	0.037	2.5	0.0310	0.0000	OK
180 minute summer	SWMBIC04	96	15.343	0.073	15.0	0.0682	0.0000	OK
180 minute summer	SWMBIC10	96	15.404	0.039	3.8	0.0401	0.0000	OK
180 minute summer	SWMBIC12	96	15.194	0.054	5.6	0.0152	0.0000	OK
180 minute summer	SWMBRE06	4	15.550	0.000	0.0	0.0000	0.0000	OK
180 minute summer	SWMBIC11	96	15.421	0.031	1.8	0.0146	0.0000	OK
180 minute summer	SWMBIC14	184	15.154	0.199	14.6	0.2226	0.0000	OK
180 minute summer	SWMBIC13	92	15.558	0.023	1.8	0.0136	0.0000	OK
180 minute summer	SWMBRE08	4	15.600	0.000	0.0	0.0000	0.0000	OK
180 minute summer	SWMRE09	4	15.600	0.000	0.0	0.0000	0.0000	OK
180 minute summer	SWMBRE10	96	15.312	0.017	0.8	0.0030	0.0000	OK
180 minute summer	SWMBIC15	96	15.207	0.022	0.8	0.0034	0.0000	OK
180 minute summer	TANK	184	15.154	0.454	45.8	117.7688	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
180 minute summer	SWMBRE04	6.000	SWMBIC08	0.0	0.000	0.000	0.0912	
180 minute summer	SWMBIC08	6.001	SWMBIC09	3.6	0.633	0.062	0.5583	
180 minute summer	SWMBIC09	1.004	TANK	29.1	0.891	0.416	0.5281	
180 minute summer	SWMBRE03	5.000	SWMBIC06	0.0	0.000	0.000	0.0192	
180 minute summer	SWMBIC06	4.002	SWMBIC07	3.8	0.765	0.224	0.1620	
180 minute summer	SWMBIC07	1.003	SWMBIC09	22.7	0.675	0.256	1.4813	
180 minute summer	SWMBRE02	4.000	SWMBIC05	0.6	0.289	0.034	0.0164	
180 minute summer	SWMBIC05	4.001	SWMBIC06	1.9	0.478	0.111	0.1277	
180 minute summer	SWMBRE01	2.000	SWMBIC01	0.5	0.306	0.031	0.0100	
180 minute summer	SWMBIC01	2.001	SWMBIC02	1.0	0.483	0.064	0.0135	
180 minute summer	SWMBIC02	2.002	SWMBIC03	1.0	0.496	0.063	0.0229	
180 minute summer	SWMBIC03	1.001	SWMBIC04	10.5	0.753	0.142	0.2832	
180 minute summer	SWMBRE05	1.000	SWMBIC03	2.5	0.586	0.059	0.2057	
180 minute summer	SWMBIC04	1.002	SWMBIC07	15.0	0.875	0.132	1.3948	
180 minute summer	SWMBIC10	9.000	SWMBIC12	3.8	0.653	0.065	0.1056	
180 minute summer	SWMBIC12	7.002	SWMBIC14	5.6	0.471	0.126	0.4856	
180 minute summer	SWMBRE06	7.000	SWMBIC11	0.0	0.000	0.000	0.0195	
180 minute summer	SWMBIC11	7.001	SWMBIC12	1.8	0.707	0.088	0.0336	
180 minute summer	SWMBIC14	7.003	TANK	14.6	0.919	0.345	0.2596	
180 minute summer	SWMBIC13	10.001	SWMBIC14	1.8	1.027	0.052	0.1044	
180 minute summer	SWMBRE08	11.000	SWMBIC13	0.0	0.000	0.000	0.0031	
180 minute summer	SWMRE09	10.000	SWMBIC13	0.0	0.000	0.000	0.0065	
180 minute summer	SWMBRE10	12.000	SWMBIC15	0.8	0.598	0.028	0.0060	
180 minute summer	SWMBIC15	12.001	SWMBIC14	0.8	0.486	0.044	0.1185	
180 minute summer	TANK	1.005	SWMBIC17	5.3	0.507	0.053	0.1723	

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Results for 30 year 180 minute summer. 420 minute analysis at 4 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
180 minute summer	SWMBMN01	184	15.153	0.583	5.1	0.9651	0.0000	SURCHARGED
180 minute summer	SW911	88	13.642	0.023	2.5	0.0000	0.0000	OK
180 minute summer	SWMBRE07	4	15.600	0.000	0.0	0.0000	0.0000	OK
180 minute summer	SWMBIC16	4	15.485	0.000	0.0	0.0000	0.0000	OK
180 minute summer	SWMBIC17	184	15.154	0.474	5.3	0.1341	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
180 minute summer	SWMBMN01	1.007	SW911	2.5	1.491	0.049	0.0193	53.4
180 minute summer	SWMBRE07	8.000	SWMBIC11	0.0	0.000	0.000	0.0161	
180 minute summer	SWMBIC16	3.000	SWMBIC04	0.0	0.000	0.000	0.0000	
180 minute summer	SWMBIC17	1.006	SWMBMN01	2.9	0.137	0.037	1.5233	

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Results for 100 year +40% CC 15 minute summer. 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 summer	SWMBRE04	1	15.350	0.000	0.0	0.0000	0.0000	OK
15 minute summer	SWMBIC08	12	15.207	0.177	20.1	0.1387	0.0000	OK
15 minute summer	SWMBIC09	12	15.194	0.464	143.7	0.3350	0.0000	SURCHARGED
15 minute summer	SWMBRE03	12	15.646	0.096	1.3	0.0153	0.0000	OK
15 minute summer	SWMBIC06	12	15.644	0.464	19.9	0.3008	0.0000	SURCHARGED
15 minute summer	SWMBIC07	12	15.445	0.580	104.8	0.4487	0.0000	SURCHARGED
15 minute summer	SWMBRE02	12	15.730	0.180	3.6	0.0614	0.0000	SURCHARGED
15 minute summer	SWMBIC05	12	15.724	0.249	10.8	0.1132	0.0000	SURCHARGED
15 minute summer	SWMBRE01	10	15.743	0.043	2.9	0.0130	0.0000	OK
15 minute summer	SWMBIC01	10	15.718	0.068	5.8	0.0192	0.0000	OK
15 minute summer	SWMBIC02	12	15.702	0.102	5.7	0.0161	0.0000	OK
15 minute summer	SWMBIC03	12	15.693	0.333	59.2	0.4835	0.0000	SURCHARGED
15 minute summer	SWMBRE05	10	15.844	0.089	14.4	0.0741	0.0000	OK
15 minute summer	SWMBIC04	12	15.633	0.363	80.1	0.3389	0.0000	SURCHARGED
15 minute summer	SWMBIC10	11	15.491	0.126	21.6	0.1298	0.0000	OK
15 minute summer	SWMBIC12	11	15.471	0.331	29.5	0.0937	0.0000	SURCHARGED
15 minute summer	SWMBRE06	1	15.550	0.000	0.0	0.0000	0.0000	OK
15 minute summer	SWMBIC11	11	15.501	0.111	10.1	0.0527	0.0000	OK
15 minute summer	SWMBIC14	11	15.375	0.420	77.1	0.4698	0.0000	SURCHARGED
15 minute summer	SWMBIC13	10	15.590	0.055	10.1	0.0320	0.0000	OK
15 minute summer	SWMBRE08	1	15.600	0.000	0.0	0.0000	0.0000	OK
15 minute summer	SWMRE09	1	15.600	0.000	0.0	0.0000	0.0000	OK
15 minute summer	SWMBRE10	11	15.387	0.092	4.3	0.0157	0.0000	OK
15 minute summer	SWMBIC15	11	15.383	0.198	4.2	0.0315	0.0000	SURCHARGED
15 minute summer	TANK	21	15.125	0.425	241.3	110.3701	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	SWMBRE04	6.000	SWMBIC08	0.0	0.000	0.000	0.2349	
15 minute summer	SWMBIC08	6.001	SWMBIC09	18.0	0.651	0.310	0.6587	
15 minute summer	SWMBIC09	1.004	TANK	143.3	2.295	2.048	0.5281	
15 minute summer	SWMBRE03	5.000	SWMBIC06	1.4	0.111	0.037	0.1122	
15 minute summer	SWMBIC06	4.002	SWMBIC07	16.9	0.997	0.999	0.3187	
15 minute summer	SWMBIC07	1.003	SWMBIC09	105.0	1.491	1.185	1.4902	
15 minute summer	SWMBRE02	4.000	SWMBIC05	3.6	0.480	0.205	0.1362	
15 minute summer	SWMBIC05	4.001	SWMBIC06	9.7	0.703	0.566	0.5608	
15 minute summer	SWMBRE01	2.000	SWMBIC01	2.9	0.484	0.178	0.0361	
15 minute summer	SWMBIC01	2.001	SWMBIC02	5.7	0.773	0.368	0.0647	
15 minute summer	SWMBIC02	2.002	SWMBIC03	5.6	0.769	0.357	0.1722	
15 minute summer	SWMBIC03	1.001	SWMBIC04	55.0	1.112	0.746	1.4293	
15 minute summer	SWMBRE05	1.000	SWMBIC03	14.1	0.743	0.334	1.3036	
15 minute summer	SWMBIC04	1.002	SWMBIC07	70.4	1.114	0.621	2.7377	
15 minute summer	SWMBIC10	9.000	SWMBIC12	20.3	0.998	0.348	0.5603	
15 minute summer	SWMBIC12	7.002	SWMBIC14	30.4	0.764	0.685	1.0078	
15 minute summer	SWMBRE06	7.000	SWMBIC11	0.0	0.000	0.000	0.1054	
15 minute summer	SWMBIC11	7.001	SWMBIC12	10.0	0.999	0.489	0.2084	
15 minute summer	SWMBIC14	7.003	TANK	77.2	1.941	1.823	0.2656	
15 minute summer	SWMBIC13	10.001	SWMBIC14	10.0	1.049	0.288	0.1551	
15 minute summer	SWMBRE08	11.000	SWMBIC13	0.0	0.000	0.000	0.0105	
15 minute summer	SWMRE09	10.000	SWMBIC13	0.0	0.000	0.000	0.0216	
15 minute summer	SWMBRE10	12.000	SWMBIC15	4.2	0.893	0.151	0.0641	
15 minute summer	SWMBIC15	12.001	SWMBIC14	5.0	0.477	0.278	0.2649	
15 minute summer	TANK	1.005	SWMBIC17	-22.6	-0.810	-0.225	0.1723	

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Results for 100 year +40% CC 15 minute summer. 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 summer	SWMBMN01	20	15.126	0.556	28.7	0.9194	0.0000	SURCHARGED
15 minute summer	SW911	9	13.642	0.023	2.5	0.0000	0.0000	OK
15 minute summer	SWMBRE07	1	15.600	0.000	0.0	0.0000	0.0000	OK
15 minute summer	SWMBIC16	12	15.633	0.148	1.5	0.0235	0.0000	OK
15 minute summer	SWMBIC17	21	15.125	0.445	24.7	0.1260	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	SWMBMN01	1.007	SW911	2.5	1.491	0.049	0.0193	35.0
15 minute summer	SWMBRE07	8.000	SWMBIC11	0.0	0.000	0.000	0.0873	
15 minute summer	SWMBIC16	3.000	SWMBIC04	-1.5	-0.234	-0.086	0.1146	
15 minute summer	SWMBIC17	1.006	SWMBMN01	-24.7	-0.394	-0.313	1.5233	

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Results for 100 year +40% CC 30 minute summer. 270 minute analysis at 1 minute timestep. Mass balance: 99.89%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
30 minute summer	SWMBRE04	1	15.350	0.000	0.0	0.0000	0.0000	OK
30 minute summer	SWMBIC08	36	15.243	0.213	17.7	0.1667	0.0000	OK
30 minute summer	SWMBIC09	36	15.243	0.513	130.5	0.3702	0.0000	SURCHARGED
30 minute summer	SWMBRE03	20	15.570	0.020	0.1	0.0032	0.0000	OK
30 minute summer	SWMBIC06	19	15.567	0.387	18.7	0.2511	0.0000	SURCHARGED
30 minute summer	SWMBIC07	20	15.408	0.543	99.9	0.4194	0.0000	SURCHARGED
30 minute summer	SWMBRE02	20	15.638	0.088	3.2	0.0302	0.0000	OK
30 minute summer	SWMBIC05	20	15.636	0.161	9.5	0.0731	0.0000	SURCHARGED
30 minute summer	SWMBRE01	18	15.740	0.040	2.5	0.0121	0.0000	OK
30 minute summer	SWMBIC01	18	15.713	0.063	5.0	0.0177	0.0000	OK
30 minute summer	SWMBIC02	18	15.661	0.061	5.0	0.0096	0.0000	OK
30 minute summer	SWMBIC03	19	15.572	0.212	52.5	0.3078	0.0000	OK
30 minute summer	SWMBRE05	18	15.839	0.084	12.7	0.0699	0.0000	OK
30 minute summer	SWMBIC04	19	15.538	0.268	73.1	0.2506	0.0000	OK
30 minute summer	SWMBIC10	18	15.453	0.088	19.0	0.0906	0.0000	OK
30 minute summer	SWMBIC12	18	15.420	0.280	27.9	0.0792	0.0000	SURCHARGED
30 minute summer	SWMBRE06	1	15.550	0.000	0.0	0.0000	0.0000	OK
30 minute summer	SWMBIC11	17	15.460	0.070	8.9	0.0330	0.0000	OK
30 minute summer	SWMBIC14	18	15.333	0.378	71.1	0.4238	0.0000	SURCHARGED
30 minute summer	SWMBIC13	18	15.587	0.052	8.9	0.0300	0.0000	OK
30 minute summer	SWMBRE08	1	15.600	0.000	0.0	0.0000	0.0000	OK
30 minute summer	SWMRE09	1	15.600	0.000	0.0	0.0000	0.0000	OK
30 minute summer	SWMBRE10	19	15.337	0.042	3.8	0.0072	0.0000	OK
30 minute summer	SWMBIC15	18	15.342	0.157	3.9	0.0249	0.0000	SURCHARGED
30 minute summer	TANK	35	15.243	0.543	220.0	140.8756	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
30 minute summer	SWMBRE04	6.000	SWMBIC08	0.0	0.000	0.000	0.3115	
30 minute summer	SWMBIC08	6.001	SWMBIC09	16.2	0.626	0.278	0.7070	
30 minute summer	SWMBIC09	1.004	TANK	129.2	1.915	1.848	0.5281	
30 minute summer	SWMBRE03	5.000	SWMBIC06	0.2	0.021	0.006	0.0721	
30 minute summer	SWMBIC06	4.002	SWMBIC07	15.2	0.986	0.896	0.3187	
30 minute summer	SWMBIC07	1.003	SWMBIC09	98.1	1.393	1.107	1.4902	
30 minute summer	SWMBRE02	4.000	SWMBIC05	3.2	0.473	0.183	0.1099	
30 minute summer	SWMBIC05	4.001	SWMBIC06	9.2	0.686	0.540	0.5608	
30 minute summer	SWMBRE01	2.000	SWMBIC01	2.5	0.469	0.155	0.0325	
30 minute summer	SWMBIC01	2.001	SWMBIC02	5.0	0.732	0.322	0.0446	
30 minute summer	SWMBIC02	2.002	SWMBIC03	5.0	0.774	0.317	0.0753	
30 minute summer	SWMBIC03	1.001	SWMBIC04	50.9	1.094	0.690	1.2143	
30 minute summer	SWMBRE05	1.000	SWMBIC03	12.7	0.755	0.300	0.9208	
30 minute summer	SWMBIC04	1.002	SWMBIC07	65.3	1.087	0.576	2.6608	
30 minute summer	SWMBIC10	9.000	SWMBIC12	19.0	0.942	0.326	0.4845	
30 minute summer	SWMBIC12	7.002	SWMBIC14	27.4	0.689	0.618	1.0078	
30 minute summer	SWMBRE06	7.000	SWMBIC11	0.0	0.000	0.000	0.0602	
30 minute summer	SWMBIC11	7.001	SWMBIC12	9.0	1.033	0.441	0.1684	
30 minute summer	SWMBIC14	7.003	TANK	70.5	1.773	1.665	0.2685	
30 minute summer	SWMBIC13	10.001	SWMBIC14	8.9	1.025	0.255	0.1519	
30 minute summer	SWMBRE08	11.000	SWMBIC13	0.0	0.000	0.000	0.0096	
30 minute summer	SWMRE09	10.000	SWMBIC13	0.0	0.000	0.000	0.0198	
30 minute summer	SWMBRE10	12.000	SWMBIC15	3.9	0.848	0.139	0.0476	
30 minute summer	SWMBIC15	12.001	SWMBIC14	4.4	0.491	0.242	0.2649	
30 minute summer	TANK	1.005	SWMBIC17	-20.3	-0.380	-0.202	0.1723	

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Results for 100 year +40% CC 30 minute summer. 270 minute analysis at 1 minute timestep. Mass balance: 99.89%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
30 minute summer	SWMBMN01	37	15.244	0.674	25.3	1.1146	0.0000	SURCHARGED
30 minute summer	SW911	16	13.642	0.023	2.5	0.0000	0.0000	OK
30 minute summer	SWMBRE07	1	15.600	0.000	0.0	0.0000	0.0000	OK
30 minute summer	SWMBIC16	19	15.543	0.058	0.2	0.0092	0.0000	OK
30 minute summer	SWMBIC17	37	15.243	0.563	21.4	0.1593	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
30 minute summer	SWMBMN01	1.007	SW911	2.5	1.491	0.049	0.0192	33.5
30 minute summer	SWMBRE07	8.000	SWMBIC11	0.0	0.000	0.000	0.0499	
30 minute summer	SWMBIC16	3.000	SWMBIC04	0.4	0.224	0.024	0.0691	
30 minute summer	SWMBIC17	1.006	SWMBMN01	-21.4	-0.303	-0.270	1.5233	

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Results for 100 year +40% CC 60 minute summer. 300 minute analysis at 1 minute timestep. Mass balance: 99.63%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute summer	SWMBRE04	66	15.351	0.001	0.0	0.0000	0.0000	OK
60 minute summer	SWMBIC08	67	15.351	0.321	12.9	0.2510	0.0000	SURCHARGED
60 minute summer	SWMBIC09	65	15.351	0.621	101.2	0.4481	0.0000	SURCHARGED
60 minute summer	SWMBRE03	1	15.550	0.000	0.0	0.0000	0.0000	OK
60 minute summer	SWMBIC06	35	15.426	0.246	13.8	0.1594	0.0000	SURCHARGED
60 minute summer	SWMBIC07	67	15.351	0.486	79.0	0.3756	0.0000	SURCHARGED
60 minute summer	SWMBRE02	33	15.587	0.037	2.3	0.0125	0.0000	OK
60 minute summer	SWMBIC05	33	15.541	0.066	6.9	0.0301	0.0000	OK
60 minute summer	SWMBRE01	33	15.734	0.034	1.8	0.0103	0.0000	OK
60 minute summer	SWMBIC01	33	15.702	0.052	3.6	0.0147	0.0000	OK
60 minute summer	SWMBIC02	33	15.651	0.051	3.6	0.0080	0.0000	OK
60 minute summer	SWMBIC03	33	15.520	0.160	38.1	0.2329	0.0000	OK
60 minute summer	SWMBRE05	33	15.826	0.071	9.2	0.0590	0.0000	OK
60 minute summer	SWMBIC04	33	15.414	0.144	54.1	0.1346	0.0000	OK
60 minute summer	SWMBIC10	32	15.440	0.075	13.8	0.0776	0.0000	OK
60 minute summer	SWMBIC12	66	15.351	0.211	20.2	0.0598	0.0000	OK
60 minute summer	SWMBRE06	1	15.550	0.000	0.0	0.0000	0.0000	OK
60 minute summer	SWMBIC11	33	15.450	0.060	6.4	0.0286	0.0000	OK
60 minute summer	SWMBIC14	66	15.351	0.396	52.1	0.4433	0.0000	SURCHARGED
60 minute summer	SWMBIC13	33	15.579	0.044	6.4	0.0253	0.0000	OK
60 minute summer	SWMBRE08	1	15.600	0.000	0.0	0.0000	0.0000	OK
60 minute summer	SWMRE09	1	15.600	0.000	0.0	0.0000	0.0000	OK
60 minute summer	SWMBRE10	66	15.351	0.056	2.8	0.0096	0.0000	OK
60 minute summer	SWMBIC15	66	15.351	0.166	2.8	0.0264	0.0000	SURCHARGED
60 minute summer	TANK	65	15.351	0.651	165.7	168.9560	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
60 minute summer	SWMBRE04	6.000	SWMBIC08	0.0	-0.001	-0.001	0.3239	
60 minute summer	SWMBIC08	6.001	SWMBIC09	12.5	0.720	0.215	0.7146	
60 minute summer	SWMBIC09	1.004	TANK	100.2	1.423	1.432	0.5281	
60 minute summer	SWMBRE03	5.000	SWMBIC06	0.0	0.000	0.000	0.0669	
60 minute summer	SWMBIC06	4.002	SWMBIC07	12.3	0.981	0.726	0.3187	
60 minute summer	SWMBIC07	1.003	SWMBIC09	77.3	1.098	0.873	1.4902	
60 minute summer	SWMBRE02	4.000	SWMBIC05	2.3	0.433	0.132	0.0418	
60 minute summer	SWMBIC05	4.001	SWMBIC06	6.9	0.649	0.404	0.3995	
60 minute summer	SWMBRE01	2.000	SWMBIC01	1.8	0.433	0.112	0.0254	
60 minute summer	SWMBIC01	2.001	SWMBIC02	3.6	0.676	0.232	0.0347	
60 minute summer	SWMBIC02	2.002	SWMBIC03	3.6	0.710	0.228	0.0577	
60 minute summer	SWMBIC03	1.001	SWMBIC04	38.0	1.060	0.516	0.7280	
60 minute summer	SWMBRE05	1.000	SWMBIC03	9.2	0.792	0.218	0.5903	
60 minute summer	SWMBIC04	1.002	SWMBIC07	54.0	1.034	0.476	2.0188	
60 minute summer	SWMBIC10	9.000	SWMBIC12	13.8	0.929	0.237	0.3596	
60 minute summer	SWMBIC12	7.002	SWMBIC14	20.3	0.604	0.457	0.9947	
60 minute summer	SWMBRE06	7.000	SWMBIC11	0.0	0.000	0.000	0.0497	
60 minute summer	SWMBIC11	7.001	SWMBIC12	6.4	1.000	0.312	0.1157	
60 minute summer	SWMBIC14	7.003	TANK	52.0	1.318	1.227	0.2685	
60 minute summer	SWMBIC13	10.001	SWMBIC14	6.4	1.014	0.183	0.1444	
60 minute summer	SWMBRE08	11.000	SWMBIC13	0.0	0.000	0.000	0.0076	
60 minute summer	SWMRE09	10.000	SWMBIC13	0.0	0.000	0.000	0.0156	
60 minute summer	SWMBRE10	12.000	SWMBIC15	2.8	0.845	0.100	0.0523	
60 minute summer	SWMBIC15	12.001	SWMBIC14	2.8	0.498	0.155	0.2649	
60 minute summer	TANK	1.005	SWMBIC17	-14.4	0.482	-0.143	0.1723	

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Results for 100 year +40% CC 60 minute summer. 300 minute analysis at 1 minute timestep. Mass balance: 99.63%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute summer	SWMBMN01	66	15.351	0.781	18.4	1.2921	0.0000	SURCHARGED
60 minute summer	SW911	28	13.642	0.023	2.5	0.0000	0.0000	OK
60 minute summer	SWMBRE07	1	15.600	0.000	0.0	0.0000	0.0000	OK
60 minute summer	SWMBIC16	1	15.485	0.000	0.0	0.0000	0.0000	OK
60 minute summer	SWMBIC17	64	15.351	0.671	15.0	0.1900	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
60 minute summer	SWMBMN01	1.007	SW911	2.5	1.491	0.049	0.0193	39.4
60 minute summer	SWMBRE07	8.000	SWMBIC11	0.0	0.000	0.000	0.0412	
60 minute summer	SWMBIC16	3.000	SWMBIC04	0.0	0.000	0.000	0.0000	
60 minute summer	SWMBIC17	1.006	SWMBMN01	-15.0	-0.213	-0.190	1.5233	

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Results for 100 year +40% CC 120 minute summer. 360 minute analysis at 2 minute timestep. Mass balance: 99.24%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
120 minute summer	SWMBRE04	124	15.494	0.144	0.3	0.0026	0.0000	OK
120 minute summer	SWMBIC08	124	15.494	0.464	8.7	0.3631	0.0000	SURCHARGED
120 minute summer	SWMBIC09	124	15.494	0.764	69.5	0.5515	0.0000	SURCHARGED
120 minute summer	SWMBRE03	2	15.550	0.000	0.0	0.0000	0.0000	OK
120 minute summer	SWMBIC06	126	15.493	0.313	9.4	0.2034	0.0000	SURCHARGED
120 minute summer	SWMBIC07	124	15.494	0.629	54.6	0.4859	0.0000	SURCHARGED
120 minute summer	SWMBRE02	64	15.581	0.031	1.6	0.0104	0.0000	OK
120 minute summer	SWMBIC05	64	15.529	0.054	4.7	0.0244	0.0000	OK
120 minute summer	SWMBRE01	64	15.728	0.028	1.2	0.0084	0.0000	OK
120 minute summer	SWMBIC01	64	15.692	0.042	2.4	0.0118	0.0000	OK
120 minute summer	SWMBIC02	64	15.641	0.041	2.4	0.0065	0.0000	OK
120 minute summer	SWMBIC03	128	15.493	0.133	25.7	0.1938	0.0000	OK
120 minute summer	SWMBRE05	64	15.814	0.059	6.2	0.0489	0.0000	OK
120 minute summer	SWMBIC04	124	15.493	0.223	36.6	0.2086	0.0000	OK
120 minute summer	SWMBIC10	126	15.494	0.129	9.3	0.1330	0.0000	OK
120 minute summer	SWMBIC12	126	15.494	0.354	13.6	0.1001	0.0000	SURCHARGED
120 minute summer	SWMBRE06	2	15.550	0.000	0.0	0.0000	0.0000	OK
120 minute summer	SWMBIC11	126	15.494	0.104	4.3	0.0493	0.0000	OK
120 minute summer	SWMBIC14	124	15.494	0.539	35.3	0.6035	0.0000	SURCHARGED
120 minute summer	SWMBIC13	64	15.571	0.036	4.3	0.0207	0.0000	OK
120 minute summer	SWMBRE08	2	15.600	0.000	0.0	0.0000	0.0000	OK
120 minute summer	SWMRE09	2	15.600	0.000	0.0	0.0000	0.0000	OK
120 minute summer	SWMBRE10	126	15.494	0.199	1.9	0.0338	0.0000	SURCHARGED
120 minute summer	SWMBIC15	126	15.494	0.309	1.9	0.0491	0.0000	SURCHARGED
120 minute summer	TANK	124	15.494	0.794	111.7	206.0655	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
120 minute summer	SWMBRE04	6.000	SWMBIC08	-0.3	-0.032	-0.023	0.6431	
120 minute summer	SWMBIC08	6.001	SWMBIC09	7.8	0.643	0.134	0.7146	
120 minute summer	SWMBIC09	1.004	TANK	68.9	1.167	0.985	0.5281	
120 minute summer	SWMBRE03	5.000	SWMBIC06	0.0	0.000	0.000	0.0669	
120 minute summer	SWMBIC06	4.002	SWMBIC07	9.1	0.925	0.539	0.3187	
120 minute summer	SWMBIC07	1.003	SWMBIC09	53.3	0.769	0.601	1.4902	
120 minute summer	SWMBRE02	4.000	SWMBIC05	1.6	0.396	0.092	0.0318	
120 minute summer	SWMBIC05	4.001	SWMBIC06	4.7	0.620	0.275	0.3518	
120 minute summer	SWMBRE01	2.000	SWMBIC01	1.2	0.389	0.074	0.0188	
120 minute summer	SWMBIC01	2.001	SWMBIC02	2.4	0.610	0.155	0.0257	
120 minute summer	SWMBIC02	2.002	SWMBIC03	2.4	0.636	0.152	0.0429	
120 minute summer	SWMBIC03	1.001	SWMBIC04	25.7	0.960	0.348	0.8778	
120 minute summer	SWMBRE05	1.000	SWMBIC03	6.2	0.762	0.147	0.3921	
120 minute summer	SWMBIC04	1.002	SWMBIC07	36.6	0.974	0.322	2.4624	
120 minute summer	SWMBIC10	9.000	SWMBIC12	9.3	0.843	0.159	0.5665	
120 minute summer	SWMBIC12	7.002	SWMBIC14	13.6	0.565	0.307	1.0078	
120 minute summer	SWMBRE06	7.000	SWMBIC11	0.0	0.000	0.000	0.0981	
120 minute summer	SWMBIC11	7.001	SWMBIC12	4.3	0.900	0.210	0.2020	
120 minute summer	SWMBIC14	7.003	TANK	34.0	1.098	0.803	0.2685	
120 minute summer	SWMBIC13	10.001	SWMBIC14	4.3	1.023	0.123	0.1365	
120 minute summer	SWMBRE08	11.000	SWMBIC13	0.0	0.000	0.000	0.0057	
120 minute summer	SWMRE09	10.000	SWMBIC13	0.0	0.000	0.000	0.0118	
120 minute summer	SWMBRE10	12.000	SWMBIC15	1.9	0.762	0.068	0.0780	
120 minute summer	SWMBIC15	12.001	SWMBIC14	1.9	0.494	0.105	0.2649	
120 minute summer	TANK	1.005	SWMBIC17	-9.1	0.507	-0.090	0.1723	

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Results for 100 year +40% CC 120 minute summer. 360 minute analysis at 2 minute timestep. Mass balance: 99.24%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
120 minute summer	SWMBMN01	124	15.495	0.925	12.4	1.5307	0.0000	SURCHARGED
120 minute summer	SW911	50	13.642	0.023	2.5	0.0000	0.0000	OK
120 minute summer	SWMBRE07	2	15.600	0.000	0.0	0.0000	0.0000	OK
120 minute summer	SWMBIC16	124	15.493	0.008	0.0	0.0013	0.0000	OK
120 minute summer	SWMBIC17	124	15.494	0.814	9.5	0.2303	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
120 minute summer	SWMBMN01	1.007	SW911	2.5	1.491	0.049	0.0193	50.3
120 minute summer	SWMBRE07	8.000	SWMBIC11	0.0	0.000	0.000	0.0812	
120 minute summer	SWMBIC16	3.000	SWMBIC04	0.0	-0.014	-0.002	0.0292	
120 minute summer	SWMBIC17	1.006	SWMBMN01	-9.5	-0.135	-0.120	1.5233	

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Results for 100 year +40% CC 180 minute summer. 420 minute analysis at 4 minute timestep. Mass balance: 99.09%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
180 minute summer	SWMBRE04	184	15.568	0.218	0.5	0.0039	0.0000	SURCHARGED
180 minute summer	SWMBIC08	184	15.568	0.538	6.6	0.4213	0.0000	SURCHARGED
180 minute summer	SWMBIC09	184	15.568	0.838	52.2	0.6051	0.0000	SURCHARGED
180 minute summer	SWMBRE03	184	15.568	0.018	0.0	0.0029	0.0000	OK
180 minute summer	SWMBIC06	184	15.568	0.388	7.0	0.2518	0.0000	SURCHARGED
180 minute summer	SWMBIC07	184	15.568	0.703	41.0	0.5434	0.0000	SURCHARGED
180 minute summer	SWMBRE02	96	15.577	0.027	1.2	0.0091	0.0000	OK
180 minute summer	SWMBIC05	184	15.568	0.093	3.5	0.0423	0.0000	OK
180 minute summer	SWMBRE01	96	15.724	0.024	0.9	0.0073	0.0000	OK
180 minute summer	SWMBIC01	96	15.686	0.036	1.8	0.0101	0.0000	OK
180 minute summer	SWMBIC02	96	15.635	0.035	1.8	0.0056	0.0000	OK
180 minute summer	SWMBIC03	184	15.568	0.208	19.4	0.3020	0.0000	OK
180 minute summer	SWMBRE05	96	15.806	0.051	4.7	0.0425	0.0000	OK
180 minute summer	SWMBIC04	184	15.568	0.298	27.6	0.2782	0.0000	OK
180 minute summer	SWMBIC10	184	15.568	0.203	7.0	0.2096	0.0000	OK
180 minute summer	SWMBIC12	184	15.568	0.428	10.3	0.1211	0.0000	SURCHARGED
180 minute summer	SWMBRE06	188	15.568	0.018	0.0	0.0028	0.0000	OK
180 minute summer	SWMBIC11	188	15.568	0.178	3.3	0.0845	0.0000	SURCHARGED
180 minute summer	SWMBIC14	184	15.568	0.613	26.7	0.6866	0.0000	SURCHARGED
180 minute summer	SWMBIC13	184	15.568	0.033	3.3	0.0191	0.0000	OK
180 minute summer	SWMBRE08	4	15.600	0.000	0.0	0.0000	0.0000	OK
180 minute summer	SWMRE09	4	15.600	0.000	0.0	0.0000	0.0000	OK
180 minute summer	SWMBRE10	184	15.568	0.273	1.4	0.0464	0.0000	SURCHARGED
180 minute summer	SWMBIC15	184	15.568	0.383	1.4	0.0609	0.0000	SURCHARGED
180 minute summer	TANK	184	15.568	0.868	83.9	225.3152	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
180 minute summer	SWMBRE04	6.000	SWMBIC08	-0.5	-0.045	-0.033	0.6472	
180 minute summer	SWMBIC08	6.001	SWMBIC09	5.4	0.596	0.094	0.7146	
180 minute summer	SWMBIC09	1.004	TANK	51.8	1.059	0.741	0.5281	
180 minute summer	SWMBRE03	5.000	SWMBIC06	0.0	0.004	0.001	0.0715	
180 minute summer	SWMBIC06	4.002	SWMBIC07	6.8	0.851	0.403	0.3187	
180 minute summer	SWMBIC07	1.003	SWMBIC09	39.7	0.614	0.448	1.4902	
180 minute summer	SWMBRE02	4.000	SWMBIC05	1.2	0.366	0.069	0.0489	
180 minute summer	SWMBIC05	4.001	SWMBIC06	3.5	0.577	0.205	0.4630	
180 minute summer	SWMBRE01	2.000	SWMBIC01	0.9	0.360	0.056	0.0153	
180 minute summer	SWMBIC01	2.001	SWMBIC02	1.8	0.566	0.116	0.0207	
180 minute summer	SWMBIC02	2.002	SWMBIC03	1.8	0.587	0.114	0.0376	
180 minute summer	SWMBIC03	1.001	SWMBIC04	19.4	0.892	0.263	1.2424	
180 minute summer	SWMBRE05	1.000	SWMBIC03	4.7	0.705	0.111	0.6108	
180 minute summer	SWMBIC04	1.002	SWMBIC07	27.6	0.883	0.243	2.7361	
180 minute summer	SWMBIC10	9.000	SWMBIC12	7.0	0.777	0.120	0.6940	
180 minute summer	SWMBIC12	7.002	SWMBIC14	10.3	0.519	0.232	1.0078	
180 minute summer	SWMBRE06	7.000	SWMBIC11	0.0	-0.003	-0.001	0.1418	
180 minute summer	SWMBIC11	7.001	SWMBIC12	3.3	0.838	0.161	0.2324	
180 minute summer	SWMBIC14	7.003	TANK	25.5	0.980	0.603	0.2685	
180 minute summer	SWMBIC13	10.001	SWMBIC14	3.3	1.015	0.095	0.1353	
180 minute summer	SWMBRE08	11.000	SWMBIC13	0.0	0.000	0.000	0.0051	
180 minute summer	SWMRE09	10.000	SWMBIC13	0.0	0.000	0.000	0.0105	
180 minute summer	SWMBRE10	12.000	SWMBIC15	1.4	0.701	0.050	0.0780	
180 minute summer	SWMBIC15	12.001	SWMBIC14	1.4	0.473	0.078	0.2649	
180 minute summer	TANK	1.005	SWMBIC17	-6.5	0.511	-0.065	0.1723	

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Results for 100 year +40% CC 180 minute summer. 420 minute analysis at 4 minute timestep. Mass balance: 99.09%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
180 minute summer	SWMBMN01	188	15.567	0.997	9.4	1.6496	0.0000	SURCHARGED
180 minute summer	SW911	192	13.642	0.023	2.6	0.0000	0.0000	OK
180 minute summer	SWMBRE07	4	15.600	0.000	0.0	0.0000	0.0000	OK
180 minute summer	SWMBIC16	184	15.568	0.083	0.0	0.0132	0.0000	OK
180 minute summer	SWMBIC17	188	15.567	0.887	6.8	0.2511	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
180 minute summer	SWMBMN01	1.007	SW911	2.6	1.505	0.050	0.0197	59.9
180 minute summer	SWMBRE07	8.000	SWMBIC11	0.0	0.000	0.000	0.1100	
180 minute summer	SWMBIC16	3.000	SWMBIC04	0.0	-0.017	-0.003	0.0898	
180 minute summer	SWMBIC17	1.006	SWMBMN01	-6.8	0.126	-0.086	1.5233	

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Results for 1 year Critical Storm Duration. Lowest 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	SWMBRE04	4	15.350	0.000	0.0	0.0000	0.0000	OK
240 minute summer	SWMBIC08	124	15.050	0.020	0.9	0.0153	0.0000	OK
240 minute summer	SWMBIC09	164	14.799	0.069	7.3	0.0495	0.0000	OK
240 minute summer	SWMBRE03	4	15.550	0.000	0.0	0.0000	0.0000	OK
240 minute summer	SWMBIC06	124	15.204	0.024	1.0	0.0156	0.0000	OK
240 minute summer	SWMBIC07	124	14.915	0.050	5.5	0.0385	0.0000	OK
240 minute summer	SWMBRE02	124	15.561	0.011	0.2	0.0038	0.0000	OK
240 minute summer	SWMBIC05	124	15.492	0.017	0.5	0.0078	0.0000	OK
240 minute summer	SWMBRE01	112	15.709	0.009	0.1	0.0026	0.0000	OK
240 minute summer	SWMBIC01	104	15.662	0.012	0.2	0.0034	0.0000	OK
240 minute summer	SWMBIC02	112	15.612	0.012	0.2	0.0019	0.0000	OK
240 minute summer	SWMBIC03	124	15.398	0.038	2.5	0.0555	0.0000	OK
240 minute summer	SWMBRE05	128	15.774	0.019	0.6	0.0157	0.0000	OK
240 minute summer	SWMBIC04	124	15.306	0.036	3.6	0.0338	0.0000	OK
240 minute summer	SWMBIC10	124	15.385	0.020	0.9	0.0202	0.0000	OK
240 minute summer	SWMBIC12	128	15.166	0.026	1.3	0.0075	0.0000	OK
240 minute summer	SWMBRE06	4	15.550	0.000	0.0	0.0000	0.0000	OK
240 minute summer	SWMBIC11	128	15.405	0.015	0.4	0.0070	0.0000	OK
240 minute summer	SWMBIC14	124	15.001	0.046	3.5	0.0512	0.0000	OK
240 minute summer	SWMBIC13	124	15.546	0.011	0.4	0.0067	0.0000	OK
240 minute summer	SWMBRE08	4	15.600	0.000	0.0	0.0000	0.0000	OK
240 minute summer	SWMRE09	4	15.600	0.000	0.0	0.0000	0.0000	OK
240 minute summer	SWMBRE10	124	15.304	0.009	0.2	0.0016	0.0000	OK
240 minute summer	SWMBIC15	128	15.196	0.011	0.2	0.0018	0.0000	OK
240 minute summer	TANK	168	14.798	0.098	10.7	25.5080	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)
240 minute summer	SWMBRE04	6.000	SWMBIC08	0.0	0.000	0.000	0.0000	
240 minute summer	SWMBIC08	6.001	SWMBIC09	0.9	0.536	0.015	0.0297	
240 minute summer	SWMBIC09	1.004	TANK	7.2	0.736	0.103	0.1205	
240 minute summer	SWMBRE03	5.000	SWMBIC06	0.0	0.000	0.000	0.0069	
240 minute summer	SWMBIC06	4.002	SWMBIC07	0.9	0.511	0.054	0.0326	
240 minute summer	SWMBIC07	1.003	SWMBIC09	5.4	0.562	0.061	0.2069	
240 minute summer	SWMBRE02	4.000	SWMBIC05	0.2	0.226	0.011	0.0065	
240 minute summer	SWMBIC05	4.001	SWMBIC06	0.5	0.324	0.028	0.0466	
240 minute summer	SWMBRE01	2.000	SWMBIC01	0.1	0.192	0.006	0.0032	
240 minute summer	SWMBIC01	2.001	SWMBIC02	0.2	0.347	0.013	0.0043	
240 minute summer	SWMBIC02	2.002	SWMBIC03	0.2	0.308	0.013	0.0074	
240 minute summer	SWMBIC03	1.001	SWMBIC04	2.5	0.496	0.034	0.1016	
240 minute summer	SWMBRE05	1.000	SWMBIC03	0.6	0.383	0.014	0.0757	
240 minute summer	SWMBIC04	1.002	SWMBIC07	3.6	0.574	0.031	0.2423	
240 minute summer	SWMBIC10	9.000	SWMBIC12	0.9	0.426	0.015	0.0381	
240 minute summer	SWMBIC12	7.002	SWMBIC14	1.3	0.321	0.029	0.1060	
240 minute summer	SWMBRE06	7.000	SWMBIC11	0.0	0.000	0.000	0.0067	
240 minute summer	SWMBIC11	7.001	SWMBIC12	0.4	0.455	0.020	0.0116	
240 minute summer	SWMBIC14	7.003	TANK	3.5	0.628	0.082	0.0375	
240 minute summer	SWMBIC13	10.001	SWMBIC14	0.4	0.657	0.011	0.0081	
240 minute summer	SWMBRE08	11.000	SWMBIC13	0.0	0.000	0.000	0.0011	
240 minute summer	SWMRE09	10.000	SWMBIC13	0.0	0.000	0.000	0.0023	
240 minute summer	SWMBRE10	12.000	SWMBIC15	0.2	0.413	0.007	0.0023	
240 minute summer	SWMBIC15	12.001	SWMBIC14	0.2	0.337	0.011	0.0089	
240 minute summer	TANK	1.005	SWMBIC17	2.4	0.496	0.024	0.0561	

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Results for 1 year Critical Storm Duration. Lowest 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	SWMBMN01	168	14.798	0.228	3.2	0.3777	0.0000	SURCHARGED
240 minute summer	SW911	168	13.641	0.022	2.5	0.0000	0.0000	OK
240 minute summer	SWMBRE07	4	15.600	0.000	0.0	0.0000	0.0000	OK
240 minute summer	SWMBIC16	4	15.485	0.000	0.0	0.0000	0.0000	OK
240 minute summer	SWMBIC17	168	14.798	0.118	2.4	0.0335	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)
240 minute summer	SWMBMN01	1.007	SW911	2.5	1.485	0.048	0.0191	42.8
240 minute summer	SWMBRE07	8.000	SWMBIC11	0.0	0.000	0.000	0.0055	
240 minute summer	SWMBIC16	3.000	SWMBIC04	0.0	0.000	0.000	0.0000	
240 minute summer	SWMBIC17	1.006	SWMBMN01	2.4	0.148	0.030	0.9011	

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Results for 30 year Critical Storm Duration. Lowest mass balance: 99.96%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
240 minute summer	SWMBRE04	4	15.350	0.000	0.0	0.0000	0.0000	OK
240 minute summer	SWMBIC08	244	15.166	0.136	3.0	0.1067	0.0000	OK
240 minute summer	SWMBIC09	244	15.166	0.436	25.1	0.3150	0.0000	SURCHARGED
240 minute summer	SWMBRE03	4	15.550	0.000	0.0	0.0000	0.0000	OK
240 minute summer	SWMBIC06	124	15.225	0.045	3.2	0.0291	0.0000	OK
240 minute summer	SWMBIC07	244	15.166	0.301	18.9	0.2328	0.0000	SURCHARGED
240 minute summer	SWMBRE02	124	15.567	0.017	0.5	0.0060	0.0000	OK
240 minute summer	SWMBIC05	124	15.506	0.031	1.6	0.0140	0.0000	OK
240 minute summer	SWMBRE01	124	15.716	0.016	0.4	0.0050	0.0000	OK
240 minute summer	SWMBIC01	124	15.674	0.024	0.8	0.0067	0.0000	OK
240 minute summer	SWMBIC02	128	15.623	0.023	0.8	0.0037	0.0000	OK
240 minute summer	SWMBIC03	124	15.431	0.071	8.8	0.1039	0.0000	OK
240 minute summer	SWMBRE05	124	15.789	0.034	2.1	0.0283	0.0000	OK
240 minute summer	SWMBIC04	124	15.337	0.067	12.5	0.0622	0.0000	OK
240 minute summer	SWMBIC10	124	15.401	0.036	3.2	0.0368	0.0000	OK
240 minute summer	SWMBIC12	124	15.189	0.049	4.7	0.0138	0.0000	OK
240 minute summer	SWMBRE06	4	15.550	0.000	0.0	0.0000	0.0000	OK
240 minute summer	SWMBIC11	124	15.418	0.028	1.5	0.0132	0.0000	OK
240 minute summer	SWMBIC14	244	15.166	0.211	12.1	0.2366	0.0000	OK
240 minute summer	SWMBIC13	124	15.557	0.022	1.5	0.0125	0.0000	OK
240 minute summer	SWMBRE08	4	15.600	0.000	0.0	0.0000	0.0000	OK
240 minute summer	SWMRE09	4	15.600	0.000	0.0	0.0000	0.0000	OK
240 minute summer	SWMBRE10	124	15.310	0.015	0.6	0.0026	0.0000	OK
240 minute summer	SWMBIC15	128	15.204	0.019	0.6	0.0030	0.0000	OK
240 minute summer	TANK	244	15.166	0.466	37.4	121.0173	0.0000	SURCHARGED

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
240 minute summer	SWMBRE04	6.000	SWMBIC08	0.0	0.000	0.000	0.1243	
240 minute summer	SWMBIC08	6.001	SWMBIC09	3.0	0.623	0.051	0.5832	
240 minute summer	SWMBIC09	1.004	TANK	24.1	0.822	0.345	0.5281	
240 minute summer	SWMBRE03	5.000	SWMBIC06	0.0	0.000	0.000	0.0168	
240 minute summer	SWMBIC06	4.002	SWMBIC07	3.2	0.727	0.186	0.1673	
240 minute summer	SWMBIC07	1.003	SWMBIC09	18.8	0.608	0.212	1.4898	
240 minute summer	SWMBRE02	4.000	SWMBIC05	0.5	0.280	0.029	0.0145	
240 minute summer	SWMBIC05	4.001	SWMBIC06	1.6	0.456	0.093	0.1118	
240 minute summer	SWMBRE01	2.000	SWMBIC01	0.4	0.287	0.025	0.0085	
240 minute summer	SWMBIC01	2.001	SWMBIC02	0.8	0.454	0.052	0.0115	
240 minute summer	SWMBIC02	2.002	SWMBIC03	0.8	0.466	0.051	0.0195	
240 minute summer	SWMBIC03	1.001	SWMBIC04	8.7	0.715	0.118	0.2480	
240 minute summer	SWMBRE05	1.000	SWMBIC03	2.1	0.555	0.049	0.1800	
240 minute summer	SWMBIC04	1.002	SWMBIC07	12.5	0.832	0.110	1.4100	
240 minute summer	SWMBIC10	9.000	SWMBIC12	3.2	0.620	0.055	0.0927	
240 minute summer	SWMBIC12	7.002	SWMBIC14	4.6	0.451	0.105	0.5232	
240 minute summer	SWMBRE06	7.000	SWMBIC11	0.0	0.000	0.000	0.0170	
240 minute summer	SWMBIC11	7.001	SWMBIC12	1.5	0.669	0.073	0.0293	
240 minute summer	SWMBIC14	7.003	TANK	12.1	0.875	0.285	0.2650	
240 minute summer	SWMBIC13	10.001	SWMBIC14	1.5	0.975	0.043	0.1126	
240 minute summer	SWMBRE08	11.000	SWMBIC13	0.0	0.000	0.000	0.0028	
240 minute summer	SWMRE09	10.000	SWMBIC13	0.0	0.000	0.000	0.0057	
240 minute summer	SWMBRE10	12.000	SWMBIC15	0.6	0.546	0.021	0.0049	
240 minute summer	SWMBIC15	12.001	SWMBIC14	0.6	0.470	0.033	0.1288	
240 minute summer	TANK	1.005	SWMBIC17	5.6	0.500	0.056	0.1723	

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Results for 30 year Critical Storm Duration. Lowest mass balance: 99.96%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
240 minute summer	SWMBMN01	244	15.166	0.596	4.3	0.9855	0.0000	SURCHARGED
240 minute summer	SW911	116	13.642	0.023	2.5	0.0000	0.0000	OK
240 minute summer	SWMBRE07	4	15.600	0.000	0.0	0.0000	0.0000	OK
240 minute summer	SWMBIC16	4	15.485	0.000	0.0	0.0000	0.0000	OK
240 minute summer	SWMBIC17	244	15.163	0.483	5.6	0.1368	0.0000	SURCHARGED

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
240 minute summer	SWMBMN01	1.007	SW911	2.5	1.491	0.049	0.0193	59.7
240 minute summer	SWMBRE07	8.000	SWMBIC11	0.0	0.000	0.000	0.0141	
240 minute summer	SWMBIC16	3.000	SWMBIC04	0.0	0.000	0.000	0.0000	
240 minute summer	SWMBIC17	1.006	SWMBMN01	2.8	0.137	0.035	1.5233	

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Results for 100 year +40% CC Critical Storm Duration. Lowest mass balance: 98.31%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
480 minute summer	SWMBRE04	480	16.000	0.650	0.4	0.0117	0.0000	FLOOD RISK
480 minute summer	SWMBIC08	472	16.000	0.970	3.2	0.7598	0.0000	FLOOD RISK
480 minute summer	SWMBIC09	472	16.000	1.270	25.7	0.9173	0.0000	FLOOD RISK
480 minute summer	SWMBRE03	480	16.000	0.450	0.3	0.0715	0.0000	FLOOD RISK
480 minute summer	SWMBIC06	472	16.000	0.820	3.5	0.5322	0.7865	FLOOD
480 minute summer	SWMBIC07	472	16.001	1.136	20.4	0.8781	0.0000	FLOOD RISK
480 minute summer	SWMBRE02	480	16.000	0.450	0.6	0.1535	0.0000	FLOOD RISK
480 minute summer	SWMBIC05	480	16.000	0.525	1.8	0.2389	0.0000	FLOOD RISK
480 minute summer	SWMBRE01	472	16.001	0.301	0.5	0.0916	0.0000	FLOOD RISK
480 minute summer	SWMBIC01	472	16.001	0.351	1.0	0.0991	0.0000	FLOOD RISK
480 minute summer	SWMBIC02	472	16.001	0.401	1.0	0.0638	0.0000	FLOOD RISK
480 minute summer	SWMBIC03	472	16.001	0.641	9.6	0.9319	0.0000	FLOOD RISK
480 minute summer	SWMBRE05	472	16.002	0.247	2.3	0.2058	0.0000	SURCHARGED
480 minute summer	SWMBIC04	472	16.001	0.731	13.6	0.6830	0.0000	SURCHARGED
480 minute summer	SWMBIC10	472	16.001	0.636	3.5	0.6565	0.0000	FLOOD RISK
480 minute summer	SWMBIC12	472	16.001	0.861	5.1	0.2435	0.0000	FLOOD RISK
480 minute summer	SWMBRE06	464	16.001	0.451	0.2	0.0717	0.0000	SURCHARGED
480 minute summer	SWMBIC11	464	16.001	0.611	1.6	0.2902	0.0000	FLOOD RISK
480 minute summer	SWMBIC14	472	16.001	1.046	13.1	1.1710	0.0000	FLOOD RISK
480 minute summer	SWMBIC13	472	16.000	0.465	1.6	0.2700	0.0000	FLOOD RISK
480 minute summer	SWMBRE08	472	16.000	0.400	0.2	0.0637	0.0000	FLOOD RISK
480 minute summer	SWMRE09	472	16.001	0.401	0.2	0.0637	0.0000	FLOOD RISK
480 minute summer	SWMBRE10	472	16.001	0.706	0.7	0.1200	0.0000	FLOOD RISK
480 minute summer	SWMBIC15	472	16.001	0.816	0.7	0.1297	0.0000	FLOOD RISK
480 minute summer	TANK	472	16.001	1.301	40.0	237.4080	0.0000	FLOOD RISK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
480 minute summer	SWMBRE04	6.000	SWMBIC08	-0.4	-0.022	-0.026	0.6472	
480 minute summer	SWMBIC08	6.001	SWMBIC09	2.7	0.496	0.047	0.7146	
480 minute summer	SWMBIC09	1.004	TANK	25.6	0.846	0.365	0.5281	
480 minute summer	SWMBRE03	5.000	SWMBIC06	-0.3	-0.016	-0.007	0.1338	
480 minute summer	SWMBIC06	4.002	SWMBIC07	3.4	0.685	0.203	0.3187	
480 minute summer	SWMBIC07	1.003	SWMBIC09	19.7	0.464	0.223	1.4902	
480 minute summer	SWMBRE02	4.000	SWMBIC05	0.6	0.296	0.034	0.1362	
480 minute summer	SWMBIC05	4.001	SWMBIC06	1.8	0.486	0.105	0.5608	
480 minute summer	SWMBRE01	2.000	SWMBIC01	0.5	0.306	0.031	0.1064	
480 minute summer	SWMBIC01	2.001	SWMBIC02	1.0	0.483	0.064	0.1148	
480 minute summer	SWMBIC02	2.002	SWMBIC03	1.0	0.496	0.063	0.2001	
480 minute summer	SWMBIC03	1.001	SWMBIC04	9.6	0.737	0.130	1.4293	
480 minute summer	SWMBRE05	1.000	SWMBIC03	2.3	0.573	0.054	1.9199	
480 minute summer	SWMBIC04	1.002	SWMBIC07	13.6	0.683	0.120	2.7377	
480 minute summer	SWMBIC10	9.000	SWMBIC12	3.5	0.638	0.060	0.7124	
480 minute summer	SWMBIC12	7.002	SWMBIC14	5.0	0.397	0.114	1.0078	
480 minute summer	SWMBRE06	7.000	SWMBIC11	-0.2	0.010	-0.009	0.2657	
480 minute summer	SWMBIC11	7.001	SWMBIC12	1.6	0.682	0.079	0.2324	
480 minute summer	SWMBIC14	7.003	TANK	12.3	0.764	0.291	0.2685	
480 minute summer	SWMBIC13	10.001	SWMBIC14	1.6	0.912	0.046	0.2328	
480 minute summer	SWMBRE08	11.000	SWMBIC13	-0.2	-0.021	-0.010	0.0628	
480 minute summer	SWMRE09	10.000	SWMBIC13	-0.2	-0.019	-0.014	0.1297	
480 minute summer	SWMBRE10	12.000	SWMBIC15	0.7	0.573	0.025	0.0780	
480 minute summer	SWMBIC15	12.001	SWMBIC14	0.7	0.442	0.038	0.2649	
480 minute summer	TANK	1.005	SWMBIC17	10.2	0.482	0.101	0.1723	

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Results for 100 year +40% CC Critical Storm Duration. Lowest mass balance: 98.31%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
480 minute summer	SWMBMN01	472	16.000	1.430	4.6	2.3653	0.0000	FLOOD RISK
480 minute summer	SW911	472	13.644	0.025	3.0	0.0000	0.0000	OK
480 minute summer	SWMBRE07	472	16.000	0.400	0.1	0.0072	0.0000	FLOOD RISK
480 minute summer	SWMBIC16	472	16.001	0.516	0.2	0.0821	0.0000	FLOOD RISK
480 minute summer	SWMBIC17	472	16.000	1.320	10.2	0.3736	0.0000	FLOOD RISK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
480 minute summer	SWMBMN01	1.007	SW911	3.0	1.577	0.059	0.0222	106.4
480 minute summer	SWMBRE07	8.000	SWMBIC11	-0.1	-0.008	-0.006	0.2201	
480 minute summer	SWMBIC16	3.000	SWMBIC04	0.2	-0.023	0.009	0.1148	
480 minute summer	SWMBIC17	1.006	SWMBMN01	3.5	0.140	0.044	1.5233	

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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	SWMBRE04	4	15.350	0.000	0.0	0.0000	0.0000	OK
240 minute summer	SWMBIC08	124	15.050	0.020	0.9	0.0153	0.0000	OK
240 minute summer	SWMBIC09	164	14.799	0.069	7.3	0.0495	0.0000	OK
240 minute summer	SWMBRE03	4	15.550	0.000	0.0	0.0000	0.0000	OK
240 minute summer	SWMBIC06	124	15.204	0.024	1.0	0.0156	0.0000	OK
240 minute summer	SWMBIC07	124	14.915	0.050	5.5	0.0385	0.0000	OK
240 minute summer	SWMBRE02	124	15.561	0.011	0.2	0.0038	0.0000	OK
240 minute summer	SWMBIC05	124	15.492	0.017	0.5	0.0078	0.0000	OK
240 minute summer	SWMBRE01	112	15.709	0.009	0.1	0.0026	0.0000	OK
240 minute summer	SWMBIC01	104	15.662	0.012	0.2	0.0034	0.0000	OK
240 minute summer	SWMBIC02	112	15.612	0.012	0.2	0.0019	0.0000	OK
240 minute summer	SWMBIC03	124	15.398	0.038	2.5	0.0555	0.0000	OK
240 minute summer	SWMBRE05	128	15.774	0.019	0.6	0.0157	0.0000	OK
240 minute summer	SWMBIC04	124	15.306	0.036	3.6	0.0338	0.0000	OK
240 minute summer	SWMBIC10	124	15.385	0.020	0.9	0.0202	0.0000	OK
240 minute summer	SWMBIC12	128	15.166	0.026	1.3	0.0075	0.0000	OK
240 minute summer	SWMBRE06	4	15.550	0.000	0.0	0.0000	0.0000	OK
240 minute summer	SWMBIC11	128	15.405	0.015	0.4	0.0070	0.0000	OK
240 minute summer	SWMBIC14	124	15.001	0.046	3.5	0.0512	0.0000	OK
240 minute summer	SWMBIC13	124	15.546	0.011	0.4	0.0067	0.0000	OK
240 minute summer	SWMBRE08	4	15.600	0.000	0.0	0.0000	0.0000	OK
240 minute summer	SWMRE09	4	15.600	0.000	0.0	0.0000	0.0000	OK
240 minute summer	SWMBRE10	124	15.304	0.009	0.2	0.0016	0.0000	OK
240 minute summer	SWMBIC15	128	15.196	0.011	0.2	0.0018	0.0000	OK
240 minute summer	TANK	168	14.798	0.098	10.7	25.5080	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	SWMBRE04	6.000	SWMBIC08	0.0	0.000	0.000	0.0000	
240 minute summer	SWMBIC08	6.001	SWMBIC09	0.9	0.536	0.015	0.0297	
240 minute summer	SWMBIC09	1.004	TANK	7.2	0.736	0.103	0.1205	
240 minute summer	SWMBRE03	5.000	SWMBIC06	0.0	0.000	0.000	0.0069	
240 minute summer	SWMBIC06	4.002	SWMBIC07	0.9	0.511	0.054	0.0326	
240 minute summer	SWMBIC07	1.003	SWMBIC09	5.4	0.562	0.061	0.2069	
240 minute summer	SWMBRE02	4.000	SWMBIC05	0.2	0.226	0.011	0.0065	
240 minute summer	SWMBIC05	4.001	SWMBIC06	0.5	0.324	0.028	0.0466	
240 minute summer	SWMBRE01	2.000	SWMBIC01	0.1	0.192	0.006	0.0032	
240 minute summer	SWMBIC01	2.001	SWMBIC02	0.2	0.347	0.013	0.0043	
240 minute summer	SWMBIC02	2.002	SWMBIC03	0.2	0.308	0.013	0.0074	
240 minute summer	SWMBIC03	1.001	SWMBIC04	2.5	0.496	0.034	0.1016	
240 minute summer	SWMBRE05	1.000	SWMBIC03	0.6	0.383	0.014	0.0757	
240 minute summer	SWMBIC04	1.002	SWMBIC07	3.6	0.574	0.031	0.2423	
240 minute summer	SWMBIC10	9.000	SWMBIC12	0.9	0.426	0.015	0.0381	
240 minute summer	SWMBIC12	7.002	SWMBIC14	1.3	0.321	0.029	0.1060	
240 minute summer	SWMBRE06	7.000	SWMBIC11	0.0	0.000	0.000	0.0067	
240 minute summer	SWMBIC11	7.001	SWMBIC12	0.4	0.455	0.020	0.0116	
240 minute summer	SWMBIC14	7.003	TANK	3.5	0.628	0.082	0.0375	
240 minute summer	SWMBIC13	10.001	SWMBIC14	0.4	0.657	0.011	0.0081	
240 minute summer	SWMBRE08	11.000	SWMBIC13	0.0	0.000	0.000	0.0011	
240 minute summer	SWMRE09	10.000	SWMBIC13	0.0	0.000	0.000	0.0023	
240 minute summer	SWMBRE10	12.000	SWMBIC15	0.2	0.413	0.007	0.0023	
240 minute summer	SWMBIC15	12.001	SWMBIC14	0.2	0.337	0.011	0.0089	
240 minute summer	TANK	1.005	SWMBIC17	2.4	0.496	0.024	0.0561	

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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	SWMBMN01	168	14.798	0.228	3.2	0.3777	0.0000	SURCHARGED
240 minute summer	SW911	168	13.641	0.022	2.5	0.0000	0.0000	OK
240 minute summer	SWMBRE07	4	15.600	0.000	0.0	0.0000	0.0000	OK
240 minute summer	SWMBIC16	4	15.485	0.000	0.0	0.0000	0.0000	OK
240 minute summer	SWMBIC17	168	14.798	0.118	2.4	0.0335	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	SWMBMN01	1.007	SW911	2.5	1.485	0.048	0.0191	42.8
240 minute summer	SWMBRE07	8.000	SWMBIC11	0.0	0.000	0.000	0.0055	
240 minute summer	SWMBIC16	3.000	SWMBIC04	0.0	0.000	0.000	0.0000	
240 minute summer	SWMBIC17	1.006	SWMBMN01	2.4	0.148	0.030	0.9011	

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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	SWMBRE04	8	15.350	0.000	0.0	0.0000	0.0000	OK
360 minute summer	SWMBIC08	184	15.047	0.017	0.7	0.0136	0.0000	OK
360 minute summer	SWMBIC09	240	14.798	0.068	5.8	0.0494	0.0000	OK
360 minute summer	SWMBRE03	8	15.550	0.000	0.0	0.0000	0.0000	OK
360 minute summer	SWMBIC06	184	15.201	0.021	0.7	0.0135	0.0000	OK
360 minute summer	SWMBIC07	184	14.910	0.045	4.4	0.0347	0.0000	OK
360 minute summer	SWMBRE02	168	15.558	0.008	0.1	0.0028	0.0000	OK
360 minute summer	SWMBIC05	184	15.489	0.014	0.3	0.0063	0.0000	OK
360 minute summer	SWMBRE01	176	15.709	0.009	0.1	0.0026	0.0000	OK
360 minute summer	SWMBIC01	168	15.662	0.012	0.2	0.0034	0.0000	OK
360 minute summer	SWMBIC02	176	15.612	0.012	0.2	0.0019	0.0000	OK
360 minute summer	SWMBIC03	184	15.395	0.035	2.1	0.0508	0.0000	OK
360 minute summer	SWMBRE05	184	15.772	0.017	0.5	0.0141	0.0000	OK
360 minute summer	SWMBIC04	184	15.303	0.033	3.0	0.0309	0.0000	OK
360 minute summer	SWMBIC10	184	15.382	0.017	0.7	0.0179	0.0000	OK
360 minute summer	SWMBIC12	184	15.163	0.023	1.0	0.0066	0.0000	OK
360 minute summer	SWMBRE06	8	15.550	0.000	0.0	0.0000	0.0000	OK
360 minute summer	SWMBIC11	192	15.403	0.013	0.3	0.0061	0.0000	OK
360 minute summer	SWMBIC14	184	14.994	0.039	2.6	0.0439	0.0000	OK
360 minute summer	SWMBIC13	184	15.545	0.010	0.3	0.0058	0.0000	OK
360 minute summer	SWMBRE08	8	15.600	0.000	0.0	0.0000	0.0000	OK
360 minute summer	SWMRE09	8	15.600	0.000	0.0	0.0000	0.0000	OK
360 minute summer	SWMBRE10	152	15.302	0.007	0.1	0.0011	0.0000	OK
360 minute summer	SWMBIC15	160	15.193	0.008	0.1	0.0013	0.0000	OK
360 minute summer	TANK	240	14.798	0.098	8.4	25.4945	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	SWMBRE04	6.000	SWMBIC08	0.0	0.000	0.000	0.0000	
360 minute summer	SWMBIC08	6.001	SWMBIC09	0.7	0.496	0.012	0.0251	
360 minute summer	SWMBIC09	1.004	TANK	5.8	0.628	0.083	0.1204	
360 minute summer	SWMBRE03	5.000	SWMBIC06	0.0	0.000	0.000	0.0056	
360 minute summer	SWMBIC06	4.002	SWMBIC07	0.7	0.469	0.040	0.0265	
360 minute summer	SWMBIC07	1.003	SWMBIC09	4.4	0.516	0.049	0.1800	
360 minute summer	SWMBRE02	4.000	SWMBIC05	0.1	0.207	0.006	0.0046	
360 minute summer	SWMBIC05	4.001	SWMBIC06	0.3	0.283	0.018	0.0364	
360 minute summer	SWMBRE01	2.000	SWMBIC01	0.1	0.192	0.006	0.0032	
360 minute summer	SWMBIC01	2.001	SWMBIC02	0.2	0.303	0.013	0.0043	
360 minute summer	SWMBIC02	2.002	SWMBIC03	0.2	0.308	0.013	0.0074	
360 minute summer	SWMBIC03	1.001	SWMBIC04	2.1	0.470	0.028	0.0890	
360 minute summer	SWMBRE05	1.000	SWMBIC03	0.5	0.356	0.011	0.0648	
360 minute summer	SWMBIC04	1.002	SWMBIC07	2.9	0.546	0.026	0.2094	
360 minute summer	SWMBIC10	9.000	SWMBIC12	0.7	0.397	0.012	0.0316	
360 minute summer	SWMBIC12	7.002	SWMBIC14	1.0	0.298	0.022	0.0856	
360 minute summer	SWMBRE06	7.000	SWMBIC11	0.0	0.000	0.000	0.0055	
360 minute summer	SWMBIC11	7.001	SWMBIC12	0.3	0.418	0.015	0.0095	
360 minute summer	SWMBIC14	7.003	TANK	2.6	0.576	0.061	0.0301	
360 minute summer	SWMBIC13	10.001	SWMBIC14	0.3	0.602	0.009	0.0066	
360 minute summer	SWMBRE08	11.000	SWMBIC13	0.0	0.000	0.000	0.0009	
360 minute summer	SWMRE09	10.000	SWMBIC13	0.0	0.000	0.000	0.0018	
360 minute summer	SWMBRE10	12.000	SWMBIC15	0.1	0.327	0.004	0.0014	
360 minute summer	SWMBIC15	12.001	SWMBIC14	0.1	0.273	0.006	0.0055	
360 minute summer	TANK	1.005	SWMBIC17	2.3	0.499	0.023	0.0560	

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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	SWMBMN01	240	14.798	0.228	2.8	0.3772	0.0000	SURCHARGED
360 minute summer	SW911	240	13.641	0.022	2.5	0.0000	0.0000	OK
360 minute summer	SWMBRE07	8	15.600	0.000	0.0	0.0000	0.0000	OK
360 minute summer	SWMBIC16	8	15.485	0.000	0.0	0.0000	0.0000	OK
360 minute summer	SWMBIC17	240	14.798	0.118	2.3	0.0334	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	SWMBMN01	1.007	SW911	2.5	1.485	0.048	0.0191	49.8
360 minute summer	SWMBRE07	8.000	SWMBIC11	0.0	0.000	0.000	0.0045	
360 minute summer	SWMBIC16	3.000	SWMBIC04	0.0	0.000	0.000	0.0000	
360 minute summer	SWMBIC17	1.006	SWMBMN01	2.4	0.148	0.030	0.9001	

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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	SWMBRE04	8	15.350	0.000	0.0	0.0000	0.0000	OK
480 minute summer	SWMBIC08	240	15.045	0.015	0.5	0.0118	0.0000	OK
480 minute summer	SWMBIC09	304	14.795	0.065	4.7	0.0468	0.0000	OK
480 minute summer	SWMBRE03	8	15.550	0.000	0.0	0.0000	0.0000	OK
480 minute summer	SWMBIC06	248	15.200	0.019	0.6	0.0127	0.0000	OK
480 minute summer	SWMBIC07	248	14.906	0.041	3.6	0.0317	0.0000	OK
480 minute summer	SWMBRE02	224	15.558	0.008	0.1	0.0028	0.0000	OK
480 minute summer	SWMBIC05	248	15.489	0.014	0.3	0.0063	0.0000	OK
480 minute summer	SWMBRE01	232	15.709	0.009	0.1	0.0026	0.0000	OK
480 minute summer	SWMBIC01	224	15.662	0.012	0.2	0.0034	0.0000	OK
480 minute summer	SWMBIC02	232	15.612	0.012	0.2	0.0019	0.0000	OK
480 minute summer	SWMBIC03	248	15.392	0.032	1.7	0.0463	0.0000	OK
480 minute summer	SWMBRE05	248	15.771	0.016	0.4	0.0131	0.0000	OK
480 minute summer	SWMBIC04	248	15.300	0.030	2.4	0.0281	0.0000	OK
480 minute summer	SWMBIC10	248	15.381	0.016	0.6	0.0167	0.0000	OK
480 minute summer	SWMBIC12	248	15.162	0.022	0.9	0.0063	0.0000	OK
480 minute summer	SWMBRE06	8	15.550	0.000	0.0	0.0000	0.0000	OK
480 minute summer	SWMBIC11	248	15.403	0.013	0.3	0.0061	0.0000	OK
480 minute summer	SWMBIC14	248	14.992	0.037	2.3	0.0414	0.0000	OK
480 minute summer	SWMBIC13	248	15.545	0.010	0.3	0.0058	0.0000	OK
480 minute summer	SWMBRE08	8	15.600	0.000	0.0	0.0000	0.0000	OK
480 minute summer	SWMRE09	8	15.600	0.000	0.0	0.0000	0.0000	OK
480 minute summer	SWMBRE10	208	15.302	0.007	0.1	0.0011	0.0000	OK
480 minute summer	SWMBIC15	216	15.193	0.008	0.1	0.0013	0.0000	OK
480 minute summer	TANK	312	14.795	0.094	7.0	24.5255	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	SWMBRE04	6.000	SWMBIC08	0.0	0.000	0.000	0.0000	
480 minute summer	SWMBIC08	6.001	SWMBIC09	0.5	0.449	0.009	0.0200	
480 minute summer	SWMBIC09	1.004	TANK	4.7	0.571	0.067	0.1131	
480 minute summer	SWMBRE03	5.000	SWMBIC06	0.0	0.000	0.000	0.0051	
480 minute summer	SWMBIC06	4.002	SWMBIC07	0.6	0.451	0.035	0.0241	
480 minute summer	SWMBIC07	1.003	SWMBIC09	3.6	0.490	0.041	0.1566	
480 minute summer	SWMBRE02	4.000	SWMBIC05	0.1	0.207	0.006	0.0046	
480 minute summer	SWMBIC05	4.001	SWMBIC06	0.3	0.283	0.018	0.0342	
480 minute summer	SWMBRE01	2.000	SWMBIC01	0.1	0.192	0.006	0.0032	
480 minute summer	SWMBIC01	2.001	SWMBIC02	0.2	0.303	0.013	0.0043	
480 minute summer	SWMBIC02	2.002	SWMBIC03	0.2	0.308	0.013	0.0074	
480 minute summer	SWMBIC03	1.001	SWMBIC04	1.7	0.445	0.023	0.0775	
480 minute summer	SWMBRE05	1.000	SWMBIC03	0.4	0.341	0.009	0.0565	
480 minute summer	SWMBIC04	1.002	SWMBIC07	2.4	0.514	0.021	0.1830	
480 minute summer	SWMBIC10	9.000	SWMBIC12	0.6	0.374	0.010	0.0292	
480 minute summer	SWMBIC12	7.002	SWMBIC14	0.9	0.294	0.020	0.0793	
480 minute summer	SWMBRE06	7.000	SWMBIC11	0.0	0.000	0.000	0.0055	
480 minute summer	SWMBIC11	7.001	SWMBIC12	0.3	0.418	0.015	0.0095	
480 minute summer	SWMBIC14	7.003	TANK	2.3	0.559	0.054	0.0278	
480 minute summer	SWMBIC13	10.001	SWMBIC14	0.3	0.602	0.009	0.0066	
480 minute summer	SWMBRE08	11.000	SWMBIC13	0.0	0.000	0.000	0.0009	
480 minute summer	SWMRE09	10.000	SWMBIC13	0.0	0.000	0.000	0.0018	
480 minute summer	SWMBRE10	12.000	SWMBIC15	0.1	0.327	0.004	0.0014	
480 minute summer	SWMBIC15	12.001	SWMBIC14	0.1	0.273	0.006	0.0055	
480 minute summer	TANK	1.005	SWMBIC17	2.3	0.503	0.023	0.0534	

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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	SWMBMN01	304	14.794	0.224	2.7	0.3709	0.0000	SURCHARGED
480 minute summer	SW911	304	13.641	0.022	2.5	0.0000	0.0000	OK
480 minute summer	SWMBRE07	8	15.600	0.000	0.0	0.0000	0.0000	OK
480 minute summer	SWMBIC16	8	15.485	0.000	0.0	0.0000	0.0000	OK
480 minute summer	SWMBIC17	304	14.794	0.114	2.3	0.0324	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	SWMBMN01	1.007	SW911	2.5	1.484	0.048	0.0190	55.9
480 minute summer	SWMBRE07	8.000	SWMBIC11	0.0	0.000	0.000	0.0045	
480 minute summer	SWMBIC16	3.000	SWMBIC04	0.0	0.000	0.000	0.0000	
480 minute summer	SWMBIC17	1.006	SWMBMN01	2.3	0.148	0.030	0.8777	

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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	SWMBRE04	15	15.350	0.000	0.0	0.0000	0.0000	OK
600 minute summer	SWMBIC08	315	15.045	0.015	0.5	0.0118	0.0000	OK
600 minute summer	SWMBIC09	375	14.787	0.057	4.0	0.0414	0.0000	OK
600 minute summer	SWMBRE03	15	15.550	0.000	0.0	0.0000	0.0000	OK
600 minute summer	SWMBIC06	315	15.198	0.018	0.5	0.0116	0.0000	OK
600 minute summer	SWMBIC07	315	14.903	0.038	3.0	0.0290	0.0000	OK
600 minute summer	SWMBRE02	285	15.558	0.008	0.1	0.0028	0.0000	OK
600 minute summer	SWMBIC05	315	15.489	0.014	0.3	0.0063	0.0000	OK
600 minute summer	SWMBRE01	300	15.709	0.009	0.1	0.0026	0.0000	OK
600 minute summer	SWMBIC01	300	15.662	0.012	0.2	0.0034	0.0000	OK
600 minute summer	SWMBIC02	300	15.612	0.012	0.2	0.0019	0.0000	OK
600 minute summer	SWMBIC03	315	15.389	0.029	1.4	0.0422	0.0000	OK
600 minute summer	SWMBRE05	315	15.769	0.014	0.3	0.0115	0.0000	OK
600 minute summer	SWMBIC04	315	15.298	0.028	2.0	0.0258	0.0000	OK
600 minute summer	SWMBIC10	315	15.380	0.015	0.5	0.0154	0.0000	OK
600 minute summer	SWMBIC12	315	15.160	0.020	0.7	0.0056	0.0000	OK
600 minute summer	SWMBRE06	15	15.550	0.000	0.0	0.0000	0.0000	OK
600 minute summer	SWMBIC11	300	15.401	0.011	0.2	0.0051	0.0000	OK
600 minute summer	SWMBIC14	315	14.988	0.033	1.8	0.0366	0.0000	OK
600 minute summer	SWMBIC13	300	15.543	0.008	0.2	0.0048	0.0000	OK
600 minute summer	SWMBRE08	15	15.600	0.000	0.0	0.0000	0.0000	OK
600 minute summer	SWMRE09	15	15.600	0.000	0.0	0.0000	0.0000	OK
600 minute summer	SWMBRE10	285	15.302	0.007	0.1	0.0011	0.0000	OK
600 minute summer	SWMBIC15	285	15.193	0.008	0.1	0.0013	0.0000	OK
600 minute summer	TANK	375	14.787	0.087	5.8	22.5850	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	SWMBRE04	6.000	SWMBIC08	0.0	0.000	0.000	0.0000	
600 minute summer	SWMBIC08	6.001	SWMBIC09	0.5	0.449	0.009	0.0200	
600 minute summer	SWMBIC09	1.004	TANK	4.0	0.546	0.057	0.0987	
600 minute summer	SWMBRE03	5.000	SWMBIC06	0.0	0.000	0.000	0.0045	
600 minute summer	SWMBIC06	4.002	SWMBIC07	0.5	0.427	0.030	0.0212	
600 minute summer	SWMBIC07	1.003	SWMBIC09	3.0	0.465	0.034	0.1376	
600 minute summer	SWMBRE02	4.000	SWMBIC05	0.1	0.207	0.006	0.0046	
600 minute summer	SWMBIC05	4.001	SWMBIC06	0.3	0.304	0.018	0.0317	
600 minute summer	SWMBRE01	2.000	SWMBIC01	0.1	0.192	0.006	0.0032	
600 minute summer	SWMBIC01	2.001	SWMBIC02	0.2	0.303	0.013	0.0043	
600 minute summer	SWMBIC02	2.002	SWMBIC03	0.2	0.308	0.013	0.0074	
600 minute summer	SWMBIC03	1.001	SWMBIC04	1.4	0.419	0.019	0.0679	
600 minute summer	SWMBRE05	1.000	SWMBIC03	0.3	0.315	0.007	0.0460	
600 minute summer	SWMBIC04	1.002	SWMBIC07	2.0	0.487	0.018	0.1611	
600 minute summer	SWMBIC10	9.000	SWMBIC12	0.5	0.359	0.009	0.0250	
600 minute summer	SWMBIC12	7.002	SWMBIC14	0.7	0.273	0.016	0.0663	
600 minute summer	SWMBRE06	7.000	SWMBIC11	0.0	0.000	0.000	0.0041	
600 minute summer	SWMBIC11	7.001	SWMBIC12	0.2	0.368	0.010	0.0072	
600 minute summer	SWMBIC14	7.003	TANK	1.8	0.521	0.043	0.0233	
600 minute summer	SWMBIC13	10.001	SWMBIC14	0.2	0.531	0.006	0.0050	
600 minute summer	SWMBRE08	11.000	SWMBIC13	0.0	0.000	0.000	0.0007	
600 minute summer	SWMRE09	10.000	SWMBIC13	0.0	0.000	0.000	0.0014	
600 minute summer	SWMBRE10	12.000	SWMBIC15	0.1	0.320	0.004	0.0014	
600 minute summer	SWMBIC15	12.001	SWMBIC14	0.1	0.273	0.006	0.0055	
600 minute summer	TANK	1.005	SWMBIC17	2.3	0.486	0.023	0.0482	

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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	SWMBMN01	375	14.787	0.217	2.6	0.3585	0.0000	SURCHARGED
600 minute summer	SW911	375	13.641	0.022	2.5	0.0000	0.0000	OK
600 minute summer	SWMBRE07	15	15.600	0.000	0.0	0.0000	0.0000	OK
600 minute summer	SWMBIC16	15	15.485	0.000	0.0	0.0000	0.0000	OK
600 minute summer	SWMBIC17	375	14.787	0.107	2.3	0.0302	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	SWMBMN01	1.007	SW911	2.5	1.482	0.048	0.0190	57.6
600 minute summer	SWMBRE07	8.000	SWMBIC11	0.0	0.000	0.000	0.0034	
600 minute summer	SWMBIC16	3.000	SWMBIC04	0.0	0.000	0.000	0.0000	
600 minute summer	SWMBIC17	1.006	SWMBMN01	2.3	0.142	0.029	0.8329	

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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	SWMBRE04	15	15.350	0.000	0.0	0.0000	0.0000	OK
720 minute summer	SWMBIC08	375	15.043	0.013	0.4	0.0106	0.0000	OK
720 minute summer	SWMBIC09	435	14.778	0.048	3.4	0.0348	0.0000	OK
720 minute summer	SWMBRE03	15	15.550	0.000	0.0	0.0000	0.0000	OK
720 minute summer	SWMBIC06	375	15.196	0.016	0.4	0.0104	0.0000	OK
720 minute summer	SWMBIC07	375	14.900	0.035	2.6	0.0271	0.0000	OK
720 minute summer	SWMBRE02	360	15.558	0.008	0.1	0.0028	0.0000	OK
720 minute summer	SWMBIC05	360	15.486	0.011	0.2	0.0052	0.0000	OK
720 minute summer	SWMBRE01	375	15.709	0.009	0.1	0.0026	0.0000	OK
720 minute summer	SWMBIC01	375	15.662	0.012	0.2	0.0034	0.0000	OK
720 minute summer	SWMBIC02	375	15.612	0.012	0.2	0.0019	0.0000	OK
720 minute summer	SWMBIC03	375	15.388	0.028	1.3	0.0408	0.0000	OK
720 minute summer	SWMBRE05	375	15.769	0.014	0.3	0.0115	0.0000	OK
720 minute summer	SWMBIC04	375	15.296	0.026	1.8	0.0246	0.0000	OK
720 minute summer	SWMBIC10	360	15.378	0.013	0.4	0.0138	0.0000	OK
720 minute summer	SWMBIC12	360	15.158	0.018	0.6	0.0052	0.0000	OK
720 minute summer	SWMBRE06	15	15.550	0.000	0.0	0.0000	0.0000	OK
720 minute summer	SWMBIC11	360	15.401	0.011	0.2	0.0051	0.0000	OK
720 minute summer	SWMBIC14	375	14.986	0.031	1.6	0.0345	0.0000	OK
720 minute summer	SWMBIC13	360	15.543	0.008	0.2	0.0048	0.0000	OK
720 minute summer	SWMBRE08	15	15.600	0.000	0.0	0.0000	0.0000	OK
720 minute summer	SWMRE09	15	15.600	0.000	0.0	0.0000	0.0000	OK
720 minute summer	SWMBRE10	345	15.302	0.007	0.1	0.0011	0.0000	OK
720 minute summer	SWMBIC15	345	15.193	0.008	0.1	0.0013	0.0000	OK
720 minute summer	TANK	435	14.778	0.078	5.0	20.1288	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	SWMBRE04	6.000	SWMBIC08	0.0	0.000	0.000	0.0000	
720 minute summer	SWMBIC08	6.001	SWMBIC09	0.4	0.419	0.007	0.0172	
720 minute summer	SWMBIC09	1.004	TANK	3.4	0.496	0.049	0.0814	
720 minute summer	SWMBRE03	5.000	SWMBIC06	0.0	0.000	0.000	0.0038	
720 minute summer	SWMBIC06	4.002	SWMBIC07	0.4	0.399	0.024	0.0181	
720 minute summer	SWMBIC07	1.003	SWMBIC09	2.6	0.453	0.029	0.1222	
720 minute summer	SWMBRE02	4.000	SWMBIC05	0.1	0.207	0.006	0.0038	
720 minute summer	SWMBIC05	4.001	SWMBIC06	0.2	0.249	0.012	0.0258	
720 minute summer	SWMBRE01	2.000	SWMBIC01	0.1	0.192	0.006	0.0032	
720 minute summer	SWMBIC01	2.001	SWMBIC02	0.2	0.303	0.013	0.0043	
720 minute summer	SWMBIC02	2.002	SWMBIC03	0.2	0.308	0.013	0.0074	
720 minute summer	SWMBIC03	1.001	SWMBIC04	1.3	0.414	0.018	0.0638	
720 minute summer	SWMBRE05	1.000	SWMBIC03	0.3	0.315	0.007	0.0460	
720 minute summer	SWMBIC04	1.002	SWMBIC07	1.8	0.478	0.016	0.1473	
720 minute summer	SWMBIC10	9.000	SWMBIC12	0.4	0.331	0.007	0.0221	
720 minute summer	SWMBIC12	7.002	SWMBIC14	0.6	0.264	0.014	0.0605	
720 minute summer	SWMBRE06	7.000	SWMBIC11	0.0	0.000	0.000	0.0041	
720 minute summer	SWMBIC11	7.001	SWMBIC12	0.2	0.368	0.010	0.0072	
720 minute summer	SWMBIC14	7.003	TANK	1.6	0.504	0.038	0.0214	
720 minute summer	SWMBIC13	10.001	SWMBIC14	0.2	0.531	0.006	0.0050	
720 minute summer	SWMBRE08	11.000	SWMBIC13	0.0	0.000	0.000	0.0007	
720 minute summer	SWMRE09	10.000	SWMBIC13	0.0	0.000	0.000	0.0014	
720 minute summer	SWMBRE10	12.000	SWMBIC15	0.1	0.320	0.004	0.0014	
720 minute summer	SWMBIC15	12.001	SWMBIC14	0.1	0.273	0.006	0.0055	
720 minute summer	TANK	1.005	SWMBIC17	2.3	0.492	0.023	0.0419	

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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	SWMBMN01	435	14.777	0.207	2.5	0.3429	0.0000	SURCHARGED
720 minute summer	SW911	435	13.641	0.022	2.4	0.0000	0.0000	OK
720 minute summer	SWMBRE07	15	15.600	0.000	0.0	0.0000	0.0000	OK
720 minute summer	SWMBIC16	15	15.485	0.000	0.0	0.0000	0.0000	OK
720 minute summer	SWMBIC17	435	14.777	0.097	2.3	0.0276	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	SWMBMN01	1.007	SW911	2.4	1.479	0.047	0.0189	58.4
720 minute summer	SWMBRE07	8.000	SWMBIC11	0.0	0.000	0.000	0.0034	
720 minute summer	SWMBIC16	3.000	SWMBIC04	0.0	0.000	0.000	0.0000	
720 minute summer	SWMBIC17	1.006	SWMBMN01	2.3	0.142	0.029	0.7760	

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Results for 30 year 240 minute summer. 480 minute analysis at 4 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
240 minute summer	SWMBRE04	4	15.350	0.000	0.0	0.0000	0.0000	OK
240 minute summer	SWMBIC08	244	15.166	0.136	3.0	0.1067	0.0000	OK
240 minute summer	SWMBIC09	244	15.166	0.436	25.1	0.3150	0.0000	SURCHARGED
240 minute summer	SWMBRE03	4	15.550	0.000	0.0	0.0000	0.0000	OK
240 minute summer	SWMBIC06	124	15.225	0.045	3.2	0.0291	0.0000	OK
240 minute summer	SWMBIC07	244	15.166	0.301	18.9	0.2328	0.0000	SURCHARGED
240 minute summer	SWMBRE02	124	15.567	0.017	0.5	0.0060	0.0000	OK
240 minute summer	SWMBIC05	124	15.506	0.031	1.6	0.0140	0.0000	OK
240 minute summer	SWMBRE01	124	15.716	0.016	0.4	0.0050	0.0000	OK
240 minute summer	SWMBIC01	124	15.674	0.024	0.8	0.0067	0.0000	OK
240 minute summer	SWMBIC02	128	15.623	0.023	0.8	0.0037	0.0000	OK
240 minute summer	SWMBIC03	124	15.431	0.071	8.8	0.1039	0.0000	OK
240 minute summer	SWMBRE05	124	15.789	0.034	2.1	0.0283	0.0000	OK
240 minute summer	SWMBIC04	124	15.337	0.067	12.5	0.0622	0.0000	OK
240 minute summer	SWMBIC10	124	15.401	0.036	3.2	0.0368	0.0000	OK
240 minute summer	SWMBIC12	124	15.189	0.049	4.7	0.0138	0.0000	OK
240 minute summer	SWMBRE06	4	15.550	0.000	0.0	0.0000	0.0000	OK
240 minute summer	SWMBIC11	124	15.418	0.028	1.5	0.0132	0.0000	OK
240 minute summer	SWMBIC14	244	15.166	0.211	12.1	0.2366	0.0000	OK
240 minute summer	SWMBIC13	124	15.557	0.022	1.5	0.0125	0.0000	OK
240 minute summer	SWMBRE08	4	15.600	0.000	0.0	0.0000	0.0000	OK
240 minute summer	SWMRE09	4	15.600	0.000	0.0	0.0000	0.0000	OK
240 minute summer	SWMBRE10	124	15.310	0.015	0.6	0.0026	0.0000	OK
240 minute summer	SWMBIC15	128	15.204	0.019	0.6	0.0030	0.0000	OK
240 minute summer	TANK	244	15.166	0.466	37.4	121.0173	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
240 minute summer	SWMBRE04	6.000	SWMBIC08	0.0	0.000	0.000	0.1243	
240 minute summer	SWMBIC08	6.001	SWMBIC09	3.0	0.623	0.051	0.5832	
240 minute summer	SWMBIC09	1.004	TANK	24.1	0.822	0.345	0.5281	
240 minute summer	SWMBRE03	5.000	SWMBIC06	0.0	0.000	0.000	0.0168	
240 minute summer	SWMBIC06	4.002	SWMBIC07	3.2	0.727	0.186	0.1673	
240 minute summer	SWMBIC07	1.003	SWMBIC09	18.8	0.608	0.212	1.4898	
240 minute summer	SWMBRE02	4.000	SWMBIC05	0.5	0.280	0.029	0.0145	
240 minute summer	SWMBIC05	4.001	SWMBIC06	1.6	0.456	0.093	0.1118	
240 minute summer	SWMBRE01	2.000	SWMBIC01	0.4	0.287	0.025	0.0085	
240 minute summer	SWMBIC01	2.001	SWMBIC02	0.8	0.454	0.052	0.0115	
240 minute summer	SWMBIC02	2.002	SWMBIC03	0.8	0.466	0.051	0.0195	
240 minute summer	SWMBIC03	1.001	SWMBIC04	8.7	0.715	0.118	0.2480	
240 minute summer	SWMBRE05	1.000	SWMBIC03	2.1	0.555	0.049	0.1800	
240 minute summer	SWMBIC04	1.002	SWMBIC07	12.5	0.832	0.110	1.4100	
240 minute summer	SWMBIC10	9.000	SWMBIC12	3.2	0.620	0.055	0.0927	
240 minute summer	SWMBIC12	7.002	SWMBIC14	4.6	0.451	0.105	0.5232	
240 minute summer	SWMBRE06	7.000	SWMBIC11	0.0	0.000	0.000	0.0170	
240 minute summer	SWMBIC11	7.001	SWMBIC12	1.5	0.669	0.073	0.0293	
240 minute summer	SWMBIC14	7.003	TANK	12.1	0.875	0.285	0.2650	
240 minute summer	SWMBIC13	10.001	SWMBIC14	1.5	0.975	0.043	0.1126	
240 minute summer	SWMBRE08	11.000	SWMBIC13	0.0	0.000	0.000	0.0028	
240 minute summer	SWMRE09	10.000	SWMBIC13	0.0	0.000	0.000	0.0057	
240 minute summer	SWMBRE10	12.000	SWMBIC15	0.6	0.546	0.021	0.0049	
240 minute summer	SWMBIC15	12.001	SWMBIC14	0.6	0.470	0.033	0.1288	
240 minute summer	TANK	1.005	SWMBIC17	5.6	0.500	0.056	0.1723	

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Results for 30 year 240 minute summer. 480 minute analysis at 4 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
240 minute summer	SWMBMN01	244	15.166	0.596	4.3	0.9855	0.0000	SURCHARGED
240 minute summer	SW911	116	13.642	0.023	2.5	0.0000	0.0000	OK
240 minute summer	SWMBRE07	4	15.600	0.000	0.0	0.0000	0.0000	OK
240 minute summer	SWMBIC16	4	15.485	0.000	0.0	0.0000	0.0000	OK
240 minute summer	SWMBIC17	244	15.163	0.483	5.6	0.1368	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
240 minute summer	SWMBMN01	1.007	SW911	2.5	1.491	0.049	0.0193	59.7
240 minute summer	SWMBRE07	8.000	SWMBIC11	0.0	0.000	0.000	0.0141	
240 minute summer	SWMBIC16	3.000	SWMBIC04	0.0	0.000	0.000	0.0000	
240 minute summer	SWMBIC17	1.006	SWMBMN01	2.8	0.137	0.035	1.5233	

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Results for 30 year 360 minute summer. 600 minute analysis at 8 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
360 minute summer	SWMBRE04	8	15.350	0.000	0.0	0.0000	0.0000	OK
360 minute summer	SWMBIC08	360	15.165	0.135	2.2	0.1053	0.0000	OK
360 minute summer	SWMBIC09	360	15.165	0.435	18.7	0.3137	0.0000	SURCHARGED
360 minute summer	SWMBRE03	8	15.550	0.000	0.0	0.0000	0.0000	OK
360 minute summer	SWMBIC06	184	15.218	0.038	2.4	0.0249	0.0000	OK
360 minute summer	SWMBIC07	360	15.165	0.300	14.1	0.2316	0.0000	OK
360 minute summer	SWMBRE02	184	15.566	0.016	0.4	0.0053	0.0000	OK
360 minute summer	SWMBIC05	184	15.502	0.027	1.2	0.0122	0.0000	OK
360 minute summer	SWMBRE01	184	15.714	0.014	0.3	0.0043	0.0000	OK
360 minute summer	SWMBIC01	184	15.671	0.021	0.6	0.0058	0.0000	OK
360 minute summer	SWMBIC02	184	15.620	0.020	0.6	0.0032	0.0000	OK
360 minute summer	SWMBIC03	184	15.422	0.062	6.6	0.0896	0.0000	OK
360 minute summer	SWMBRE05	184	15.785	0.030	1.6	0.0248	0.0000	OK
360 minute summer	SWMBIC04	184	15.328	0.058	9.3	0.0537	0.0000	OK
360 minute summer	SWMBIC10	184	15.396	0.031	2.4	0.0320	0.0000	OK
360 minute summer	SWMBIC12	184	15.182	0.042	3.5	0.0120	0.0000	OK
360 minute summer	SWMBRE06	8	15.550	0.000	0.0	0.0000	0.0000	OK
360 minute summer	SWMBIC11	184	15.414	0.024	1.1	0.0114	0.0000	OK
360 minute summer	SWMBIC14	360	15.165	0.210	9.0	0.2347	0.0000	OK
360 minute summer	SWMBIC13	184	15.554	0.019	1.1	0.0107	0.0000	OK
360 minute summer	SWMBRE08	8	15.600	0.000	0.0	0.0000	0.0000	OK
360 minute summer	SWMRE09	8	15.600	0.000	0.0	0.0000	0.0000	OK
360 minute summer	SWMBRE10	184	15.309	0.014	0.5	0.0024	0.0000	OK
360 minute summer	SWMBIC15	184	15.202	0.017	0.5	0.0027	0.0000	OK
360 minute summer	TANK	360	15.165	0.465	27.3	120.5615	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
360 minute summer	SWMBRE04	6.000	SWMBIC08	0.0	0.000	0.000	0.1196	
360 minute summer	SWMBIC08	6.001	SWMBIC09	2.2	0.589	0.038	0.5798	
360 minute summer	SWMBIC09	1.004	TANK	18.0	0.747	0.257	0.5281	
360 minute summer	SWMBRE03	5.000	SWMBIC06	0.0	0.000	0.000	0.0135	
360 minute summer	SWMBIC06	4.002	SWMBIC07	2.3	0.669	0.138	0.1648	
360 minute summer	SWMBIC07	1.003	SWMBIC09	14.0	0.541	0.158	1.4896	
360 minute summer	SWMBRE02	4.000	SWMBIC05	0.4	0.261	0.023	0.0119	
360 minute summer	SWMBIC05	4.001	SWMBIC06	1.2	0.421	0.069	0.0903	
360 minute summer	SWMBRE01	2.000	SWMBIC01	0.3	0.264	0.019	0.0069	
360 minute summer	SWMBIC01	2.001	SWMBIC02	0.6	0.418	0.039	0.0094	
360 minute summer	SWMBIC02	2.002	SWMBIC03	0.6	0.428	0.038	0.0159	
360 minute summer	SWMBIC03	1.001	SWMBIC04	6.5	0.660	0.089	0.2012	
360 minute summer	SWMBRE05	1.000	SWMBIC03	1.6	0.511	0.037	0.1481	
360 minute summer	SWMBIC04	1.002	SWMBIC07	9.3	0.764	0.082	1.4012	
360 minute summer	SWMBIC10	9.000	SWMBIC12	2.4	0.571	0.041	0.0755	
360 minute summer	SWMBIC12	7.002	SWMBIC14	3.5	0.418	0.078	0.5178	
360 minute summer	SWMBRE06	7.000	SWMBIC11	0.0	0.000	0.000	0.0136	
360 minute summer	SWMBIC11	7.001	SWMBIC12	1.1	0.612	0.053	0.0235	
360 minute summer	SWMBIC14	7.003	TANK	9.0	0.810	0.212	0.2643	
360 minute summer	SWMBIC13	10.001	SWMBIC14	1.1	0.890	0.031	0.1116	
360 minute summer	SWMBRE08	11.000	SWMBIC13	0.0	0.000	0.000	0.0022	
360 minute summer	SWMRE09	10.000	SWMBIC13	0.0	0.000	0.000	0.0046	
360 minute summer	SWMBRE10	12.000	SWMBIC15	0.5	0.515	0.018	0.0043	
360 minute summer	SWMBIC15	12.001	SWMBIC14	0.5	0.442	0.027	0.1253	
360 minute summer	TANK	1.005	SWMBIC17	5.5	0.498	0.055	0.1723	

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Results for 30 year 360 minute summer. 600 minute analysis at 8 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
360 minute summer	SWMBMN01	360	15.164	0.594	3.2	0.9826	0.0000	SURCHARGED
360 minute summer	SW911	168	13.642	0.023	2.5	0.0000	0.0000	OK
360 minute summer	SWMBRE07	8	15.600	0.000	0.0	0.0000	0.0000	OK
360 minute summer	SWMBIC16	8	15.485	0.000	0.0	0.0000	0.0000	OK
360 minute summer	SWMBIC17	360	15.162	0.482	5.5	0.1364	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
360 minute summer	SWMBMN01	1.007	SW911	2.5	1.491	0.048	0.0192	73.3
360 minute summer	SWMBRE07	8.000	SWMBIC11	0.0	0.000	0.000	0.0113	
360 minute summer	SWMBIC16	3.000	SWMBIC04	0.0	0.000	0.000	0.0000	
360 minute summer	SWMBIC17	1.006	SWMBMN01	2.9	0.140	0.037	1.5233	

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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	SWMBRE04	8	15.350	0.000	0.0	0.0000	0.0000	OK
480 minute summer	SWMBIC08	480	15.147	0.117	1.7	0.0919	0.0000	OK
480 minute summer	SWMBIC09	480	15.147	0.417	14.2	0.3014	0.0000	SURCHARGED
480 minute summer	SWMBRE03	8	15.550	0.000	0.0	0.0000	0.0000	OK
480 minute summer	SWMBIC06	248	15.214	0.034	1.8	0.0218	0.0000	OK
480 minute summer	SWMBIC07	480	15.147	0.282	10.8	0.2183	0.0000	OK
480 minute summer	SWMBRE02	240	15.564	0.014	0.3	0.0047	0.0000	OK
480 minute summer	SWMBIC05	248	15.498	0.023	0.9	0.0106	0.0000	OK
480 minute summer	SWMBRE01	224	15.712	0.012	0.2	0.0036	0.0000	OK
480 minute summer	SWMBIC01	224	15.667	0.017	0.4	0.0048	0.0000	OK
480 minute summer	SWMBIC02	224	15.617	0.017	0.4	0.0027	0.0000	OK
480 minute summer	SWMBIC03	248	15.414	0.054	5.0	0.0783	0.0000	OK
480 minute summer	SWMBRE05	248	15.781	0.026	1.2	0.0218	0.0000	OK
480 minute summer	SWMBIC04	248	15.321	0.051	7.1	0.0472	0.0000	OK
480 minute summer	SWMBIC10	248	15.392	0.027	1.8	0.0280	0.0000	OK
480 minute summer	SWMBIC12	248	15.177	0.037	2.7	0.0106	0.0000	OK
480 minute summer	SWMBRE06	8	15.550	0.000	0.0	0.0000	0.0000	OK
480 minute summer	SWMBIC11	248	15.412	0.022	0.9	0.0103	0.0000	OK
480 minute summer	SWMBIC14	480	15.147	0.192	7.1	0.2155	0.0000	OK
480 minute summer	SWMBIC13	248	15.552	0.017	0.9	0.0098	0.0000	OK
480 minute summer	SWMBRE08	8	15.600	0.000	0.0	0.0000	0.0000	OK
480 minute summer	SWMRE09	8	15.600	0.000	0.0	0.0000	0.0000	OK
480 minute summer	SWMBRE10	248	15.308	0.013	0.4	0.0021	0.0000	OK
480 minute summer	SWMBIC15	248	15.201	0.016	0.4	0.0025	0.0000	OK
480 minute summer	TANK	480	15.147	0.447	20.6	116.1208	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
480 minute summer	SWMBRE04	6.000	SWMBIC08	0.0	0.000	0.000	0.0750	
480 minute summer	SWMBIC08	6.001	SWMBIC09	1.7	0.537	0.029	0.5454	
480 minute summer	SWMBIC09	1.004	TANK	13.7	0.725	0.195	0.5281	
480 minute summer	SWMBRE03	5.000	SWMBIC06	0.0	0.000	0.000	0.0111	
480 minute summer	SWMBIC06	4.002	SWMBIC07	1.8	0.622	0.106	0.1545	
480 minute summer	SWMBIC07	1.003	SWMBIC09	10.6	0.509	0.120	1.4729	
480 minute summer	SWMBRE02	4.000	SWMBIC05	0.3	0.253	0.017	0.0098	
480 minute summer	SWMBIC05	4.001	SWMBIC06	0.9	0.388	0.053	0.0745	
480 minute summer	SWMBRE01	2.000	SWMBIC01	0.2	0.234	0.012	0.0052	
480 minute summer	SWMBIC01	2.001	SWMBIC02	0.4	0.372	0.026	0.0070	
480 minute summer	SWMBIC02	2.002	SWMBIC03	0.4	0.379	0.025	0.0120	
480 minute summer	SWMBIC03	1.001	SWMBIC04	5.0	0.611	0.068	0.1662	
480 minute summer	SWMBRE05	1.000	SWMBIC03	1.2	0.471	0.028	0.1230	
480 minute summer	SWMBIC04	1.002	SWMBIC07	7.1	0.704	0.063	1.3643	
480 minute summer	SWMBIC10	9.000	SWMBIC12	1.8	0.519	0.031	0.0629	
480 minute summer	SWMBIC12	7.002	SWMBIC14	2.7	0.390	0.061	0.4701	
480 minute summer	SWMBRE06	7.000	SWMBIC11	0.0	0.000	0.000	0.0119	
480 minute summer	SWMBIC11	7.001	SWMBIC12	0.9	0.579	0.044	0.0205	
480 minute summer	SWMBIC14	7.003	TANK	7.1	0.762	0.168	0.2563	
480 minute summer	SWMBIC13	10.001	SWMBIC14	0.9	0.839	0.026	0.0993	
480 minute summer	SWMBRE08	11.000	SWMBIC13	0.0	0.000	0.000	0.0019	
480 minute summer	SWMRE09	10.000	SWMBIC13	0.0	0.000	0.000	0.0040	
480 minute summer	SWMBRE10	12.000	SWMBIC15	0.4	0.483	0.014	0.0037	
480 minute summer	SWMBIC15	12.001	SWMBIC14	0.4	0.416	0.022	0.1113	
480 minute summer	TANK	1.005	SWMBIC17	5.9	0.491	0.059	0.1723	

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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	SWMBMN01	480	15.147	0.577	3.0	0.9544	0.0000	SURCHARGED
480 minute summer	SW911	232	13.642	0.023	2.5	0.0000	0.0000	OK
480 minute summer	SWMBRE07	8	15.600	0.000	0.0	0.0000	0.0000	OK
480 minute summer	SWMBIC16	8	15.485	0.000	0.0	0.0000	0.0000	OK
480 minute summer	SWMBIC17	472	15.151	0.471	5.9	0.1334	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
480 minute summer	SWMBMN01	1.007	SW911	2.5	1.491	0.049	0.0192	88.7
480 minute summer	SWMBRE07	8.000	SWMBIC11	0.0	0.000	0.000	0.0098	
480 minute summer	SWMBIC16	3.000	SWMBIC04	0.0	0.000	0.000	0.0000	
480 minute summer	SWMBIC17	1.006	SWMBMN01	3.0	0.139	0.037	1.5233	

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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	SWMBRE04	15	15.350	0.000	0.0	0.0000	0.0000	OK
600 minute summer	SWMBIC08	540	15.127	0.097	1.4	0.0762	0.0000	OK
600 minute summer	SWMBIC09	540	15.127	0.397	11.5	0.2869	0.0000	SURCHARGED
600 minute summer	SWMBRE03	15	15.550	0.000	0.0	0.0000	0.0000	OK
600 minute summer	SWMBIC06	315	15.210	0.030	1.4	0.0192	0.0000	OK
600 minute summer	SWMBIC07	540	15.127	0.262	8.7	0.2028	0.0000	OK
600 minute summer	SWMBRE02	285	15.561	0.011	0.2	0.0039	0.0000	OK
600 minute summer	SWMBIC05	315	15.496	0.021	0.7	0.0094	0.0000	OK
600 minute summer	SWMBRE01	300	15.712	0.012	0.2	0.0036	0.0000	OK
600 minute summer	SWMBIC01	300	15.667	0.017	0.4	0.0048	0.0000	OK
600 minute summer	SWMBIC02	300	15.617	0.017	0.4	0.0027	0.0000	OK
600 minute summer	SWMBIC03	315	15.409	0.049	4.1	0.0709	0.0000	OK
600 minute summer	SWMBRE05	315	15.779	0.024	1.0	0.0200	0.0000	OK
600 minute summer	SWMBIC04	315	15.316	0.046	5.8	0.0428	0.0000	OK
600 minute summer	SWMBIC10	315	15.390	0.025	1.5	0.0257	0.0000	OK
600 minute summer	SWMBIC12	315	15.174	0.034	2.2	0.0096	0.0000	OK
600 minute summer	SWMBRE06	15	15.550	0.000	0.0	0.0000	0.0000	OK
600 minute summer	SWMBIC11	315	15.409	0.019	0.7	0.0091	0.0000	OK
600 minute summer	SWMBIC14	540	15.127	0.172	5.7	0.1930	0.0000	OK
600 minute summer	SWMBIC13	315	15.550	0.015	0.7	0.0087	0.0000	OK
600 minute summer	SWMBRE08	15	15.600	0.000	0.0	0.0000	0.0000	OK
600 minute summer	SWMRE09	15	15.600	0.000	0.0	0.0000	0.0000	OK
600 minute summer	SWMBRE10	315	15.306	0.011	0.3	0.0019	0.0000	OK
600 minute summer	SWMBIC15	315	15.199	0.014	0.3	0.0022	0.0000	OK
600 minute summer	TANK	540	15.127	0.427	16.7	110.9127	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
600 minute summer	SWMBRE04	6.000	SWMBIC08	0.0	0.000	0.000	0.0301	
600 minute summer	SWMBIC08	6.001	SWMBIC09	1.4	0.537	0.024	0.5051	
600 minute summer	SWMBIC09	1.004	TANK	11.0	0.634	0.158	0.5281	
600 minute summer	SWMBRE03	5.000	SWMBIC06	0.0	0.000	0.000	0.0093	
600 minute summer	SWMBIC06	4.002	SWMBIC07	1.4	0.578	0.083	0.1337	
600 minute summer	SWMBIC07	1.003	SWMBIC09	8.6	0.496	0.097	1.4365	
600 minute summer	SWMBRE02	4.000	SWMBIC05	0.2	0.230	0.011	0.0080	
600 minute summer	SWMBIC05	4.001	SWMBIC06	0.7	0.361	0.041	0.0623	
600 minute summer	SWMBRE01	2.000	SWMBIC01	0.2	0.234	0.012	0.0052	
600 minute summer	SWMBIC01	2.001	SWMBIC02	0.4	0.372	0.026	0.0070	
600 minute summer	SWMBIC02	2.002	SWMBIC03	0.4	0.379	0.025	0.0120	
600 minute summer	SWMBIC03	1.001	SWMBIC04	4.1	0.578	0.056	0.1441	
600 minute summer	SWMBRE05	1.000	SWMBIC03	1.0	0.446	0.024	0.1082	
600 minute summer	SWMBIC04	1.002	SWMBIC07	5.8	0.667	0.051	1.2974	
600 minute summer	SWMBIC10	9.000	SWMBIC12	1.5	0.495	0.026	0.0548	
600 minute summer	SWMBIC12	7.002	SWMBIC14	2.2	0.372	0.050	0.4255	
600 minute summer	SWMBRE06	7.000	SWMBIC11	0.0	0.000	0.000	0.0099	
600 minute summer	SWMBIC11	7.001	SWMBIC12	0.7	0.537	0.034	0.0172	
600 minute summer	SWMBIC14	7.003	TANK	5.7	0.718	0.135	0.2429	
600 minute summer	SWMBIC13	10.001	SWMBIC14	0.7	0.778	0.020	0.0815	
600 minute summer	SWMBRE08	11.000	SWMBIC13	0.0	0.000	0.000	0.0016	
600 minute summer	SWMRE09	10.000	SWMBIC13	0.0	0.000	0.000	0.0033	
600 minute summer	SWMBRE10	12.000	SWMBIC15	0.3	0.442	0.011	0.0030	
600 minute summer	SWMBIC15	12.001	SWMBIC14	0.3	0.383	0.017	0.0910	
600 minute summer	TANK	1.005	SWMBIC17	4.3	0.490	0.042	0.1723	

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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	SWMBMN01	540	15.127	0.557	2.8	0.9217	0.0000	SURCHARGED
600 minute summer	SW911	285	13.642	0.023	2.5	0.0000	0.0000	OK
600 minute summer	SWMBRE07	15	15.600	0.000	0.0	0.0000	0.0000	OK
600 minute summer	SWMBIC16	15	15.485	0.000	0.0	0.0000	0.0000	OK
600 minute summer	SWMBIC17	540	15.127	0.447	4.3	0.1266	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
600 minute summer	SWMBMN01	1.007	SW911	2.5	1.490	0.048	0.0192	103.1
600 minute summer	SWMBRE07	8.000	SWMBIC11	0.0	0.000	0.000	0.0082	
600 minute summer	SWMBIC16	3.000	SWMBIC04	0.0	0.000	0.000	0.0000	
600 minute summer	SWMBIC17	1.006	SWMBMN01	2.8	0.146	0.035	1.5233	

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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	SWMBRE04	15	15.350	0.000	0.0	0.0000	0.0000	OK
720 minute summer	SWMBIC08	585	15.105	0.075	1.2	0.0587	0.0000	OK
720 minute summer	SWMBIC09	585	15.105	0.375	10.0	0.2708	0.0000	SURCHARGED
720 minute summer	SWMBRE03	15	15.550	0.000	0.0	0.0000	0.0000	OK
720 minute summer	SWMBIC06	375	15.207	0.027	1.2	0.0178	0.0000	OK
720 minute summer	SWMBIC07	585	15.105	0.240	7.7	0.1855	0.0000	OK
720 minute summer	SWMBRE02	360	15.561	0.011	0.2	0.0039	0.0000	OK
720 minute summer	SWMBIC05	360	15.494	0.019	0.6	0.0088	0.0000	OK
720 minute summer	SWMBRE01	375	15.712	0.012	0.2	0.0036	0.0000	OK
720 minute summer	SWMBIC01	375	15.667	0.017	0.4	0.0048	0.0000	OK
720 minute summer	SWMBIC02	375	15.617	0.017	0.4	0.0027	0.0000	OK
720 minute summer	SWMBIC03	375	15.406	0.046	3.7	0.0674	0.0000	OK
720 minute summer	SWMBRE05	375	15.778	0.023	0.9	0.0190	0.0000	OK
720 minute summer	SWMBIC04	375	15.313	0.043	5.2	0.0406	0.0000	OK
720 minute summer	SWMBIC10	375	15.388	0.023	1.3	0.0240	0.0000	OK
720 minute summer	SWMBIC12	375	15.172	0.032	1.9	0.0089	0.0000	OK
720 minute summer	SWMBRE06	15	15.550	0.000	0.0	0.0000	0.0000	OK
720 minute summer	SWMBIC11	375	15.408	0.018	0.6	0.0085	0.0000	OK
720 minute summer	SWMBIC14	585	15.105	0.150	4.9	0.1680	0.0000	OK
720 minute summer	SWMBIC13	375	15.549	0.014	0.6	0.0081	0.0000	OK
720 minute summer	SWMBRE08	15	15.600	0.000	0.0	0.0000	0.0000	OK
720 minute summer	SWMRE09	15	15.600	0.000	0.0	0.0000	0.0000	OK
720 minute summer	SWMBRE10	375	15.306	0.011	0.3	0.0019	0.0000	OK
720 minute summer	SWMBIC15	375	15.199	0.014	0.3	0.0022	0.0000	OK
720 minute summer	TANK	585	15.105	0.405	14.5	105.1101	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
720 minute summer	SWMBRE04	6.000	SWMBIC08	0.0	0.000	0.000	0.0000	
720 minute summer	SWMBIC08	6.001	SWMBIC09	1.2	0.518	0.021	0.4612	
720 minute summer	SWMBIC09	1.004	TANK	9.7	0.614	0.139	0.5281	
720 minute summer	SWMBRE03	5.000	SWMBIC06	0.0	0.000	0.000	0.0083	
720 minute summer	SWMBIC06	4.002	SWMBIC07	1.2	0.553	0.071	0.1055	
720 minute summer	SWMBIC07	1.003	SWMBIC09	7.6	0.481	0.085	1.3845	
720 minute summer	SWMBRE02	4.000	SWMBIC05	0.2	0.213	0.011	0.0074	
720 minute summer	SWMBIC05	4.001	SWMBIC06	0.6	0.357	0.035	0.0559	
720 minute summer	SWMBRE01	2.000	SWMBIC01	0.2	0.234	0.012	0.0052	
720 minute summer	SWMBIC01	2.001	SWMBIC02	0.4	0.372	0.026	0.0070	
720 minute summer	SWMBIC02	2.002	SWMBIC03	0.4	0.379	0.025	0.0120	
720 minute summer	SWMBIC03	1.001	SWMBIC04	3.7	0.562	0.050	0.1337	
720 minute summer	SWMBRE05	1.000	SWMBIC03	0.9	0.432	0.021	0.1005	
720 minute summer	SWMBIC04	1.002	SWMBIC07	5.2	0.648	0.046	1.2018	
720 minute summer	SWMBIC10	9.000	SWMBIC12	1.3	0.475	0.022	0.0495	
720 minute summer	SWMBIC12	7.002	SWMBIC14	1.9	0.359	0.043	0.3681	
720 minute summer	SWMBRE06	7.000	SWMBIC11	0.0	0.000	0.000	0.0089	
720 minute summer	SWMBIC11	7.001	SWMBIC12	0.6	0.513	0.029	0.0154	
720 minute summer	SWMBIC14	7.003	TANK	4.9	0.689	0.116	0.2183	
720 minute summer	SWMBIC13	10.001	SWMBIC14	0.6	0.744	0.017	0.0597	
720 minute summer	SWMBRE08	11.000	SWMBIC13	0.0	0.000	0.000	0.0014	
720 minute summer	SWMRE09	10.000	SWMBIC13	0.0	0.000	0.000	0.0030	
720 minute summer	SWMBRE10	12.000	SWMBIC15	0.3	0.442	0.011	0.0030	
720 minute summer	SWMBIC15	12.001	SWMBIC14	0.3	0.383	0.017	0.0663	
720 minute summer	TANK	1.005	SWMBIC17	5.1	0.494	0.051	0.1723	

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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	SWMBMN01	570	15.105	0.535	3.4	0.8848	0.0000	SURCHARGED
720 minute summer	SW911	345	13.642	0.023	2.5	0.0000	0.0000	OK
720 minute summer	SWMBRE07	15	15.600	0.000	0.0	0.0000	0.0000	OK
720 minute summer	SWMBIC16	15	15.485	0.000	0.0	0.0000	0.0000	OK
720 minute summer	SWMBIC17	585	15.106	0.426	5.1	0.1205	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
720 minute summer	SWMBMN01	1.007	SW911	2.5	1.491	0.048	0.0192	117.9
720 minute summer	SWMBRE07	8.000	SWMBIC11	0.0	0.000	0.000	0.0074	
720 minute summer	SWMBIC16	3.000	SWMBIC04	0.0	0.000	0.000	0.0000	
720 minute summer	SWMBIC17	1.006	SWMBMN01	3.4	0.146	0.043	1.5233	

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Results for 100 year +40% CC 240 minute summer. 480 minute analysis at 4 minute timestep. Mass balance: 98.99%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
240 minute summer	SWMBRE04	248	15.627	0.277	0.4	0.0050	0.0000	SURCHARGED
240 minute summer	SWMBIC08	244	15.626	0.596	5.6	0.4664	0.0000	SURCHARGED
240 minute summer	SWMBIC09	244	15.627	0.897	44.2	0.6476	0.0000	SURCHARGED
240 minute summer	SWMBRE03	244	15.630	0.080	0.1	0.0127	0.0000	OK
240 minute summer	SWMBIC06	244	15.629	0.449	6.0	0.2911	0.0000	SURCHARGED
240 minute summer	SWMBIC07	244	15.627	0.762	35.1	0.5891	0.0000	SURCHARGED
240 minute summer	SWMBRE02	244	15.627	0.077	1.0	0.0261	0.0000	OK
240 minute summer	SWMBIC05	244	15.628	0.153	3.0	0.0694	0.0000	SURCHARGED
240 minute summer	SWMBRE01	124	15.723	0.023	0.8	0.0069	0.0000	OK
240 minute summer	SWMBIC01	124	15.684	0.034	1.6	0.0095	0.0000	OK
240 minute summer	SWMBIC02	124	15.633	0.033	1.6	0.0052	0.0000	OK
240 minute summer	SWMBIC03	244	15.627	0.267	16.4	0.3879	0.0000	OK
240 minute summer	SWMBRE05	124	15.802	0.047	4.0	0.0388	0.0000	OK
240 minute summer	SWMBIC04	244	15.628	0.358	23.2	0.3340	0.0000	SURCHARGED
240 minute summer	SWMBIC10	244	15.633	0.268	5.9	0.2764	0.0000	SURCHARGED
240 minute summer	SWMBIC12	244	15.632	0.492	8.7	0.1391	0.0000	SURCHARGED
240 minute summer	SWMBRE06	244	15.632	0.082	0.2	0.0130	0.0000	OK
240 minute summer	SWMBIC11	244	15.632	0.242	2.8	0.1151	0.0000	SURCHARGED
240 minute summer	SWMBIC14	244	15.628	0.673	22.5	0.7539	0.0000	SURCHARGED
240 minute summer	SWMBIC13	244	15.628	0.093	2.8	0.0538	0.0000	OK
240 minute summer	SWMBRE08	244	15.627	0.027	0.0	0.0043	0.0000	OK
240 minute summer	SWMRE09	244	15.627	0.027	0.0	0.0043	0.0000	OK
240 minute summer	SWMBRE10	244	15.631	0.336	1.2	0.0571	0.0000	SURCHARGED
240 minute summer	SWMBIC15	244	15.630	0.445	1.2	0.0708	0.0000	SURCHARGED
240 minute summer	TANK	244	15.628	0.928	70.4	237.3487	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
240 minute summer	SWMBRE04	6.000	SWMBIC08	-0.4	-0.023	-0.028	0.6472	
240 minute summer	SWMBIC08	6.001	SWMBIC09	4.5	0.569	0.077	0.7146	
240 minute summer	SWMBIC09	1.004	TANK	43.8	1.018	0.626	0.5281	
240 minute summer	SWMBRE03	5.000	SWMBIC06	-0.1	-0.006	-0.002	0.1030	
240 minute summer	SWMBIC06	4.002	SWMBIC07	5.9	0.790	0.350	0.3187	
240 minute summer	SWMBIC07	1.003	SWMBIC09	33.9	0.519	0.383	1.4902	
240 minute summer	SWMBRE02	4.000	SWMBIC05	1.0	0.343	0.057	0.1031	
240 minute summer	SWMBIC05	4.001	SWMBIC06	3.0	0.554	0.174	0.5608	
240 minute summer	SWMBRE01	2.000	SWMBIC01	0.8	0.348	0.049	0.0139	
240 minute summer	SWMBIC01	2.001	SWMBIC02	1.6	0.548	0.102	0.0188	
240 minute summer	SWMBIC02	2.002	SWMBIC03	1.6	0.564	0.099	0.0953	
240 minute summer	SWMBIC03	1.001	SWMBIC04	16.3	0.852	0.221	1.3867	
240 minute summer	SWMBRE05	1.000	SWMBIC03	3.9	0.669	0.093	0.8916	
240 minute summer	SWMBIC04	1.002	SWMBIC07	23.1	0.814	0.204	2.7377	
240 minute summer	SWMBIC10	9.000	SWMBIC12	5.9	0.739	0.101	0.7124	
240 minute summer	SWMBIC12	7.002	SWMBIC14	8.6	0.476	0.194	1.0078	
240 minute summer	SWMBRE06	7.000	SWMBIC11	0.2	0.011	0.009	0.2068	
240 minute summer	SWMBIC11	7.001	SWMBIC12	2.8	0.798	0.136	0.2324	
240 minute summer	SWMBIC14	7.003	TANK	21.4	0.926	0.506	0.2685	
240 minute summer	SWMBIC13	10.001	SWMBIC14	2.8	0.993	0.080	0.1920	
240 minute summer	SWMBRE08	11.000	SWMBIC13	0.2	0.038	0.010	0.0243	
240 minute summer	SWMRE09	10.000	SWMBIC13	0.2	0.028	0.011	0.0500	
240 minute summer	SWMBRE10	12.000	SWMBIC15	1.2	0.672	0.043	0.0780	
240 minute summer	SWMBIC15	12.001	SWMBIC14	1.2	0.489	0.066	0.2649	
240 minute summer	TANK	1.005	SWMBIC17	-5.1	0.499	-0.051	0.1723	

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Results for 100 year +40% CC 240 minute summer. 480 minute analysis at 4 minute timestep. Mass balance: 98.99%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
240 minute summer	SWMBMN01	244	15.627	1.057	7.9	1.7479	0.0000	SURCHARGED
240 minute summer	SW911	244	13.642	0.023	2.6	0.0000	0.0000	OK
240 minute summer	SWMBRE07	244	15.633	0.033	0.2	0.0006	0.0000	OK
240 minute summer	SWMBIC16	244	15.629	0.144	0.5	0.0228	0.0000	OK
240 minute summer	SWMBIC17	244	15.627	0.947	5.4	0.2680	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
240 minute summer	SWMBMN01	1.007	SW911	2.6	1.516	0.051	0.0201	69.3
240 minute summer	SWMBRE07	8.000	SWMBIC11	-0.2	-0.014	-0.007	0.1278	
240 minute summer	SWMBIC16	3.000	SWMBIC04	-0.5	-0.029	-0.029	0.1140	
240 minute summer	SWMBIC17	1.006	SWMBMN01	-5.4	0.131	-0.069	1.5233	

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Results for 100 year +40% CC 360 minute summer. 600 minute analysis at 8 minute timestep. Mass balance: 98.97%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
360 minute summer	SWMBRE04	360	15.954	0.604	0.4	0.0109	0.0000	FLOOD RISK
360 minute summer	SWMBIC08	360	15.953	0.923	4.2	0.7225	0.0000	FLOOD RISK
360 minute summer	SWMBIC09	360	15.953	1.223	33.2	0.8828	0.0000	FLOOD RISK
360 minute summer	SWMBRE03	360	15.952	0.402	0.2	0.0640	0.0000	FLOOD RISK
360 minute summer	SWMBIC06	360	15.953	0.773	4.4	0.5014	0.0000	FLOOD RISK
360 minute summer	SWMBIC07	360	15.952	1.087	26.3	0.8406	0.0000	FLOOD RISK
360 minute summer	SWMBRE02	360	15.953	0.403	0.7	0.1373	0.0000	FLOOD RISK
360 minute summer	SWMBIC05	360	15.953	0.478	2.2	0.2173	0.0000	FLOOD RISK
360 minute summer	SWMBRE01	360	15.952	0.252	0.6	0.0765	0.0000	FLOOD RISK
360 minute summer	SWMBIC01	360	15.952	0.302	1.2	0.0851	0.0000	SURCHARGED
360 minute summer	SWMBIC02	360	15.952	0.352	1.2	0.0559	0.0000	SURCHARGED
360 minute summer	SWMBIC03	360	15.952	0.592	12.3	0.8604	0.0000	SURCHARGED
360 minute summer	SWMBRE05	360	15.953	0.198	3.0	0.1649	0.0000	OK
360 minute summer	SWMBIC04	360	15.952	0.682	17.5	0.6372	0.0000	SURCHARGED
360 minute summer	SWMBIC10	360	15.953	0.588	4.5	0.6074	0.0000	FLOOD RISK
360 minute summer	SWMBIC12	360	15.953	0.813	6.6	0.2301	0.0000	SURCHARGED
360 minute summer	SWMBRE06	360	15.953	0.403	0.2	0.0641	0.0000	SURCHARGED
360 minute summer	SWMBIC11	360	15.953	0.563	2.1	0.2674	0.0000	SURCHARGED
360 minute summer	SWMBIC14	360	15.953	0.998	16.3	1.1175	0.0000	FLOOD RISK
360 minute summer	SWMBIC13	360	15.953	0.418	2.1	0.2425	0.0000	FLOOD RISK
360 minute summer	SWMBRE08	360	15.953	0.353	0.2	0.0561	0.0000	FLOOD RISK
360 minute summer	SWMRE09	360	15.953	0.353	0.1	0.0561	0.0000	FLOOD RISK
360 minute summer	SWMBRE10	360	15.953	0.658	0.9	0.1119	0.0000	FLOOD RISK
360 minute summer	SWMBIC15	360	15.953	0.768	0.9	0.1222	0.0000	FLOOD RISK
360 minute summer	TANK	360	15.953	1.253	52.1	237.4003	0.0000	FLOOD RISK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
360 minute summer	SWMBRE04	6.000	SWMBIC08	-0.4	-0.038	-0.028	0.6472	
360 minute summer	SWMBIC08	6.001	SWMBIC09	3.2	0.517	0.056	0.7146	
360 minute summer	SWMBIC09	1.004	TANK	32.9	0.888	0.471	0.5281	
360 minute summer	SWMBRE03	5.000	SWMBIC06	-0.2	-0.016	-0.006	0.1338	
360 minute summer	SWMBIC06	4.002	SWMBIC07	4.3	0.725	0.256	0.3187	
360 minute summer	SWMBIC07	1.003	SWMBIC09	25.4	0.487	0.287	1.4902	
360 minute summer	SWMBRE02	4.000	SWMBIC05	0.7	0.303	0.040	0.1362	
360 minute summer	SWMBIC05	4.001	SWMBIC06	2.2	0.508	0.128	0.5608	
360 minute summer	SWMBRE01	2.000	SWMBIC01	0.6	0.321	0.037	0.1064	
360 minute summer	SWMBIC01	2.001	SWMBIC02	1.2	0.507	0.077	0.1148	
360 minute summer	SWMBIC02	2.002	SWMBIC03	1.2	0.520	0.075	0.2001	
360 minute summer	SWMBIC03	1.001	SWMBIC04	12.3	0.788	0.166	1.4293	
360 minute summer	SWMBRE05	1.000	SWMBIC03	2.9	0.615	0.070	1.8528	
360 minute summer	SWMBIC04	1.002	SWMBIC07	17.4	0.732	0.153	2.7377	
360 minute summer	SWMBIC10	9.000	SWMBIC12	4.5	0.665	0.077	0.7124	
360 minute summer	SWMBIC12	7.002	SWMBIC14	5.8	0.427	0.131	1.0078	
360 minute summer	SWMBRE06	7.000	SWMBIC11	0.2	0.015	0.012	0.2657	
360 minute summer	SWMBIC11	7.001	SWMBIC12	2.1	0.737	0.102	0.2324	
360 minute summer	SWMBIC14	7.003	TANK	15.7	0.824	0.372	0.2685	
360 minute summer	SWMBIC13	10.001	SWMBIC14	2.1	0.974	0.060	0.2328	
360 minute summer	SWMBRE08	11.000	SWMBIC13	-0.2	-0.027	-0.008	0.0628	
360 minute summer	SWMRE09	10.000	SWMBIC13	-0.1	0.027	-0.007	0.1297	
360 minute summer	SWMBRE10	12.000	SWMBIC15	0.9	0.619	0.032	0.0780	
360 minute summer	SWMBIC15	12.001	SWMBIC14	0.9	0.451	0.050	0.2649	
360 minute summer	TANK	1.005	SWMBIC17	4.5	0.492	0.045	0.1723	

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Results for 100 year +40% CC 360 minute summer. 600 minute analysis at 8 minute timestep. Mass balance: 98.97%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
360 minute summer	SWMBMN01	360	15.952	1.382	6.0	2.2859	0.0000	FLOOD RISK
360 minute summer	SW911	360	13.644	0.025	3.0	0.0000	0.0000	OK
360 minute summer	SWMBRE07	360	15.953	0.353	0.2	0.0064	0.0000	FLOOD RISK
360 minute summer	SWMBIC16	360	15.952	0.467	0.2	0.0743	0.0000	FLOOD RISK
360 minute summer	SWMBIC17	360	15.953	1.273	4.5	0.3602	0.0000	FLOOD RISK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
360 minute summer	SWMBMN01	1.007	SW911	3.0	1.570	0.058	0.0219	88.3
360 minute summer	SWMBRE07	8.000	SWMBIC11	-0.2	0.012	-0.007	0.2201	
360 minute summer	SWMBIC16	3.000	SWMBIC04	-0.2	-0.011	-0.010	0.1148	
360 minute summer	SWMBIC17	1.006	SWMBMN01	-3.6	0.134	-0.045	1.5233	

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Results for 100 year +40% CC 480 minute summer. 720 minute analysis at 8 minute timestep. Mass balance: 98.99%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
480 minute summer	SWMBRE04	480	16.000	0.650	0.4	0.0117	0.0000	FLOOD RISK
480 minute summer	SWMBIC08	472	16.000	0.970	3.2	0.7598	0.0000	FLOOD RISK
480 minute summer	SWMBIC09	472	16.000	1.270	25.7	0.9173	0.0000	FLOOD RISK
480 minute summer	SWMBRE03	480	16.000	0.450	0.3	0.0715	0.0000	FLOOD RISK
480 minute summer	SWMBIC06	472	16.000	0.820	3.5	0.5322	0.7865	FLOOD
480 minute summer	SWMBIC07	472	16.001	1.136	20.4	0.8781	0.0000	FLOOD RISK
480 minute summer	SWMBRE02	480	16.000	0.450	0.6	0.1535	0.0000	FLOOD RISK
480 minute summer	SWMBIC05	480	16.000	0.525	1.8	0.2389	0.0000	FLOOD RISK
480 minute summer	SWMBRE01	472	16.001	0.301	0.5	0.0916	0.0000	FLOOD RISK
480 minute summer	SWMBIC01	472	16.001	0.351	1.0	0.0991	0.0000	FLOOD RISK
480 minute summer	SWMBIC02	472	16.001	0.401	1.0	0.0638	0.0000	FLOOD RISK
480 minute summer	SWMBIC03	472	16.001	0.641	9.6	0.9319	0.0000	FLOOD RISK
480 minute summer	SWMBRE05	472	16.002	0.247	2.3	0.2058	0.0000	SURCHARGED
480 minute summer	SWMBIC04	472	16.001	0.731	13.6	0.6830	0.0000	SURCHARGED
480 minute summer	SWMBIC10	472	16.001	0.636	3.5	0.6565	0.0000	FLOOD RISK
480 minute summer	SWMBIC12	472	16.001	0.861	5.1	0.2435	0.0000	FLOOD RISK
480 minute summer	SWMBRE06	464	16.001	0.451	0.2	0.0717	0.0000	SURCHARGED
480 minute summer	SWMBIC11	464	16.001	0.611	1.6	0.2902	0.0000	FLOOD RISK
480 minute summer	SWMBIC14	472	16.001	1.046	13.1	1.1710	0.0000	FLOOD RISK
480 minute summer	SWMBIC13	472	16.000	0.465	1.6	0.2700	0.0000	FLOOD RISK
480 minute summer	SWMBRE08	472	16.000	0.400	0.2	0.0637	0.0000	FLOOD RISK
480 minute summer	SWMRE09	472	16.001	0.401	0.2	0.0637	0.0000	FLOOD RISK
480 minute summer	SWMBRE10	472	16.001	0.706	0.7	0.1200	0.0000	FLOOD RISK
480 minute summer	SWMBIC15	472	16.001	0.816	0.7	0.1297	0.0000	FLOOD RISK
480 minute summer	TANK	472	16.001	1.301	40.0	237.4080	0.0000	FLOOD RISK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
480 minute summer	SWMBRE04	6.000	SWMBIC08	-0.4	-0.022	-0.026	0.6472	
480 minute summer	SWMBIC08	6.001	SWMBIC09	2.7	0.496	0.047	0.7146	
480 minute summer	SWMBIC09	1.004	TANK	25.6	0.846	0.365	0.5281	
480 minute summer	SWMBRE03	5.000	SWMBIC06	-0.3	-0.016	-0.007	0.1338	
480 minute summer	SWMBIC06	4.002	SWMBIC07	3.4	0.685	0.203	0.3187	
480 minute summer	SWMBIC07	1.003	SWMBIC09	19.7	0.464	0.223	1.4902	
480 minute summer	SWMBRE02	4.000	SWMBIC05	0.6	0.296	0.034	0.1362	
480 minute summer	SWMBIC05	4.001	SWMBIC06	1.8	0.486	0.105	0.5608	
480 minute summer	SWMBRE01	2.000	SWMBIC01	0.5	0.306	0.031	0.1064	
480 minute summer	SWMBIC01	2.001	SWMBIC02	1.0	0.483	0.064	0.1148	
480 minute summer	SWMBIC02	2.002	SWMBIC03	1.0	0.496	0.063	0.2001	
480 minute summer	SWMBIC03	1.001	SWMBIC04	9.6	0.737	0.130	1.4293	
480 minute summer	SWMBRE05	1.000	SWMBIC03	2.3	0.573	0.054	1.9199	
480 minute summer	SWMBIC04	1.002	SWMBIC07	13.6	0.683	0.120	2.7377	
480 minute summer	SWMBIC10	9.000	SWMBIC12	3.5	0.638	0.060	0.7124	
480 minute summer	SWMBIC12	7.002	SWMBIC14	5.0	0.397	0.114	1.0078	
480 minute summer	SWMBRE06	7.000	SWMBIC11	-0.2	0.010	-0.009	0.2657	
480 minute summer	SWMBIC11	7.001	SWMBIC12	1.6	0.682	0.079	0.2324	
480 minute summer	SWMBIC14	7.003	TANK	12.3	0.764	0.291	0.2685	
480 minute summer	SWMBIC13	10.001	SWMBIC14	1.6	0.912	0.046	0.2328	
480 minute summer	SWMBRE08	11.000	SWMBIC13	-0.2	-0.021	-0.010	0.0628	
480 minute summer	SWMRE09	10.000	SWMBIC13	-0.2	-0.019	-0.014	0.1297	
480 minute summer	SWMBRE10	12.000	SWMBIC15	0.7	0.573	0.025	0.0780	
480 minute summer	SWMBIC15	12.001	SWMBIC14	0.7	0.442	0.038	0.2649	
480 minute summer	TANK	1.005	SWMBIC17	10.2	0.482	0.101	0.1723	

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Results for 100 year +40% CC 480 minute summer. 720 minute analysis at 8 minute timestep. Mass balance: 98.99%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
480 minute summer	SWMBMN01	472	16.000	1.430	4.6	2.3653	0.0000	FLOOD RISK
480 minute summer	SW911	472	13.644	0.025	3.0	0.0000	0.0000	OK
480 minute summer	SWMBRE07	472	16.000	0.400	0.1	0.0072	0.0000	FLOOD RISK
480 minute summer	SWMBIC16	472	16.001	0.516	0.2	0.0821	0.0000	FLOOD RISK
480 minute summer	SWMBIC17	472	16.000	1.320	10.2	0.3736	0.0000	FLOOD RISK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
480 minute summer	SWMBMN01	1.007	SW911	3.0	1.577	0.059	0.0222	106.4
480 minute summer	SWMBRE07	8.000	SWMBIC11	-0.1	-0.008	-0.006	0.2201	
480 minute summer	SWMBIC16	3.000	SWMBIC04	0.2	-0.023	0.009	0.1148	
480 minute summer	SWMBIC17	1.006	SWMBMN01	3.5	0.140	0.044	1.5233	

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Results for 100 year +40% CC 600 minute summer. 840 minute analysis at 15 minute timestep. Mass balance: 99.04%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
600 minute summer	SWMBRE04	600	15.895	0.545	0.2	0.0098	0.0000	FLOOD RISK
600 minute summer	SWMBIC08	600	15.895	0.865	2.6	0.6775	0.0000	FLOOD RISK
600 minute summer	SWMBIC09	600	15.895	1.165	20.9	0.8414	0.0000	FLOOD RISK
600 minute summer	SWMBRE03	600	15.895	0.345	0.1	0.0548	0.0000	FLOOD RISK
600 minute summer	SWMBIC06	600	15.895	0.715	2.8	0.4639	0.0000	FLOOD RISK
600 minute summer	SWMBIC07	600	15.895	1.030	16.5	0.7964	0.0000	FLOOD RISK
600 minute summer	SWMBRE02	600	15.895	0.345	0.5	0.1178	0.0000	FLOOD RISK
600 minute summer	SWMBIC05	600	15.895	0.420	1.4	0.1912	0.0000	FLOOD RISK
600 minute summer	SWMBRE01	600	15.895	0.195	0.4	0.0594	0.0000	SURCHARGED
600 minute summer	SWMBIC01	600	15.895	0.245	0.8	0.0692	0.0000	SURCHARGED
600 minute summer	SWMBIC02	600	15.895	0.295	0.8	0.0469	0.0000	SURCHARGED
600 minute summer	SWMBIC03	600	15.895	0.535	7.8	0.7776	0.0000	SURCHARGED
600 minute summer	SWMBRE05	600	15.895	0.140	1.9	0.1168	0.0000	OK
600 minute summer	SWMBIC04	600	15.895	0.625	11.0	0.5839	0.0000	SURCHARGED
600 minute summer	SWMBIC10	600	15.895	0.530	2.8	0.5477	0.0000	FLOOD RISK
600 minute summer	SWMBIC12	600	15.895	0.755	4.1	0.2138	0.0000	SURCHARGED
600 minute summer	SWMBRE06	600	15.896	0.346	0.0	0.0550	0.0000	SURCHARGED
600 minute summer	SWMBIC11	600	15.896	0.506	1.3	0.2403	0.0000	SURCHARGED
600 minute summer	SWMBIC14	600	15.896	0.941	10.5	1.0535	0.0000	FLOOD RISK
600 minute summer	SWMBIC13	600	15.896	0.361	1.3	0.2094	0.0000	SURCHARGED
600 minute summer	SWMBRE08	600	15.896	0.296	0.1	0.0471	0.0000	SURCHARGED
600 minute summer	SWMRE09	600	15.896	0.296	0.1	0.0471	0.0000	SURCHARGED
600 minute summer	SWMBRE10	600	15.896	0.601	0.6	0.1021	0.0000	FLOOD RISK
600 minute summer	SWMBIC15	600	15.896	0.711	0.6	0.1130	0.0000	FLOOD RISK
600 minute summer	TANK	600	15.896	1.196	31.5	237.3913	0.0000	FLOOD RISK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
600 minute summer	SWMBRE04	6.000	SWMBIC08	0.2	-0.010	0.011	0.6472	
600 minute summer	SWMBIC08	6.001	SWMBIC09	2.3	0.473	0.040	0.7146	
600 minute summer	SWMBIC09	1.004	TANK	20.8	0.800	0.297	0.5281	
600 minute summer	SWMBRE03	5.000	SWMBIC06	-0.1	-0.008	-0.004	0.1338	
600 minute summer	SWMBIC06	4.002	SWMBIC07	2.8	0.649	0.163	0.3187	
600 minute summer	SWMBIC07	1.003	SWMBIC09	15.7	0.447	0.177	1.4902	
600 minute summer	SWMBRE02	4.000	SWMBIC05	0.5	0.290	0.029	0.1362	
600 minute summer	SWMBIC05	4.001	SWMBIC06	1.4	0.447	0.082	0.5608	
600 minute summer	SWMBRE01	2.000	SWMBIC01	0.4	0.287	0.025	0.1064	
600 minute summer	SWMBIC01	2.001	SWMBIC02	0.8	0.454	0.052	0.1148	
600 minute summer	SWMBIC02	2.002	SWMBIC03	0.8	0.466	0.051	0.2001	
600 minute summer	SWMBIC03	1.001	SWMBIC04	7.8	0.696	0.106	1.4293	
600 minute summer	SWMBRE05	1.000	SWMBIC03	1.9	0.541	0.045	1.5865	
600 minute summer	SWMBIC04	1.002	SWMBIC07	11.0	0.651	0.097	2.7377	
600 minute summer	SWMBIC10	9.000	SWMBIC12	2.8	0.597	0.048	0.7124	
600 minute summer	SWMBIC12	7.002	SWMBIC14	4.1	0.386	0.091	1.0078	
600 minute summer	SWMBRE06	7.000	SWMBIC11	0.1	0.010	0.007	0.2657	
600 minute summer	SWMBIC11	7.001	SWMBIC12	1.3	0.642	0.064	0.2324	
600 minute summer	SWMBIC14	7.003	TANK	9.8	0.740	0.231	0.2685	
600 minute summer	SWMBIC13	10.001	SWMBIC14	1.3	0.833	0.037	0.2328	
600 minute summer	SWMBRE08	11.000	SWMBIC13	-0.1	-0.013	-0.006	0.0628	
600 minute summer	SWMRE09	10.000	SWMBIC13	-0.1	0.010	-0.006	0.1297	
600 minute summer	SWMBRE10	12.000	SWMBIC15	0.6	0.549	0.021	0.0780	
600 minute summer	SWMBIC15	12.001	SWMBIC14	0.6	0.414	0.033	0.2649	
600 minute summer	TANK	1.005	SWMBIC17	4.2	0.479	0.042	0.1723	

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Results for 100 year +40% CC 600 minute summer. 840 minute analysis at 15 minute timestep. Mass balance: 99.04%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
600 minute summer	SWMBMN01	600	15.895	1.325	3.7	2.1917	0.0000	FLOOD RISK
600 minute summer	SW911	600	13.643	0.024	2.9	0.0000	0.0000	OK
600 minute summer	SWMBRE07	600	15.896	0.296	0.2	0.0053	0.0000	SURCHARGED
600 minute summer	SWMBIC16	600	15.895	0.410	0.2	0.0652	0.0000	FLOOD RISK
600 minute summer	SWMBIC17	600	15.896	1.216	4.2	0.3440	0.0000	FLOOD RISK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
600 minute summer	SWMBMN01	1.007	SW911	2.9	1.561	0.057	0.0216	121.4
600 minute summer	SWMBRE07	8.000	SWMBIC11	-0.2	0.012	-0.007	0.2201	
600 minute summer	SWMBIC16	3.000	SWMBIC04	-0.2	-0.012	-0.012	0.1148	
600 minute summer	SWMBIC17	1.006	SWMBMN01	3.1	0.136	0.040	1.5233	

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Results for 100 year +40% CC 720 minute summer. 960 minute analysis at 15 minute timestep. Mass balance: 98.31%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
720 minute summer	SWMBRE04	645	15.616	0.266	0.1	0.0048	0.0000	SURCHARGED
720 minute summer	SWMBIC08	645	15.615	0.585	2.3	0.4584	0.0000	SURCHARGED
720 minute summer	SWMBIC09	675	15.615	0.885	17.9	0.6387	0.0000	SURCHARGED
720 minute summer	SWMBRE03	615	15.615	0.065	0.1	0.0103	0.0000	OK
720 minute summer	SWMBIC06	660	15.615	0.435	2.4	0.2822	0.0000	SURCHARGED
720 minute summer	SWMBIC07	675	15.615	0.750	14.3	0.5795	0.0000	SURCHARGED
720 minute summer	SWMBRE02	660	15.615	0.065	0.4	0.0220	0.0000	OK
720 minute summer	SWMBIC05	660	15.615	0.140	1.2	0.0636	0.0000	OK
720 minute summer	SWMBRE01	360	15.714	0.014	0.3	0.0043	0.0000	OK
720 minute summer	SWMBIC01	360	15.671	0.021	0.6	0.0058	0.0000	OK
720 minute summer	SWMBIC02	360	15.620	0.020	0.6	0.0032	0.0000	OK
720 minute summer	SWMBIC03	720	15.615	0.255	6.7	0.3699	0.0000	OK
720 minute summer	SWMBRE05	375	15.785	0.030	1.6	0.0250	0.0000	OK
720 minute summer	SWMBIC04	675	15.615	0.345	9.5	0.3219	0.0000	SURCHARGED
720 minute summer	SWMBIC10	615	15.615	0.250	2.4	0.2583	0.0000	SURCHARGED
720 minute summer	SWMBIC12	615	15.615	0.475	3.5	0.1344	0.0000	SURCHARGED
720 minute summer	SWMBRE06	690	15.615	0.065	0.0	0.0104	0.0000	OK
720 minute summer	SWMBIC11	615	15.615	0.225	1.1	0.1070	0.0000	SURCHARGED
720 minute summer	SWMBIC14	675	15.615	0.660	9.2	0.7393	0.0000	SURCHARGED
720 minute summer	SWMBIC13	615	15.616	0.081	1.1	0.0468	0.0000	OK
720 minute summer	SWMBRE08	615	15.616	0.016	0.1	0.0025	0.0000	OK
720 minute summer	SWMRE09	615	15.616	0.016	0.1	0.0025	0.0000	OK
720 minute summer	SWMBRE10	660	15.615	0.320	0.5	0.0545	0.0000	SURCHARGED
720 minute summer	SWMBIC15	675	15.615	0.430	0.5	0.0684	0.0000	SURCHARGED
720 minute summer	TANK	675	15.615	0.915	27.0	237.3396	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
720 minute summer	SWMBRE04	6.000	SWMBIC08	0.2	-0.011	0.012	0.6472	
720 minute summer	SWMBIC08	6.001	SWMBIC09	1.9	0.473	0.033	0.7146	
720 minute summer	SWMBIC09	1.004	TANK	17.8	0.750	0.255	0.5281	
720 minute summer	SWMBRE03	5.000	SWMBIC06	-0.1	-0.005	-0.002	0.0947	
720 minute summer	SWMBIC06	4.002	SWMBIC07	2.4	0.608	0.140	0.3187	
720 minute summer	SWMBIC07	1.003	SWMBIC09	13.5	0.436	0.153	1.4902	
720 minute summer	SWMBRE02	4.000	SWMBIC05	0.4	0.262	0.023	0.0942	
720 minute summer	SWMBIC05	4.001	SWMBIC06	1.2	0.428	0.070	0.5526	
720 minute summer	SWMBRE01	2.000	SWMBIC01	0.3	0.264	0.019	0.0069	
720 minute summer	SWMBIC01	2.001	SWMBIC02	0.6	0.418	0.039	0.0094	
720 minute summer	SWMBIC02	2.002	SWMBIC03	0.6	0.428	0.038	0.0798	
720 minute summer	SWMBIC03	1.001	SWMBIC04	6.7	0.665	0.091	1.3614	
720 minute summer	SWMBRE05	1.000	SWMBIC03	1.6	0.514	0.038	0.8378	
720 minute summer	SWMBIC04	1.002	SWMBIC07	9.5	0.602	0.084	2.7377	
720 minute summer	SWMBIC10	9.000	SWMBIC12	2.4	0.571	0.041	0.7124	
720 minute summer	SWMBIC12	7.002	SWMBIC14	3.5	0.377	0.078	1.0078	
720 minute summer	SWMBRE06	7.000	SWMBIC11	0.1	0.008	0.006	0.1884	
720 minute summer	SWMBIC11	7.001	SWMBIC12	1.1	0.614	0.054	0.2324	
720 minute summer	SWMBIC14	7.003	TANK	8.5	0.698	0.201	0.2685	
720 minute summer	SWMBIC13	10.001	SWMBIC14	1.1	0.808	0.032	0.1801	
720 minute summer	SWMBRE08	11.000	SWMBIC13	0.1	0.017	0.003	0.0190	
720 minute summer	SWMRE09	10.000	SWMBIC13	0.1	0.020	0.006	0.0392	
720 minute summer	SWMBRE10	12.000	SWMBIC15	0.5	0.518	0.018	0.0780	
720 minute summer	SWMBIC15	12.001	SWMBIC14	0.5	0.383	0.028	0.2649	
720 minute summer	TANK	1.005	SWMBIC17	5.0	0.496	0.050	0.1723	

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Results for 100 year +40% CC 720 minute summer. 960 minute analysis at 15 minute timestep. Mass balance: 98.31%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
720 minute summer	SWMBMN01	705	15.616	1.046	3.3	1.7305	0.0000	SURCHARGED
720 minute summer	SW911	675	13.642	0.023	2.6	0.0000	0.0000	OK
720 minute summer	SWMBRE07	615	15.616	0.016	0.1	0.0003	0.0000	OK
720 minute summer	SWMBIC16	615	15.615	0.130	0.2	0.0206	0.0000	OK
720 minute summer	SWMBIC17	660	15.616	0.936	5.0	0.2648	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
720 minute summer	SWMBMN01	1.007	SW911	2.6	1.514	0.051	0.0200	134.3
720 minute summer	SWMBRE07	8.000	SWMBIC11	0.1	0.009	0.004	0.1162	
720 minute summer	SWMBIC16	3.000	SWMBIC04	-0.2	-0.009	-0.009	0.1102	
720 minute summer	SWMBIC17	1.006	SWMBMN01	3.3	0.141	0.042	1.5233	

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Results for 1 year Critical Storm Duration. Lowest 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	SWMBRE04	15	15.350	0.000	0.0	0.0000	0.0000	OK
960 minute summer	SWMBIC08	480	15.042	0.012	0.3	0.0092	0.0000	OK
960 minute summer	SWMBIC09	480	14.772	0.042	2.7	0.0301	0.0000	OK
960 minute summer	SWMBRE03	15	15.550	0.000	0.0	0.0000	0.0000	OK
960 minute summer	SWMBIC06	495	15.196	0.016	0.4	0.0104	0.0000	OK
960 minute summer	SWMBIC07	495	14.896	0.031	2.0	0.0240	0.0000	OK
960 minute summer	SWMBRE02	480	15.558	0.008	0.1	0.0028	0.0000	OK
960 minute summer	SWMBIC05	480	15.486	0.011	0.2	0.0052	0.0000	OK
960 minute summer	SWMBRE01	15	15.700	0.000	0.0	0.0000	0.0000	OK
960 minute summer	SWMBIC01	15	15.650	0.000	0.0	0.0000	0.0000	OK
960 minute summer	SWMBIC02	15	15.600	0.000	0.0	0.0000	0.0000	OK
960 minute summer	SWMBIC03	480	15.382	0.022	0.8	0.0323	0.0000	OK
960 minute summer	SWMBRE05	480	15.766	0.011	0.2	0.0095	0.0000	OK
960 minute summer	SWMBIC04	480	15.292	0.022	1.2	0.0203	0.0000	OK
960 minute summer	SWMBIC10	465	15.377	0.012	0.3	0.0121	0.0000	OK
960 minute summer	SWMBIC12	495	15.157	0.017	0.5	0.0048	0.0000	OK
960 minute summer	SWMBRE06	15	15.550	0.000	0.0	0.0000	0.0000	OK
960 minute summer	SWMBIC11	495	15.401	0.011	0.2	0.0051	0.0000	OK
960 minute summer	SWMBIC14	495	14.984	0.029	1.4	0.0323	0.0000	OK
960 minute summer	SWMBIC13	495	15.543	0.008	0.2	0.0048	0.0000	OK
960 minute summer	SWMBRE08	15	15.600	0.000	0.0	0.0000	0.0000	OK
960 minute summer	SWMRE09	15	15.600	0.000	0.0	0.0000	0.0000	OK
960 minute summer	SWMBRE10	465	15.302	0.007	0.1	0.0011	0.0000	OK
960 minute summer	SWMBIC15	465	15.193	0.008	0.1	0.0013	0.0000	OK
960 minute summer	TANK	570	14.765	0.065	4.1	16.7954	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)
960 minute summer	SWMBRE04	6.000	SWMBIC08	0.0	0.000	0.000	0.0000	
960 minute summer	SWMBIC08	6.001	SWMBIC09	0.3	0.384	0.005	0.0140	
960 minute summer	SWMBIC09	1.004	TANK	2.7	0.472	0.039	0.0598	
960 minute summer	SWMBRE03	5.000	SWMBIC06	0.0	0.000	0.000	0.0038	
960 minute summer	SWMBIC06	4.002	SWMBIC07	0.4	0.399	0.024	0.0181	
960 minute summer	SWMBIC07	1.003	SWMBIC09	2.0	0.427	0.023	0.1029	
960 minute summer	SWMBRE02	4.000	SWMBIC05	0.1	0.207	0.006	0.0038	
960 minute summer	SWMBIC05	4.001	SWMBIC06	0.2	0.249	0.012	0.0258	
960 minute summer	SWMBRE01	2.000	SWMBIC01	0.0	0.000	0.000	0.0000	
960 minute summer	SWMBIC01	2.001	SWMBIC02	0.0	0.000	0.000	0.0000	
960 minute summer	SWMBIC02	2.002	SWMBIC03	0.0	0.000	0.000	0.0000	
960 minute summer	SWMBIC03	1.001	SWMBIC04	0.8	0.348	0.011	0.0467	
960 minute summer	SWMBRE05	1.000	SWMBIC03	0.2	0.278	0.005	0.0348	
960 minute summer	SWMBIC04	1.002	SWMBIC07	1.2	0.410	0.011	0.1183	
960 minute summer	SWMBIC10	9.000	SWMBIC12	0.3	0.313	0.005	0.0189	
960 minute summer	SWMBIC12	7.002	SWMBIC14	0.5	0.238	0.011	0.0544	
960 minute summer	SWMBRE06	7.000	SWMBIC11	0.0	0.000	0.000	0.0041	
960 minute summer	SWMBIC11	7.001	SWMBIC12	0.2	0.368	0.010	0.0072	
960 minute summer	SWMBIC14	7.003	TANK	1.4	0.485	0.033	0.0195	
960 minute summer	SWMBIC13	10.001	SWMBIC14	0.2	0.531	0.006	0.0050	
960 minute summer	SWMBRE08	11.000	SWMBIC13	0.0	0.000	0.000	0.0007	
960 minute summer	SWMRE09	10.000	SWMBIC13	0.0	0.000	0.000	0.0014	
960 minute summer	SWMBRE10	12.000	SWMBIC15	0.1	0.320	0.004	0.0014	
960 minute summer	SWMBIC15	12.001	SWMBIC14	0.1	0.273	0.006	0.0055	
960 minute summer	TANK	1.005	SWMBIC17	2.3	0.493	0.023	0.0335	

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Results for 1 year Critical Storm Duration. Lowest 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	SWMBMN01	570	14.764	0.194	2.4	0.3216	0.0000	SURCHARGED
960 minute summer	SW911	570	13.641	0.022	2.4	0.0000	0.0000	OK
960 minute summer	SWMBRE07	15	15.600	0.000	0.0	0.0000	0.0000	OK
960 minute summer	SWMBIC16	15	15.485	0.000	0.0	0.0000	0.0000	OK
960 minute summer	SWMBIC17	570	14.765	0.085	2.3	0.0239	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)
960 minute summer	SWMBMN01	1.007	SW911	2.4	1.475	0.047	0.0188	59.5
960 minute summer	SWMBRE07	8.000	SWMBIC11	0.0	0.000	0.000	0.0034	
960 minute summer	SWMBIC16	3.000	SWMBIC04	0.0	0.000	0.000	0.0000	
960 minute summer	SWMBIC17	1.006	SWMBMN01	2.3	0.143	0.029	0.6983	

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Results for 30 year Critical Storm Duration. Lowest 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	SWMBRE04	15	15.350	0.000	0.0	0.0000	0.0000	OK
960 minute summer	SWMBIC08	675	15.070	0.040	1.0	0.0316	0.0000	OK
960 minute summer	SWMBIC09	675	15.070	0.340	8.1	0.2458	0.0000	SURCHARGED
960 minute summer	SWMBRE03	15	15.550	0.000	0.0	0.0000	0.0000	OK
960 minute summer	SWMBIC06	495	15.205	0.025	1.0	0.0162	0.0000	OK
960 minute summer	SWMBIC07	675	15.070	0.205	6.1	0.1588	0.0000	OK
960 minute summer	SWMBRE02	495	15.561	0.011	0.2	0.0039	0.0000	OK
960 minute summer	SWMBIC05	495	15.493	0.018	0.5	0.0080	0.0000	OK
960 minute summer	SWMBRE01	405	15.709	0.009	0.1	0.0026	0.0000	OK
960 minute summer	SWMBIC01	405	15.662	0.012	0.2	0.0034	0.0000	OK
960 minute summer	SWMBIC02	405	15.612	0.012	0.2	0.0019	0.0000	OK
960 minute summer	SWMBIC03	495	15.400	0.040	2.8	0.0588	0.0000	OK
960 minute summer	SWMBRE05	495	15.775	0.020	0.7	0.0169	0.0000	OK
960 minute summer	SWMBIC04	495	15.308	0.038	4.0	0.0358	0.0000	OK
960 minute summer	SWMBIC10	495	15.386	0.021	1.0	0.0212	0.0000	OK
960 minute summer	SWMBIC12	495	15.168	0.028	1.5	0.0080	0.0000	OK
960 minute summer	SWMBRE06	15	15.550	0.000	0.0	0.0000	0.0000	OK
960 minute summer	SWMBIC11	495	15.406	0.016	0.5	0.0078	0.0000	OK
960 minute summer	SWMBIC14	675	15.070	0.115	3.9	0.1293	0.0000	OK
960 minute summer	SWMBIC13	495	15.548	0.013	0.5	0.0074	0.0000	OK
960 minute summer	SWMBRE08	15	15.600	0.000	0.0	0.0000	0.0000	OK
960 minute summer	SWMRE09	15	15.600	0.000	0.0	0.0000	0.0000	OK
960 minute summer	SWMBRE10	465	15.304	0.009	0.2	0.0016	0.0000	OK
960 minute summer	SWMBIC15	465	15.196	0.011	0.2	0.0018	0.0000	OK
960 minute summer	TANK	675	15.070	0.370	11.8	96.1215	0.0000	SURCHARGED

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
960 minute summer	SWMBRE04	6.000	SWMBIC08	0.0	0.000	0.000	0.0000	
960 minute summer	SWMBIC08	6.001	SWMBIC09	1.0	0.473	0.017	0.4007	
960 minute summer	SWMBIC09	1.004	TANK	7.9	0.573	0.113	0.5281	
960 minute summer	SWMBRE03	5.000	SWMBIC06	0.0	0.000	0.000	0.0073	
960 minute summer	SWMBIC06	4.002	SWMBIC07	1.0	0.524	0.059	0.0590	
960 minute summer	SWMBIC07	1.003	SWMBIC09	6.0	0.470	0.068	1.2891	
960 minute summer	SWMBRE02	4.000	SWMBIC05	0.2	0.231	0.011	0.0068	
960 minute summer	SWMBIC05	4.001	SWMBIC06	0.5	0.327	0.029	0.0491	
960 minute summer	SWMBRE01	2.000	SWMBIC01	0.1	0.192	0.006	0.0032	
960 minute summer	SWMBIC01	2.001	SWMBIC02	0.2	0.303	0.013	0.0043	
960 minute summer	SWMBIC02	2.002	SWMBIC03	0.2	0.308	0.013	0.0074	
960 minute summer	SWMBIC03	1.001	SWMBIC04	2.8	0.515	0.038	0.1104	
960 minute summer	SWMBRE05	1.000	SWMBIC03	0.7	0.402	0.017	0.0842	
960 minute summer	SWMBIC04	1.002	SWMBIC07	4.0	0.594	0.035	1.0292	
960 minute summer	SWMBIC10	9.000	SWMBIC12	1.0	0.435	0.017	0.0417	
960 minute summer	SWMBIC12	7.002	SWMBIC14	1.5	0.335	0.034	0.2715	
960 minute summer	SWMBRE06	7.000	SWMBIC11	0.0	0.000	0.000	0.0078	
960 minute summer	SWMBIC11	7.001	SWMBIC12	0.5	0.486	0.024	0.0136	
960 minute summer	SWMBIC14	7.003	TANK	3.9	0.647	0.092	0.1713	
960 minute summer	SWMBIC13	10.001	SWMBIC14	0.5	0.705	0.014	0.0268	
960 minute summer	SWMBRE08	11.000	SWMBIC13	0.0	0.000	0.000	0.0013	
960 minute summer	SWMRE09	10.000	SWMBIC13	0.0	0.000	0.000	0.0026	
960 minute summer	SWMBRE10	12.000	SWMBIC15	0.2	0.393	0.007	0.0023	
960 minute summer	SWMBIC15	12.001	SWMBIC14	0.2	0.337	0.011	0.0288	
960 minute summer	TANK	1.005	SWMBIC17	5.9	0.493	0.059	0.1723	

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Results for 30 year Critical Storm Duration. Lowest 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	SWMBMN01	675	15.072	0.502	3.1	0.8296	0.0000	SURCHARGED
1440 minute summer	SW911	1440	13.642	0.023	2.5	0.0000	0.0000	OK
960 minute summer	SWMBRE07	15	15.600	0.000	0.0	0.0000	0.0000	OK
960 minute summer	SWMBIC16	15	15.485	0.000	0.0	0.0000	0.0000	OK
960 minute summer	SWMBIC17	675	15.071	0.391	5.9	0.1107	0.0000	SURCHARGED

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
960 minute summer	SWMBMN01	1.007	SW911	2.5	1.490	0.048	0.0192	145.4
960 minute summer	SWMBRE07	8.000	SWMBIC11	0.0	0.000	0.000	0.0065	
960 minute summer	SWMBIC16	3.000	SWMBIC04	0.0	0.000	0.000	0.0000	
960 minute summer	SWMBIC17	1.006	SWMBMN01	3.0	0.144	0.039	1.5233	

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Results for 100 year +40% CC Critical Storm Duration. Lowest mass balance: 99.32%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
960 minute summer	SWMBRE04	825	15.579	0.229	0.1	0.0041	0.0000	SURCHARGED
960 minute summer	SWMBIC08	825	15.578	0.548	1.8	0.4293	0.0000	SURCHARGED
960 minute summer	SWMBIC09	810	15.578	0.848	14.7	0.6124	0.0000	SURCHARGED
960 minute summer	SWMBRE03	810	15.579	0.029	0.0	0.0045	0.0000	OK
960 minute summer	SWMBIC06	810	15.578	0.398	1.9	0.2586	0.0000	SURCHARGED
960 minute summer	SWMBIC07	810	15.578	0.713	11.6	0.5513	0.0000	SURCHARGED
960 minute summer	SWMBRE02	810	15.578	0.028	0.3	0.0096	0.0000	OK
960 minute summer	SWMBIC05	825	15.578	0.103	0.9	0.0469	0.0000	OK
960 minute summer	SWMBRE01	495	15.714	0.014	0.3	0.0043	0.0000	OK
960 minute summer	SWMBIC01	495	15.671	0.021	0.6	0.0058	0.0000	OK
960 minute summer	SWMBIC02	495	15.620	0.020	0.6	0.0032	0.0000	OK
960 minute summer	SWMBIC03	810	15.578	0.218	5.4	0.3170	0.0000	OK
960 minute summer	SWMBRE05	495	15.782	0.027	1.3	0.0226	0.0000	OK
960 minute summer	SWMBIC04	810	15.578	0.308	7.7	0.2879	0.0000	SURCHARGED
960 minute summer	SWMBIC10	825	15.578	0.213	1.9	0.2201	0.0000	OK
960 minute summer	SWMBIC12	810	15.578	0.438	2.8	0.1240	0.0000	SURCHARGED
960 minute summer	SWMBRE06	810	15.578	0.028	0.0	0.0045	0.0000	OK
960 minute summer	SWMBIC11	810	15.578	0.188	0.9	0.0894	0.0000	SURCHARGED
960 minute summer	SWMBIC14	810	15.578	0.623	7.3	0.6979	0.0000	SURCHARGED
960 minute summer	SWMBIC13	810	15.578	0.043	0.9	0.0250	0.0000	OK
960 minute summer	SWMBRE08	15	15.600	0.000	0.0	0.0000	0.0000	OK
960 minute summer	SWMRE09	15	15.600	0.000	0.0	0.0000	0.0000	OK
960 minute summer	SWMBRE10	825	15.578	0.283	0.4	0.0481	0.0000	SURCHARGED
960 minute summer	SWMBIC15	825	15.578	0.393	0.4	0.0625	0.0000	SURCHARGED
960 minute summer	TANK	810	15.578	0.878	21.1	227.9211	0.0000	SURCHARGED

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
960 minute summer	SWMBRE04	6.000	SWMBIC08	-0.1	-0.008	-0.007	0.6472	
960 minute summer	SWMBIC08	6.001	SWMBIC09	1.5	0.449	0.026	0.7146	
960 minute summer	SWMBIC09	1.004	TANK	14.6	0.727	0.208	0.5281	
960 minute summer	SWMBRE03	5.000	SWMBIC06	0.0	-0.003	0.001	0.0758	
960 minute summer	SWMBIC06	4.002	SWMBIC07	1.9	0.576	0.112	0.3187	
960 minute summer	SWMBIC07	1.003	SWMBIC09	11.2	0.432	0.127	1.4902	
960 minute summer	SWMBRE02	4.000	SWMBIC05	0.3	0.241	0.017	0.0588	
960 minute summer	SWMBIC05	4.001	SWMBIC06	0.9	0.393	0.053	0.4860	
960 minute summer	SWMBRE01	2.000	SWMBIC01	0.3	0.264	0.019	0.0069	
960 minute summer	SWMBIC01	2.001	SWMBIC02	0.6	0.418	0.039	0.0094	
960 minute summer	SWMBIC02	2.002	SWMBIC03	0.6	0.428	0.038	0.0443	
960 minute summer	SWMBIC03	1.001	SWMBIC04	5.4	0.624	0.073	1.2717	
960 minute summer	SWMBRE05	1.000	SWMBIC03	1.3	0.483	0.031	0.6575	
960 minute summer	SWMBIC04	1.002	SWMBIC07	7.7	0.599	0.068	2.7377	
960 minute summer	SWMBIC10	9.000	SWMBIC12	1.9	0.530	0.033	0.7049	
960 minute summer	SWMBIC12	7.002	SWMBIC14	2.8	0.374	0.063	1.0078	
960 minute summer	SWMBRE06	7.000	SWMBIC11	0.0	0.003	0.002	0.1501	
960 minute summer	SWMBIC11	7.001	SWMBIC12	0.9	0.579	0.044	0.2324	
960 minute summer	SWMBIC14	7.003	TANK	6.8	0.687	0.159	0.2685	
960 minute summer	SWMBIC13	10.001	SWMBIC14	0.9	0.778	0.026	0.1440	
960 minute summer	SWMBRE08	11.000	SWMBIC13	0.0	0.000	0.000	0.0074	
960 minute summer	SWMRE09	10.000	SWMBIC13	0.0	0.000	0.000	0.0154	
960 minute summer	SWMBRE10	12.000	SWMBIC15	0.4	0.485	0.014	0.0780	
960 minute summer	SWMBIC15	12.001	SWMBIC14	0.4	0.383	0.022	0.2649	
960 minute summer	TANK	1.005	SWMBIC17	5.0	0.489	0.050	0.1723	

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Results for 100 year +40% CC Critical Storm Duration. Lowest mass balance: 99.32%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
960 minute summer	SWMBMN01	780	15.579	1.009	3.3	1.6686	0.0000	SURCHARGED
960 minute summer	SW911	870	13.642	0.023	2.6	0.0000	0.0000	OK
960 minute summer	SWMBRE07	15	15.600	0.000	0.0	0.0000	0.0000	OK
960 minute summer	SWMBIC16	810	15.578	0.093	0.0	0.0148	0.0000	OK
960 minute summer	SWMBIC17	840	15.579	0.899	5.0	0.2544	0.0000	SURCHARGED

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
960 minute summer	SWMBMN01	1.007	SW911	2.6	1.507	0.050	0.0198	165.6
960 minute summer	SWMBRE07	8.000	SWMBIC11	0.0	0.000	0.000	0.1100	
960 minute summer	SWMBIC16	3.000	SWMBIC04	0.0	0.004	0.002	0.0950	
960 minute summer	SWMBIC17	1.006	SWMBMN01	3.0	0.145	0.039	1.5233	

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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	SWMBRE04	15	15.350	0.000	0.0	0.0000	0.0000	OK
960 minute summer	SWMBIC08	480	15.042	0.012	0.3	0.0092	0.0000	OK
960 minute summer	SWMBIC09	480	14.772	0.042	2.7	0.0301	0.0000	OK
960 minute summer	SWMBRE03	15	15.550	0.000	0.0	0.0000	0.0000	OK
960 minute summer	SWMBIC06	495	15.196	0.016	0.4	0.0104	0.0000	OK
960 minute summer	SWMBIC07	495	14.896	0.031	2.0	0.0240	0.0000	OK
960 minute summer	SWMBRE02	480	15.558	0.008	0.1	0.0028	0.0000	OK
960 minute summer	SWMBIC05	480	15.486	0.011	0.2	0.0052	0.0000	OK
960 minute summer	SWMBRE01	15	15.700	0.000	0.0	0.0000	0.0000	OK
960 minute summer	SWMBIC01	15	15.650	0.000	0.0	0.0000	0.0000	OK
960 minute summer	SWMBIC02	15	15.600	0.000	0.0	0.0000	0.0000	OK
960 minute summer	SWMBIC03	480	15.382	0.022	0.8	0.0323	0.0000	OK
960 minute summer	SWMBRE05	480	15.766	0.011	0.2	0.0095	0.0000	OK
960 minute summer	SWMBIC04	480	15.292	0.022	1.2	0.0203	0.0000	OK
960 minute summer	SWMBIC10	465	15.377	0.012	0.3	0.0121	0.0000	OK
960 minute summer	SWMBIC12	495	15.157	0.017	0.5	0.0048	0.0000	OK
960 minute summer	SWMBRE06	15	15.550	0.000	0.0	0.0000	0.0000	OK
960 minute summer	SWMBIC11	495	15.401	0.011	0.2	0.0051	0.0000	OK
960 minute summer	SWMBIC14	495	14.984	0.029	1.4	0.0323	0.0000	OK
960 minute summer	SWMBIC13	495	15.543	0.008	0.2	0.0048	0.0000	OK
960 minute summer	SWMBRE08	15	15.600	0.000	0.0	0.0000	0.0000	OK
960 minute summer	SWMRE09	15	15.600	0.000	0.0	0.0000	0.0000	OK
960 minute summer	SWMBRE10	465	15.302	0.007	0.1	0.0011	0.0000	OK
960 minute summer	SWMBIC15	465	15.193	0.008	0.1	0.0013	0.0000	OK
960 minute summer	TANK	570	14.765	0.065	4.1	16.7954	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	SWMBRE04	6.000	SWMBIC08	0.0	0.000	0.000	0.0000	
960 minute summer	SWMBIC08	6.001	SWMBIC09	0.3	0.384	0.005	0.0140	
960 minute summer	SWMBIC09	1.004	TANK	2.7	0.472	0.039	0.0598	
960 minute summer	SWMBRE03	5.000	SWMBIC06	0.0	0.000	0.000	0.0038	
960 minute summer	SWMBIC06	4.002	SWMBIC07	0.4	0.399	0.024	0.0181	
960 minute summer	SWMBIC07	1.003	SWMBIC09	2.0	0.427	0.023	0.1029	
960 minute summer	SWMBRE02	4.000	SWMBIC05	0.1	0.207	0.006	0.0038	
960 minute summer	SWMBIC05	4.001	SWMBIC06	0.2	0.249	0.012	0.0258	
960 minute summer	SWMBRE01	2.000	SWMBIC01	0.0	0.000	0.000	0.0000	
960 minute summer	SWMBIC01	2.001	SWMBIC02	0.0	0.000	0.000	0.0000	
960 minute summer	SWMBIC02	2.002	SWMBIC03	0.0	0.000	0.000	0.0000	
960 minute summer	SWMBIC03	1.001	SWMBIC04	0.8	0.348	0.011	0.0467	
960 minute summer	SWMBRE05	1.000	SWMBIC03	0.2	0.278	0.005	0.0348	
960 minute summer	SWMBIC04	1.002	SWMBIC07	1.2	0.410	0.011	0.1183	
960 minute summer	SWMBIC10	9.000	SWMBIC12	0.3	0.313	0.005	0.0189	
960 minute summer	SWMBIC12	7.002	SWMBIC14	0.5	0.238	0.011	0.0544	
960 minute summer	SWMBRE06	7.000	SWMBIC11	0.0	0.000	0.000	0.0041	
960 minute summer	SWMBIC11	7.001	SWMBIC12	0.2	0.368	0.010	0.0072	
960 minute summer	SWMBIC14	7.003	TANK	1.4	0.485	0.033	0.0195	
960 minute summer	SWMBIC13	10.001	SWMBIC14	0.2	0.531	0.006	0.0050	
960 minute summer	SWMBRE08	11.000	SWMBIC13	0.0	0.000	0.000	0.0007	
960 minute summer	SWMRE09	10.000	SWMBIC13	0.0	0.000	0.000	0.0014	
960 minute summer	SWMBRE10	12.000	SWMBIC15	0.1	0.320	0.004	0.0014	
960 minute summer	SWMBIC15	12.001	SWMBIC14	0.1	0.273	0.006	0.0055	
960 minute summer	TANK	1.005	SWMBIC17	2.3	0.493	0.023	0.0335	

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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	SWMBMN01	570	14.764	0.194	2.4	0.3216	0.0000	SURCHARGED
960 minute summer	SW911	570	13.641	0.022	2.4	0.0000	0.0000	OK
960 minute summer	SWMBRE07	15	15.600	0.000	0.0	0.0000	0.0000	OK
960 minute summer	SWMBIC16	15	15.485	0.000	0.0	0.0000	0.0000	OK
960 minute summer	SWMBIC17	570	14.765	0.085	2.3	0.0239	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	SWMBMN01	1.007	SW911	2.4	1.475	0.047	0.0188	59.5
960 minute summer	SWMBRE07	8.000	SWMBIC11	0.0	0.000	0.000	0.0034	
960 minute summer	SWMBIC16	3.000	SWMBIC04	0.0	0.000	0.000	0.0000	
960 minute summer	SWMBIC17	1.006	SWMBMN01	2.3	0.143	0.029	0.6983	

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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	SWMBRE04	30	15.350	0.000	0.0	0.0000	0.0000	OK
1440 minute summer	SWMBIC08	690	15.040	0.010	0.2	0.0077	0.0000	OK
1440 minute summer	SWMBIC09	720	14.766	0.036	2.0	0.0257	0.0000	OK
1440 minute summer	SWMBRE03	30	15.550	0.000	0.0	0.0000	0.0000	OK
1440 minute summer	SWMBIC06	690	15.192	0.012	0.2	0.0075	0.0000	OK
1440 minute summer	SWMBIC07	750	14.892	0.027	1.5	0.0209	0.0000	OK
1440 minute summer	SWMBRE02	30	15.550	0.000	0.0	0.0000	0.0000	OK
1440 minute summer	SWMBIC05	690	15.483	0.008	0.1	0.0038	0.0000	OK
1440 minute summer	SWMBRE01	30	15.700	0.000	0.0	0.0000	0.0000	OK
1440 minute summer	SWMBIC01	30	15.650	0.000	0.0	0.0000	0.0000	OK
1440 minute summer	SWMBIC02	30	15.600	0.000	0.0	0.0000	0.0000	OK
1440 minute summer	SWMBIC03	750	15.381	0.021	0.7	0.0306	0.0000	OK
1440 minute summer	SWMBRE05	750	15.766	0.011	0.2	0.0095	0.0000	OK
1440 minute summer	SWMBIC04	750	15.290	0.020	1.0	0.0188	0.0000	OK
1440 minute summer	SWMBIC10	750	15.377	0.012	0.3	0.0121	0.0000	OK
1440 minute summer	SWMBIC12	750	15.155	0.015	0.4	0.0043	0.0000	OK
1440 minute summer	SWMBRE06	30	15.550	0.000	0.0	0.0000	0.0000	OK
1440 minute summer	SWMBIC11	630	15.398	0.008	0.1	0.0036	0.0000	OK
1440 minute summer	SWMBIC14	750	14.980	0.025	1.0	0.0275	0.0000	OK
1440 minute summer	SWMBIC13	630	15.541	0.006	0.1	0.0035	0.0000	OK
1440 minute summer	SWMBRE08	30	15.600	0.000	0.0	0.0000	0.0000	OK
1440 minute summer	SWMRE09	30	15.600	0.000	0.0	0.0000	0.0000	OK
1440 minute summer	SWMBRE10	750	15.302	0.007	0.1	0.0011	0.0000	OK
1440 minute summer	SWMBIC15	750	15.193	0.008	0.1	0.0013	0.0000	OK
1440 minute summer	TANK	810	14.745	0.045	3.0	11.6106	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	SWMBRE04	6.000	SWMBIC08	0.0	0.000	0.000	0.0000	
1440 minute summer	SWMBIC08	6.001	SWMBIC09	0.2	0.343	0.003	0.0105	
1440 minute summer	SWMBIC09	1.004	TANK	2.0	0.429	0.029	0.0386	
1440 minute summer	SWMBRE03	5.000	SWMBIC06	0.0	0.000	0.000	0.0024	
1440 minute summer	SWMBIC06	4.002	SWMBIC07	0.2	0.324	0.012	0.0112	
1440 minute summer	SWMBIC07	1.003	SWMBIC09	1.5	0.387	0.017	0.0825	
1440 minute summer	SWMBRE02	4.000	SWMBIC05	0.0	0.000	0.000	0.0015	
1440 minute summer	SWMBIC05	4.001	SWMBIC06	0.1	0.204	0.006	0.0159	
1440 minute summer	SWMBRE01	2.000	SWMBIC01	0.0	0.000	0.000	0.0000	
1440 minute summer	SWMBIC01	2.001	SWMBIC02	0.0	0.000	0.000	0.0000	
1440 minute summer	SWMBIC02	2.002	SWMBIC03	0.0	0.000	0.000	0.0000	
1440 minute summer	SWMBIC03	1.001	SWMBIC04	0.7	0.338	0.009	0.0420	
1440 minute summer	SWMBRE05	1.000	SWMBIC03	0.2	0.278	0.005	0.0348	
1440 minute summer	SWMBIC04	1.002	SWMBIC07	1.0	0.392	0.009	0.0994	
1440 minute summer	SWMBIC10	9.000	SWMBIC12	0.3	0.313	0.005	0.0172	
1440 minute summer	SWMBIC12	7.002	SWMBIC14	0.4	0.235	0.009	0.0439	
1440 minute summer	SWMBRE06	7.000	SWMBIC11	0.0	0.000	0.000	0.0025	
1440 minute summer	SWMBIC11	7.001	SWMBIC12	0.1	0.298	0.005	0.0044	
1440 minute summer	SWMBIC14	7.003	TANK	1.0	0.439	0.024	0.0154	
1440 minute summer	SWMBIC13	10.001	SWMBIC14	0.1	0.436	0.003	0.0030	
1440 minute summer	SWMBRE08	11.000	SWMBIC13	0.0	0.000	0.000	0.0004	
1440 minute summer	SWMRE09	10.000	SWMBIC13	0.0	0.000	0.000	0.0009	
1440 minute summer	SWMBRE10	12.000	SWMBIC15	0.1	0.317	0.004	0.0014	
1440 minute summer	SWMBIC15	12.001	SWMBIC14	0.1	0.273	0.006	0.0055	
1440 minute summer	TANK	1.005	SWMBIC17	2.6	0.477	0.025	0.0214	

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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	SWMBMN01	810	14.745	0.175	2.5	0.2889	0.0000	SURCHARGED
1440 minute summer	SW911	810	13.641	0.022	2.4	0.0000	0.0000	OK
1440 minute summer	SWMBRE07	30	15.600	0.000	0.0	0.0000	0.0000	OK
1440 minute summer	SWMBIC16	30	15.485	0.000	0.0	0.0000	0.0000	OK
1440 minute summer	SWMBIC17	780	14.744	0.064	2.6	0.0181	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	SWMBMN01	1.007	SW911	2.4	1.466	0.046	0.0185	58.1
1440 minute summer	SWMBRE07	8.000	SWMBIC11	0.0	0.000	0.000	0.0021	
1440 minute summer	SWMBIC16	3.000	SWMBIC04	0.0	0.000	0.000	0.0000	
1440 minute summer	SWMBIC17	1.006	SWMBMN01	2.3	0.146	0.029	0.5785	

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Results for 1 year 2160 minute summer. 2400 minute analysis at 60 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
2160 minute summer	SWMBRE04	60	15.350	0.000	0.0	0.0000	0.0000	OK
2160 minute summer	SWMBIC08	1140	15.040	0.010	0.2	0.0077	0.0000	OK
2160 minute summer	SWMBIC09	1080	14.760	0.030	1.4	0.0217	0.0000	OK
2160 minute summer	SWMBRE03	60	15.550	0.000	0.0	0.0000	0.0000	OK
2160 minute summer	SWMBIC06	1140	15.192	0.012	0.2	0.0075	0.0000	OK
2160 minute summer	SWMBIC07	1140	14.887	0.022	1.0	0.0173	0.0000	OK
2160 minute summer	SWMBRE02	60	15.550	0.000	0.0	0.0000	0.0000	OK
2160 minute summer	SWMBIC05	1140	15.483	0.008	0.1	0.0038	0.0000	OK
2160 minute summer	SWMBRE01	60	15.700	0.000	0.0	0.0000	0.0000	OK
2160 minute summer	SWMBIC01	60	15.650	0.000	0.0	0.0000	0.0000	OK
2160 minute summer	SWMBIC02	60	15.600	0.000	0.0	0.0000	0.0000	OK
2160 minute summer	SWMBIC03	1080	15.376	0.016	0.4	0.0234	0.0000	OK
2160 minute summer	SWMBRE05	960	15.764	0.009	0.1	0.0072	0.0000	OK
2160 minute summer	SWMBIC04	1080	15.286	0.016	0.6	0.0147	0.0000	OK
2160 minute summer	SWMBIC10	1140	15.375	0.010	0.2	0.0101	0.0000	OK
2160 minute summer	SWMBIC12	1140	15.153	0.013	0.3	0.0038	0.0000	OK
2160 minute summer	SWMBRE06	60	15.550	0.000	0.0	0.0000	0.0000	OK
2160 minute summer	SWMBIC11	1020	15.398	0.008	0.1	0.0036	0.0000	OK
2160 minute summer	SWMBIC14	1140	14.976	0.021	0.7	0.0231	0.0000	OK
2160 minute summer	SWMBIC13	1020	15.541	0.006	0.1	0.0035	0.0000	OK
2160 minute summer	SWMBRE08	60	15.600	0.000	0.0	0.0000	0.0000	OK
2160 minute summer	SWMRE09	60	15.600	0.000	0.0	0.0000	0.0000	OK
2160 minute summer	SWMBRE10	60	15.295	0.000	0.0	0.0000	0.0000	OK
2160 minute summer	SWMBIC15	60	15.185	0.000	0.0	0.0000	0.0000	OK
2160 minute summer	TANK	1140	14.732	0.032	2.1	8.4000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
2160 minute summer	SWMBRE04	6.000	SWMBIC08	0.0	0.000	0.000	0.0000	
2160 minute summer	SWMBIC08	6.001	SWMBIC09	0.2	0.343	0.003	0.0105	
2160 minute summer	SWMBIC09	1.004	TANK	1.4	0.383	0.020	0.0288	
2160 minute summer	SWMBRE03	5.000	SWMBIC06	0.0	0.000	0.000	0.0024	
2160 minute summer	SWMBIC06	4.002	SWMBIC07	0.2	0.324	0.012	0.0112	
2160 minute summer	SWMBIC07	1.003	SWMBIC09	1.0	0.338	0.011	0.0635	
2160 minute summer	SWMBRE02	4.000	SWMBIC05	0.0	0.000	0.000	0.0015	
2160 minute summer	SWMBIC05	4.001	SWMBIC06	0.1	0.204	0.006	0.0159	
2160 minute summer	SWMBRE01	2.000	SWMBIC01	0.0	0.000	0.000	0.0000	
2160 minute summer	SWMBIC01	2.001	SWMBIC02	0.0	0.000	0.000	0.0000	
2160 minute summer	SWMBIC02	2.002	SWMBIC03	0.0	0.000	0.000	0.0000	
2160 minute summer	SWMBIC03	1.001	SWMBIC04	0.4	0.282	0.005	0.0288	
2160 minute summer	SWMBRE05	1.000	SWMBIC03	0.1	0.252	0.002	0.0192	
2160 minute summer	SWMBIC04	1.002	SWMBIC07	0.6	0.351	0.005	0.0732	
2160 minute summer	SWMBIC10	9.000	SWMBIC12	0.2	0.263	0.003	0.0136	
2160 minute summer	SWMBIC12	7.002	SWMBIC14	0.3	0.223	0.007	0.0347	
2160 minute summer	SWMBRE06	7.000	SWMBIC11	0.0	0.000	0.000	0.0025	
2160 minute summer	SWMBIC11	7.001	SWMBIC12	0.1	0.298	0.005	0.0044	
2160 minute summer	SWMBIC14	7.003	TANK	0.7	0.396	0.017	0.0119	
2160 minute summer	SWMBIC13	10.001	SWMBIC14	0.1	0.436	0.003	0.0030	
2160 minute summer	SWMBRE08	11.000	SWMBIC13	0.0	0.000	0.000	0.0004	
2160 minute summer	SWMRE09	10.000	SWMBIC13	0.0	0.000	0.000	0.0009	
2160 minute summer	SWMBRE10	12.000	SWMBIC15	0.0	0.000	0.000	0.0000	
2160 minute summer	SWMBIC15	12.001	SWMBIC14	0.0	0.000	0.000	0.0000	
2160 minute summer	TANK	1.005	SWMBIC17	2.0	0.491	0.020	0.0101	

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Results for 1 year 2160 minute summer. 2400 minute analysis at 60 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
2160 minute summer	SWMBMN01	1140	14.700	0.130	2.2	0.2153	0.0000	OK
2160 minute summer	SW911	1140	13.640	0.021	2.2	0.0000	0.0000	OK
2160 minute summer	SWMBRE07	60	15.600	0.000	0.0	0.0000	0.0000	OK
2160 minute summer	SWMBIC16	60	15.485	0.000	0.0	0.0000	0.0000	OK
2160 minute summer	SWMBIC17	1140	14.713	0.033	2.0	0.0093	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
2160 minute summer	SWMBMN01	1.007	SW911	2.2	1.433	0.042	0.0175	57.6
2160 minute summer	SWMBRE07	8.000	SWMBIC11	0.0	0.000	0.000	0.0021	
2160 minute summer	SWMBIC16	3.000	SWMBIC04	0.0	0.000	0.000	0.0000	
2160 minute summer	SWMBIC17	1.006	SWMBMN01	2.0	0.148	0.026	0.3619	

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Results for 1 year 2880 minute summer. 3120 minute analysis at 60 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
2880 minute summer	SWMBRE04	60	15.350	0.000	0.0	0.0000	0.0000	OK
2880 minute summer	SWMBIC08	1200	15.037	0.007	0.1	0.0057	0.0000	OK
2880 minute summer	SWMBIC09	1440	14.758	0.028	1.2	0.0201	0.0000	OK
2880 minute summer	SWMBRE03	60	15.550	0.000	0.0	0.0000	0.0000	OK
2880 minute summer	SWMBIC06	1380	15.188	0.008	0.1	0.0054	0.0000	OK
2880 minute summer	SWMBIC07	1500	14.886	0.021	0.9	0.0165	0.0000	OK
2880 minute summer	SWMBRE02	60	15.550	0.000	0.0	0.0000	0.0000	OK
2880 minute summer	SWMBIC05	60	15.475	0.000	0.0	0.0000	0.0000	OK
2880 minute summer	SWMBRE01	60	15.700	0.000	0.0	0.0000	0.0000	OK
2880 minute summer	SWMBIC01	60	15.650	0.000	0.0	0.0000	0.0000	OK
2880 minute summer	SWMBIC02	60	15.600	0.000	0.0	0.0000	0.0000	OK
2880 minute summer	SWMBIC03	1500	15.376	0.016	0.4	0.0234	0.0000	OK
2880 minute summer	SWMBRE05	1320	15.764	0.009	0.1	0.0072	0.0000	OK
2880 minute summer	SWMBIC04	1500	15.286	0.016	0.6	0.0147	0.0000	OK
2880 minute summer	SWMBIC10	1200	15.372	0.007	0.1	0.0074	0.0000	OK
2880 minute summer	SWMBIC12	1440	15.151	0.011	0.2	0.0031	0.0000	OK
2880 minute summer	SWMBRE06	60	15.550	0.000	0.0	0.0000	0.0000	OK
2880 minute summer	SWMBIC11	1440	15.398	0.008	0.1	0.0036	0.0000	OK
2880 minute summer	SWMBIC14	1440	14.973	0.018	0.5	0.0196	0.0000	OK
2880 minute summer	SWMBIC13	1440	15.541	0.006	0.1	0.0035	0.0000	OK
2880 minute summer	SWMBRE08	60	15.600	0.000	0.0	0.0000	0.0000	OK
2880 minute summer	SWMRE09	60	15.600	0.000	0.0	0.0000	0.0000	OK
2880 minute summer	SWMBRE10	60	15.295	0.000	0.0	0.0000	0.0000	OK
2880 minute summer	SWMBIC15	60	15.185	0.000	0.0	0.0000	0.0000	OK
2880 minute summer	TANK	1500	14.729	0.029	1.7	7.5230	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
2880 minute summer	SWMBRE04	6.000	SWMBIC08	0.0	0.000	0.000	0.0000	
2880 minute summer	SWMBIC08	6.001	SWMBIC09	0.1	0.291	0.002	0.0062	
2880 minute summer	SWMBIC09	1.004	TANK	1.2	0.379	0.017	0.0252	
2880 minute summer	SWMBRE03	5.000	SWMBIC06	0.0	0.000	0.000	0.0015	
2880 minute summer	SWMBIC06	4.002	SWMBIC07	0.1	0.262	0.006	0.0069	
2880 minute summer	SWMBIC07	1.003	SWMBIC09	0.9	0.332	0.010	0.0577	
2880 minute summer	SWMBRE02	4.000	SWMBIC05	0.0	0.000	0.000	0.0000	
2880 minute summer	SWMBIC05	4.001	SWMBIC06	0.0	0.000	0.000	0.0061	
2880 minute summer	SWMBRE01	2.000	SWMBIC01	0.0	0.000	0.000	0.0000	
2880 minute summer	SWMBIC01	2.001	SWMBIC02	0.0	0.000	0.000	0.0000	
2880 minute summer	SWMBIC02	2.002	SWMBIC03	0.0	0.000	0.000	0.0000	
2880 minute summer	SWMBIC03	1.001	SWMBIC04	0.4	0.282	0.005	0.0288	
2880 minute summer	SWMBRE05	1.000	SWMBIC03	0.1	0.252	0.002	0.0192	
2880 minute summer	SWMBIC04	1.002	SWMBIC07	0.6	0.337	0.005	0.0699	
2880 minute summer	SWMBIC10	9.000	SWMBIC12	0.1	0.253	0.002	0.0095	
2880 minute summer	SWMBIC12	7.002	SWMBIC14	0.2	0.193	0.005	0.0269	
2880 minute summer	SWMBRE06	7.000	SWMBIC11	0.0	0.000	0.000	0.0025	
2880 minute summer	SWMBIC11	7.001	SWMBIC12	0.1	0.298	0.005	0.0044	
2880 minute summer	SWMBIC14	7.003	TANK	0.5	0.358	0.012	0.0094	
2880 minute summer	SWMBIC13	10.001	SWMBIC14	0.1	0.436	0.003	0.0030	
2880 minute summer	SWMBRE08	11.000	SWMBIC13	0.0	0.000	0.000	0.0004	
2880 minute summer	SWMRE09	10.000	SWMBIC13	0.0	0.000	0.000	0.0009	
2880 minute summer	SWMBRE10	12.000	SWMBIC15	0.0	0.000	0.000	0.0000	
2880 minute summer	SWMBIC15	12.001	SWMBIC14	0.0	0.000	0.000	0.0000	
2880 minute summer	TANK	1.005	SWMBIC17	1.6	0.464	0.016	0.0086	

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Results for 1 year 2880 minute summer. 3120 minute analysis at 60 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
2880 minute summer	SWMBMN01	1500	14.673	0.103	1.8	0.1709	0.0000	OK
2880 minute summer	SW911	1500	13.638	0.019	1.8	0.0000	0.0000	OK
2880 minute summer	SWMBRE07	60	15.600	0.000	0.0	0.0000	0.0000	OK
2880 minute summer	SWMBIC16	60	15.485	0.000	0.0	0.0000	0.0000	OK
2880 minute summer	SWMBIC17	1500	14.710	0.030	1.6	0.0084	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
2880 minute summer	SWMBMN01	1.007	SW911	1.8	1.360	0.036	0.0155	57.1
2880 minute summer	SWMBRE07	8.000	SWMBIC11	0.0	0.000	0.000	0.0021	
2880 minute summer	SWMBIC16	3.000	SWMBIC04	0.0	0.000	0.000	0.0000	
2880 minute summer	SWMBIC17	1.006	SWMBMN01	1.6	0.147	0.021	0.2713	

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Results for 1 year 4320 minute summer. 4560 minute analysis at 60 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
4320 minute summer	SWMBRE04	60	15.350	0.000	0.0	0.0000	0.0000	OK
4320 minute summer	SWMBIC08	1860	15.037	0.007	0.1	0.0057	0.0000	OK
4320 minute summer	SWMBIC09	2100	14.753	0.023	0.8	0.0166	0.0000	OK
4320 minute summer	SWMBRE03	60	15.550	0.000	0.0	0.0000	0.0000	OK
4320 minute summer	SWMBIC06	2160	15.188	0.008	0.1	0.0054	0.0000	OK
4320 minute summer	SWMBIC07	2160	14.883	0.018	0.6	0.0137	0.0000	OK
4320 minute summer	SWMBRE02	60	15.550	0.000	0.0	0.0000	0.0000	OK
4320 minute summer	SWMBIC05	60	15.475	0.000	0.0	0.0000	0.0000	OK
4320 minute summer	SWMBRE01	60	15.700	0.000	0.0	0.0000	0.0000	OK
4320 minute summer	SWMBIC01	60	15.650	0.000	0.0	0.0000	0.0000	OK
4320 minute summer	SWMBIC02	60	15.600	0.000	0.0	0.0000	0.0000	OK
4320 minute summer	SWMBIC03	2100	15.374	0.014	0.3	0.0208	0.0000	OK
4320 minute summer	SWMBRE05	2040	15.764	0.009	0.1	0.0072	0.0000	OK
4320 minute summer	SWMBIC04	2100	15.283	0.013	0.4	0.0123	0.0000	OK
4320 minute summer	SWMBIC10	1860	15.372	0.007	0.1	0.0074	0.0000	OK
4320 minute summer	SWMBIC12	2220	15.151	0.011	0.2	0.0031	0.0000	OK
4320 minute summer	SWMBRE06	60	15.550	0.000	0.0	0.0000	0.0000	OK
4320 minute summer	SWMBIC11	2220	15.398	0.008	0.1	0.0036	0.0000	OK
4320 minute summer	SWMBIC14	2220	14.973	0.018	0.5	0.0196	0.0000	OK
4320 minute summer	SWMBIC13	2220	15.541	0.006	0.1	0.0035	0.0000	OK
4320 minute summer	SWMBRE08	60	15.600	0.000	0.0	0.0000	0.0000	OK
4320 minute summer	SWMRE09	60	15.600	0.000	0.0	0.0000	0.0000	OK
4320 minute summer	SWMBRE10	60	15.295	0.000	0.0	0.0000	0.0000	OK
4320 minute summer	SWMBIC15	60	15.185	0.000	0.0	0.0000	0.0000	OK
4320 minute summer	TANK	2220	14.725	0.025	1.3	6.5826	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
4320 minute summer	SWMBRE04	6.000	SWMBIC08	0.0	0.000	0.000	0.0000	
4320 minute summer	SWMBIC08	6.001	SWMBIC09	0.1	0.291	0.002	0.0062	
4320 minute summer	SWMBIC09	1.004	TANK	0.8	0.369	0.011	0.0196	
4320 minute summer	SWMBRE03	5.000	SWMBIC06	0.0	0.000	0.000	0.0015	
4320 minute summer	SWMBIC06	4.002	SWMBIC07	0.1	0.262	0.006	0.0069	
4320 minute summer	SWMBIC07	1.003	SWMBIC09	0.6	0.301	0.007	0.0435	
4320 minute summer	SWMBRE02	4.000	SWMBIC05	0.0	0.000	0.000	0.0000	
4320 minute summer	SWMBIC05	4.001	SWMBIC06	0.0	0.000	0.000	0.0061	
4320 minute summer	SWMBRE01	2.000	SWMBIC01	0.0	0.000	0.000	0.0000	
4320 minute summer	SWMBIC01	2.001	SWMBIC02	0.0	0.000	0.000	0.0000	
4320 minute summer	SWMBIC02	2.002	SWMBIC03	0.0	0.000	0.000	0.0000	
4320 minute summer	SWMBIC03	1.001	SWMBIC04	0.3	0.267	0.004	0.0228	
4320 minute summer	SWMBRE05	1.000	SWMBIC03	0.1	0.252	0.002	0.0192	
4320 minute summer	SWMBIC04	1.002	SWMBIC07	0.4	0.318	0.004	0.0526	
4320 minute summer	SWMBIC10	9.000	SWMBIC12	0.1	0.253	0.002	0.0095	
4320 minute summer	SWMBIC12	7.002	SWMBIC14	0.2	0.193	0.005	0.0269	
4320 minute summer	SWMBRE06	7.000	SWMBIC11	0.0	0.000	0.000	0.0025	
4320 minute summer	SWMBIC11	7.001	SWMBIC12	0.1	0.298	0.005	0.0044	
4320 minute summer	SWMBIC14	7.003	TANK	0.5	0.358	0.012	0.0094	
4320 minute summer	SWMBIC13	10.001	SWMBIC14	0.1	0.436	0.003	0.0030	
4320 minute summer	SWMBRE08	11.000	SWMBIC13	0.0	0.000	0.000	0.0004	
4320 minute summer	SWMRE09	10.000	SWMBIC13	0.0	0.000	0.000	0.0009	
4320 minute summer	SWMBRE10	12.000	SWMBIC15	0.0	0.000	0.000	0.0000	
4320 minute summer	SWMBIC15	12.001	SWMBIC14	0.0	0.000	0.000	0.0000	
4320 minute summer	TANK	1.005	SWMBIC17	1.3	0.432	0.013	0.0071	

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Results for 1 year 4320 minute summer. 4560 minute analysis at 60 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
4320 minute summer	SWMBMN01	2220	14.655	0.085	1.5	0.1403	0.0000	OK
4320 minute summer	SW911	2220	13.636	0.017	1.5	0.0000	0.0000	OK
4320 minute summer	SWMBRE07	60	15.600	0.000	0.0	0.0000	0.0000	OK
4320 minute summer	SWMBIC16	60	15.485	0.000	0.0	0.0000	0.0000	OK
4320 minute summer	SWMBIC17	2220	14.706	0.026	1.3	0.0074	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
4320 minute summer	SWMBMN01	1.007	SW911	1.5	1.269	0.028	0.0132	58.0
4320 minute summer	SWMBRE07	8.000	SWMBIC11	0.0	0.000	0.000	0.0021	
4320 minute summer	SWMBIC16	3.000	SWMBIC04	0.0	0.000	0.000	0.0000	
4320 minute summer	SWMBIC17	1.006	SWMBMN01	1.3	0.147	0.016	0.2091	

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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	SWMBRE04	15	15.350	0.000	0.0	0.0000	0.0000	OK
960 minute summer	SWMBIC08	675	15.070	0.040	1.0	0.0316	0.0000	OK
960 minute summer	SWMBIC09	675	15.070	0.340	8.1	0.2458	0.0000	SURCHARGED
960 minute summer	SWMBRE03	15	15.550	0.000	0.0	0.0000	0.0000	OK
960 minute summer	SWMBIC06	495	15.205	0.025	1.0	0.0162	0.0000	OK
960 minute summer	SWMBIC07	675	15.070	0.205	6.1	0.1588	0.0000	OK
960 minute summer	SWMBRE02	495	15.561	0.011	0.2	0.0039	0.0000	OK
960 minute summer	SWMBIC05	495	15.493	0.018	0.5	0.0080	0.0000	OK
960 minute summer	SWMBRE01	405	15.709	0.009	0.1	0.0026	0.0000	OK
960 minute summer	SWMBIC01	405	15.662	0.012	0.2	0.0034	0.0000	OK
960 minute summer	SWMBIC02	405	15.612	0.012	0.2	0.0019	0.0000	OK
960 minute summer	SWMBIC03	495	15.400	0.040	2.8	0.0588	0.0000	OK
960 minute summer	SWMBRE05	495	15.775	0.020	0.7	0.0169	0.0000	OK
960 minute summer	SWMBIC04	495	15.308	0.038	4.0	0.0358	0.0000	OK
960 minute summer	SWMBIC10	495	15.386	0.021	1.0	0.0212	0.0000	OK
960 minute summer	SWMBIC12	495	15.168	0.028	1.5	0.0080	0.0000	OK
960 minute summer	SWMBRE06	15	15.550	0.000	0.0	0.0000	0.0000	OK
960 minute summer	SWMBIC11	495	15.406	0.016	0.5	0.0078	0.0000	OK
960 minute summer	SWMBIC14	675	15.070	0.115	3.9	0.1293	0.0000	OK
960 minute summer	SWMBIC13	495	15.548	0.013	0.5	0.0074	0.0000	OK
960 minute summer	SWMBRE08	15	15.600	0.000	0.0	0.0000	0.0000	OK
960 minute summer	SWMRE09	15	15.600	0.000	0.0	0.0000	0.0000	OK
960 minute summer	SWMBRE10	465	15.304	0.009	0.2	0.0016	0.0000	OK
960 minute summer	SWMBIC15	465	15.196	0.011	0.2	0.0018	0.0000	OK
960 minute summer	TANK	675	15.070	0.370	11.8	96.1215	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
960 minute summer	SWMBRE04	6.000	SWMBIC08	0.0	0.000	0.000	0.0000	
960 minute summer	SWMBIC08	6.001	SWMBIC09	1.0	0.473	0.017	0.4007	
960 minute summer	SWMBIC09	1.004	TANK	7.9	0.573	0.113	0.5281	
960 minute summer	SWMBRE03	5.000	SWMBIC06	0.0	0.000	0.000	0.0073	
960 minute summer	SWMBIC06	4.002	SWMBIC07	1.0	0.524	0.059	0.0590	
960 minute summer	SWMBIC07	1.003	SWMBIC09	6.0	0.470	0.068	1.2891	
960 minute summer	SWMBRE02	4.000	SWMBIC05	0.2	0.231	0.011	0.0068	
960 minute summer	SWMBIC05	4.001	SWMBIC06	0.5	0.327	0.029	0.0491	
960 minute summer	SWMBRE01	2.000	SWMBIC01	0.1	0.192	0.006	0.0032	
960 minute summer	SWMBIC01	2.001	SWMBIC02	0.2	0.303	0.013	0.0043	
960 minute summer	SWMBIC02	2.002	SWMBIC03	0.2	0.308	0.013	0.0074	
960 minute summer	SWMBIC03	1.001	SWMBIC04	2.8	0.515	0.038	0.1104	
960 minute summer	SWMBRE05	1.000	SWMBIC03	0.7	0.402	0.017	0.0842	
960 minute summer	SWMBIC04	1.002	SWMBIC07	4.0	0.594	0.035	1.0292	
960 minute summer	SWMBIC10	9.000	SWMBIC12	1.0	0.435	0.017	0.0417	
960 minute summer	SWMBIC12	7.002	SWMBIC14	1.5	0.335	0.034	0.2715	
960 minute summer	SWMBRE06	7.000	SWMBIC11	0.0	0.000	0.000	0.0078	
960 minute summer	SWMBIC11	7.001	SWMBIC12	0.5	0.486	0.024	0.0136	
960 minute summer	SWMBIC14	7.003	TANK	3.9	0.647	0.092	0.1713	
960 minute summer	SWMBIC13	10.001	SWMBIC14	0.5	0.705	0.014	0.0268	
960 minute summer	SWMBRE08	11.000	SWMBIC13	0.0	0.000	0.000	0.0013	
960 minute summer	SWMRE09	10.000	SWMBIC13	0.0	0.000	0.000	0.0026	
960 minute summer	SWMBRE10	12.000	SWMBIC15	0.2	0.393	0.007	0.0023	
960 minute summer	SWMBIC15	12.001	SWMBIC14	0.2	0.337	0.011	0.0288	
960 minute summer	TANK	1.005	SWMBIC17	5.9	0.493	0.059	0.1723	

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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	SWMBMN01	675	15.072	0.502	3.1	0.8296	0.0000	SURCHARGED
960 minute summer	SW911	480	13.642	0.023	2.5	0.0000	0.0000	OK
960 minute summer	SWMBRE07	15	15.600	0.000	0.0	0.0000	0.0000	OK
960 minute summer	SWMBIC16	15	15.485	0.000	0.0	0.0000	0.0000	OK
960 minute summer	SWMBIC17	675	15.071	0.391	5.9	0.1107	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
960 minute summer	SWMBMN01	1.007	SW911	2.5	1.490	0.048	0.0192	145.4
960 minute summer	SWMBRE07	8.000	SWMBIC11	0.0	0.000	0.000	0.0065	
960 minute summer	SWMBIC16	3.000	SWMBIC04	0.0	0.000	0.000	0.0000	
960 minute summer	SWMBIC17	1.006	SWMBMN01	3.0	0.144	0.039	1.5233	

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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	SWMBRE04	30	15.350	0.000	0.0	0.0000	0.0000	OK
1440 minute summer	SWMBIC08	750	15.047	0.017	0.7	0.0136	0.0000	OK
1440 minute summer	SWMBIC09	930	15.013	0.283	5.6	0.2043	0.0000	OK
1440 minute summer	SWMBRE03	30	15.550	0.000	0.0	0.0000	0.0000	OK
1440 minute summer	SWMBIC06	750	15.201	0.021	0.7	0.0136	0.0000	OK
1440 minute summer	SWMBIC07	930	15.013	0.148	4.2	0.1143	0.0000	OK
1440 minute summer	SWMBRE02	630	15.558	0.008	0.1	0.0028	0.0000	OK
1440 minute summer	SWMBIC05	690	15.489	0.014	0.3	0.0063	0.0000	OK
1440 minute summer	SWMBRE01	660	15.709	0.009	0.1	0.0026	0.0000	OK
1440 minute summer	SWMBIC01	660	15.662	0.012	0.2	0.0034	0.0000	OK
1440 minute summer	SWMBIC02	660	15.612	0.012	0.2	0.0019	0.0000	OK
1440 minute summer	SWMBIC03	750	15.394	0.034	2.0	0.0501	0.0000	OK
1440 minute summer	SWMBRE05	750	15.772	0.017	0.5	0.0144	0.0000	OK
1440 minute summer	SWMBIC04	750	15.302	0.032	2.8	0.0303	0.0000	OK
1440 minute summer	SWMBIC10	750	15.382	0.017	0.7	0.0179	0.0000	OK
1440 minute summer	SWMBIC12	750	15.163	0.023	1.0	0.0066	0.0000	OK
1440 minute summer	SWMBRE06	30	15.550	0.000	0.0	0.0000	0.0000	OK
1440 minute summer	SWMBIC11	720	15.403	0.013	0.3	0.0061	0.0000	OK
1440 minute summer	SWMBIC14	930	15.013	0.058	2.6	0.0648	0.0000	OK
1440 minute summer	SWMBIC13	720	15.545	0.010	0.3	0.0058	0.0000	OK
1440 minute summer	SWMBRE08	30	15.600	0.000	0.0	0.0000	0.0000	OK
1440 minute summer	SWMRE09	30	15.600	0.000	0.0	0.0000	0.0000	OK
1440 minute summer	SWMBRE10	600	15.302	0.007	0.1	0.0011	0.0000	OK
1440 minute summer	SWMBIC15	600	15.193	0.008	0.1	0.0013	0.0000	OK
1440 minute summer	TANK	930	15.013	0.313	8.0	81.2127	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
1440 minute summer	SWMBRE04	6.000	SWMBIC08	0.0	0.000	0.000	0.0000	
1440 minute summer	SWMBIC08	6.001	SWMBIC09	0.7	0.449	0.012	0.3499	
1440 minute summer	SWMBIC09	1.004	TANK	5.4	0.525	0.078	0.5223	
1440 minute summer	SWMBRE03	5.000	SWMBIC06	0.0	0.000	0.000	0.0057	
1440 minute summer	SWMBIC06	4.002	SWMBIC07	0.7	0.472	0.041	0.0268	
1440 minute summer	SWMBIC07	1.003	SWMBIC09	4.2	0.446	0.047	1.0945	
1440 minute summer	SWMBRE02	4.000	SWMBIC05	0.1	0.207	0.006	0.0046	
1440 minute summer	SWMBIC05	4.001	SWMBIC06	0.3	0.303	0.018	0.0367	
1440 minute summer	SWMBRE01	2.000	SWMBIC01	0.1	0.192	0.006	0.0032	
1440 minute summer	SWMBIC01	2.001	SWMBIC02	0.2	0.303	0.013	0.0043	
1440 minute summer	SWMBIC02	2.002	SWMBIC03	0.2	0.308	0.013	0.0074	
1440 minute summer	SWMBIC03	1.001	SWMBIC04	2.0	0.469	0.027	0.0867	
1440 minute summer	SWMBRE05	1.000	SWMBIC03	0.5	0.361	0.012	0.0668	
1440 minute summer	SWMBIC04	1.002	SWMBIC07	2.8	0.538	0.025	0.7033	
1440 minute summer	SWMBIC10	9.000	SWMBIC12	0.7	0.397	0.012	0.0319	
1440 minute summer	SWMBIC12	7.002	SWMBIC14	1.0	0.299	0.023	0.1142	
1440 minute summer	SWMBRE06	7.000	SWMBIC11	0.0	0.000	0.000	0.0055	
1440 minute summer	SWMBIC11	7.001	SWMBIC12	0.3	0.418	0.015	0.0095	
1440 minute summer	SWMBIC14	7.003	TANK	2.6	0.578	0.061	0.0869	
1440 minute summer	SWMBIC13	10.001	SWMBIC14	0.3	0.602	0.009	0.0066	
1440 minute summer	SWMBRE08	11.000	SWMBIC13	0.0	0.000	0.000	0.0009	
1440 minute summer	SWMRE09	10.000	SWMBIC13	0.0	0.000	0.000	0.0018	
1440 minute summer	SWMBRE10	12.000	SWMBIC15	0.1	0.317	0.004	0.0014	
1440 minute summer	SWMBIC15	12.001	SWMBIC14	0.1	0.273	0.006	0.0055	
1440 minute summer	TANK	1.005	SWMBIC17	4.8	0.481	0.048	0.1723	

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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	SWMBMN01	960	15.014	0.444	3.3	0.7340	0.0000	SURCHARGED
1440 minute summer	SW911	1440	13.642	0.023	2.5	0.0000	0.0000	OK
1440 minute summer	SWMBRE07	30	15.600	0.000	0.0	0.0000	0.0000	OK
1440 minute summer	SWMBIC16	30	15.485	0.000	0.0	0.0000	0.0000	OK
1440 minute summer	SWMBIC17	960	15.012	0.332	4.8	0.0939	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
1440 minute summer	SWMBMN01	1.007	SW911	2.5	1.491	0.049	0.0193	193.7
1440 minute summer	SWMBRE07	8.000	SWMBIC11	0.0	0.000	0.000	0.0045	
1440 minute summer	SWMBIC16	3.000	SWMBIC04	0.0	0.000	0.000	0.0000	
1440 minute summer	SWMBIC17	1.006	SWMBMN01	3.2	0.145	0.041	1.5233	

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Results for 30 year 2160 minute summer. 2400 minute analysis at 60 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
2160 minute summer	SWMBRE04	60	15.350	0.000	0.0	0.0000	0.0000	OK
2160 minute summer	SWMBIC08	1080	15.043	0.013	0.4	0.0105	0.0000	OK
2160 minute summer	SWMBIC09	1380	14.930	0.200	3.9	0.1442	0.0000	OK
2160 minute summer	SWMBRE03	60	15.550	0.000	0.0	0.0000	0.0000	OK
2160 minute summer	SWMBIC06	1140	15.198	0.018	0.5	0.0116	0.0000	OK
2160 minute summer	SWMBIC07	1380	14.930	0.065	3.0	0.0500	0.0000	OK
2160 minute summer	SWMBRE02	1080	15.558	0.008	0.1	0.0028	0.0000	OK
2160 minute summer	SWMBIC05	1140	15.489	0.014	0.3	0.0063	0.0000	OK
2160 minute summer	SWMBRE01	1140	15.709	0.009	0.1	0.0026	0.0000	OK
2160 minute summer	SWMBIC01	1140	15.662	0.012	0.2	0.0034	0.0000	OK
2160 minute summer	SWMBIC02	1140	15.612	0.012	0.2	0.0019	0.0000	OK
2160 minute summer	SWMBIC03	1140	15.389	0.029	1.4	0.0422	0.0000	OK
2160 minute summer	SWMBRE05	1140	15.769	0.014	0.3	0.0115	0.0000	OK
2160 minute summer	SWMBIC04	1140	15.298	0.028	2.0	0.0258	0.0000	OK
2160 minute summer	SWMBIC10	1140	15.380	0.015	0.5	0.0154	0.0000	OK
2160 minute summer	SWMBIC12	1140	15.160	0.020	0.7	0.0056	0.0000	OK
2160 minute summer	SWMBRE06	60	15.550	0.000	0.0	0.0000	0.0000	OK
2160 minute summer	SWMBIC11	1080	15.401	0.011	0.2	0.0051	0.0000	OK
2160 minute summer	SWMBIC14	1140	14.988	0.033	1.8	0.0366	0.0000	OK
2160 minute summer	SWMBIC13	1080	15.543	0.008	0.2	0.0048	0.0000	OK
2160 minute summer	SWMBRE08	60	15.600	0.000	0.0	0.0000	0.0000	OK
2160 minute summer	SWMRE09	60	15.600	0.000	0.0	0.0000	0.0000	OK
2160 minute summer	SWMBRE10	1020	15.302	0.007	0.1	0.0011	0.0000	OK
2160 minute summer	SWMBIC15	1020	15.193	0.008	0.1	0.0013	0.0000	OK
2160 minute summer	TANK	1380	14.930	0.230	5.6	59.5980	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
2160 minute summer	SWMBRE04	6.000	SWMBIC08	0.0	0.000	0.000	0.0000	
2160 minute summer	SWMBIC08	6.001	SWMBIC09	0.4	0.419	0.007	0.2080	
2160 minute summer	SWMBIC09	1.004	TANK	3.8	0.391	0.055	0.4037	
2160 minute summer	SWMBRE03	5.000	SWMBIC06	0.0	0.000	0.000	0.0045	
2160 minute summer	SWMBIC06	4.002	SWMBIC07	0.5	0.427	0.030	0.0212	
2160 minute summer	SWMBIC07	1.003	SWMBIC09	3.0	0.420	0.034	0.6446	
2160 minute summer	SWMBRE02	4.000	SWMBIC05	0.1	0.206	0.006	0.0046	
2160 minute summer	SWMBIC05	4.001	SWMBIC06	0.3	0.304	0.018	0.0317	
2160 minute summer	SWMBRE01	2.000	SWMBIC01	0.1	0.192	0.006	0.0032	
2160 minute summer	SWMBIC01	2.001	SWMBIC02	0.2	0.303	0.013	0.0043	
2160 minute summer	SWMBIC02	2.002	SWMBIC03	0.2	0.308	0.013	0.0074	
2160 minute summer	SWMBIC03	1.001	SWMBIC04	1.4	0.419	0.019	0.0679	
2160 minute summer	SWMBRE05	1.000	SWMBIC03	0.3	0.315	0.007	0.0460	
2160 minute summer	SWMBIC04	1.002	SWMBIC07	2.0	0.487	0.018	0.2483	
2160 minute summer	SWMBIC10	9.000	SWMBIC12	0.5	0.359	0.009	0.0250	
2160 minute summer	SWMBIC12	7.002	SWMBIC14	0.7	0.273	0.016	0.0663	
2160 minute summer	SWMBRE06	7.000	SWMBIC11	0.0	0.000	0.000	0.0041	
2160 minute summer	SWMBIC11	7.001	SWMBIC12	0.2	0.368	0.010	0.0072	
2160 minute summer	SWMBIC14	7.003	TANK	1.8	0.521	0.043	0.0233	
2160 minute summer	SWMBIC13	10.001	SWMBIC14	0.2	0.531	0.006	0.0050	
2160 minute summer	SWMBRE08	11.000	SWMBIC13	0.0	0.000	0.000	0.0007	
2160 minute summer	SWMRE09	10.000	SWMBIC13	0.0	0.000	0.000	0.0014	
2160 minute summer	SWMBRE10	12.000	SWMBIC15	0.1	0.316	0.004	0.0014	
2160 minute summer	SWMBIC15	12.001	SWMBIC14	0.1	0.273	0.006	0.0055	
2160 minute summer	TANK	1.005	SWMBIC17	2.4	0.461	0.024	0.1475	

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Results for 30 year 2160 minute summer. 2400 minute analysis at 60 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
2160 minute summer	SWMBMN01	1380	14.930	0.360	2.5	0.5946	0.0000	SURCHARGED
2160 minute summer	SW911	1620	13.642	0.023	2.5	0.0000	0.0000	OK
2160 minute summer	SWMBRE07	60	15.600	0.000	0.0	0.0000	0.0000	OK
2160 minute summer	SWMBIC16	60	15.485	0.000	0.0	0.0000	0.0000	OK
2160 minute summer	SWMBIC17	1380	14.930	0.250	2.4	0.0706	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
2160 minute summer	SWMBMN01	1.007	SW911	2.5	1.491	0.049	0.0193	212.2
2160 minute summer	SWMBRE07	8.000	SWMBIC11	0.0	0.000	0.000	0.0034	
2160 minute summer	SWMBIC16	3.000	SWMBIC04	0.0	0.000	0.000	0.0000	
2160 minute summer	SWMBIC17	1.006	SWMBMN01	2.4	0.145	0.030	1.4392	

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Results for 30 year 2880 minute summer. 3120 minute analysis at 60 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
2880 minute summer	SWMBRE04	60	15.350	0.000	0.0	0.0000	0.0000	OK
2880 minute summer	SWMBIC08	1440	15.043	0.013	0.4	0.0105	0.0000	OK
2880 minute summer	SWMBIC09	1740	14.884	0.154	3.3	0.1109	0.0000	OK
2880 minute summer	SWMBRE03	60	15.550	0.000	0.0	0.0000	0.0000	OK
2880 minute summer	SWMBIC06	1440	15.196	0.016	0.4	0.0104	0.0000	OK
2880 minute summer	SWMBIC07	1500	14.899	0.034	2.5	0.0266	0.0000	OK
2880 minute summer	SWMBRE02	1440	15.558	0.008	0.1	0.0028	0.0000	OK
2880 minute summer	SWMBIC05	1440	15.486	0.011	0.2	0.0052	0.0000	OK
2880 minute summer	SWMBRE01	1500	15.709	0.009	0.1	0.0026	0.0000	OK
2880 minute summer	SWMBIC01	1500	15.662	0.012	0.2	0.0034	0.0000	OK
2880 minute summer	SWMBIC02	1500	15.612	0.012	0.2	0.0019	0.0000	OK
2880 minute summer	SWMBIC03	1500	15.387	0.027	1.2	0.0393	0.0000	OK
2880 minute summer	SWMBRE05	1500	15.769	0.014	0.3	0.0115	0.0000	OK
2880 minute summer	SWMBIC04	1500	15.296	0.026	1.7	0.0239	0.0000	OK
2880 minute summer	SWMBIC10	1500	15.378	0.013	0.4	0.0138	0.0000	OK
2880 minute summer	SWMBIC12	1500	15.158	0.018	0.6	0.0052	0.0000	OK
2880 minute summer	SWMBRE06	60	15.550	0.000	0.0	0.0000	0.0000	OK
2880 minute summer	SWMBIC11	1440	15.401	0.011	0.2	0.0051	0.0000	OK
2880 minute summer	SWMBIC14	1500	14.985	0.030	1.5	0.0335	0.0000	OK
2880 minute summer	SWMBIC13	1440	15.543	0.008	0.2	0.0048	0.0000	OK
2880 minute summer	SWMBRE08	60	15.600	0.000	0.0	0.0000	0.0000	OK
2880 minute summer	SWMRE09	60	15.600	0.000	0.0	0.0000	0.0000	OK
2880 minute summer	SWMBRE10	1380	15.302	0.007	0.1	0.0011	0.0000	OK
2880 minute summer	SWMBIC15	1380	15.193	0.008	0.1	0.0013	0.0000	OK
2880 minute summer	TANK	1740	14.884	0.184	4.7	47.6599	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
2880 minute summer	SWMBRE04	6.000	SWMBIC08	0.0	0.000	0.000	0.0000	
2880 minute summer	SWMBIC08	6.001	SWMBIC09	0.4	0.419	0.007	0.1162	
2880 minute summer	SWMBIC09	1.004	TANK	3.2	0.383	0.046	0.3056	
2880 minute summer	SWMBRE03	5.000	SWMBIC06	0.0	0.000	0.000	0.0038	
2880 minute summer	SWMBIC06	4.002	SWMBIC07	0.4	0.399	0.024	0.0181	
2880 minute summer	SWMBIC07	1.003	SWMBIC09	2.5	0.425	0.028	0.4123	
2880 minute summer	SWMBRE02	4.000	SWMBIC05	0.1	0.207	0.006	0.0038	
2880 minute summer	SWMBIC05	4.001	SWMBIC06	0.2	0.249	0.012	0.0258	
2880 minute summer	SWMBRE01	2.000	SWMBIC01	0.1	0.192	0.006	0.0032	
2880 minute summer	SWMBIC01	2.001	SWMBIC02	0.2	0.303	0.013	0.0043	
2880 minute summer	SWMBIC02	2.002	SWMBIC03	0.2	0.308	0.013	0.0074	
2880 minute summer	SWMBIC03	1.001	SWMBIC04	1.2	0.402	0.016	0.0608	
2880 minute summer	SWMBRE05	1.000	SWMBIC03	0.3	0.315	0.007	0.0460	
2880 minute summer	SWMBIC04	1.002	SWMBIC07	1.7	0.466	0.015	0.1427	
2880 minute summer	SWMBIC10	9.000	SWMBIC12	0.4	0.328	0.007	0.0221	
2880 minute summer	SWMBIC12	7.002	SWMBIC14	0.6	0.265	0.014	0.0586	
2880 minute summer	SWMBRE06	7.000	SWMBIC11	0.0	0.000	0.000	0.0041	
2880 minute summer	SWMBIC11	7.001	SWMBIC12	0.2	0.368	0.010	0.0072	
2880 minute summer	SWMBIC14	7.003	TANK	1.5	0.495	0.035	0.0205	
2880 minute summer	SWMBIC13	10.001	SWMBIC14	0.2	0.531	0.006	0.0050	
2880 minute summer	SWMBRE08	11.000	SWMBIC13	0.0	0.000	0.000	0.0007	
2880 minute summer	SWMRE09	10.000	SWMBIC13	0.0	0.000	0.000	0.0014	
2880 minute summer	SWMBRE10	12.000	SWMBIC15	0.1	0.316	0.004	0.0014	
2880 minute summer	SWMBIC15	12.001	SWMBIC14	0.1	0.273	0.006	0.0055	
2880 minute summer	TANK	1.005	SWMBIC17	2.4	0.471	0.024	0.1176	

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Results for 30 year 2880 minute summer. 3120 minute analysis at 60 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
2880 minute summer	SWMBMN01	1740	14.884	0.314	2.5	0.5185	0.0000	SURCHARGED
2880 minute summer	SW911	1860	13.642	0.023	2.5	0.0000	0.0000	OK
2880 minute summer	SWMBRE07	60	15.600	0.000	0.0	0.0000	0.0000	OK
2880 minute summer	SWMBIC16	60	15.485	0.000	0.0	0.0000	0.0000	OK
2880 minute summer	SWMBIC17	1740	14.884	0.204	2.4	0.0576	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
2880 minute summer	SWMBMN01	1.007	SW911	2.5	1.491	0.049	0.0193	211.4
2880 minute summer	SWMBRE07	8.000	SWMBIC11	0.0	0.000	0.000	0.0034	
2880 minute summer	SWMBIC16	3.000	SWMBIC04	0.0	0.000	0.000	0.0000	
2880 minute summer	SWMBIC17	1.006	SWMBMN01	2.4	0.143	0.030	1.3122	

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Results for 30 year 4320 minute summer. 4560 minute analysis at 60 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
4320 minute summer	SWMBRE04	60	15.350	0.000	0.0	0.0000	0.0000	OK
4320 minute summer	SWMBIC08	2220	15.042	0.012	0.3	0.0092	0.0000	OK
4320 minute summer	SWMBIC09	2400	14.798	0.068	2.1	0.0490	0.0000	OK
4320 minute summer	SWMBRE03	60	15.550	0.000	0.0	0.0000	0.0000	OK
4320 minute summer	SWMBIC06	1920	15.192	0.012	0.2	0.0075	0.0000	OK
4320 minute summer	SWMBIC07	2160	14.892	0.027	1.5	0.0209	0.0000	OK
4320 minute summer	SWMBRE02	60	15.550	0.000	0.0	0.0000	0.0000	OK
4320 minute summer	SWMBIC05	1920	15.483	0.008	0.1	0.0038	0.0000	OK
4320 minute summer	SWMBRE01	60	15.700	0.000	0.0	0.0000	0.0000	OK
4320 minute summer	SWMBIC01	60	15.650	0.000	0.0	0.0000	0.0000	OK
4320 minute summer	SWMBIC02	60	15.600	0.000	0.0	0.0000	0.0000	OK
4320 minute summer	SWMBIC03	2160	15.381	0.021	0.7	0.0306	0.0000	OK
4320 minute summer	SWMBRE05	2160	15.766	0.011	0.2	0.0095	0.0000	OK
4320 minute summer	SWMBIC04	2160	15.290	0.020	1.0	0.0188	0.0000	OK
4320 minute summer	SWMBIC10	2160	15.377	0.012	0.3	0.0121	0.0000	OK
4320 minute summer	SWMBIC12	2160	15.155	0.015	0.4	0.0043	0.0000	OK
4320 minute summer	SWMBRE06	60	15.550	0.000	0.0	0.0000	0.0000	OK
4320 minute summer	SWMBIC11	1800	15.398	0.008	0.1	0.0036	0.0000	OK
4320 minute summer	SWMBIC14	2220	14.981	0.026	1.1	0.0287	0.0000	OK
4320 minute summer	SWMBIC13	1800	15.541	0.006	0.1	0.0035	0.0000	OK
4320 minute summer	SWMBRE08	60	15.600	0.000	0.0	0.0000	0.0000	OK
4320 minute summer	SWMRE09	60	15.600	0.000	0.0	0.0000	0.0000	OK
4320 minute summer	SWMBRE10	2160	15.302	0.007	0.1	0.0011	0.0000	OK
4320 minute summer	SWMBIC15	2160	15.193	0.008	0.1	0.0013	0.0000	OK
4320 minute summer	TANK	2400	14.798	0.098	3.2	25.3396	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
4320 minute summer	SWMBRE04	6.000	SWMBIC08	0.0	0.000	0.000	0.0000	
4320 minute summer	SWMBIC08	6.001	SWMBIC09	0.3	0.384	0.005	0.0140	
4320 minute summer	SWMBIC09	1.004	TANK	2.1	0.371	0.030	0.1193	
4320 minute summer	SWMBRE03	5.000	SWMBIC06	0.0	0.000	0.000	0.0024	
4320 minute summer	SWMBIC06	4.002	SWMBIC07	0.2	0.324	0.012	0.0112	
4320 minute summer	SWMBIC07	1.003	SWMBIC09	1.5	0.394	0.017	0.1530	
4320 minute summer	SWMBRE02	4.000	SWMBIC05	0.0	0.000	0.000	0.0015	
4320 minute summer	SWMBIC05	4.001	SWMBIC06	0.1	0.204	0.006	0.0159	
4320 minute summer	SWMBRE01	2.000	SWMBIC01	0.0	0.000	0.000	0.0000	
4320 minute summer	SWMBIC01	2.001	SWMBIC02	0.0	0.000	0.000	0.0000	
4320 minute summer	SWMBIC02	2.002	SWMBIC03	0.0	0.000	0.000	0.0000	
4320 minute summer	SWMBIC03	1.001	SWMBIC04	0.7	0.338	0.009	0.0420	
4320 minute summer	SWMBRE05	1.000	SWMBIC03	0.2	0.278	0.005	0.0348	
4320 minute summer	SWMBIC04	1.002	SWMBIC07	1.0	0.392	0.009	0.0994	
4320 minute summer	SWMBIC10	9.000	SWMBIC12	0.3	0.313	0.005	0.0172	
4320 minute summer	SWMBIC12	7.002	SWMBIC14	0.4	0.235	0.009	0.0460	
4320 minute summer	SWMBRE06	7.000	SWMBIC11	0.0	0.000	0.000	0.0025	
4320 minute summer	SWMBIC11	7.001	SWMBIC12	0.1	0.298	0.005	0.0044	
4320 minute summer	SWMBIC14	7.003	TANK	1.1	0.452	0.026	0.0164	
4320 minute summer	SWMBIC13	10.001	SWMBIC14	0.1	0.436	0.003	0.0030	
4320 minute summer	SWMBRE08	11.000	SWMBIC13	0.0	0.000	0.000	0.0004	
4320 minute summer	SWMRE09	10.000	SWMBIC13	0.0	0.000	0.000	0.0009	
4320 minute summer	SWMBRE10	12.000	SWMBIC15	0.1	0.316	0.004	0.0014	
4320 minute summer	SWMBIC15	12.001	SWMBIC14	0.1	0.273	0.006	0.0055	
4320 minute summer	TANK	1.005	SWMBIC17	2.3	0.488	0.023	0.0556	

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Results for 30 year 4320 minute summer. 4560 minute analysis at 60 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
4320 minute summer	SWMBMN01	2400	14.797	0.227	2.5	0.3762	0.0000	SURCHARGED
4320 minute summer	SW911	2400	13.641	0.022	2.5	0.0000	0.0000	OK
4320 minute summer	SWMBRE07	60	15.600	0.000	0.0	0.0000	0.0000	OK
4320 minute summer	SWMBIC16	60	15.485	0.000	0.0	0.0000	0.0000	OK
4320 minute summer	SWMBIC17	2400	14.798	0.118	2.3	0.0333	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
4320 minute summer	SWMBMN01	1.007	SW911	2.5	1.485	0.048	0.0191	203.3
4320 minute summer	SWMBRE07	8.000	SWMBIC11	0.0	0.000	0.000	0.0021	
4320 minute summer	SWMBIC16	3.000	SWMBIC04	0.0	0.000	0.000	0.0000	
4320 minute summer	SWMBIC17	1.006	SWMBMN01	2.3	0.144	0.029	0.8964	

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Results for 100 year +40% CC 960 minute summer. 1200 minute analysis at 15 minute timestep. Mass balance: 99.32%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
960 minute summer	SWMBRE04	825	15.579	0.229	0.1	0.0041	0.0000	SURCHARGED
960 minute summer	SWMBIC08	825	15.578	0.548	1.8	0.4293	0.0000	SURCHARGED
960 minute summer	SWMBIC09	810	15.578	0.848	14.7	0.6124	0.0000	SURCHARGED
960 minute summer	SWMBRE03	810	15.579	0.029	0.0	0.0045	0.0000	OK
960 minute summer	SWMBIC06	810	15.578	0.398	1.9	0.2586	0.0000	SURCHARGED
960 minute summer	SWMBIC07	810	15.578	0.713	11.6	0.5513	0.0000	SURCHARGED
960 minute summer	SWMBRE02	810	15.578	0.028	0.3	0.0096	0.0000	OK
960 minute summer	SWMBIC05	825	15.578	0.103	0.9	0.0469	0.0000	OK
960 minute summer	SWMBRE01	495	15.714	0.014	0.3	0.0043	0.0000	OK
960 minute summer	SWMBIC01	495	15.671	0.021	0.6	0.0058	0.0000	OK
960 minute summer	SWMBIC02	495	15.620	0.020	0.6	0.0032	0.0000	OK
960 minute summer	SWMBIC03	810	15.578	0.218	5.4	0.3170	0.0000	OK
960 minute summer	SWMBRE05	495	15.782	0.027	1.3	0.0226	0.0000	OK
960 minute summer	SWMBIC04	810	15.578	0.308	7.7	0.2879	0.0000	SURCHARGED
960 minute summer	SWMBIC10	825	15.578	0.213	1.9	0.2201	0.0000	OK
960 minute summer	SWMBIC12	810	15.578	0.438	2.8	0.1240	0.0000	SURCHARGED
960 minute summer	SWMBRE06	810	15.578	0.028	0.0	0.0045	0.0000	OK
960 minute summer	SWMBIC11	810	15.578	0.188	0.9	0.0894	0.0000	SURCHARGED
960 minute summer	SWMBIC14	810	15.578	0.623	7.3	0.6979	0.0000	SURCHARGED
960 minute summer	SWMBIC13	810	15.578	0.043	0.9	0.0250	0.0000	OK
960 minute summer	SWMBRE08	15	15.600	0.000	0.0	0.0000	0.0000	OK
960 minute summer	SWMRE09	15	15.600	0.000	0.0	0.0000	0.0000	OK
960 minute summer	SWMBRE10	825	15.578	0.283	0.4	0.0481	0.0000	SURCHARGED
960 minute summer	SWMBIC15	825	15.578	0.393	0.4	0.0625	0.0000	SURCHARGED
960 minute summer	TANK	810	15.578	0.878	21.1	227.9211	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
960 minute summer	SWMBRE04	6.000	SWMBIC08	-0.1	-0.008	-0.007	0.6472	
960 minute summer	SWMBIC08	6.001	SWMBIC09	1.5	0.449	0.026	0.7146	
960 minute summer	SWMBIC09	1.004	TANK	14.6	0.727	0.208	0.5281	
960 minute summer	SWMBRE03	5.000	SWMBIC06	0.0	-0.003	0.001	0.0758	
960 minute summer	SWMBIC06	4.002	SWMBIC07	1.9	0.576	0.112	0.3187	
960 minute summer	SWMBIC07	1.003	SWMBIC09	11.2	0.432	0.127	1.4902	
960 minute summer	SWMBRE02	4.000	SWMBIC05	0.3	0.241	0.017	0.0588	
960 minute summer	SWMBIC05	4.001	SWMBIC06	0.9	0.393	0.053	0.4860	
960 minute summer	SWMBRE01	2.000	SWMBIC01	0.3	0.264	0.019	0.0069	
960 minute summer	SWMBIC01	2.001	SWMBIC02	0.6	0.418	0.039	0.0094	
960 minute summer	SWMBIC02	2.002	SWMBIC03	0.6	0.428	0.038	0.0443	
960 minute summer	SWMBIC03	1.001	SWMBIC04	5.4	0.624	0.073	1.2717	
960 minute summer	SWMBRE05	1.000	SWMBIC03	1.3	0.483	0.031	0.6575	
960 minute summer	SWMBIC04	1.002	SWMBIC07	7.7	0.599	0.068	2.7377	
960 minute summer	SWMBIC10	9.000	SWMBIC12	1.9	0.530	0.033	0.7049	
960 minute summer	SWMBIC12	7.002	SWMBIC14	2.8	0.374	0.063	1.0078	
960 minute summer	SWMBRE06	7.000	SWMBIC11	0.0	0.003	0.002	0.1501	
960 minute summer	SWMBIC11	7.001	SWMBIC12	0.9	0.579	0.044	0.2324	
960 minute summer	SWMBIC14	7.003	TANK	6.8	0.687	0.159	0.2685	
960 minute summer	SWMBIC13	10.001	SWMBIC14	0.9	0.778	0.026	0.1440	
960 minute summer	SWMBRE08	11.000	SWMBIC13	0.0	0.000	0.000	0.0074	
960 minute summer	SWMRE09	10.000	SWMBIC13	0.0	0.000	0.000	0.0154	
960 minute summer	SWMBRE10	12.000	SWMBIC15	0.4	0.485	0.014	0.0780	
960 minute summer	SWMBIC15	12.001	SWMBIC14	0.4	0.383	0.022	0.2649	
960 minute summer	TANK	1.005	SWMBIC17	5.0	0.489	0.050	0.1723	

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Results for 100 year +40% CC 960 minute summer. 1200 minute analysis at 15 minute timestep. Mass balance: 99.32%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
960 minute summer	SWMBMN01	780	15.579	1.009	3.3	1.6686	0.0000	SURCHARGED
960 minute summer	SW911	870	13.642	0.023	2.6	0.0000	0.0000	OK
960 minute summer	SWMBRE07	15	15.600	0.000	0.0	0.0000	0.0000	OK
960 minute summer	SWMBIC16	810	15.578	0.093	0.0	0.0148	0.0000	OK
960 minute summer	SWMBIC17	840	15.579	0.899	5.0	0.2544	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
960 minute summer	SWMBMN01	1.007	SW911	2.6	1.507	0.050	0.0198	165.6
960 minute summer	SWMBRE07	8.000	SWMBIC11	0.0	0.000	0.000	0.1100	
960 minute summer	SWMBIC16	3.000	SWMBIC04	0.0	0.004	0.002	0.0950	
960 minute summer	SWMBIC17	1.006	SWMBMN01	3.0	0.145	0.039	1.5233	

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Results for 100 year +40% CC 1440 minute summer. 1680 minute analysis at 30 minute timestep. Mass balance: 99.62%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
1440 minute summer	SWMBRE04	1080	15.497	0.147	0.1	0.0026	0.0000	OK
1440 minute summer	SWMBIC08	1080	15.497	0.467	1.2	0.3653	0.0000	SURCHARGED
1440 minute summer	SWMBIC09	1080	15.497	0.767	10.0	0.5535	0.0000	SURCHARGED
1440 minute summer	SWMBRE03	30	15.550	0.000	0.0	0.0000	0.0000	OK
1440 minute summer	SWMBIC06	1080	15.497	0.317	1.3	0.2055	0.0000	SURCHARGED
1440 minute summer	SWMBIC07	1080	15.497	0.632	7.9	0.4882	0.0000	SURCHARGED
1440 minute summer	SWMBRE02	690	15.561	0.011	0.2	0.0039	0.0000	OK
1440 minute summer	SWMBIC05	1080	15.497	0.022	0.6	0.0098	0.0000	OK
1440 minute summer	SWMBRE01	750	15.712	0.012	0.2	0.0036	0.0000	OK
1440 minute summer	SWMBIC01	750	15.667	0.017	0.4	0.0048	0.0000	OK
1440 minute summer	SWMBIC02	750	15.617	0.017	0.4	0.0027	0.0000	OK
1440 minute summer	SWMBIC03	1080	15.497	0.137	3.7	0.1984	0.0000	OK
1440 minute summer	SWMBRE05	750	15.778	0.023	0.9	0.0190	0.0000	OK
1440 minute summer	SWMBIC04	1080	15.497	0.227	5.2	0.2116	0.0000	OK
1440 minute summer	SWMBIC10	1080	15.497	0.132	1.3	0.1359	0.0000	OK
1440 minute summer	SWMBIC12	1080	15.497	0.357	1.9	0.1009	0.0000	SURCHARGED
1440 minute summer	SWMBRE06	30	15.550	0.000	0.0	0.0000	0.0000	OK
1440 minute summer	SWMBIC11	1080	15.497	0.107	0.6	0.0506	0.0000	OK
1440 minute summer	SWMBIC14	1080	15.496	0.541	5.0	0.6065	0.0000	SURCHARGED
1440 minute summer	SWMBIC13	750	15.549	0.014	0.6	0.0080	0.0000	OK
1440 minute summer	SWMBRE08	30	15.600	0.000	0.0	0.0000	0.0000	OK
1440 minute summer	SWMRE09	30	15.600	0.000	0.0	0.0000	0.0000	OK
1440 minute summer	SWMBRE10	1080	15.496	0.201	0.3	0.0342	0.0000	SURCHARGED
1440 minute summer	SWMBIC15	1080	15.496	0.311	0.3	0.0495	0.0000	SURCHARGED
1440 minute summer	TANK	1080	15.497	0.797	14.6	206.7248	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
1440 minute summer	SWMBRE04	6.000	SWMBIC08	-0.1	-0.005	-0.004	0.6455	
1440 minute summer	SWMBIC08	6.001	SWMBIC09	1.0	0.474	0.018	0.7146	
1440 minute summer	SWMBIC09	1.004	TANK	9.9	0.559	0.142	0.5281	
1440 minute summer	SWMBRE03	5.000	SWMBIC06	0.0	0.000	0.000	0.0669	
1440 minute summer	SWMBIC06	4.002	SWMBIC07	1.3	0.551	0.077	0.3187	
1440 minute summer	SWMBIC07	1.003	SWMBIC09	7.7	0.445	0.087	1.4902	
1440 minute summer	SWMBRE02	4.000	SWMBIC05	0.2	0.230	0.011	0.0074	
1440 minute summer	SWMBIC05	4.001	SWMBIC06	0.6	0.346	0.035	0.3051	
1440 minute summer	SWMBRE01	2.000	SWMBIC01	0.2	0.234	0.012	0.0052	
1440 minute summer	SWMBIC01	2.001	SWMBIC02	0.4	0.372	0.026	0.0070	
1440 minute summer	SWMBIC02	2.002	SWMBIC03	0.4	0.379	0.025	0.0120	
1440 minute summer	SWMBIC03	1.001	SWMBIC04	3.7	0.562	0.050	0.8959	
1440 minute summer	SWMBRE05	1.000	SWMBIC03	0.9	0.432	0.021	0.2228	
1440 minute summer	SWMBIC04	1.002	SWMBIC07	5.2	0.544	0.046	2.4786	
1440 minute summer	SWMBIC10	9.000	SWMBIC12	1.3	0.474	0.022	0.5720	
1440 minute summer	SWMBIC12	7.002	SWMBIC14	1.9	0.355	0.043	1.0078	
1440 minute summer	SWMBRE06	7.000	SWMBIC11	0.0	0.000	0.000	0.1010	
1440 minute summer	SWMBIC11	7.001	SWMBIC12	0.6	0.513	0.029	0.2045	
1440 minute summer	SWMBIC14	7.003	TANK	4.7	0.623	0.111	0.2685	
1440 minute summer	SWMBIC13	10.001	SWMBIC14	0.6	0.704	0.017	0.1211	
1440 minute summer	SWMBRE08	11.000	SWMBIC13	0.0	0.000	0.000	0.0014	
1440 minute summer	SWMRE09	10.000	SWMBIC13	0.0	0.000	0.000	0.0030	
1440 minute summer	SWMBRE10	12.000	SWMBIC15	0.3	0.443	0.011	0.0780	
1440 minute summer	SWMBIC15	12.001	SWMBIC14	0.3	0.337	0.017	0.2649	
1440 minute summer	TANK	1.005	SWMBIC17	5.1	0.494	0.051	0.1723	

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Results for 100 year +40% CC 1440 minute summer. 1680 minute analysis at 30 minute timestep. Mass balance: 99.62%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
1440 minute summer	SWMBMN01	1080	15.497	0.927	3.2	1.5325	0.0000	SURCHARGED
1440 minute summer	SW911	630	13.642	0.023	2.5	0.0000	0.0000	OK
1440 minute summer	SWMBRE07	30	15.600	0.000	0.0	0.0000	0.0000	OK
1440 minute summer	SWMBIC16	1080	15.497	0.012	0.0	0.0019	0.0000	OK
1440 minute summer	SWMBIC17	1050	15.495	0.815	5.1	0.2308	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
1440 minute summer	SWMBMN01	1.007	SW911	2.5	1.491	0.049	0.0193	216.7
1440 minute summer	SWMBRE07	8.000	SWMBIC11	0.0	0.000	0.000	0.0836	
1440 minute summer	SWMBIC16	3.000	SWMBIC04	0.0	0.004	0.001	0.0316	
1440 minute summer	SWMBIC17	1.006	SWMBMN01	2.8	0.143	0.036	1.5233	

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Results for 100 year +40% CC 2160 minute summer. 2400 minute analysis at 60 minute timestep. Mass balance: 99.92%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
2160 minute summer	SWMBRE04	1500	15.396	0.046	0.0	0.0008	0.0000	OK
2160 minute summer	SWMBIC08	1500	15.396	0.366	0.8	0.2864	0.0000	SURCHARGED
2160 minute summer	SWMBIC09	1500	15.396	0.666	6.5	0.4807	0.0000	SURCHARGED
2160 minute summer	SWMBRE03	60	15.550	0.000	0.0	0.0000	0.0000	OK
2160 minute summer	SWMBIC06	1500	15.396	0.216	0.8	0.1401	0.0000	SURCHARGED
2160 minute summer	SWMBIC07	1500	15.396	0.531	5.1	0.4103	0.0000	SURCHARGED
2160 minute summer	SWMBRE02	900	15.558	0.008	0.1	0.0028	0.0000	OK
2160 minute summer	SWMBIC05	1140	15.491	0.016	0.4	0.0072	0.0000	OK
2160 minute summer	SWMBRE01	960	15.709	0.009	0.1	0.0026	0.0000	OK
2160 minute summer	SWMBIC01	960	15.662	0.012	0.2	0.0034	0.0000	OK
2160 minute summer	SWMBIC02	960	15.612	0.012	0.2	0.0019	0.0000	OK
2160 minute summer	SWMBIC03	1140	15.398	0.038	2.4	0.0546	0.0000	OK
2160 minute summer	SWMBRE05	1140	15.774	0.019	0.6	0.0157	0.0000	OK
2160 minute summer	SWMBIC04	1500	15.396	0.126	3.4	0.1175	0.0000	OK
2160 minute summer	SWMBIC10	1500	15.396	0.031	0.9	0.0319	0.0000	OK
2160 minute summer	SWMBIC12	1500	15.396	0.256	1.3	0.0724	0.0000	SURCHARGED
2160 minute summer	SWMBRE06	60	15.550	0.000	0.0	0.0000	0.0000	OK
2160 minute summer	SWMBIC11	1140	15.405	0.015	0.4	0.0070	0.0000	OK
2160 minute summer	SWMBIC14	1500	15.396	0.441	3.4	0.4936	0.0000	SURCHARGED
2160 minute summer	SWMBIC13	1080	15.546	0.011	0.4	0.0066	0.0000	OK
2160 minute summer	SWMBRE08	60	15.600	0.000	0.0	0.0000	0.0000	OK
2160 minute summer	SWMRE09	60	15.600	0.000	0.0	0.0000	0.0000	OK
2160 minute summer	SWMBRE10	1500	15.395	0.100	0.2	0.0171	0.0000	OK
2160 minute summer	SWMBIC15	1500	15.396	0.211	0.2	0.0335	0.0000	SURCHARGED
2160 minute summer	TANK	1500	15.396	0.696	9.6	180.5760	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
2160 minute summer	SWMBRE04	6.000	SWMBIC08	0.0	0.003	0.002	0.4076	
2160 minute summer	SWMBIC08	6.001	SWMBIC09	0.8	0.419	0.014	0.7146	
2160 minute summer	SWMBIC09	1.004	TANK	6.3	0.476	0.090	0.5281	
2160 minute summer	SWMBRE03	5.000	SWMBIC06	0.0	0.000	0.000	0.0669	
2160 minute summer	SWMBIC06	4.002	SWMBIC07	0.8	0.490	0.047	0.3187	
2160 minute summer	SWMBIC07	1.003	SWMBIC09	4.8	0.418	0.054	1.4902	
2160 minute summer	SWMBRE02	4.000	SWMBIC05	0.1	0.207	0.006	0.0053	
2160 minute summer	SWMBIC05	4.001	SWMBIC06	0.4	0.309	0.023	0.2902	
2160 minute summer	SWMBRE01	2.000	SWMBIC01	0.1	0.192	0.006	0.0032	
2160 minute summer	SWMBIC01	2.001	SWMBIC02	0.2	0.303	0.013	0.0043	
2160 minute summer	SWMBIC02	2.002	SWMBIC03	0.2	0.308	0.013	0.0074	
2160 minute summer	SWMBIC03	1.001	SWMBIC04	2.4	0.493	0.033	0.3323	
2160 minute summer	SWMBRE05	1.000	SWMBIC03	0.6	0.383	0.014	0.0757	
2160 minute summer	SWMBIC04	1.002	SWMBIC07	3.4	0.542	0.030	1.9133	
2160 minute summer	SWMBIC10	9.000	SWMBIC12	0.9	0.426	0.015	0.3855	
2160 minute summer	SWMBIC12	7.002	SWMBIC14	1.3	0.301	0.029	1.0078	
2160 minute summer	SWMBRE06	7.000	SWMBIC11	0.0	0.000	0.000	0.0067	
2160 minute summer	SWMBIC11	7.001	SWMBIC12	0.4	0.455	0.020	0.1185	
2160 minute summer	SWMBIC14	7.003	TANK	3.2	0.577	0.077	0.2685	
2160 minute summer	SWMBIC13	10.001	SWMBIC14	0.4	0.656	0.011	0.1197	
2160 minute summer	SWMBRE08	11.000	SWMBIC13	0.0	0.000	0.000	0.0011	
2160 minute summer	SWMRE09	10.000	SWMBIC13	0.0	0.000	0.000	0.0023	
2160 minute summer	SWMBRE10	12.000	SWMBIC15	0.2	0.393	0.007	0.0668	
2160 minute summer	SWMBIC15	12.001	SWMBIC14	0.2	0.336	0.011	0.2649	
2160 minute summer	TANK	1.005	SWMBIC17	4.8	0.489	0.048	0.1723	

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Results for 100 year +40% CC 2160 minute summer. 2400 minute analysis at 60 minute timestep. Mass balance: 99.92%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
2160 minute summer	SWMBMN01	1500	15.395	0.825	2.7	1.3653	0.0000	SURCHARGED
2160 minute summer	SW911	1020	13.642	0.023	2.5	0.0000	0.0000	OK
2160 minute summer	SWMBRE07	60	15.600	0.000	0.0	0.0000	0.0000	OK
2160 minute summer	SWMBIC16	60	15.485	0.000	0.0	0.0000	0.0000	OK
2160 minute summer	SWMBIC17	1500	15.396	0.716	4.8	0.2026	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
2160 minute summer	SWMBMN01	1.007	SW911	2.5	1.489	0.048	0.0192	276.3
2160 minute summer	SWMBRE07	8.000	SWMBIC11	0.0	0.000	0.000	0.0055	
2160 minute summer	SWMBIC16	3.000	SWMBIC04	0.0	0.000	0.000	0.0000	
2160 minute summer	SWMBIC17	1.006	SWMBMN01	2.5	0.148	0.032	1.5233	

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Results for 100 year +40% CC 2880 minute summer. 3120 minute analysis at 60 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
2880 minute summer	SWMBRE04	60	15.350	0.000	0.0	0.0000	0.0000	OK
2880 minute summer	SWMBIC08	1920	15.315	0.285	0.7	0.2233	0.0000	SURCHARGED
2880 minute summer	SWMBIC09	1920	15.315	0.585	5.4	0.4225	0.0000	SURCHARGED
2880 minute summer	SWMBRE03	60	15.550	0.000	0.0	0.0000	0.0000	OK
2880 minute summer	SWMBIC06	1920	15.315	0.135	0.7	0.0877	0.0000	OK
2880 minute summer	SWMBIC07	1920	15.315	0.450	4.2	0.3480	0.0000	SURCHARGED
2880 minute summer	SWMBRE02	1260	15.558	0.008	0.1	0.0028	0.0000	OK
2880 minute summer	SWMBIC05	1380	15.489	0.014	0.3	0.0063	0.0000	OK
2880 minute summer	SWMBRE01	1320	15.709	0.009	0.1	0.0026	0.0000	OK
2880 minute summer	SWMBIC01	1320	15.662	0.012	0.2	0.0034	0.0000	OK
2880 minute summer	SWMBIC02	1320	15.612	0.012	0.2	0.0019	0.0000	OK
2880 minute summer	SWMBIC03	1500	15.394	0.034	2.0	0.0501	0.0000	OK
2880 minute summer	SWMBRE05	1500	15.772	0.017	0.5	0.0144	0.0000	OK
2880 minute summer	SWMBIC04	1920	15.315	0.045	2.8	0.0422	0.0000	OK
2880 minute summer	SWMBIC10	1500	15.382	0.017	0.7	0.0179	0.0000	OK
2880 minute summer	SWMBIC12	1920	15.315	0.175	1.0	0.0496	0.0000	OK
2880 minute summer	SWMBRE06	60	15.550	0.000	0.0	0.0000	0.0000	OK
2880 minute summer	SWMBIC11	1440	15.403	0.013	0.3	0.0061	0.0000	OK
2880 minute summer	SWMBIC14	1920	15.315	0.360	2.6	0.4034	0.0000	SURCHARGED
2880 minute summer	SWMBIC13	1440	15.545	0.010	0.3	0.0058	0.0000	OK
2880 minute summer	SWMBRE08	60	15.600	0.000	0.0	0.0000	0.0000	OK
2880 minute summer	SWMRE09	60	15.600	0.000	0.0	0.0000	0.0000	OK
2880 minute summer	SWMBRE10	1920	15.315	0.020	0.1	0.0035	0.0000	OK
2880 minute summer	SWMBIC15	1920	15.315	0.130	0.1	0.0207	0.0000	OK
2880 minute summer	TANK	1920	15.315	0.615	7.8	159.6453	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
2880 minute summer	SWMBRE04	6.000	SWMBIC08	0.0	0.000	0.000	0.3236	
2880 minute summer	SWMBIC08	6.001	SWMBIC09	0.7	0.419	0.012	0.7146	
2880 minute summer	SWMBIC09	1.004	TANK	5.2	0.434	0.075	0.5281	
2880 minute summer	SWMBRE03	5.000	SWMBIC06	0.0	0.000	0.000	0.0635	
2880 minute summer	SWMBIC06	4.002	SWMBIC07	0.7	0.472	0.041	0.3106	
2880 minute summer	SWMBIC07	1.003	SWMBIC09	4.0	0.426	0.045	1.4902	
2880 minute summer	SWMBRE02	4.000	SWMBIC05	0.1	0.207	0.006	0.0046	
2880 minute summer	SWMBIC05	4.001	SWMBIC06	0.3	0.303	0.018	0.2723	
2880 minute summer	SWMBRE01	2.000	SWMBIC01	0.1	0.192	0.006	0.0032	
2880 minute summer	SWMBIC01	2.001	SWMBIC02	0.2	0.303	0.013	0.0043	
2880 minute summer	SWMBIC02	2.002	SWMBIC03	0.2	0.308	0.013	0.0074	
2880 minute summer	SWMBIC03	1.001	SWMBIC04	2.0	0.469	0.027	0.0867	
2880 minute summer	SWMBRE05	1.000	SWMBIC03	0.5	0.361	0.012	0.0668	
2880 minute summer	SWMBIC04	1.002	SWMBIC07	2.8	0.513	0.025	1.4979	
2880 minute summer	SWMBIC10	9.000	SWMBIC12	0.7	0.397	0.012	0.3022	
2880 minute summer	SWMBIC12	7.002	SWMBIC14	1.0	0.312	0.023	0.9240	
2880 minute summer	SWMBRE06	7.000	SWMBIC11	0.0	0.000	0.000	0.0055	
2880 minute summer	SWMBIC11	7.001	SWMBIC12	0.3	0.418	0.015	0.0846	
2880 minute summer	SWMBIC14	7.003	TANK	2.6	0.558	0.061	0.2685	
2880 minute summer	SWMBIC13	10.001	SWMBIC14	0.3	0.602	0.009	0.1189	
2880 minute summer	SWMBRE08	11.000	SWMBIC13	0.0	0.000	0.000	0.0009	
2880 minute summer	SWMRE09	10.000	SWMBIC13	0.0	0.000	0.000	0.0018	
2880 minute summer	SWMBRE10	12.000	SWMBIC15	0.1	0.316	0.004	0.0392	
2880 minute summer	SWMBIC15	12.001	SWMBIC14	0.1	0.273	0.006	0.2547	
2880 minute summer	TANK	1.005	SWMBIC17	4.1	0.478	0.041	0.1723	

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Results for 100 year +40% CC 2880 minute summer. 3120 minute analysis at 60 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
2880 minute summer	SWMBMN01	1920	15.315	0.745	2.7	1.2323	0.0000	SURCHARGED
2880 minute summer	SW911	1380	13.642	0.023	2.5	0.0000	0.0000	OK
2880 minute summer	SWMBRE07	60	15.600	0.000	0.0	0.0000	0.0000	OK
2880 minute summer	SWMBIC16	60	15.485	0.000	0.0	0.0000	0.0000	OK
2880 minute summer	SWMBIC17	1920	15.314	0.634	4.1	0.1795	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
2880 minute summer	SWMBMN01	1.007	SW911	2.5	1.490	0.048	0.0192	336.7
2880 minute summer	SWMBRE07	8.000	SWMBIC11	0.0	0.000	0.000	0.0045	
2880 minute summer	SWMBIC16	3.000	SWMBIC04	0.0	0.000	0.000	0.0000	
2880 minute summer	SWMBIC17	1.006	SWMBMN01	2.6	0.144	0.032	1.5233	

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Results for 100 year +40% CC 4320 minute summer. 4560 minute analysis at 60 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
4320 minute summer	SWMBRE04	60	15.350	0.000	0.0	0.0000	0.0000	OK
4320 minute summer	SWMBIC08	2760	15.178	0.148	0.5	0.1159	0.0000	OK
4320 minute summer	SWMBIC09	2760	15.178	0.448	4.0	0.3235	0.0000	SURCHARGED
4320 minute summer	SWMBRE03	60	15.550	0.000	0.0	0.0000	0.0000	OK
4320 minute summer	SWMBIC06	2220	15.200	0.019	0.6	0.0127	0.0000	OK
4320 minute summer	SWMBIC07	2760	15.178	0.313	3.1	0.2420	0.0000	SURCHARGED
4320 minute summer	SWMBRE02	1980	15.558	0.008	0.1	0.0028	0.0000	OK
4320 minute summer	SWMBIC05	2160	15.489	0.014	0.3	0.0063	0.0000	OK
4320 minute summer	SWMBRE01	2100	15.709	0.009	0.1	0.0026	0.0000	OK
4320 minute summer	SWMBIC01	2100	15.662	0.012	0.2	0.0034	0.0000	OK
4320 minute summer	SWMBIC02	2100	15.612	0.012	0.2	0.0019	0.0000	OK
4320 minute summer	SWMBIC03	2220	15.389	0.029	1.4	0.0422	0.0000	OK
4320 minute summer	SWMBRE05	2100	15.769	0.014	0.3	0.0115	0.0000	OK
4320 minute summer	SWMBIC04	2220	15.298	0.028	2.0	0.0258	0.0000	OK
4320 minute summer	SWMBIC10	2160	15.380	0.015	0.5	0.0154	0.0000	OK
4320 minute summer	SWMBIC12	2760	15.178	0.038	0.7	0.0108	0.0000	OK
4320 minute summer	SWMBRE06	60	15.550	0.000	0.0	0.0000	0.0000	OK
4320 minute summer	SWMBIC11	2040	15.401	0.011	0.2	0.0051	0.0000	OK
4320 minute summer	SWMBIC14	2760	15.178	0.223	1.8	0.2498	0.0000	OK
4320 minute summer	SWMBIC13	2040	15.543	0.008	0.2	0.0048	0.0000	OK
4320 minute summer	SWMBRE08	60	15.600	0.000	0.0	0.0000	0.0000	OK
4320 minute summer	SWMRE09	60	15.600	0.000	0.0	0.0000	0.0000	OK
4320 minute summer	SWMBRE10	1920	15.302	0.007	0.1	0.0011	0.0000	OK
4320 minute summer	SWMBIC15	1920	15.193	0.008	0.1	0.0013	0.0000	OK
4320 minute summer	TANK	2760	15.178	0.478	5.7	124.0769	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
4320 minute summer	SWMBRE04	6.000	SWMBIC08	0.0	0.000	0.000	0.1565	
4320 minute summer	SWMBIC08	6.001	SWMBIC09	0.5	0.384	0.009	0.6062	
4320 minute summer	SWMBIC09	1.004	TANK	3.9	0.374	0.055	0.5281	
4320 minute summer	SWMBRE03	5.000	SWMBIC06	0.0	0.000	0.000	0.0051	
4320 minute summer	SWMBIC06	4.002	SWMBIC07	0.6	0.451	0.035	0.1649	
4320 minute summer	SWMBIC07	1.003	SWMBIC09	3.0	0.406	0.034	1.4902	
4320 minute summer	SWMBRE02	4.000	SWMBIC05	0.1	0.207	0.006	0.0046	
4320 minute summer	SWMBIC05	4.001	SWMBIC06	0.3	0.303	0.018	0.0342	
4320 minute summer	SWMBRE01	2.000	SWMBIC01	0.1	0.192	0.006	0.0032	
4320 minute summer	SWMBIC01	2.001	SWMBIC02	0.2	0.303	0.013	0.0043	
4320 minute summer	SWMBIC02	2.002	SWMBIC03	0.2	0.308	0.013	0.0074	
4320 minute summer	SWMBIC03	1.001	SWMBIC04	1.4	0.419	0.019	0.0679	
4320 minute summer	SWMBRE05	1.000	SWMBIC03	0.3	0.315	0.007	0.0460	
4320 minute summer	SWMBIC04	1.002	SWMBIC07	2.0	0.464	0.018	1.4034	
4320 minute summer	SWMBIC10	9.000	SWMBIC12	0.5	0.359	0.009	0.0449	
4320 minute summer	SWMBIC12	7.002	SWMBIC14	0.7	0.283	0.016	0.5592	
4320 minute summer	SWMBRE06	7.000	SWMBIC11	0.0	0.000	0.000	0.0041	
4320 minute summer	SWMBIC11	7.001	SWMBIC12	0.2	0.368	0.010	0.0072	
4320 minute summer	SWMBIC14	7.003	TANK	1.8	0.521	0.043	0.2682	
4320 minute summer	SWMBIC13	10.001	SWMBIC14	0.2	0.531	0.006	0.1176	
4320 minute summer	SWMBRE08	11.000	SWMBIC13	0.0	0.000	0.000	0.0007	
4320 minute summer	SWMRE09	10.000	SWMBIC13	0.0	0.000	0.000	0.0014	
4320 minute summer	SWMBRE10	12.000	SWMBIC15	0.1	0.316	0.004	0.0014	
4320 minute summer	SWMBIC15	12.001	SWMBIC14	0.1	0.273	0.006	0.1322	
4320 minute summer	TANK	1.005	SWMBIC17	4.1	0.488	0.041	0.1723	

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Results for 100 year +40% CC 4320 minute summer. 4560 minute analysis at 60 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
4320 minute summer	SWMBMN01	2760	15.177	0.607	2.8	1.0047	0.0000	SURCHARGED
4320 minute summer	SW911	2100	13.642	0.023	2.5	0.0000	0.0000	OK
4320 minute summer	SWMBRE07	60	15.600	0.000	0.0	0.0000	0.0000	OK
4320 minute summer	SWMBIC16	60	15.485	0.000	0.0	0.0000	0.0000	OK
4320 minute summer	SWMBIC17	2760	15.175	0.495	4.1	0.1401	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
4320 minute summer	SWMBMN01	1.007	SW911	2.5	1.491	0.049	0.0193	432.5
4320 minute summer	SWMBRE07	8.000	SWMBIC11	0.0	0.000	0.000	0.0034	
4320 minute summer	SWMBIC16	3.000	SWMBIC04	0.0	0.000	0.000	0.0000	
4320 minute summer	SWMBIC17	1.006	SWMBMN01	2.7	0.144	0.034	1.5233	

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Results for 1 year Critical Storm Duration. Lowest mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
5760 minute summer	SWMBRE04	60	15.350	0.000	0.0	0.0000	0.0000	OK
5760 minute summer	SWMBIC08	2580	15.037	0.007	0.1	0.0057	0.0000	OK
5760 minute summer	SWMBIC09	2760	14.752	0.022	0.7	0.0157	0.0000	OK
5760 minute summer	SWMBRE03	60	15.550	0.000	0.0	0.0000	0.0000	OK
5760 minute summer	SWMBIC06	60	15.180	0.000	0.0	0.0000	0.0000	OK
5760 minute summer	SWMBIC07	2820	14.881	0.016	0.5	0.0125	0.0000	OK
5760 minute summer	SWMBRE02	60	15.550	0.000	0.0	0.0000	0.0000	OK
5760 minute summer	SWMBIC05	60	15.475	0.000	0.0	0.0000	0.0000	OK
5760 minute summer	SWMBRE01	60	15.700	0.000	0.0	0.0000	0.0000	OK
5760 minute summer	SWMBIC01	60	15.650	0.000	0.0	0.0000	0.0000	OK
5760 minute summer	SWMBIC02	60	15.600	0.000	0.0	0.0000	0.0000	OK
5760 minute summer	SWMBIC03	2820	15.374	0.014	0.3	0.0208	0.0000	OK
5760 minute summer	SWMBRE05	2760	15.764	0.009	0.1	0.0072	0.0000	OK
5760 minute summer	SWMBIC04	2820	15.283	0.013	0.4	0.0123	0.0000	OK
5760 minute summer	SWMBIC10	2520	15.372	0.007	0.1	0.0074	0.0000	OK
5760 minute summer	SWMBIC12	2520	15.148	0.008	0.1	0.0023	0.0000	OK
5760 minute summer	SWMBRE06	60	15.550	0.000	0.0	0.0000	0.0000	OK
5760 minute summer	SWMBIC11	60	15.390	0.000	0.0	0.0000	0.0000	OK
5760 minute summer	SWMBIC14	2880	14.969	0.014	0.3	0.0155	0.0000	OK
5760 minute summer	SWMBIC13	60	15.535	0.000	0.0	0.0000	0.0000	OK
5760 minute summer	SWMBRE08	60	15.600	0.000	0.0	0.0000	0.0000	OK
5760 minute summer	SWMRE09	60	15.600	0.000	0.0	0.0000	0.0000	OK
5760 minute summer	SWMBRE10	60	15.295	0.000	0.0	0.0000	0.0000	OK
5760 minute summer	SWMBIC15	60	15.185	0.000	0.0	0.0000	0.0000	OK
5760 minute summer	TANK	3000	14.723	0.023	1.0	5.8502	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)
5760 minute summer	SWMBRE04	6.000	SWMBIC08	0.0	0.000	0.000	0.0000	
5760 minute summer	SWMBIC08	6.001	SWMBIC09	0.1	0.291	0.002	0.0062	
5760 minute summer	SWMBIC09	1.004	TANK	0.7	0.329	0.010	0.0172	
5760 minute summer	SWMBRE03	5.000	SWMBIC06	0.0	0.000	0.000	0.0000	
5760 minute summer	SWMBIC06	4.002	SWMBIC07	0.0	0.000	0.000	0.0000	
5760 minute summer	SWMBIC07	1.003	SWMBIC09	0.5	0.276	0.006	0.0392	
5760 minute summer	SWMBRE02	4.000	SWMBIC05	0.0	0.000	0.000	0.0000	
5760 minute summer	SWMBIC05	4.001	SWMBIC06	0.0	0.000	0.000	0.0000	
5760 minute summer	SWMBRE01	2.000	SWMBIC01	0.0	0.000	0.000	0.0000	
5760 minute summer	SWMBIC01	2.001	SWMBIC02	0.0	0.000	0.000	0.0000	
5760 minute summer	SWMBIC02	2.002	SWMBIC03	0.0	0.000	0.000	0.0000	
5760 minute summer	SWMBIC03	1.001	SWMBIC04	0.3	0.267	0.004	0.0228	
5760 minute summer	SWMBRE05	1.000	SWMBIC03	0.1	0.252	0.002	0.0192	
5760 minute summer	SWMBIC04	1.002	SWMBIC07	0.4	0.319	0.004	0.0488	
5760 minute summer	SWMBIC10	9.000	SWMBIC12	0.1	0.253	0.002	0.0071	
5760 minute summer	SWMBIC12	7.002	SWMBIC14	0.1	0.173	0.002	0.0181	
5760 minute summer	SWMBRE06	7.000	SWMBIC11	0.0	0.000	0.000	0.0000	
5760 minute summer	SWMBIC11	7.001	SWMBIC12	0.0	0.000	0.000	0.0000	
5760 minute summer	SWMBIC14	7.003	TANK	0.3	0.313	0.007	0.0065	
5760 minute summer	SWMBIC13	10.001	SWMBIC14	0.0	0.000	0.000	0.0000	
5760 minute summer	SWMBRE08	11.000	SWMBIC13	0.0	0.000	0.000	0.0000	
5760 minute summer	SWMRE09	10.000	SWMBIC13	0.0	0.000	0.000	0.0000	
5760 minute summer	SWMBRE10	12.000	SWMBIC15	0.0	0.000	0.000	0.0000	
5760 minute summer	SWMBIC15	12.001	SWMBIC14	0.0	0.000	0.000	0.0000	
5760 minute summer	TANK	1.005	SWMBIC17	1.0	0.404	0.010	0.0060	

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Results for 1 year Critical Storm Duration. Lowest mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
5760 minute summer	SWMBMN01	3000	14.640	0.070	1.1	0.1157	0.0000	OK
5760 minute summer	SW911	3000	13.634	0.015	1.1	0.0000	0.0000	OK
5760 minute summer	SWMBRE07	60	15.600	0.000	0.0	0.0000	0.0000	OK
5760 minute summer	SWMBIC16	60	15.485	0.000	0.0	0.0000	0.0000	OK
5760 minute summer	SWMBIC17	3000	14.704	0.024	1.0	0.0067	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)
5760 minute summer	SWMBMN01	1.007	SW911	1.1	1.167	0.021	0.0108	60.2
5760 minute summer	SWMBRE07	8.000	SWMBIC11	0.0	0.000	0.000	0.0000	
5760 minute summer	SWMBIC16	3.000	SWMBIC04	0.0	0.000	0.000	0.0000	
5760 minute summer	SWMBIC17	1.006	SWMBMN01	1.0	0.143	0.013	0.1623	

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Results for 30 year Critical Storm Duration. Lowest mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
5760 minute summer	SWMBRE04	60	15.350	0.000	0.0	0.0000	0.0000	OK
5760 minute summer	SWMBIC08	2760	15.040	0.010	0.2	0.0077	0.0000	OK
5760 minute summer	SWMBIC09	2940	14.762	0.032	1.7	0.0232	0.0000	OK
5760 minute summer	SWMBRE03	60	15.550	0.000	0.0	0.0000	0.0000	OK
5760 minute summer	SWMBIC06	2700	15.192	0.012	0.2	0.0075	0.0000	OK
5760 minute summer	SWMBIC07	2940	14.890	0.025	1.3	0.0196	0.0000	OK
5760 minute summer	SWMBRE02	60	15.550	0.000	0.0	0.0000	0.0000	OK
5760 minute summer	SWMBIC05	2700	15.483	0.008	0.1	0.0038	0.0000	OK
5760 minute summer	SWMBRE01	60	15.700	0.000	0.0	0.0000	0.0000	OK
5760 minute summer	SWMBIC01	60	15.650	0.000	0.0	0.0000	0.0000	OK
5760 minute summer	SWMBIC02	60	15.600	0.000	0.0	0.0000	0.0000	OK
5760 minute summer	SWMBIC03	2940	15.380	0.020	0.6	0.0284	0.0000	OK
5760 minute summer	SWMBRE05	2940	15.766	0.011	0.2	0.0095	0.0000	OK
5760 minute summer	SWMBIC04	2940	15.289	0.019	0.9	0.0179	0.0000	OK
5760 minute summer	SWMBIC10	2700	15.375	0.010	0.2	0.0101	0.0000	OK
5760 minute summer	SWMBIC12	2700	15.153	0.013	0.3	0.0038	0.0000	OK
5760 minute summer	SWMBRE06	60	15.550	0.000	0.0	0.0000	0.0000	OK
5760 minute summer	SWMBIC11	2460	15.398	0.008	0.1	0.0036	0.0000	OK
5760 minute summer	SWMBIC14	2880	14.977	0.022	0.8	0.0246	0.0000	OK
5760 minute summer	SWMBIC13	2460	15.541	0.006	0.1	0.0035	0.0000	OK
5760 minute summer	SWMBRE08	60	15.600	0.000	0.0	0.0000	0.0000	OK
5760 minute summer	SWMRE09	60	15.600	0.000	0.0	0.0000	0.0000	OK
5760 minute summer	SWMBRE10	60	15.295	0.000	0.0	0.0000	0.0000	OK
5760 minute summer	SWMBIC15	60	15.185	0.000	0.0	0.0000	0.0000	OK
5760 minute summer	TANK	3120	14.754	0.054	2.5	13.9679	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)
5760 minute summer	SWMBRE04	6.000	SWMBIC08	0.0	0.000	0.000	0.0000	
5760 minute summer	SWMBIC08	6.001	SWMBIC09	0.2	0.343	0.003	0.0105	
5760 minute summer	SWMBIC09	1.004	TANK	1.7	0.370	0.024	0.0457	
5760 minute summer	SWMBRE03	5.000	SWMBIC06	0.0	0.000	0.000	0.0024	
5760 minute summer	SWMBIC06	4.002	SWMBIC07	0.2	0.324	0.012	0.0112	
5760 minute summer	SWMBIC07	1.003	SWMBIC09	1.3	0.381	0.015	0.0724	
5760 minute summer	SWMBRE02	4.000	SWMBIC05	0.0	0.000	0.000	0.0015	
5760 minute summer	SWMBIC05	4.001	SWMBIC06	0.1	0.204	0.006	0.0159	
5760 minute summer	SWMBRE01	2.000	SWMBIC01	0.0	0.000	0.000	0.0000	
5760 minute summer	SWMBIC01	2.001	SWMBIC02	0.0	0.000	0.000	0.0000	
5760 minute summer	SWMBIC02	2.002	SWMBIC03	0.0	0.000	0.000	0.0000	
5760 minute summer	SWMBIC03	1.001	SWMBIC04	0.6	0.319	0.008	0.0382	
5760 minute summer	SWMBRE05	1.000	SWMBIC03	0.2	0.278	0.005	0.0348	
5760 minute summer	SWMBIC04	1.002	SWMBIC07	0.9	0.386	0.008	0.0910	
5760 minute summer	SWMBIC10	9.000	SWMBIC12	0.2	0.263	0.003	0.0136	
5760 minute summer	SWMBIC12	7.002	SWMBIC14	0.3	0.223	0.007	0.0370	
5760 minute summer	SWMBRE06	7.000	SWMBIC11	0.0	0.000	0.000	0.0025	
5760 minute summer	SWMBIC11	7.001	SWMBIC12	0.1	0.298	0.005	0.0044	
5760 minute summer	SWMBIC14	7.003	TANK	0.8	0.412	0.019	0.0131	
5760 minute summer	SWMBIC13	10.001	SWMBIC14	0.1	0.436	0.003	0.0030	
5760 minute summer	SWMBRE08	11.000	SWMBIC13	0.0	0.000	0.000	0.0004	
5760 minute summer	SWMRE09	10.000	SWMBIC13	0.0	0.000	0.000	0.0009	
5760 minute summer	SWMBRE10	12.000	SWMBIC15	0.0	0.000	0.000	0.0000	
5760 minute summer	SWMBIC15	12.001	SWMBIC14	0.0	0.000	0.000	0.0000	
5760 minute summer	TANK	1.005	SWMBIC17	2.7	0.490	0.027	0.0268	

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Results for 30 year Critical Storm Duration. Lowest mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
5760 minute summer	SWMBMN01	3120	14.754	0.184	2.6	0.3035	0.0000	SURCHARGED
5760 minute summer	SW911	3120	13.641	0.022	2.4	0.0000	0.0000	OK
5760 minute summer	SWMBRE07	60	15.600	0.000	0.0	0.0000	0.0000	OK
5760 minute summer	SWMBIC16	60	15.485	0.000	0.0	0.0000	0.0000	OK
5760 minute summer	SWMBIC17	3120	14.754	0.074	2.7	0.0208	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)
5760 minute summer	SWMBMN01	1.007	SW911	2.4	1.470	0.046	0.0186	199.2
5760 minute summer	SWMBRE07	8.000	SWMBIC11	0.0	0.000	0.000	0.0021	
5760 minute summer	SWMBIC16	3.000	SWMBIC04	0.0	0.000	0.000	0.0000	
5760 minute summer	SWMBIC17	1.006	SWMBMN01	2.3	0.149	0.029	0.6332	

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Results for 100 year +40% CC Critical Storm Duration. Lowest mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
5760 minute summer	SWMBRE04	60	15.350	0.000	0.0	0.0000	0.0000	OK
5760 minute summer	SWMBIC08	2940	15.043	0.013	0.4	0.0105	0.0000	OK
5760 minute summer	SWMBIC09	3420	15.027	0.297	3.3	0.2141	0.0000	OK
5760 minute summer	SWMBRE03	60	15.550	0.000	0.0	0.0000	0.0000	OK
5760 minute summer	SWMBIC06	2760	15.196	0.016	0.4	0.0104	0.0000	OK
5760 minute summer	SWMBIC07	3420	15.027	0.162	2.5	0.1249	0.0000	OK
5760 minute summer	SWMBRE02	2760	15.558	0.008	0.1	0.0028	0.0000	OK
5760 minute summer	SWMBIC05	2760	15.486	0.011	0.2	0.0052	0.0000	OK
5760 minute summer	SWMBRE01	2940	15.709	0.009	0.1	0.0026	0.0000	OK
5760 minute summer	SWMBIC01	2940	15.662	0.012	0.2	0.0034	0.0000	OK
5760 minute summer	SWMBIC02	2940	15.612	0.012	0.2	0.0019	0.0000	OK
5760 minute summer	SWMBIC03	2940	15.387	0.027	1.2	0.0393	0.0000	OK
5760 minute summer	SWMBRE05	2940	15.769	0.014	0.3	0.0115	0.0000	OK
5760 minute summer	SWMBIC04	2940	15.296	0.026	1.7	0.0239	0.0000	OK
5760 minute summer	SWMBIC10	2880	15.378	0.013	0.4	0.0138	0.0000	OK
5760 minute summer	SWMBIC12	2880	15.158	0.018	0.6	0.0052	0.0000	OK
5760 minute summer	SWMBRE06	60	15.550	0.000	0.0	0.0000	0.0000	OK
5760 minute summer	SWMBIC11	2820	15.401	0.011	0.2	0.0051	0.0000	OK
5760 minute summer	SWMBIC14	3420	15.027	0.072	1.6	0.0801	0.0000	OK
5760 minute summer	SWMBIC13	2820	15.543	0.008	0.2	0.0048	0.0000	OK
5760 minute summer	SWMBRE08	60	15.600	0.000	0.0	0.0000	0.0000	OK
5760 minute summer	SWMRE09	60	15.600	0.000	0.0	0.0000	0.0000	OK
5760 minute summer	SWMBRE10	2640	15.302	0.007	0.1	0.0011	0.0000	OK
5760 minute summer	SWMBIC15	2640	15.193	0.008	0.1	0.0013	0.0000	OK
5760 minute summer	TANK	3420	15.026	0.326	4.8	84.7365	0.0000	SURCHARGED

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
5760 minute summer	SWMBRE04	6.000	SWMBIC08	0.0	0.000	0.000	0.0000	
5760 minute summer	SWMBIC08	6.001	SWMBIC09	0.4	0.384	0.007	0.3611	
5760 minute summer	SWMBIC09	1.004	TANK	3.2	0.370	0.046	0.5276	
5760 minute summer	SWMBRE03	5.000	SWMBIC06	0.0	0.000	0.000	0.0038	
5760 minute summer	SWMBIC06	4.002	SWMBIC07	0.4	0.399	0.024	0.0181	
5760 minute summer	SWMBIC07	1.003	SWMBIC09	2.5	0.395	0.028	1.1528	
5760 minute summer	SWMBRE02	4.000	SWMBIC05	0.1	0.207	0.006	0.0038	
5760 minute summer	SWMBIC05	4.001	SWMBIC06	0.2	0.249	0.012	0.0258	
5760 minute summer	SWMBRE01	2.000	SWMBIC01	0.1	0.192	0.006	0.0032	
5760 minute summer	SWMBIC01	2.001	SWMBIC02	0.2	0.303	0.013	0.0043	
5760 minute summer	SWMBIC02	2.002	SWMBIC03	0.2	0.308	0.013	0.0074	
5760 minute summer	SWMBIC03	1.001	SWMBIC04	1.2	0.402	0.016	0.0608	
5760 minute summer	SWMBRE05	1.000	SWMBIC03	0.3	0.315	0.007	0.0460	
5760 minute summer	SWMBIC04	1.002	SWMBIC07	1.7	0.464	0.015	0.7789	
5760 minute summer	SWMBIC10	9.000	SWMBIC12	0.4	0.328	0.007	0.0221	
5760 minute summer	SWMBIC12	7.002	SWMBIC14	0.6	0.265	0.014	0.1492	
5760 minute summer	SWMBRE06	7.000	SWMBIC11	0.0	0.000	0.000	0.0041	
5760 minute summer	SWMBIC11	7.001	SWMBIC12	0.2	0.368	0.010	0.0072	
5760 minute summer	SWMBIC14	7.003	TANK	1.6	0.504	0.038	0.1065	
5760 minute summer	SWMBIC13	10.001	SWMBIC14	0.2	0.531	0.006	0.0050	
5760 minute summer	SWMBRE08	11.000	SWMBIC13	0.0	0.000	0.000	0.0007	
5760 minute summer	SWMRE09	10.000	SWMBIC13	0.0	0.000	0.000	0.0014	
5760 minute summer	SWMBRE10	12.000	SWMBIC15	0.1	0.316	0.004	0.0014	
5760 minute summer	SWMBIC15	12.001	SWMBIC14	0.1	0.273	0.006	0.0055	
5760 minute summer	TANK	1.005	SWMBIC17	5.1	0.488	0.050	0.1723	

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Results for 100 year +40% CC Critical Storm Duration. Lowest mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
5760 minute summer	SWMBMN01	3420	15.028	0.458	3.2	0.7570	0.0000	SURCHARGED
7200 minute summer	SW911	4560	13.642	0.023	2.5	0.0000	0.0000	OK
5760 minute summer	SWMBRE07	60	15.600	0.000	0.0	0.0000	0.0000	OK
5760 minute summer	SWMBIC16	60	15.485	0.000	0.0	0.0000	0.0000	OK
5760 minute summer	SWMBIC17	3420	15.027	0.347	5.1	0.0983	0.0000	SURCHARGED

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
5760 minute summer	SWMBMN01	1.007	SW911	2.5	1.491	0.049	0.0193	425.6
5760 minute summer	SWMBRE07	8.000	SWMBIC11	0.0	0.000	0.000	0.0034	
5760 minute summer	SWMBIC16	3.000	SWMBIC04	0.0	0.000	0.000	0.0000	
5760 minute summer	SWMBIC17	1.006	SWMBMN01	3.1	0.147	0.039	1.5233	

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Results for 1 year 5760 minute summer. 6000 minute analysis at 60 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
5760 minute summer	SWMBRE04	60	15.350	0.000	0.0	0.0000	0.0000	OK
5760 minute summer	SWMBIC08	2580	15.037	0.007	0.1	0.0057	0.0000	OK
5760 minute summer	SWMBIC09	2760	14.752	0.022	0.7	0.0157	0.0000	OK
5760 minute summer	SWMBRE03	60	15.550	0.000	0.0	0.0000	0.0000	OK
5760 minute summer	SWMBIC06	60	15.180	0.000	0.0	0.0000	0.0000	OK
5760 minute summer	SWMBIC07	2820	14.881	0.016	0.5	0.0125	0.0000	OK
5760 minute summer	SWMBRE02	60	15.550	0.000	0.0	0.0000	0.0000	OK
5760 minute summer	SWMBIC05	60	15.475	0.000	0.0	0.0000	0.0000	OK
5760 minute summer	SWMBRE01	60	15.700	0.000	0.0	0.0000	0.0000	OK
5760 minute summer	SWMBIC01	60	15.650	0.000	0.0	0.0000	0.0000	OK
5760 minute summer	SWMBIC02	60	15.600	0.000	0.0	0.0000	0.0000	OK
5760 minute summer	SWMBIC03	2820	15.374	0.014	0.3	0.0208	0.0000	OK
5760 minute summer	SWMBRE05	2760	15.764	0.009	0.1	0.0072	0.0000	OK
5760 minute summer	SWMBIC04	2820	15.283	0.013	0.4	0.0123	0.0000	OK
5760 minute summer	SWMBIC10	2520	15.372	0.007	0.1	0.0074	0.0000	OK
5760 minute summer	SWMBIC12	2520	15.148	0.008	0.1	0.0023	0.0000	OK
5760 minute summer	SWMBRE06	60	15.550	0.000	0.0	0.0000	0.0000	OK
5760 minute summer	SWMBIC11	60	15.390	0.000	0.0	0.0000	0.0000	OK
5760 minute summer	SWMBIC14	2880	14.969	0.014	0.3	0.0155	0.0000	OK
5760 minute summer	SWMBIC13	60	15.535	0.000	0.0	0.0000	0.0000	OK
5760 minute summer	SWMBRE08	60	15.600	0.000	0.0	0.0000	0.0000	OK
5760 minute summer	SWMRE09	60	15.600	0.000	0.0	0.0000	0.0000	OK
5760 minute summer	SWMBRE10	60	15.295	0.000	0.0	0.0000	0.0000	OK
5760 minute summer	SWMBIC15	60	15.185	0.000	0.0	0.0000	0.0000	OK
5760 minute summer	TANK	3000	14.723	0.023	1.0	5.8502	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
5760 minute summer	SWMBRE04	6.000	SWMBIC08	0.0	0.000	0.000	0.0000	
5760 minute summer	SWMBIC08	6.001	SWMBIC09	0.1	0.291	0.002	0.0062	
5760 minute summer	SWMBIC09	1.004	TANK	0.7	0.329	0.010	0.0172	
5760 minute summer	SWMBRE03	5.000	SWMBIC06	0.0	0.000	0.000	0.0000	
5760 minute summer	SWMBIC06	4.002	SWMBIC07	0.0	0.000	0.000	0.0000	
5760 minute summer	SWMBIC07	1.003	SWMBIC09	0.5	0.276	0.006	0.0392	
5760 minute summer	SWMBRE02	4.000	SWMBIC05	0.0	0.000	0.000	0.0000	
5760 minute summer	SWMBIC05	4.001	SWMBIC06	0.0	0.000	0.000	0.0000	
5760 minute summer	SWMBRE01	2.000	SWMBIC01	0.0	0.000	0.000	0.0000	
5760 minute summer	SWMBIC01	2.001	SWMBIC02	0.0	0.000	0.000	0.0000	
5760 minute summer	SWMBIC02	2.002	SWMBIC03	0.0	0.000	0.000	0.0000	
5760 minute summer	SWMBIC03	1.001	SWMBIC04	0.3	0.267	0.004	0.0228	
5760 minute summer	SWMBRE05	1.000	SWMBIC03	0.1	0.252	0.002	0.0192	
5760 minute summer	SWMBIC04	1.002	SWMBIC07	0.4	0.319	0.004	0.0488	
5760 minute summer	SWMBIC10	9.000	SWMBIC12	0.1	0.253	0.002	0.0071	
5760 minute summer	SWMBIC12	7.002	SWMBIC14	0.1	0.173	0.002	0.0181	
5760 minute summer	SWMBRE06	7.000	SWMBIC11	0.0	0.000	0.000	0.0000	
5760 minute summer	SWMBIC11	7.001	SWMBIC12	0.0	0.000	0.000	0.0000	
5760 minute summer	SWMBIC14	7.003	TANK	0.3	0.313	0.007	0.0065	
5760 minute summer	SWMBIC13	10.001	SWMBIC14	0.0	0.000	0.000	0.0000	
5760 minute summer	SWMBRE08	11.000	SWMBIC13	0.0	0.000	0.000	0.0000	
5760 minute summer	SWMRE09	10.000	SWMBIC13	0.0	0.000	0.000	0.0000	
5760 minute summer	SWMBRE10	12.000	SWMBIC15	0.0	0.000	0.000	0.0000	
5760 minute summer	SWMBIC15	12.001	SWMBIC14	0.0	0.000	0.000	0.0000	
5760 minute summer	TANK	1.005	SWMBIC17	1.0	0.404	0.010	0.0060	

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Results for 1 year 5760 minute summer. 6000 minute analysis at 60 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
5760 minute summer	SWMBMN01	3000	14.640	0.070	1.1	0.1157	0.0000	OK
5760 minute summer	SW911	3000	13.634	0.015	1.1	0.0000	0.0000	OK
5760 minute summer	SWMBRE07	60	15.600	0.000	0.0	0.0000	0.0000	OK
5760 minute summer	SWMBIC16	60	15.485	0.000	0.0	0.0000	0.0000	OK
5760 minute summer	SWMBIC17	3000	14.704	0.024	1.0	0.0067	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
5760 minute summer	SWMBMN01	1.007	SW911	1.1	1.167	0.021	0.0108	60.2
5760 minute summer	SWMBRE07	8.000	SWMBIC11	0.0	0.000	0.000	0.0000	
5760 minute summer	SWMBIC16	3.000	SWMBIC04	0.0	0.000	0.000	0.0000	
5760 minute summer	SWMBIC17	1.006	SWMBMN01	1.0	0.143	0.013	0.1623	

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Results for 1 year 7200 minute summer. 7440 minute analysis at 60 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
7200 minute summer	SWMBRE04	60	15.350	0.000	0.0	0.0000	0.0000	OK
7200 minute summer	SWMBIC08	3300	15.037	0.007	0.1	0.0057	0.0000	OK
7200 minute summer	SWMBIC09	3660	14.752	0.022	0.7	0.0157	0.0000	OK
7200 minute summer	SWMBRE03	60	15.550	0.000	0.0	0.0000	0.0000	OK
7200 minute summer	SWMBIC06	60	15.180	0.000	0.0	0.0000	0.0000	OK
7200 minute summer	SWMBIC07	3660	14.881	0.016	0.5	0.0125	0.0000	OK
7200 minute summer	SWMBRE02	60	15.550	0.000	0.0	0.0000	0.0000	OK
7200 minute summer	SWMBIC05	60	15.475	0.000	0.0	0.0000	0.0000	OK
7200 minute summer	SWMBRE01	60	15.700	0.000	0.0	0.0000	0.0000	OK
7200 minute summer	SWMBIC01	60	15.650	0.000	0.0	0.0000	0.0000	OK
7200 minute summer	SWMBIC02	60	15.600	0.000	0.0	0.0000	0.0000	OK
7200 minute summer	SWMBIC03	3660	15.374	0.014	0.3	0.0208	0.0000	OK
7200 minute summer	SWMBRE05	3540	15.764	0.009	0.1	0.0072	0.0000	OK
7200 minute summer	SWMBIC04	3660	15.283	0.013	0.4	0.0123	0.0000	OK
7200 minute summer	SWMBIC10	3240	15.372	0.007	0.1	0.0074	0.0000	OK
7200 minute summer	SWMBIC12	3240	15.148	0.008	0.1	0.0023	0.0000	OK
7200 minute summer	SWMBRE06	60	15.550	0.000	0.0	0.0000	0.0000	OK
7200 minute summer	SWMBIC11	60	15.390	0.000	0.0	0.0000	0.0000	OK
7200 minute summer	SWMBIC14	3240	14.966	0.011	0.2	0.0128	0.0000	OK
7200 minute summer	SWMBIC13	60	15.535	0.000	0.0	0.0000	0.0000	OK
7200 minute summer	SWMBRE08	60	15.600	0.000	0.0	0.0000	0.0000	OK
7200 minute summer	SWMRE09	60	15.600	0.000	0.0	0.0000	0.0000	OK
7200 minute summer	SWMBRE10	60	15.295	0.000	0.0	0.0000	0.0000	OK
7200 minute summer	SWMBIC15	60	15.185	0.000	0.0	0.0000	0.0000	OK
7200 minute summer	TANK	3660	14.721	0.021	0.9	5.4946	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
7200 minute summer	SWMBRE04	6.000	SWMBIC08	0.0	0.000	0.000	0.0000	
7200 minute summer	SWMBIC08	6.001	SWMBIC09	0.1	0.291	0.002	0.0062	
7200 minute summer	SWMBIC09	1.004	TANK	0.7	0.329	0.010	0.0166	
7200 minute summer	SWMBRE03	5.000	SWMBIC06	0.0	0.000	0.000	0.0000	
7200 minute summer	SWMBIC06	4.002	SWMBIC07	0.0	0.000	0.000	0.0000	
7200 minute summer	SWMBIC07	1.003	SWMBIC09	0.5	0.273	0.006	0.0393	
7200 minute summer	SWMBRE02	4.000	SWMBIC05	0.0	0.000	0.000	0.0000	
7200 minute summer	SWMBIC05	4.001	SWMBIC06	0.0	0.000	0.000	0.0000	
7200 minute summer	SWMBRE01	2.000	SWMBIC01	0.0	0.000	0.000	0.0000	
7200 minute summer	SWMBIC01	2.001	SWMBIC02	0.0	0.000	0.000	0.0000	
7200 minute summer	SWMBIC02	2.002	SWMBIC03	0.0	0.000	0.000	0.0000	
7200 minute summer	SWMBIC03	1.001	SWMBIC04	0.3	0.267	0.004	0.0228	
7200 minute summer	SWMBRE05	1.000	SWMBIC03	0.1	0.252	0.002	0.0192	
7200 minute summer	SWMBIC04	1.002	SWMBIC07	0.4	0.319	0.004	0.0488	
7200 minute summer	SWMBIC10	9.000	SWMBIC12	0.1	0.253	0.002	0.0071	
7200 minute summer	SWMBIC12	7.002	SWMBIC14	0.1	0.173	0.002	0.0149	
7200 minute summer	SWMBRE06	7.000	SWMBIC11	0.0	0.000	0.000	0.0000	
7200 minute summer	SWMBIC11	7.001	SWMBIC12	0.0	0.000	0.000	0.0000	
7200 minute summer	SWMBIC14	7.003	TANK	0.2	0.276	0.005	0.0049	
7200 minute summer	SWMBIC13	10.001	SWMBIC14	0.0	0.000	0.000	0.0000	
7200 minute summer	SWMBRE08	11.000	SWMBIC13	0.0	0.000	0.000	0.0000	
7200 minute summer	SWMRE09	10.000	SWMBIC13	0.0	0.000	0.000	0.0000	
7200 minute summer	SWMBRE10	12.000	SWMBIC15	0.0	0.000	0.000	0.0000	
7200 minute summer	SWMBIC15	12.001	SWMBIC14	0.0	0.000	0.000	0.0000	
7200 minute summer	TANK	1.005	SWMBIC17	0.9	0.390	0.009	0.0055	

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Results for 1 year 7200 minute summer. 7440 minute analysis at 60 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
7200 minute summer	SWMBMN01	3660	14.635	0.065	1.0	0.1076	0.0000	OK
7200 minute summer	SW911	3660	13.633	0.014	1.0	0.0000	0.0000	OK
7200 minute summer	SWMBRE07	60	15.600	0.000	0.0	0.0000	0.0000	OK
7200 minute summer	SWMBIC16	60	15.485	0.000	0.0	0.0000	0.0000	OK
7200 minute summer	SWMBIC17	3660	14.702	0.022	0.9	0.0063	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
7200 minute summer	SWMBMN01	1.007	SW911	1.0	1.128	0.019	0.0099	61.7
7200 minute summer	SWMBRE07	8.000	SWMBIC11	0.0	0.000	0.000	0.0000	
7200 minute summer	SWMBIC16	3.000	SWMBIC04	0.0	0.000	0.000	0.0000	
7200 minute summer	SWMBIC17	1.006	SWMBMN01	0.9	0.139	0.011	0.1468	

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Results for 1 year 8640 minute summer. 8880 minute analysis at 60 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
8640 minute summer	SWMBRE04	60	15.350	0.000	0.0	0.0000	0.0000	OK
8640 minute summer	SWMBIC08	4020	15.037	0.007	0.1	0.0057	0.0000	OK
8640 minute summer	SWMBIC09	4320	14.750	0.020	0.6	0.0146	0.0000	OK
8640 minute summer	SWMBRE03	60	15.550	0.000	0.0	0.0000	0.0000	OK
8640 minute summer	SWMBIC06	60	15.180	0.000	0.0	0.0000	0.0000	OK
8640 minute summer	SWMBIC07	4320	14.880	0.015	0.4	0.0113	0.0000	OK
8640 minute summer	SWMBRE02	60	15.550	0.000	0.0	0.0000	0.0000	OK
8640 minute summer	SWMBIC05	60	15.475	0.000	0.0	0.0000	0.0000	OK
8640 minute summer	SWMBRE01	60	15.700	0.000	0.0	0.0000	0.0000	OK
8640 minute summer	SWMBIC01	60	15.650	0.000	0.0	0.0000	0.0000	OK
8640 minute summer	SWMBIC02	60	15.600	0.000	0.0	0.0000	0.0000	OK
8640 minute summer	SWMBIC03	4320	15.372	0.012	0.2	0.0171	0.0000	OK
8640 minute summer	SWMBRE05	4320	15.764	0.009	0.1	0.0072	0.0000	OK
8640 minute summer	SWMBIC04	4320	15.282	0.012	0.3	0.0108	0.0000	OK
8640 minute summer	SWMBIC10	3960	15.372	0.007	0.1	0.0074	0.0000	OK
8640 minute summer	SWMBIC12	3960	15.148	0.008	0.1	0.0023	0.0000	OK
8640 minute summer	SWMBRE06	60	15.550	0.000	0.0	0.0000	0.0000	OK
8640 minute summer	SWMBIC11	60	15.390	0.000	0.0	0.0000	0.0000	OK
8640 minute summer	SWMBIC14	3960	14.966	0.011	0.2	0.0128	0.0000	OK
8640 minute summer	SWMBIC13	60	15.535	0.000	0.0	0.0000	0.0000	OK
8640 minute summer	SWMBRE08	60	15.600	0.000	0.0	0.0000	0.0000	OK
8640 minute summer	SWMRE09	60	15.600	0.000	0.0	0.0000	0.0000	OK
8640 minute summer	SWMBRE10	60	15.295	0.000	0.0	0.0000	0.0000	OK
8640 minute summer	SWMBIC15	60	15.185	0.000	0.0	0.0000	0.0000	OK
8640 minute summer	TANK	4440	14.720	0.020	0.8	5.2489	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
8640 minute summer	SWMBRE04	6.000	SWMBIC08	0.0	0.000	0.000	0.0000	
8640 minute summer	SWMBIC08	6.001	SWMBIC09	0.1	0.291	0.002	0.0062	
8640 minute summer	SWMBIC09	1.004	TANK	0.6	0.329	0.009	0.0151	
8640 minute summer	SWMBRE03	5.000	SWMBIC06	0.0	0.000	0.000	0.0000	
8640 minute summer	SWMBIC06	4.002	SWMBIC07	0.0	0.000	0.000	0.0000	
8640 minute summer	SWMBIC07	1.003	SWMBIC09	0.4	0.247	0.005	0.0345	
8640 minute summer	SWMBRE02	4.000	SWMBIC05	0.0	0.000	0.000	0.0000	
8640 minute summer	SWMBIC05	4.001	SWMBIC06	0.0	0.000	0.000	0.0000	
8640 minute summer	SWMBRE01	2.000	SWMBIC01	0.0	0.000	0.000	0.0000	
8640 minute summer	SWMBIC01	2.001	SWMBIC02	0.0	0.000	0.000	0.0000	
8640 minute summer	SWMBIC02	2.002	SWMBIC03	0.0	0.000	0.000	0.0000	
8640 minute summer	SWMBIC03	1.001	SWMBIC04	0.2	0.230	0.003	0.0176	
8640 minute summer	SWMBRE05	1.000	SWMBIC03	0.1	0.252	0.002	0.0192	
8640 minute summer	SWMBIC04	1.002	SWMBIC07	0.3	0.289	0.003	0.0410	
8640 minute summer	SWMBIC10	9.000	SWMBIC12	0.1	0.253	0.002	0.0071	
8640 minute summer	SWMBIC12	7.002	SWMBIC14	0.1	0.173	0.002	0.0149	
8640 minute summer	SWMBRE06	7.000	SWMBIC11	0.0	0.000	0.000	0.0000	
8640 minute summer	SWMBIC11	7.001	SWMBIC12	0.0	0.000	0.000	0.0000	
8640 minute summer	SWMBIC14	7.003	TANK	0.2	0.276	0.005	0.0049	
8640 minute summer	SWMBIC13	10.001	SWMBIC14	0.0	0.000	0.000	0.0000	
8640 minute summer	SWMBRE08	11.000	SWMBIC13	0.0	0.000	0.000	0.0000	
8640 minute summer	SWMRE09	10.000	SWMBIC13	0.0	0.000	0.000	0.0000	
8640 minute summer	SWMBRE10	12.000	SWMBIC15	0.0	0.000	0.000	0.0000	
8640 minute summer	SWMBIC15	12.001	SWMBIC14	0.0	0.000	0.000	0.0000	
8640 minute summer	TANK	1.005	SWMBIC17	0.8	0.380	0.008	0.0051	

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Results for 1 year 8640 minute summer. 8880 minute analysis at 60 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
8640 minute summer	SWMBMN01	4440	14.632	0.062	0.9	0.1023	0.0000	OK
8640 minute summer	SW911	4440	13.633	0.014	0.9	0.0000	0.0000	OK
8640 minute summer	SWMBRE07	60	15.600	0.000	0.0	0.0000	0.0000	OK
8640 minute summer	SWMBIC16	60	15.485	0.000	0.0	0.0000	0.0000	OK
8640 minute summer	SWMBIC17	4440	14.701	0.021	0.8	0.0060	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
8640 minute summer	SWMBMN01	1.007	SW911	0.9	1.100	0.017	0.0094	65.4
8640 minute summer	SWMBRE07	8.000	SWMBIC11	0.0	0.000	0.000	0.0000	
8640 minute summer	SWMBIC16	3.000	SWMBIC04	0.0	0.000	0.000	0.0000	
8640 minute summer	SWMBIC17	1.006	SWMBMN01	0.8	0.136	0.010	0.1367	

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Results for 1 year 10080 minute summer. 10320 minute analysis at 60 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
10080 minute summer	SWMBRE04	60	15.350	0.000	0.0	0.0000	0.0000	OK
10080 minute summer	SWMBIC08	4740	15.037	0.007	0.1	0.0057	0.0000	OK
10080 minute summer	SWMBIC09	4680	14.749	0.019	0.5	0.0134	0.0000	OK
10080 minute summer	SWMBRE03	60	15.550	0.000	0.0	0.0000	0.0000	OK
10080 minute summer	SWMBIC06	60	15.180	0.000	0.0	0.0000	0.0000	OK
10080 minute summer	SWMBIC07	4620	14.878	0.013	0.3	0.0100	0.0000	OK
10080 minute summer	SWMBRE02	60	15.550	0.000	0.0	0.0000	0.0000	OK
10080 minute summer	SWMBIC05	60	15.475	0.000	0.0	0.0000	0.0000	OK
10080 minute summer	SWMBRE01	60	15.700	0.000	0.0	0.0000	0.0000	OK
10080 minute summer	SWMBIC01	60	15.650	0.000	0.0	0.0000	0.0000	OK
10080 minute summer	SWMBIC02	60	15.600	0.000	0.0	0.0000	0.0000	OK
10080 minute summer	SWMBIC03	4080	15.369	0.009	0.1	0.0130	0.0000	OK
10080 minute summer	SWMBRE05	60	15.755	0.000	0.0	0.0000	0.0000	OK
10080 minute summer	SWMBIC04	4500	15.280	0.010	0.2	0.0090	0.0000	OK
10080 minute summer	SWMBIC10	4680	15.372	0.007	0.1	0.0074	0.0000	OK
10080 minute summer	SWMBIC12	4680	15.148	0.008	0.1	0.0023	0.0000	OK
10080 minute summer	SWMBRE06	60	15.550	0.000	0.0	0.0000	0.0000	OK
10080 minute summer	SWMBIC11	60	15.390	0.000	0.0	0.0000	0.0000	OK
10080 minute summer	SWMBIC14	4680	14.966	0.011	0.2	0.0128	0.0000	OK
10080 minute summer	SWMBIC13	60	15.535	0.000	0.0	0.0000	0.0000	OK
10080 minute summer	SWMBRE08	60	15.600	0.000	0.0	0.0000	0.0000	OK
10080 minute summer	SWMRE09	60	15.600	0.000	0.0	0.0000	0.0000	OK
10080 minute summer	SWMBRE10	60	15.295	0.000	0.0	0.0000	0.0000	OK
10080 minute summer	SWMBIC15	60	15.185	0.000	0.0	0.0000	0.0000	OK
10080 minute summer	TANK	5460	14.719	0.019	0.7	4.9211	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
10080 minute summer	SWMBRE04	6.000	SWMBIC08	0.0	0.000	0.000	0.0000	
10080 minute summer	SWMBIC08	6.001	SWMBIC09	0.1	0.291	0.002	0.0062	
10080 minute summer	SWMBIC09	1.004	TANK	0.5	0.329	0.007	0.0134	
10080 minute summer	SWMBRE03	5.000	SWMBIC06	0.0	0.000	0.000	0.0000	
10080 minute summer	SWMBIC06	4.002	SWMBIC07	0.0	0.000	0.000	0.0000	
10080 minute summer	SWMBIC07	1.003	SWMBIC09	0.3	0.241	0.003	0.0297	
10080 minute summer	SWMBRE02	4.000	SWMBIC05	0.0	0.000	0.000	0.0000	
10080 minute summer	SWMBIC05	4.001	SWMBIC06	0.0	0.000	0.000	0.0000	
10080 minute summer	SWMBRE01	2.000	SWMBIC01	0.0	0.000	0.000	0.0000	
10080 minute summer	SWMBIC01	2.001	SWMBIC02	0.0	0.000	0.000	0.0000	
10080 minute summer	SWMBIC02	2.002	SWMBIC03	0.0	0.000	0.000	0.0000	
10080 minute summer	SWMBIC03	1.001	SWMBIC04	0.1	0.204	0.001	0.0120	
10080 minute summer	SWMBRE05	1.000	SWMBIC03	0.0	0.000	0.000	0.0000	
10080 minute summer	SWMBIC04	1.002	SWMBIC07	0.2	0.283	0.002	0.0323	
10080 minute summer	SWMBIC10	9.000	SWMBIC12	0.1	0.253	0.002	0.0071	
10080 minute summer	SWMBIC12	7.002	SWMBIC14	0.1	0.173	0.002	0.0149	
10080 minute summer	SWMBRE06	7.000	SWMBIC11	0.0	0.000	0.000	0.0000	
10080 minute summer	SWMBIC11	7.001	SWMBIC12	0.0	0.000	0.000	0.0000	
10080 minute summer	SWMBIC14	7.003	TANK	0.2	0.276	0.005	0.0049	
10080 minute summer	SWMBIC13	10.001	SWMBIC14	0.0	0.000	0.000	0.0000	
10080 minute summer	SWMBRE08	11.000	SWMBIC13	0.0	0.000	0.000	0.0000	
10080 minute summer	SWMRE09	10.000	SWMBIC13	0.0	0.000	0.000	0.0000	
10080 minute summer	SWMBRE10	12.000	SWMBIC15	0.0	0.000	0.000	0.0000	
10080 minute summer	SWMBIC15	12.001	SWMBIC14	0.0	0.000	0.000	0.0000	
10080 minute summer	TANK	1.005	SWMBIC17	0.7	0.366	0.007	0.0047	

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Results for 1 year 10080 minute summer. 10320 minute analysis at 60 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
10080 minute summer	SWMBMN01	5460	14.628	0.058	0.8	0.0957	0.0000	OK
10080 minute summer	SW911	5460	13.632	0.013	0.8	0.0000	0.0000	OK
10080 minute summer	SWMBRE07	60	15.600	0.000	0.0	0.0000	0.0000	OK
10080 minute summer	SWMBIC16	60	15.485	0.000	0.0	0.0000	0.0000	OK
10080 minute summer	SWMBIC17	5460	14.700	0.020	0.7	0.0057	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
10080 minute summer	SWMBMN01	1.007	SW911	0.8	1.065	0.016	0.0086	66.1
10080 minute summer	SWMBRE07	8.000	SWMBIC11	0.0	0.000	0.000	0.0000	
10080 minute summer	SWMBIC16	3.000	SWMBIC04	0.0	0.000	0.000	0.0000	
10080 minute summer	SWMBIC17	1.006	SWMBMN01	0.7	0.131	0.009	0.1243	

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Results for 30 year 5760 minute summer. 6000 minute analysis at 60 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
5760 minute summer	SWMBRE04	60	15.350	0.000	0.0	0.0000	0.0000	OK
5760 minute summer	SWMBIC08	2760	15.040	0.010	0.2	0.0077	0.0000	OK
5760 minute summer	SWMBIC09	2940	14.762	0.032	1.7	0.0232	0.0000	OK
5760 minute summer	SWMBRE03	60	15.550	0.000	0.0	0.0000	0.0000	OK
5760 minute summer	SWMBIC06	2700	15.192	0.012	0.2	0.0075	0.0000	OK
5760 minute summer	SWMBIC07	2940	14.890	0.025	1.3	0.0196	0.0000	OK
5760 minute summer	SWMBRE02	60	15.550	0.000	0.0	0.0000	0.0000	OK
5760 minute summer	SWMBIC05	2700	15.483	0.008	0.1	0.0038	0.0000	OK
5760 minute summer	SWMBRE01	60	15.700	0.000	0.0	0.0000	0.0000	OK
5760 minute summer	SWMBIC01	60	15.650	0.000	0.0	0.0000	0.0000	OK
5760 minute summer	SWMBIC02	60	15.600	0.000	0.0	0.0000	0.0000	OK
5760 minute summer	SWMBIC03	2940	15.380	0.020	0.6	0.0284	0.0000	OK
5760 minute summer	SWMBRE05	2940	15.766	0.011	0.2	0.0095	0.0000	OK
5760 minute summer	SWMBIC04	2940	15.289	0.019	0.9	0.0179	0.0000	OK
5760 minute summer	SWMBIC10	2700	15.375	0.010	0.2	0.0101	0.0000	OK
5760 minute summer	SWMBIC12	2700	15.153	0.013	0.3	0.0038	0.0000	OK
5760 minute summer	SWMBRE06	60	15.550	0.000	0.0	0.0000	0.0000	OK
5760 minute summer	SWMBIC11	2460	15.398	0.008	0.1	0.0036	0.0000	OK
5760 minute summer	SWMBIC14	2880	14.977	0.022	0.8	0.0246	0.0000	OK
5760 minute summer	SWMBIC13	2460	15.541	0.006	0.1	0.0035	0.0000	OK
5760 minute summer	SWMBRE08	60	15.600	0.000	0.0	0.0000	0.0000	OK
5760 minute summer	SWMRE09	60	15.600	0.000	0.0	0.0000	0.0000	OK
5760 minute summer	SWMBRE10	60	15.295	0.000	0.0	0.0000	0.0000	OK
5760 minute summer	SWMBIC15	60	15.185	0.000	0.0	0.0000	0.0000	OK
5760 minute summer	TANK	3120	14.754	0.054	2.5	13.9679	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
5760 minute summer	SWMBRE04	6.000	SWMBIC08	0.0	0.000	0.000	0.0000	
5760 minute summer	SWMBIC08	6.001	SWMBIC09	0.2	0.343	0.003	0.0105	
5760 minute summer	SWMBIC09	1.004	TANK	1.7	0.370	0.024	0.0457	
5760 minute summer	SWMBRE03	5.000	SWMBIC06	0.0	0.000	0.000	0.0024	
5760 minute summer	SWMBIC06	4.002	SWMBIC07	0.2	0.324	0.012	0.0112	
5760 minute summer	SWMBIC07	1.003	SWMBIC09	1.3	0.381	0.015	0.0724	
5760 minute summer	SWMBRE02	4.000	SWMBIC05	0.0	0.000	0.000	0.0015	
5760 minute summer	SWMBIC05	4.001	SWMBIC06	0.1	0.204	0.006	0.0159	
5760 minute summer	SWMBRE01	2.000	SWMBIC01	0.0	0.000	0.000	0.0000	
5760 minute summer	SWMBIC01	2.001	SWMBIC02	0.0	0.000	0.000	0.0000	
5760 minute summer	SWMBIC02	2.002	SWMBIC03	0.0	0.000	0.000	0.0000	
5760 minute summer	SWMBIC03	1.001	SWMBIC04	0.6	0.319	0.008	0.0382	
5760 minute summer	SWMBRE05	1.000	SWMBIC03	0.2	0.278	0.005	0.0348	
5760 minute summer	SWMBIC04	1.002	SWMBIC07	0.9	0.386	0.008	0.0910	
5760 minute summer	SWMBIC10	9.000	SWMBIC12	0.2	0.263	0.003	0.0136	
5760 minute summer	SWMBIC12	7.002	SWMBIC14	0.3	0.223	0.007	0.0370	
5760 minute summer	SWMBRE06	7.000	SWMBIC11	0.0	0.000	0.000	0.0025	
5760 minute summer	SWMBIC11	7.001	SWMBIC12	0.1	0.298	0.005	0.0044	
5760 minute summer	SWMBIC14	7.003	TANK	0.8	0.412	0.019	0.0131	
5760 minute summer	SWMBIC13	10.001	SWMBIC14	0.1	0.436	0.003	0.0030	
5760 minute summer	SWMBRE08	11.000	SWMBIC13	0.0	0.000	0.000	0.0004	
5760 minute summer	SWMRE09	10.000	SWMBIC13	0.0	0.000	0.000	0.0009	
5760 minute summer	SWMBRE10	12.000	SWMBIC15	0.0	0.000	0.000	0.0000	
5760 minute summer	SWMBIC15	12.001	SWMBIC14	0.0	0.000	0.000	0.0000	
5760 minute summer	TANK	1.005	SWMBIC17	2.7	0.490	0.027	0.0268	

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Results for 30 year 5760 minute summer. 6000 minute analysis at 60 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
5760 minute summer	SWMBMN01	3120	14.754	0.184	2.6	0.3035	0.0000	SURCHARGED
5760 minute summer	SW911	3120	13.641	0.022	2.4	0.0000	0.0000	OK
5760 minute summer	SWMBRE07	60	15.600	0.000	0.0	0.0000	0.0000	OK
5760 minute summer	SWMBIC16	60	15.485	0.000	0.0	0.0000	0.0000	OK
5760 minute summer	SWMBIC17	3120	14.754	0.074	2.7	0.0208	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
5760 minute summer	SWMBMN01	1.007	SW911	2.4	1.470	0.046	0.0186	199.2
5760 minute summer	SWMBRE07	8.000	SWMBIC11	0.0	0.000	0.000	0.0021	
5760 minute summer	SWMBIC16	3.000	SWMBIC04	0.0	0.000	0.000	0.0000	
5760 minute summer	SWMBIC17	1.006	SWMBMN01	2.3	0.149	0.029	0.6332	

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Results for 30 year 7200 minute summer. 7440 minute analysis at 60 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
7200 minute summer	SWMBRE04	60	15.350	0.000	0.0	0.0000	0.0000	OK
7200 minute summer	SWMBIC08	3540	15.040	0.010	0.2	0.0077	0.0000	OK
7200 minute summer	SWMBIC09	3600	14.761	0.031	1.5	0.0222	0.0000	OK
7200 minute summer	SWMBRE03	60	15.550	0.000	0.0	0.0000	0.0000	OK
7200 minute summer	SWMBIC06	3480	15.192	0.012	0.2	0.0075	0.0000	OK
7200 minute summer	SWMBIC07	3660	14.888	0.023	1.1	0.0181	0.0000	OK
7200 minute summer	SWMBRE02	60	15.550	0.000	0.0	0.0000	0.0000	OK
7200 minute summer	SWMBIC05	3480	15.483	0.008	0.1	0.0038	0.0000	OK
7200 minute summer	SWMBRE01	60	15.700	0.000	0.0	0.0000	0.0000	OK
7200 minute summer	SWMBIC01	60	15.650	0.000	0.0	0.0000	0.0000	OK
7200 minute summer	SWMBIC02	60	15.600	0.000	0.0	0.0000	0.0000	OK
7200 minute summer	SWMBIC03	3660	15.378	0.018	0.5	0.0262	0.0000	OK
7200 minute summer	SWMBRE05	2940	15.764	0.009	0.1	0.0072	0.0000	OK
7200 minute summer	SWMBIC04	3660	15.287	0.017	0.7	0.0158	0.0000	OK
7200 minute summer	SWMBIC10	3480	15.375	0.010	0.2	0.0101	0.0000	OK
7200 minute summer	SWMBIC12	3480	15.153	0.013	0.3	0.0038	0.0000	OK
7200 minute summer	SWMBRE06	60	15.550	0.000	0.0	0.0000	0.0000	OK
7200 minute summer	SWMBIC11	3180	15.398	0.008	0.1	0.0036	0.0000	OK
7200 minute summer	SWMBIC14	3480	14.976	0.021	0.7	0.0231	0.0000	OK
7200 minute summer	SWMBIC13	3180	15.541	0.006	0.1	0.0035	0.0000	OK
7200 minute summer	SWMBRE08	60	15.600	0.000	0.0	0.0000	0.0000	OK
7200 minute summer	SWMRE09	60	15.600	0.000	0.0	0.0000	0.0000	OK
7200 minute summer	SWMBRE10	60	15.295	0.000	0.0	0.0000	0.0000	OK
7200 minute summer	SWMBIC15	60	15.185	0.000	0.0	0.0000	0.0000	OK
7200 minute summer	TANK	3720	14.737	0.037	2.2	9.6308	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
7200 minute summer	SWMBRE04	6.000	SWMBIC08	0.0	0.000	0.000	0.0000	
7200 minute summer	SWMBIC08	6.001	SWMBIC09	0.2	0.343	0.003	0.0105	
7200 minute summer	SWMBIC09	1.004	TANK	1.5	0.367	0.021	0.0320	
7200 minute summer	SWMBRE03	5.000	SWMBIC06	0.0	0.000	0.000	0.0024	
7200 minute summer	SWMBIC06	4.002	SWMBIC07	0.2	0.324	0.012	0.0112	
7200 minute summer	SWMBIC07	1.003	SWMBIC09	1.1	0.355	0.012	0.0667	
7200 minute summer	SWMBRE02	4.000	SWMBIC05	0.0	0.000	0.000	0.0015	
7200 minute summer	SWMBIC05	4.001	SWMBIC06	0.1	0.204	0.006	0.0159	
7200 minute summer	SWMBRE01	2.000	SWMBIC01	0.0	0.000	0.000	0.0000	
7200 minute summer	SWMBIC01	2.001	SWMBIC02	0.0	0.000	0.000	0.0000	
7200 minute summer	SWMBIC02	2.002	SWMBIC03	0.0	0.000	0.000	0.0000	
7200 minute summer	SWMBIC03	1.001	SWMBIC04	0.5	0.307	0.007	0.0331	
7200 minute summer	SWMBRE05	1.000	SWMBIC03	0.1	0.252	0.002	0.0192	
7200 minute summer	SWMBIC04	1.002	SWMBIC07	0.7	0.351	0.006	0.0794	
7200 minute summer	SWMBIC10	9.000	SWMBIC12	0.2	0.263	0.003	0.0136	
7200 minute summer	SWMBIC12	7.002	SWMBIC14	0.3	0.223	0.007	0.0347	
7200 minute summer	SWMBRE06	7.000	SWMBIC11	0.0	0.000	0.000	0.0025	
7200 minute summer	SWMBIC11	7.001	SWMBIC12	0.1	0.298	0.005	0.0044	
7200 minute summer	SWMBIC14	7.003	TANK	0.7	0.396	0.017	0.0119	
7200 minute summer	SWMBIC13	10.001	SWMBIC14	0.1	0.436	0.003	0.0030	
7200 minute summer	SWMBRE08	11.000	SWMBIC13	0.0	0.000	0.000	0.0004	
7200 minute summer	SWMRE09	10.000	SWMBIC13	0.0	0.000	0.000	0.0009	
7200 minute summer	SWMBRE10	12.000	SWMBIC15	0.0	0.000	0.000	0.0000	
7200 minute summer	SWMBIC15	12.001	SWMBIC14	0.0	0.000	0.000	0.0000	
7200 minute summer	TANK	1.005	SWMBIC17	2.1	0.491	0.021	0.0173	

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Results for 30 year 7200 minute summer. 7440 minute analysis at 60 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
7200 minute summer	SWMBMN01	3720	14.736	0.166	2.3	0.2752	0.0000	SURCHARGED
7200 minute summer	SW911	3720	13.641	0.022	2.3	0.0000	0.0000	OK
7200 minute summer	SWMBRE07	60	15.600	0.000	0.0	0.0000	0.0000	OK
7200 minute summer	SWMBIC16	60	15.485	0.000	0.0	0.0000	0.0000	OK
7200 minute summer	SWMBIC17	3720	14.737	0.057	2.1	0.0160	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
7200 minute summer	SWMBMN01	1.007	SW911	2.3	1.461	0.045	0.0184	199.9
7200 minute summer	SWMBRE07	8.000	SWMBIC11	0.0	0.000	0.000	0.0021	
7200 minute summer	SWMBIC16	3.000	SWMBIC04	0.0	0.000	0.000	0.0000	
7200 minute summer	SWMBIC17	1.006	SWMBMN01	2.1	0.149	0.027	0.5330	

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Results for 30 year 8640 minute summer. 8880 minute analysis at 60 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
8640 minute summer	SWMBRE04	60	15.350	0.000	0.0	0.0000	0.0000	OK
8640 minute summer	SWMBIC08	4320	15.040	0.010	0.2	0.0077	0.0000	OK
8640 minute summer	SWMBIC09	4260	14.760	0.030	1.4	0.0216	0.0000	OK
8640 minute summer	SWMBRE03	60	15.550	0.000	0.0	0.0000	0.0000	OK
8640 minute summer	SWMBIC06	4260	15.192	0.012	0.2	0.0075	0.0000	OK
8640 minute summer	SWMBIC07	4260	14.887	0.022	1.0	0.0173	0.0000	OK
8640 minute summer	SWMBRE02	60	15.550	0.000	0.0	0.0000	0.0000	OK
8640 minute summer	SWMBIC05	4260	15.483	0.008	0.1	0.0038	0.0000	OK
8640 minute summer	SWMBRE01	60	15.700	0.000	0.0	0.0000	0.0000	OK
8640 minute summer	SWMBIC01	60	15.650	0.000	0.0	0.0000	0.0000	OK
8640 minute summer	SWMBIC02	60	15.600	0.000	0.0	0.0000	0.0000	OK
8640 minute summer	SWMBIC03	4140	15.376	0.016	0.4	0.0234	0.0000	OK
8640 minute summer	SWMBRE05	3600	15.764	0.009	0.1	0.0072	0.0000	OK
8640 minute summer	SWMBIC04	4140	15.286	0.016	0.6	0.0147	0.0000	OK
8640 minute summer	SWMBIC10	4260	15.375	0.010	0.2	0.0101	0.0000	OK
8640 minute summer	SWMBIC12	4260	15.153	0.013	0.3	0.0038	0.0000	OK
8640 minute summer	SWMBRE06	60	15.550	0.000	0.0	0.0000	0.0000	OK
8640 minute summer	SWMBIC11	3960	15.398	0.008	0.1	0.0036	0.0000	OK
8640 minute summer	SWMBIC14	4260	14.976	0.021	0.7	0.0231	0.0000	OK
8640 minute summer	SWMBIC13	3960	15.541	0.006	0.1	0.0035	0.0000	OK
8640 minute summer	SWMBRE08	60	15.600	0.000	0.0	0.0000	0.0000	OK
8640 minute summer	SWMRE09	60	15.600	0.000	0.0	0.0000	0.0000	OK
8640 minute summer	SWMBRE10	60	15.295	0.000	0.0	0.0000	0.0000	OK
8640 minute summer	SWMBIC15	60	15.185	0.000	0.0	0.0000	0.0000	OK
8640 minute summer	TANK	4440	14.734	0.034	2.1	8.7123	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
8640 minute summer	SWMBRE04	6.000	SWMBIC08	0.0	0.000	0.000	0.0000	
8640 minute summer	SWMBIC08	6.001	SWMBIC09	0.2	0.343	0.003	0.0105	
8640 minute summer	SWMBIC09	1.004	TANK	1.4	0.366	0.020	0.0295	
8640 minute summer	SWMBRE03	5.000	SWMBIC06	0.0	0.000	0.000	0.0024	
8640 minute summer	SWMBIC06	4.002	SWMBIC07	0.2	0.324	0.012	0.0112	
8640 minute summer	SWMBIC07	1.003	SWMBIC09	1.0	0.352	0.011	0.0634	
8640 minute summer	SWMBRE02	4.000	SWMBIC05	0.0	0.000	0.000	0.0015	
8640 minute summer	SWMBIC05	4.001	SWMBIC06	0.1	0.204	0.006	0.0159	
8640 minute summer	SWMBRE01	2.000	SWMBIC01	0.0	0.000	0.000	0.0000	
8640 minute summer	SWMBIC01	2.001	SWMBIC02	0.0	0.000	0.000	0.0000	
8640 minute summer	SWMBIC02	2.002	SWMBIC03	0.0	0.000	0.000	0.0000	
8640 minute summer	SWMBIC03	1.001	SWMBIC04	0.4	0.282	0.005	0.0288	
8640 minute summer	SWMBRE05	1.000	SWMBIC03	0.1	0.252	0.002	0.0192	
8640 minute summer	SWMBIC04	1.002	SWMBIC07	0.6	0.352	0.005	0.0732	
8640 minute summer	SWMBIC10	9.000	SWMBIC12	0.2	0.263	0.003	0.0136	
8640 minute summer	SWMBIC12	7.002	SWMBIC14	0.3	0.223	0.007	0.0347	
8640 minute summer	SWMBRE06	7.000	SWMBIC11	0.0	0.000	0.000	0.0025	
8640 minute summer	SWMBIC11	7.001	SWMBIC12	0.1	0.298	0.005	0.0044	
8640 minute summer	SWMBIC14	7.003	TANK	0.7	0.396	0.017	0.0119	
8640 minute summer	SWMBIC13	10.001	SWMBIC14	0.1	0.436	0.003	0.0030	
8640 minute summer	SWMBRE08	11.000	SWMBIC13	0.0	0.000	0.000	0.0004	
8640 minute summer	SWMRE09	10.000	SWMBIC13	0.0	0.000	0.000	0.0009	
8640 minute summer	SWMBRE10	12.000	SWMBIC15	0.0	0.000	0.000	0.0000	
8640 minute summer	SWMBIC15	12.001	SWMBIC14	0.0	0.000	0.000	0.0000	
8640 minute summer	TANK	1.005	SWMBIC17	2.1	0.489	0.021	0.0123	

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Results for 30 year 8640 minute summer. 8880 minute analysis at 60 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
8640 minute summer	SWMBMN01	4440	14.721	0.151	2.3	0.2496	0.0000	SURCHARGED
8640 minute summer	SW911	4440	13.641	0.022	2.3	0.0000	0.0000	OK
8640 minute summer	SWMBRE07	60	15.600	0.000	0.0	0.0000	0.0000	OK
8640 minute summer	SWMBIC16	60	15.485	0.000	0.0	0.0000	0.0000	OK
8640 minute summer	SWMBIC17	4440	14.721	0.041	2.1	0.0116	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
8640 minute summer	SWMBMN01	1.007	SW911	2.3	1.451	0.044	0.0181	201.3
8640 minute summer	SWMBRE07	8.000	SWMBIC11	0.0	0.000	0.000	0.0021	
8640 minute summer	SWMBIC16	3.000	SWMBIC04	0.0	0.000	0.000	0.0000	
8640 minute summer	SWMBIC17	1.006	SWMBMN01	2.1	0.147	0.026	0.4465	

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Results for 30 year 10080 minute summer. 10320 minute analysis at 60 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
10080 minute summer	SWMBRE04	60	15.350	0.000	0.0	0.0000	0.0000	OK
10080 minute summer	SWMBIC08	3960	15.037	0.007	0.1	0.0057	0.0000	OK
10080 minute summer	SWMBIC09	4980	14.759	0.029	1.3	0.0209	0.0000	OK
10080 minute summer	SWMBRE03	60	15.550	0.000	0.0	0.0000	0.0000	OK
10080 minute summer	SWMBIC06	5040	15.192	0.012	0.2	0.0075	0.0000	OK
10080 minute summer	SWMBIC07	5040	14.887	0.022	1.0	0.0173	0.0000	OK
10080 minute summer	SWMBRE02	60	15.550	0.000	0.0	0.0000	0.0000	OK
10080 minute summer	SWMBIC05	5040	15.483	0.008	0.1	0.0038	0.0000	OK
10080 minute summer	SWMBRE01	60	15.700	0.000	0.0	0.0000	0.0000	OK
10080 minute summer	SWMBIC01	60	15.650	0.000	0.0	0.0000	0.0000	OK
10080 minute summer	SWMBIC02	60	15.600	0.000	0.0	0.0000	0.0000	OK
10080 minute summer	SWMBIC03	4980	15.376	0.016	0.4	0.0234	0.0000	OK
10080 minute summer	SWMBRE05	4320	15.764	0.009	0.1	0.0072	0.0000	OK
10080 minute summer	SWMBIC04	4980	15.286	0.016	0.6	0.0147	0.0000	OK
10080 minute summer	SWMBIC10	5040	15.375	0.010	0.2	0.0101	0.0000	OK
10080 minute summer	SWMBIC12	5040	15.153	0.013	0.3	0.0038	0.0000	OK
10080 minute summer	SWMBRE06	60	15.550	0.000	0.0	0.0000	0.0000	OK
10080 minute summer	SWMBIC11	4680	15.398	0.008	0.1	0.0036	0.0000	OK
10080 minute summer	SWMBIC14	5040	14.976	0.021	0.7	0.0231	0.0000	OK
10080 minute summer	SWMBIC13	4680	15.541	0.006	0.1	0.0035	0.0000	OK
10080 minute summer	SWMBRE08	60	15.600	0.000	0.0	0.0000	0.0000	OK
10080 minute summer	SWMRE09	60	15.600	0.000	0.0	0.0000	0.0000	OK
10080 minute summer	SWMBRE10	60	15.295	0.000	0.0	0.0000	0.0000	OK
10080 minute summer	SWMBIC15	60	15.185	0.000	0.0	0.0000	0.0000	OK
10080 minute summer	TANK	5160	14.732	0.032	2.0	8.3442	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
10080 minute summer	SWMBRE04	6.000	SWMBIC08	0.0	0.000	0.000	0.0000	
10080 minute summer	SWMBIC08	6.001	SWMBIC09	0.1	0.291	0.002	0.0062	
10080 minute summer	SWMBIC09	1.004	TANK	1.3	0.367	0.019	0.0278	
10080 minute summer	SWMBRE03	5.000	SWMBIC06	0.0	0.000	0.000	0.0024	
10080 minute summer	SWMBIC06	4.002	SWMBIC07	0.2	0.324	0.012	0.0112	
10080 minute summer	SWMBIC07	1.003	SWMBIC09	1.0	0.350	0.011	0.0613	
10080 minute summer	SWMBRE02	4.000	SWMBIC05	0.0	0.000	0.000	0.0015	
10080 minute summer	SWMBIC05	4.001	SWMBIC06	0.1	0.204	0.006	0.0159	
10080 minute summer	SWMBRE01	2.000	SWMBIC01	0.0	0.000	0.000	0.0000	
10080 minute summer	SWMBIC01	2.001	SWMBIC02	0.0	0.000	0.000	0.0000	
10080 minute summer	SWMBIC02	2.002	SWMBIC03	0.0	0.000	0.000	0.0000	
10080 minute summer	SWMBIC03	1.001	SWMBIC04	0.4	0.282	0.005	0.0288	
10080 minute summer	SWMBRE05	1.000	SWMBIC03	0.1	0.252	0.002	0.0192	
10080 minute summer	SWMBIC04	1.002	SWMBIC07	0.6	0.351	0.005	0.0732	
10080 minute summer	SWMBIC10	9.000	SWMBIC12	0.2	0.263	0.003	0.0136	
10080 minute summer	SWMBIC12	7.002	SWMBIC14	0.3	0.223	0.007	0.0347	
10080 minute summer	SWMBRE06	7.000	SWMBIC11	0.0	0.000	0.000	0.0025	
10080 minute summer	SWMBIC11	7.001	SWMBIC12	0.1	0.298	0.005	0.0044	
10080 minute summer	SWMBIC14	7.003	TANK	0.7	0.396	0.017	0.0119	
10080 minute summer	SWMBIC13	10.001	SWMBIC14	0.1	0.436	0.003	0.0030	
10080 minute summer	SWMBRE08	11.000	SWMBIC13	0.0	0.000	0.000	0.0004	
10080 minute summer	SWMRE09	10.000	SWMBIC13	0.0	0.000	0.000	0.0009	
10080 minute summer	SWMBRE10	12.000	SWMBIC15	0.0	0.000	0.000	0.0000	
10080 minute summer	SWMBIC15	12.001	SWMBIC14	0.0	0.000	0.000	0.0000	
10080 minute summer	TANK	1.005	SWMBIC17	2.0	0.490	0.020	0.0100	

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Results for 30 year 10080 minute summer. 10320 minute analysis at 60 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
10080 minute summer	SWMBMN01	5160	14.702	0.132	2.2	0.2176	0.0000	OK
10080 minute summer	SW911	5160	13.640	0.021	2.2	0.0000	0.0000	OK
10080 minute summer	SWMBRE07	60	15.600	0.000	0.0	0.0000	0.0000	OK
10080 minute summer	SWMBIC16	60	15.485	0.000	0.0	0.0000	0.0000	OK
10080 minute summer	SWMBIC17	5160	14.713	0.033	2.0	0.0093	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
10080 minute summer	SWMBMN01	1.007	SW911	2.2	1.435	0.043	0.0176	201.4
10080 minute summer	SWMBRE07	8.000	SWMBIC11	0.0	0.000	0.000	0.0021	
10080 minute summer	SWMBIC16	3.000	SWMBIC04	0.0	0.000	0.000	0.0000	
10080 minute summer	SWMBIC17	1.006	SWMBMN01	2.0	0.148	0.025	0.3661	

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Results for 100 year +40% CC 5760 minute summer. 6000 minute analysis at 60 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
5760 minute summer	SWMBRE04	60	15.350	0.000	0.0	0.0000	0.0000	OK
5760 minute summer	SWMBIC08	2940	15.043	0.013	0.4	0.0105	0.0000	OK
5760 minute summer	SWMBIC09	3420	15.027	0.297	3.3	0.2141	0.0000	OK
5760 minute summer	SWMBRE03	60	15.550	0.000	0.0	0.0000	0.0000	OK
5760 minute summer	SWMBIC06	2760	15.196	0.016	0.4	0.0104	0.0000	OK
5760 minute summer	SWMBIC07	3420	15.027	0.162	2.5	0.1249	0.0000	OK
5760 minute summer	SWMBRE02	2760	15.558	0.008	0.1	0.0028	0.0000	OK
5760 minute summer	SWMBIC05	2760	15.486	0.011	0.2	0.0052	0.0000	OK
5760 minute summer	SWMBRE01	2940	15.709	0.009	0.1	0.0026	0.0000	OK
5760 minute summer	SWMBIC01	2940	15.662	0.012	0.2	0.0034	0.0000	OK
5760 minute summer	SWMBIC02	2940	15.612	0.012	0.2	0.0019	0.0000	OK
5760 minute summer	SWMBIC03	2940	15.387	0.027	1.2	0.0393	0.0000	OK
5760 minute summer	SWMBRE05	2940	15.769	0.014	0.3	0.0115	0.0000	OK
5760 minute summer	SWMBIC04	2940	15.296	0.026	1.7	0.0239	0.0000	OK
5760 minute summer	SWMBIC10	2880	15.378	0.013	0.4	0.0138	0.0000	OK
5760 minute summer	SWMBIC12	2880	15.158	0.018	0.6	0.0052	0.0000	OK
5760 minute summer	SWMBRE06	60	15.550	0.000	0.0	0.0000	0.0000	OK
5760 minute summer	SWMBIC11	2820	15.401	0.011	0.2	0.0051	0.0000	OK
5760 minute summer	SWMBIC14	3420	15.027	0.072	1.6	0.0801	0.0000	OK
5760 minute summer	SWMBIC13	2820	15.543	0.008	0.2	0.0048	0.0000	OK
5760 minute summer	SWMBRE08	60	15.600	0.000	0.0	0.0000	0.0000	OK
5760 minute summer	SWMRE09	60	15.600	0.000	0.0	0.0000	0.0000	OK
5760 minute summer	SWMBRE10	2640	15.302	0.007	0.1	0.0011	0.0000	OK
5760 minute summer	SWMBIC15	2640	15.193	0.008	0.1	0.0013	0.0000	OK
5760 minute summer	TANK	3420	15.026	0.326	4.8	84.7365	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
5760 minute summer	SWMBRE04	6.000	SWMBIC08	0.0	0.000	0.000	0.0000	
5760 minute summer	SWMBIC08	6.001	SWMBIC09	0.4	0.384	0.007	0.3611	
5760 minute summer	SWMBIC09	1.004	TANK	3.2	0.370	0.046	0.5276	
5760 minute summer	SWMBRE03	5.000	SWMBIC06	0.0	0.000	0.000	0.0038	
5760 minute summer	SWMBIC06	4.002	SWMBIC07	0.4	0.399	0.024	0.0181	
5760 minute summer	SWMBIC07	1.003	SWMBIC09	2.5	0.395	0.028	1.1528	
5760 minute summer	SWMBRE02	4.000	SWMBIC05	0.1	0.207	0.006	0.0038	
5760 minute summer	SWMBIC05	4.001	SWMBIC06	0.2	0.249	0.012	0.0258	
5760 minute summer	SWMBRE01	2.000	SWMBIC01	0.1	0.192	0.006	0.0032	
5760 minute summer	SWMBIC01	2.001	SWMBIC02	0.2	0.303	0.013	0.0043	
5760 minute summer	SWMBIC02	2.002	SWMBIC03	0.2	0.308	0.013	0.0074	
5760 minute summer	SWMBIC03	1.001	SWMBIC04	1.2	0.402	0.016	0.0608	
5760 minute summer	SWMBRE05	1.000	SWMBIC03	0.3	0.315	0.007	0.0460	
5760 minute summer	SWMBIC04	1.002	SWMBIC07	1.7	0.464	0.015	0.7789	
5760 minute summer	SWMBIC10	9.000	SWMBIC12	0.4	0.328	0.007	0.0221	
5760 minute summer	SWMBIC12	7.002	SWMBIC14	0.6	0.265	0.014	0.1492	
5760 minute summer	SWMBRE06	7.000	SWMBIC11	0.0	0.000	0.000	0.0041	
5760 minute summer	SWMBIC11	7.001	SWMBIC12	0.2	0.368	0.010	0.0072	
5760 minute summer	SWMBIC14	7.003	TANK	1.6	0.504	0.038	0.1065	
5760 minute summer	SWMBIC13	10.001	SWMBIC14	0.2	0.531	0.006	0.0050	
5760 minute summer	SWMBRE08	11.000	SWMBIC13	0.0	0.000	0.000	0.0007	
5760 minute summer	SWMRE09	10.000	SWMBIC13	0.0	0.000	0.000	0.0014	
5760 minute summer	SWMBRE10	12.000	SWMBIC15	0.1	0.316	0.004	0.0014	
5760 minute summer	SWMBIC15	12.001	SWMBIC14	0.1	0.273	0.006	0.0055	
5760 minute summer	TANK	1.005	SWMBIC17	5.1	0.488	0.050	0.1723	

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Results for 100 year +40% CC 5760 minute summer. 6000 minute analysis at 60 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
5760 minute summer	SWMBMN01	3420	15.028	0.458	3.2	0.7570	0.0000	SURCHARGED
5760 minute summer	SW911	2880	13.642	0.023	2.5	0.0000	0.0000	OK
5760 minute summer	SWMBRE07	60	15.600	0.000	0.0	0.0000	0.0000	OK
5760 minute summer	SWMBIC16	60	15.485	0.000	0.0	0.0000	0.0000	OK
5760 minute summer	SWMBIC17	3420	15.027	0.347	5.1	0.0983	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
5760 minute summer	SWMBMN01	1.007	SW911	2.5	1.491	0.049	0.0193	425.6
5760 minute summer	SWMBRE07	8.000	SWMBIC11	0.0	0.000	0.000	0.0034	
5760 minute summer	SWMBIC16	3.000	SWMBIC04	0.0	0.000	0.000	0.0000	
5760 minute summer	SWMBIC17	1.006	SWMBMN01	3.1	0.147	0.039	1.5233	

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Results for 100 year +40% CC 7200 minute summer. 7440 minute analysis at 60 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
7200 minute summer	SWMBRE04	60	15.350	0.000	0.0	0.0000	0.0000	OK
7200 minute summer	SWMBIC08	3480	15.042	0.012	0.3	0.0092	0.0000	OK
7200 minute summer	SWMBIC09	4080	14.930	0.200	2.7	0.1445	0.0000	OK
7200 minute summer	SWMBRE03	60	15.550	0.000	0.0	0.0000	0.0000	OK
7200 minute summer	SWMBIC06	3600	15.196	0.016	0.4	0.0104	0.0000	OK
7200 minute summer	SWMBIC07	4080	14.930	0.065	2.0	0.0504	0.0000	OK
7200 minute summer	SWMBRE02	3600	15.558	0.008	0.1	0.0028	0.0000	OK
7200 minute summer	SWMBIC05	3600	15.486	0.011	0.2	0.0052	0.0000	OK
7200 minute summer	SWMBRE01	60	15.700	0.000	0.0	0.0000	0.0000	OK
7200 minute summer	SWMBIC01	60	15.650	0.000	0.0	0.0000	0.0000	OK
7200 minute summer	SWMBIC02	60	15.600	0.000	0.0	0.0000	0.0000	OK
7200 minute summer	SWMBIC03	3600	15.382	0.022	0.8	0.0323	0.0000	OK
7200 minute summer	SWMBRE05	3360	15.766	0.011	0.2	0.0095	0.0000	OK
7200 minute summer	SWMBIC04	3600	15.292	0.022	1.2	0.0203	0.0000	OK
7200 minute summer	SWMBIC10	3420	15.377	0.012	0.3	0.0121	0.0000	OK
7200 minute summer	SWMBIC12	3660	15.157	0.017	0.5	0.0048	0.0000	OK
7200 minute summer	SWMBRE06	60	15.550	0.000	0.0	0.0000	0.0000	OK
7200 minute summer	SWMBIC11	3660	15.401	0.011	0.2	0.0051	0.0000	OK
7200 minute summer	SWMBIC14	3660	14.984	0.029	1.4	0.0323	0.0000	OK
7200 minute summer	SWMBIC13	3660	15.543	0.008	0.2	0.0048	0.0000	OK
7200 minute summer	SWMBRE08	60	15.600	0.000	0.0	0.0000	0.0000	OK
7200 minute summer	SWMRE09	60	15.600	0.000	0.0	0.0000	0.0000	OK
7200 minute summer	SWMBRE10	3420	15.302	0.007	0.1	0.0011	0.0000	OK
7200 minute summer	SWMBIC15	3420	15.193	0.008	0.1	0.0013	0.0000	OK
7200 minute summer	TANK	4080	14.930	0.230	4.1	59.7238	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
7200 minute summer	SWMBRE04	6.000	SWMBIC08	0.0	0.000	0.000	0.0000	
7200 minute summer	SWMBIC08	6.001	SWMBIC09	0.3	0.384	0.005	0.2089	
7200 minute summer	SWMBIC09	1.004	TANK	2.7	0.367	0.038	0.4047	
7200 minute summer	SWMBRE03	5.000	SWMBIC06	0.0	0.000	0.000	0.0038	
7200 minute summer	SWMBIC06	4.002	SWMBIC07	0.4	0.399	0.024	0.0181	
7200 minute summer	SWMBIC07	1.003	SWMBIC09	2.0	0.395	0.023	0.6473	
7200 minute summer	SWMBRE02	4.000	SWMBIC05	0.1	0.207	0.006	0.0038	
7200 minute summer	SWMBIC05	4.001	SWMBIC06	0.2	0.249	0.012	0.0258	
7200 minute summer	SWMBRE01	2.000	SWMBIC01	0.0	0.000	0.000	0.0000	
7200 minute summer	SWMBIC01	2.001	SWMBIC02	0.0	0.000	0.000	0.0000	
7200 minute summer	SWMBIC02	2.002	SWMBIC03	0.0	0.000	0.000	0.0000	
7200 minute summer	SWMBIC03	1.001	SWMBIC04	0.8	0.348	0.011	0.0467	
7200 minute summer	SWMBRE05	1.000	SWMBIC03	0.2	0.278	0.005	0.0348	
7200 minute summer	SWMBIC04	1.002	SWMBIC07	1.2	0.409	0.011	0.2490	
7200 minute summer	SWMBIC10	9.000	SWMBIC12	0.3	0.313	0.005	0.0189	
7200 minute summer	SWMBIC12	7.002	SWMBIC14	0.5	0.238	0.011	0.0544	
7200 minute summer	SWMBRE06	7.000	SWMBIC11	0.0	0.000	0.000	0.0041	
7200 minute summer	SWMBIC11	7.001	SWMBIC12	0.2	0.368	0.010	0.0072	
7200 minute summer	SWMBIC14	7.003	TANK	1.4	0.485	0.033	0.0195	
7200 minute summer	SWMBIC13	10.001	SWMBIC14	0.2	0.531	0.006	0.0050	
7200 minute summer	SWMBRE08	11.000	SWMBIC13	0.0	0.000	0.000	0.0007	
7200 minute summer	SWMRE09	10.000	SWMBIC13	0.0	0.000	0.000	0.0014	
7200 minute summer	SWMBRE10	12.000	SWMBIC15	0.1	0.316	0.004	0.0014	
7200 minute summer	SWMBIC15	12.001	SWMBIC14	0.1	0.273	0.006	0.0055	
7200 minute summer	TANK	1.005	SWMBIC17	2.4	0.490	0.024	0.1477	

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Results for 100 year +40% CC 7200 minute summer. 7440 minute analysis at 60 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
7200 minute summer	SWMBMN01	4080	14.930	0.360	2.6	0.5954	0.0000	SURCHARGED
7200 minute summer	SW911	4560	13.642	0.023	2.5	0.0000	0.0000	OK
7200 minute summer	SWMBRE07	60	15.600	0.000	0.0	0.0000	0.0000	OK
7200 minute summer	SWMBIC16	60	15.485	0.000	0.0	0.0000	0.0000	OK
7200 minute summer	SWMBIC17	4080	14.930	0.250	2.4	0.0708	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
7200 minute summer	SWMBMN01	1.007	SW911	2.5	1.491	0.049	0.0193	421.1
7200 minute summer	SWMBRE07	8.000	SWMBIC11	0.0	0.000	0.000	0.0034	
7200 minute summer	SWMBIC16	3.000	SWMBIC04	0.0	0.000	0.000	0.0000	
7200 minute summer	SWMBIC17	1.006	SWMBMN01	2.4	0.148	0.030	1.4404	

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Results for 100 year +40% CC 8640 minute summer. 8880 minute analysis at 60 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
8640 minute summer	SWMBRE04	60	15.350	0.000	0.0	0.0000	0.0000	OK
8640 minute summer	SWMBIC08	4320	15.042	0.012	0.3	0.0092	0.0000	OK
8640 minute summer	SWMBIC09	4740	14.853	0.123	2.1	0.0890	0.0000	OK
8640 minute summer	SWMBRE03	60	15.550	0.000	0.0	0.0000	0.0000	OK
8640 minute summer	SWMBIC06	3780	15.192	0.012	0.2	0.0075	0.0000	OK
8640 minute summer	SWMBIC07	4260	14.892	0.027	1.5	0.0209	0.0000	OK
8640 minute summer	SWMBRE02	60	15.550	0.000	0.0	0.0000	0.0000	OK
8640 minute summer	SWMBIC05	3780	15.483	0.008	0.1	0.0038	0.0000	OK
8640 minute summer	SWMBRE01	60	15.700	0.000	0.0	0.0000	0.0000	OK
8640 minute summer	SWMBIC01	60	15.650	0.000	0.0	0.0000	0.0000	OK
8640 minute summer	SWMBIC02	60	15.600	0.000	0.0	0.0000	0.0000	OK
8640 minute summer	SWMBIC03	4260	15.381	0.021	0.7	0.0306	0.0000	OK
8640 minute summer	SWMBRE05	4140	15.766	0.011	0.2	0.0095	0.0000	OK
8640 minute summer	SWMBIC04	4260	15.290	0.020	1.0	0.0188	0.0000	OK
8640 minute summer	SWMBIC10	4260	15.377	0.012	0.3	0.0121	0.0000	OK
8640 minute summer	SWMBIC12	4260	15.155	0.015	0.4	0.0043	0.0000	OK
8640 minute summer	SWMBRE06	60	15.550	0.000	0.0	0.0000	0.0000	OK
8640 minute summer	SWMBIC11	3480	15.398	0.008	0.1	0.0036	0.0000	OK
8640 minute summer	SWMBIC14	4320	14.981	0.026	1.1	0.0287	0.0000	OK
8640 minute summer	SWMBIC13	3480	15.541	0.006	0.1	0.0035	0.0000	OK
8640 minute summer	SWMBRE08	60	15.600	0.000	0.0	0.0000	0.0000	OK
8640 minute summer	SWMRE09	60	15.600	0.000	0.0	0.0000	0.0000	OK
8640 minute summer	SWMBRE10	4260	15.302	0.007	0.1	0.0011	0.0000	OK
8640 minute summer	SWMBIC15	4260	15.193	0.008	0.1	0.0013	0.0000	OK
8640 minute summer	TANK	4740	14.853	0.153	3.2	39.7564	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
8640 minute summer	SWMBRE04	6.000	SWMBIC08	0.0	0.000	0.000	0.0000	
8640 minute summer	SWMBIC08	6.001	SWMBIC09	0.3	0.384	0.005	0.0611	
8640 minute summer	SWMBIC09	1.004	TANK	2.1	0.365	0.030	0.2378	
8640 minute summer	SWMBRE03	5.000	SWMBIC06	0.0	0.000	0.000	0.0024	
8640 minute summer	SWMBIC06	4.002	SWMBIC07	0.2	0.324	0.012	0.0112	
8640 minute summer	SWMBIC07	1.003	SWMBIC09	1.5	0.392	0.017	0.3151	
8640 minute summer	SWMBRE02	4.000	SWMBIC05	0.0	0.000	0.000	0.0015	
8640 minute summer	SWMBIC05	4.001	SWMBIC06	0.1	0.204	0.006	0.0159	
8640 minute summer	SWMBRE01	2.000	SWMBIC01	0.0	0.000	0.000	0.0000	
8640 minute summer	SWMBIC01	2.001	SWMBIC02	0.0	0.000	0.000	0.0000	
8640 minute summer	SWMBIC02	2.002	SWMBIC03	0.0	0.000	0.000	0.0000	
8640 minute summer	SWMBIC03	1.001	SWMBIC04	0.7	0.338	0.009	0.0420	
8640 minute summer	SWMBRE05	1.000	SWMBIC03	0.2	0.278	0.005	0.0348	
8640 minute summer	SWMBIC04	1.002	SWMBIC07	1.0	0.392	0.009	0.0994	
8640 minute summer	SWMBIC10	9.000	SWMBIC12	0.3	0.313	0.005	0.0172	
8640 minute summer	SWMBIC12	7.002	SWMBIC14	0.4	0.235	0.009	0.0460	
8640 minute summer	SWMBRE06	7.000	SWMBIC11	0.0	0.000	0.000	0.0025	
8640 minute summer	SWMBIC11	7.001	SWMBIC12	0.1	0.298	0.005	0.0044	
8640 minute summer	SWMBIC14	7.003	TANK	1.1	0.452	0.026	0.0164	
8640 minute summer	SWMBIC13	10.001	SWMBIC14	0.1	0.436	0.003	0.0030	
8640 minute summer	SWMBRE08	11.000	SWMBIC13	0.0	0.000	0.000	0.0004	
8640 minute summer	SWMRE09	10.000	SWMBIC13	0.0	0.000	0.000	0.0009	
8640 minute summer	SWMBRE10	12.000	SWMBIC15	0.1	0.316	0.004	0.0014	
8640 minute summer	SWMBIC15	12.001	SWMBIC14	0.1	0.273	0.006	0.0055	
8640 minute summer	TANK	1.005	SWMBIC17	2.6	0.491	0.026	0.0958	

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Results for 100 year +40% CC 8640 minute summer. 8880 minute analysis at 60 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
8640 minute summer	SWMBMN01	4740	14.853	0.283	2.7	0.4682	0.0000	SURCHARGED
8640 minute summer	SW911	4740	13.642	0.023	2.5	0.0000	0.0000	OK
8640 minute summer	SWMBRE07	60	15.600	0.000	0.0	0.0000	0.0000	OK
8640 minute summer	SWMBIC16	60	15.485	0.000	0.0	0.0000	0.0000	OK
8640 minute summer	SWMBIC17	4740	14.853	0.173	2.6	0.0490	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
8640 minute summer	SWMBMN01	1.007	SW911	2.5	1.491	0.049	0.0192	408.1
8640 minute summer	SWMBRE07	8.000	SWMBIC11	0.0	0.000	0.000	0.0021	
8640 minute summer	SWMBIC16	3.000	SWMBIC04	0.0	0.000	0.000	0.0000	
8640 minute summer	SWMBIC17	1.006	SWMBMN01	2.4	0.148	0.031	1.2004	

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Results for 100 year +40% CC 10080 minute summer. 10320 minute analysis at 60 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
10080 minute summer	SWMBRE04	60	15.350	0.000	0.0	0.0000	0.0000	OK
10080 minute summer	SWMBIC08	4560	15.040	0.010	0.2	0.0077	0.0000	OK
10080 minute summer	SWMBIC09	5460	14.812	0.082	2.0	0.0589	0.0000	OK
10080 minute summer	SWMBRE03	60	15.550	0.000	0.0	0.0000	0.0000	OK
10080 minute summer	SWMBIC06	4500	15.192	0.012	0.2	0.0075	0.0000	OK
10080 minute summer	SWMBIC07	5040	14.892	0.027	1.5	0.0209	0.0000	OK
10080 minute summer	SWMBRE02	60	15.550	0.000	0.0	0.0000	0.0000	OK
10080 minute summer	SWMBIC05	4500	15.483	0.008	0.1	0.0038	0.0000	OK
10080 minute summer	SWMBRE01	60	15.700	0.000	0.0	0.0000	0.0000	OK
10080 minute summer	SWMBIC01	60	15.650	0.000	0.0	0.0000	0.0000	OK
10080 minute summer	SWMBIC02	60	15.600	0.000	0.0	0.0000	0.0000	OK
10080 minute summer	SWMBIC03	5040	15.381	0.021	0.7	0.0306	0.0000	OK
10080 minute summer	SWMBRE05	4920	15.766	0.011	0.2	0.0095	0.0000	OK
10080 minute summer	SWMBIC04	5040	15.290	0.020	1.0	0.0188	0.0000	OK
10080 minute summer	SWMBIC10	5040	15.377	0.012	0.3	0.0121	0.0000	OK
10080 minute summer	SWMBIC12	5040	15.155	0.015	0.4	0.0043	0.0000	OK
10080 minute summer	SWMBRE06	60	15.550	0.000	0.0	0.0000	0.0000	OK
10080 minute summer	SWMBIC11	4140	15.398	0.008	0.1	0.0036	0.0000	OK
10080 minute summer	SWMBIC14	5040	14.980	0.025	1.0	0.0275	0.0000	OK
10080 minute summer	SWMBIC13	4140	15.541	0.006	0.1	0.0035	0.0000	OK
10080 minute summer	SWMBRE08	60	15.600	0.000	0.0	0.0000	0.0000	OK
10080 minute summer	SWMRE09	60	15.600	0.000	0.0	0.0000	0.0000	OK
10080 minute summer	SWMBRE10	5040	15.302	0.007	0.1	0.0011	0.0000	OK
10080 minute summer	SWMBIC15	5040	15.193	0.008	0.1	0.0013	0.0000	OK
10080 minute summer	TANK	5460	14.811	0.111	3.0	28.9344	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
10080 minute summer	SWMBRE04	6.000	SWMBIC08	0.0	0.000	0.000	0.0000	
10080 minute summer	SWMBIC08	6.001	SWMBIC09	0.2	0.343	0.003	0.0105	
10080 minute summer	SWMBIC09	1.004	TANK	2.0	0.365	0.028	0.1474	
10080 minute summer	SWMBRE03	5.000	SWMBIC06	0.0	0.000	0.000	0.0024	
10080 minute summer	SWMBIC06	4.002	SWMBIC07	0.2	0.324	0.012	0.0112	
10080 minute summer	SWMBIC07	1.003	SWMBIC09	1.5	0.395	0.017	0.1906	
10080 minute summer	SWMBRE02	4.000	SWMBIC05	0.0	0.000	0.000	0.0015	
10080 minute summer	SWMBIC05	4.001	SWMBIC06	0.1	0.204	0.006	0.0159	
10080 minute summer	SWMBRE01	2.000	SWMBIC01	0.0	0.000	0.000	0.0000	
10080 minute summer	SWMBIC01	2.001	SWMBIC02	0.0	0.000	0.000	0.0000	
10080 minute summer	SWMBIC02	2.002	SWMBIC03	0.0	0.000	0.000	0.0000	
10080 minute summer	SWMBIC03	1.001	SWMBIC04	0.7	0.338	0.009	0.0420	
10080 minute summer	SWMBRE05	1.000	SWMBIC03	0.2	0.278	0.005	0.0348	
10080 minute summer	SWMBIC04	1.002	SWMBIC07	1.0	0.392	0.009	0.0994	
10080 minute summer	SWMBIC10	9.000	SWMBIC12	0.3	0.313	0.005	0.0172	
10080 minute summer	SWMBIC12	7.002	SWMBIC14	0.4	0.235	0.009	0.0439	
10080 minute summer	SWMBRE06	7.000	SWMBIC11	0.0	0.000	0.000	0.0025	
10080 minute summer	SWMBIC11	7.001	SWMBIC12	0.1	0.298	0.005	0.0044	
10080 minute summer	SWMBIC14	7.003	TANK	1.0	0.439	0.024	0.0154	
10080 minute summer	SWMBIC13	10.001	SWMBIC14	0.1	0.436	0.003	0.0030	
10080 minute summer	SWMBRE08	11.000	SWMBIC13	0.0	0.000	0.000	0.0004	
10080 minute summer	SWMRE09	10.000	SWMBIC13	0.0	0.000	0.000	0.0009	
10080 minute summer	SWMBRE10	12.000	SWMBIC15	0.1	0.316	0.004	0.0014	
10080 minute summer	SWMBIC15	12.001	SWMBIC14	0.1	0.273	0.006	0.0055	
10080 minute summer	TANK	1.005	SWMBIC17	2.7	0.491	0.027	0.0654	

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Results for 100 year +40% CC 10080 minute summer. 10320 minute analysis at 60 minute timestep. Mass balance: 100.00%

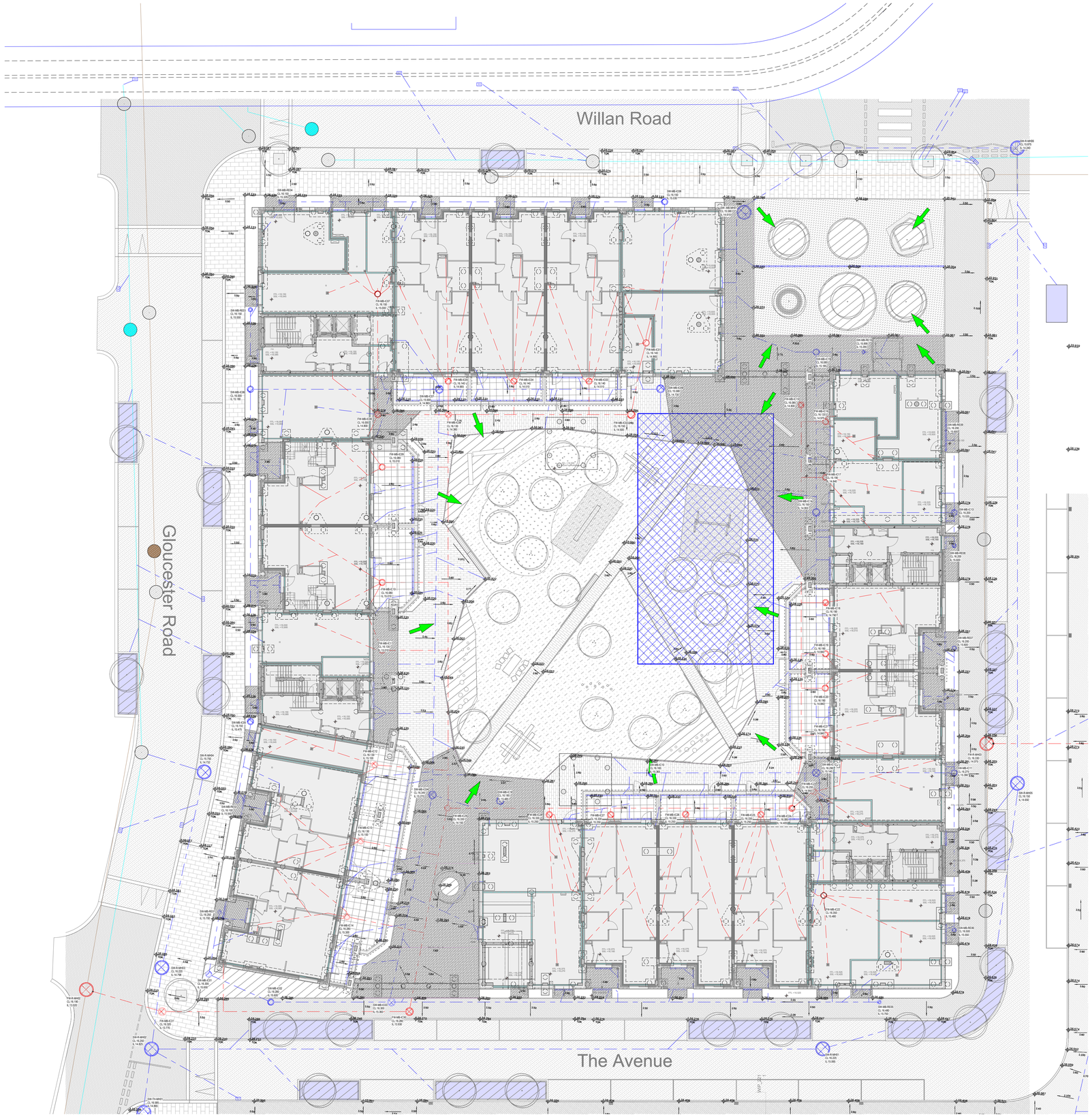
Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
10080 minute summer	SWMBMN01	5460	14.811	0.241	2.5	0.3991	0.0000	SURCHARGED
10080 minute summer	SW911	5460	13.641	0.022	2.5	0.0000	0.0000	OK
10080 minute summer	SWMBRE07	60	15.600	0.000	0.0	0.0000	0.0000	OK
10080 minute summer	SWMBIC16	60	15.485	0.000	0.0	0.0000	0.0000	OK
10080 minute summer	SWMBIC17	5460	14.811	0.131	2.7	0.0372	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
10080 minute summer	SWMBMN01	1.007	SW911	2.5	1.487	0.048	0.0191	407.4
10080 minute summer	SWMBRE07	8.000	SWMBIC11	0.0	0.000	0.000	0.0021	
10080 minute summer	SWMBIC16	3.000	SWMBIC04	0.0	0.000	0.000	0.0000	
10080 minute summer	SWMBIC17	1.006	SWMBMN01	2.3	0.148	0.029	0.9777	

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Appendix H

MWP – Exceedance Plan



Exceedance Plan Block A and B.

SCALE 1 : 200

DO NOT SCALE FROM THIS DRAWING. USE FIGURED DIMENSIONS IN ALL CASES. VERIFY DIMENSIONS ON SITE AND REPORT ANY DISCREPANCIES TO THE DESIGNERS IMMEDIATELY.
THIS DRAWING TO BE READ IN CONJUNCTION WITH THE DESIGNERS SPECIFICATION.
© THIS DRAWING IS COPYRIGHT AND MAY ONLY BE REPRODUCED WITH THE DESIGNERS PERMISSION.

1. ALL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH ALL RELEVANT SPECIFICATIONS, BILLS OF QUANTITIES, ARCHITECTURAL, SERVICES AND ENGINEERING DRAWINGS.
2. ANY DISCREPENCIES BETWEEN THESE DOCUMENTS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER.
3. ALL DIMENSIONS ARE IN MILLIMETRES, UNLESS NOTED OTHERWISE. TBC ON SITE
4. ALL LEVELS ARE IN METRES RELATED TO ORDNANCE DATUM. TBC ON SITE
5. DRAWINGS ARE NOT TO BE SCALED.
6. ALL TEMPORARY WORKS TO CONTRACTORS DETAILS.
7. CONTRACTOR TO APPROVE ALL SET OUT INFORMATION PRIOR TO CONSTRUCTION.

LEGEND

- BOUNDARY LINE
- FLOW ROUTE DIRECTION
- 16.408 PROPOSED GROUND LEVEL

REV	DATE	DESCRIPTION	BY	APP
C01	10.04.26	Issued for Construction	VH	RS
P01	30.03.26	Issued for Information	VH	RS

PROJECT:
Tangmere

TITLE:
Exceedance Plan Block A and B

CLIENT:
Formation D&B Ltd

MWP
ENGINEERING AND ENVIRONMENTAL CONSULTANTS
CORK | TRALEE | LONDON | LIMERICK
mwalsh.co.uk

DRAWN:	CHECKED:	APPROVED:
VH	DO	RS
PROJECT NUMBER: 26015	DATE: 23/03/26	SCALE @ A1: As indicated
STATUS DESCRIPTION: FOR CONSTRUCTION		STATUS: A
DRAWING NUMBER: TAN-MWP-XX-00-DR-CV-2301		REV: C01

Appendix I

MWP – Operation and Maintenance of SuDS Components

Operation and Maintenance of Pipes, Manholes & Gully's

Maintenance Period	Maintenance Task	Frequency
Regular Maintenance	Cleaning of gutters and filters on downpipes and bruising/sweeping of leaves debris that may cause blockages in gullies.	Annually
	Inspect for sediment and debris in pre-treatment components (i.e. catch pits and gully silt traps), and inside manhole rings.	An lly (or as required) nua
Occasional Maintenance	Remove sediment/debris from pre-treatment components (i.e. catchpits).	As required, based on regular inspections
Remedial Actions	Trimming of roots that may be causing blockage and patch repair of pipework that has cracked or deformed.	As required
	Repair/rehabilitate manhole and gully inlets and outlets.	As required
Monitoring	Inspect silt traps and note the rate of sediment accumulation	Monthly in 1st year, then annually
	Check to ensure gullies and manholes are emptying fully.	Annually

Operation and Maintenance of Attenuation Storage Tanks

Maintenance Period	Maintenance Task	Frequency
Regular Maintenance	Inspect and identify any areas that are not operating correctly. If required, take remedial action	Monthly for 3 months, then annually.
	Remove debris from the catchment surface (where it may cause risk to performance).	Monthly
	For systems where rainfall infiltrates into the tank from above, check the surface of the filter for blockage by sediment, algae or other matter; remove and replace the surface infiltration medium as necessary.	Annually
	Remove the sediment from the pre-treatment structure and/or internal forebays.	An lly, or as required nua
Remedial Work	Repair/rehabilitate inlets, outlets, and overflows to ensure that they are in good condition and operating as designed.	Annually
Monitoring	Inspect/check all inlets, outlets, vents and overflows to ensure that they are all in good condition and operating as designed.	Annually
	Survey the inside of the tank for sediment build-up and remove it if necessary.	Every 5 years or as required.

Operation and Maintenance of Flow Control Devices

Maintenance Period	Maintenance Task	Frequency
Before Start	Removal of any inappropriate material from within the chambers and disposal of off site	At start
Regular Maintenance	Removal of debris (which could include) leaves, rubbish, and branches from areas served by the drainage (where it may cause risk to performance).	Monthly or as required.
Remedial Work	For blockages resulting in flooded manhole chambers, drain down the manhole chamber and unblock.	As required.
Monitoring	Inspect the unit and hose it down if required	Monthly at the start for three months, then six monthly

Operation and Maintenance of Permeable Paving

Maintenance Period	Maintenance Task	Frequency
Regular Maintenace	Brushing and vacuuming (standard cosmetic sweep over the whole surface)	Once a year, after autumn leaf fall, or reduced frequency as required, based on site-specific observations of clogging or manufacturer's recommendations – pay particular attention to areas where water runs onto the pervious surface from adjacent impermeable areas as this area is most likely to collect the most sediment.
Occasional Maintenance	Stabilise and mow contributing adjacent areas	As required
	Removal of weeds or management using glyphosate applied directly into the weeds by an applicator rather than spraying	As required – once per year on less frequently used pavements
Remedial Actions	Remediate any landscaping which, through vegetation maintenance or soil slip, has been raised to within 50 mm of the level of the paving	As required
	Remedial work to any depressions, rattling and cracked or broken blocks considered detrimental to the structural performance or a hazard to users and replace lost jointing material	As required
	Rehabilitation of surface and upper substructure by remedial sweeping	Every 10 to 15 years or as required (if infiltration performance is reduced due to significant clogging)
Monitoring	Initial inspection	Monthly for three months after installation
	Inspect for evidence of poor operation and/or weed growth – if required, take remedial action	Three-monthly, 48 h after large stormes in the first six months
	Inspect silt accumulation rates and establish appropriate brushing frequencies	Annually
	Monitor inspection champers	Annually

Operation and Maintenance of Green Roofs

Maintenance Period	Maintenance Task	Frequency
Regular inspections	Inspect all components including soil substrate, vegetation, drains, irrigation systems (if applicable), membranes and roof structure for proper operation, the integrity of waterproofing and structural stability.	Annually and after severe storms
	Inspect soil substrate for evidence of erosion channels and identify any sediment sources.	Annually and after severe storms
	Inspect drain inlets to ensure unrestricted runoff from the drainage layer to the conveyance or roof drain system.	Annually and after severe storms
	Inspect the underside of the roof for evidence of leakage.	Annually and after severe storms
Regular Maintenace	Remove debris and litter to prevent clogging of inlet drains and interference with plant growth.	Six monthly and annually or as required
	During establishment (ie year one), replace dead plants as required.	Monthly (but usually the responsibility of the manufacturer)
	Post establishment, replace dead plants as required (where >5% of coverage).	Annually (in autumn)
	Remove fallen leaves and debris from deciduous plant foliage.	Six monthly or as required
	Remove nuisance and invasive vegetation, including weeds.	Six monthly or as required
	Mow grasses, prune shrubs and manage other plantings (if appropriate) as required – clippings should be removed and not allowed to accumulate.	Six monthly or as required
Remedial Actions	If erosion channels are evident, these should be stabilised with extra soil substrate similar to the original material, and sources of erosion damage should be identified and controlled.	As required
	If the drain inlet has settled, cracked or moved, investigate and repair it as appropriate.	As required

Appendix J

Thames Water S106 Consent to connect to public sewer

MALACHY WALSH AND PARTNERS
2 EXCHANGE TOWER
1-2 HARBOUR EXCHANGE SQUARE
LONDON
E14 9GE

DS reference DS6154871

developer.services@thameswater.co.uk

0800 009 3921
Monday to Friday, 8am to 5pm

thameswater.co.uk/developerservices

6 February 2026

Notice of consent to connect to a public sewer / public lateral drain

SITE ADDRESS: IT IS BOUNDED BY GLOUCESTER ROAD TO TANGMERE GARDENS, NORTHOLT, LONDON, N17 6NG (X,Y) 532944,190091.

Dear Mr Omonitan,

Thank you for your application for a new sewer connection at the above address.

We are pleased to inform you that we have given our conditional consent for your proposed connection(s) to the public sewer under Section 106 of the Water Industry Act 1991.

What is this consent for?

This consent is given solely for the legal right of communication (i.e. method/mode of connection) with the public sewer, in accordance with the description in the below box.

This consent does not and cannot be used to discharge any drainage related planning conditions. Any planning conditions related to drainage should be applied to be removed to the LPA and Thames Waters Development Control team. For pre planning capacity-based enquiries or pre planning concerns regarding our network please make a Pre-Planning Enquiry application. Applications can be made on the Thames Water website.

This Consent does not give you any inferred right to enter or cross land owned by a third party and must not be used to discharge any drainage-related planning conditions. You will be responsible for obtaining any necessary licences and/or permission from the highway authority, planning authority and/or private/third-party landowners.

Inspections and Completion certificates

We'll need to inspect the work if you're connecting directly to a public sewer or relocating/altering one of our manhole chambers. Please try to give us as much notice as possible to accommodate your preferred inspection date.

Call us on 0800 009 3921 Monday to Friday, 8am – 5pm to arrange an inspection.

Thames Water Utilities Limited – Registered Office: Clearwater Court, Vastern Road, Reading RG1 8DB
Company number 02366661. VAT registration no GB 537-4569-15

There are a few steps to remember:

- The work needs to be done exactly as described in the 'Consent to Connect' and as per our agreed specification
- You should be ready with all work completed to be inspected on date of inspection
- Make sure you leave the connection point open so we can fully inspect the work

If you fail to comply with any of the above at the time of inspection, e.g. the works are not complete, you are not ready, or the works do not meet the approved design specifications and fail to pass, we will charge you to come back another time. The revisit fee is £245 + VAT per visit.

Once you've passed the inspection, we'll issue a completion certificate. This confirms that your work has been completed and to the required standard.

This certificate authenticates the standards to which your connection works were carried out and does not infer adoption of your new drains or sewers. You will be responsible for repairs and maintenance of all drains including those outside your site boundary. You will need to submit an adoption application under section 102 or 104 of the Water Industry Act if you want us to adopt any of your lateral drains or sewers. You can do this via https://developers.thameswater.co.uk/Developing-a-large-site/Apply-and-pay-for-services/Wastewater-services/Adopting-sewers-and-other-assets

Sewer Connection Quotes

If you would like us to carry out the connection works on your behalf, we will provide you a quote and deliver in accordance with the below.

Waste connection only (no pipe laying)

We will discuss the requirements with you and quote for the works required and charge in accordance with section 7 (pages 25-28) of our current fixed price charging arrangements.

lateral drain and sewer requisitions

Waste connections including pipelaying for the provision of a lateral drain (pipe serving one property or one curtilage) and/or a new sewer (pipe serving more than one property).

If there is no public sewer easily accessible to your property or your site has no means to connect your lateral drain and/or sewer due to third party land, you can requisition (formally request) Thames Water to lay these pipes as part of our public network under Section 98-101 of the Water Industry Act 1991. Please refer to section 8 (pages 29-31) of our current charging arrangements.

You can estimate the costs for these connections yourself by referring to section 7 and 8 of our current charging arrangements here.

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Company number 02366661. VAT registration no GB 537-4569-15

Our consent is subject to the conditions below:

Location	**IT IS BOUNDED BY GLOUCESTER ROAD TO TANGMERE GARDENS, NORTHOLT, LONDON, N17 6NG (X,Y) 532944,190091.**
Description	**Direct Foul water Connection 1 (Inspection required see condition 5 for further details)** 1 x 150mm internal diameter direct foul water connection into an existing 305mm internal diameter foul water sewer located in Gloucester Road via a new manhole in accordance with Code for Adoption sewerage. **Direct Foul water Connection 2 (Inspection required see condition 5 for further details)** 1 x 150mm internal diameter direct foul water connection into an existing 305mm internal diameter foul water sewer located in Gloucester Road via an external backdrop into a new manhole in accordance with Code for Adoption sewerage. **Direct surface water Connection 1 (Inspection required see condition 5 for further details)** 1 x 300mm internal diameter direct surface water connection into an existing 300mm internal diameter surface water sewer located in Gloucester Road via existing manhole chamber referenced; TQ32908004 in accordance with Code for Adoption sewerage. **Direct surface water Connection 2 (Inspection required see condition 5 for further details)** 1 x 300mm & 150mm internal diameter direct surface water connections into an existing 300mm internal diameter surface water sewer located in Willan Road via existing manhole chamber referenced; TQ32909111 in accordance with Code for Adoption sewerage. **Direct Foul water Connection 3 (Inspection required see condition 5 for further details)** 1 x 150mm internal diameter direct foul water connection into an existing 150mm internal diameter foul water sewer located withing the development via a new manhole in accordance with Code for Adoption sewerage.

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	Please be advised to make sure you have surveyed the sewer(s) you are connecting to ensure it is in suitable condition for your proposed connection.

Please note that we will allow ONE amendment to be made to this consent within 12 months from date of issue. Any more than ONE amendment within this time period will entail additional fees. Any amendments sought beyond this time period will require a new application to be submitted.

The reference number for your application is **DS6154871;** please quote this in any future correspondence.

If you're making a connection from a basement, you'll need to ensure that you install the necessary backflow prevention devices to protect the property from internal flooding. You should assume that the local sewerage network will surcharge to local ground level. Please refer to condition 18 for more details.

If you're proposing to build within three metres of a public sewer, or within one metre of a lateral drain, you'll need to apply to us for a separate build over agreement. You can do this via thameswater.co.uk/buildover.

If you've any queries, please call our helpdesk on 0800 009 3921 (8am to 5pm, Monday to Friday) or email developer.services@thameswater.co.uk.

Yours Sincerely



Christopher Allen
Project Engineer
Developer Services – Sewer Connections Team

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Conditions of Consent

1. This consent is subject to conditions that may be imposed through the planning process.
2. An infrastructure charge will be payable as a result of connecting a property to the Public Sewerage System for the first time for domestic purposes by virtue of Section 146(2)b of the Water Industry Act 1991. We will invoice this charge separately if applicable.
3. Where the connection is to be made to a public sewer in third party land (i.e. outside your site boundary including public land), it is recommended that a demarcation chamber is constructed on the lateral drain at the property boundary, or as near to the property boundary as possible. The demarcation chamber and lateral drain will not be adopted as part of the section 106 agreement. You will need to submit an adoption agreement under section 102 or 104 of the Water Industry Act if you want us to adopt any of your private drains or sewers. You can do this via https://developers.thameswater.co.uk/Developing-a-large-site/Apply-and-pay-for-services/Wastewater-services/Adopting-sewers-and-other-assets
4. All materials used and standard of sewer connection works should be in accordance with Code for Adoption sewerage. Where the connection is to be constructed in plastic, please confirm the standards of materials to be used with a technical coordinator/project engineer prior to carrying out the connection. Please ensure that the specification sheet/documents for the plastic materials used are kept for review by the field engineer. Please refer to the attached Construction and Connection guide for best practice.
5. It is your responsibility to ensure that your works are inspected before the trench is backfilled. You must arrange our attendance by calling 0800 009 3921 and giving us at least ten working days' notice. If the connection cannot be inspected by a field engineer for any reason, we may request that the trench is reopened for inspection or require additional information deemed necessary for us to approve the connection. Where a connection is made via a heading/tunnelling or a field engineer cannot attend site within the agreed ten working days' notice period required, we may, in exceptional circumstances accept photographs and/or a CCTV survey report and footage subject to prior agreement with a Technical Coordinator or Project Engineer.
6. It is your responsibility to confirm the exact location, diameter, and invert levels of the public sewer prior to making the connection. You will be held liable for any misconnection (i.e. foul water discharge to a surface water sewer or surface water discharge to foul water sewer) resulting from this connection. Where you are making an indirect connection, you should carry out connectivity surveys to confirm the type of sewer your existing private drains connect to and take appropriate action to rectify if you find cross connections.
7. Connections into manholes must be made with soffits level and must enter 'with the flow'. Backdrops must be constructed outside the manhole chamber.
8. Junction connections must be made by cutting in a purpose made oblique or swept junction fitting of the same material as the public sewer, jointed using flexible couplings. Core drilled saddle connections are usually not permitted on sewers smaller than 375mm (unless otherwise approved by a Technical Coordinator/Project Engineer in writing).

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Where a core drilled saddle connection is approved, a flexible saddle fitting must be used to ensure that no part of the new drains protrude into the existing sewer. We do not accept clay saddles attached to the public sewer with mortar.

9. Some Infill/recessed manhole/chamber covers are permitted on adoptable drains/sewers in accordance with the attached construction and connection guide.
10. All connections to the public sewer should be via a gravity-fed pipe. A direct connection of a rising/pumped main to the public sewer is not permitted. Where there is a proposed connection from a pump station, a break chamber should be installed at the end of the pumped main to ensure that flows into the public sewer are via gravity for a minimum of 5m
11. It is your responsibility to ensure that your appointed private drainage contractor is competent and has all relevant permits necessary to carry out the connection. You will be responsible for obtaining any easements for crossing third party land and licences from the highway authority. All requirements of the highway authority must be observed and signing, guarding and lighting will be required at all times in accordance with Chapter 8 of the Department of Transport's Traffic Signs Manual 2009.
12. Where there is a proposed discharge from a private pumping station and rising main system, it is your responsibility to design the system to ensure acceptable discharge levels of hydrogen sulphide (H2S), this can be achieved by ensuring that all effluent is cycled through the pumping station and rising main within a maximum of six hours to prevent septicity. Where necessary, preventative measures to ensure H2S cannot build up to dangerous levels in the system should be installed. You will be responsible for the ongoing maintenance and monitoring of the private system. Hydrogen sulphide is a major public health risk and causes serious damage to the receiving sewerage network which may result in a third party damage claim against you under Section 111 of the Water Industry Act 1991.
13. Under no circumstances should foul water be discharged into the surface water sewerage system. Surface water drainage must not discharge to the foul sewerage system unless otherwise stated in the description above. If you want to discharge surface water directly to a soakaway or to a watercourse, then you will need to obtain the consent of the Environment Agency or the Lead Local Flood Authority.
14. All proposed discharge of surface water flows must be in accordance with the site's drainage strategy as approved by planning application, which should specify the final discharge rates and volumes. Sites proposing to discharge surface water flows with no planning requirement must connect into the nearest surface water sewer unless otherwise agreed by Thames Water.
15. Only the connections detailed in the enclosed notice are approved by Thames Water. No other works affecting the public sewerage system may be carried out without Thames Water's written consent.
16. Confined space entry procedures must be observed when breaking into the existing public sewerage system.

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17. Where the developer/owner/occupier proposes to discharge trade effluent into the public sewer, a trade effluent consent will be required. Trade effluent can be best described as anything other than domestic sewage (toilet, bath or sink waste) or uncontaminated surface water and roof drainage (rainwater). For enquiries and application forms contact your Retailer or visit the Thames Water website at https://wholesale.thameswater.co.uk/Wholesale-services/Business-customers/Trade-effluent

18. For low-lying sites (where the ground level of the site or the level of a basement is below the ground level at the point where the drainage connection connects to the public sewer) care should be taken to ensure that the property is not at increased risk of flooding. For more information on how to protect your property (s) from internal flooding please refer to Building Regs Part H1 (Surcharging of drains, conditions 2.8, 2.9.2.11 & 2.12)

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Hazard information
Third-party connection to sewers

Anyone wishing to connect their property to a Thames Water sewer must comply with the requirements of Section 106 of the Water Act 1991, as amended.

Significant Hazards

We strongly recommend that before carrying out work to connect to our sewers, you consider the following significant hazards:

- Oxygen deficiency
- Toxic gases, fumes or vapours
- Explosion (methane, petrol)
- Flooding
- Physical injury (slips, trips, falls)
- Infections from sewage (Weils disease)

Confined spaces

Particular care must be taken before entering or working in confined spaces. A confined space is defined as any place in which, by virtue of its enclosed nature, there arises a foreseeable specified risk. A specified risk is a risk of any of the following:

- Serious injury from a fire or explosion
- Loss of consciousness due to an increase in body temperature
- Loss of consciousness or asphyxiation arising from gases or the lack of oxygen
- Drowning arising from an increase in the level of a liquid

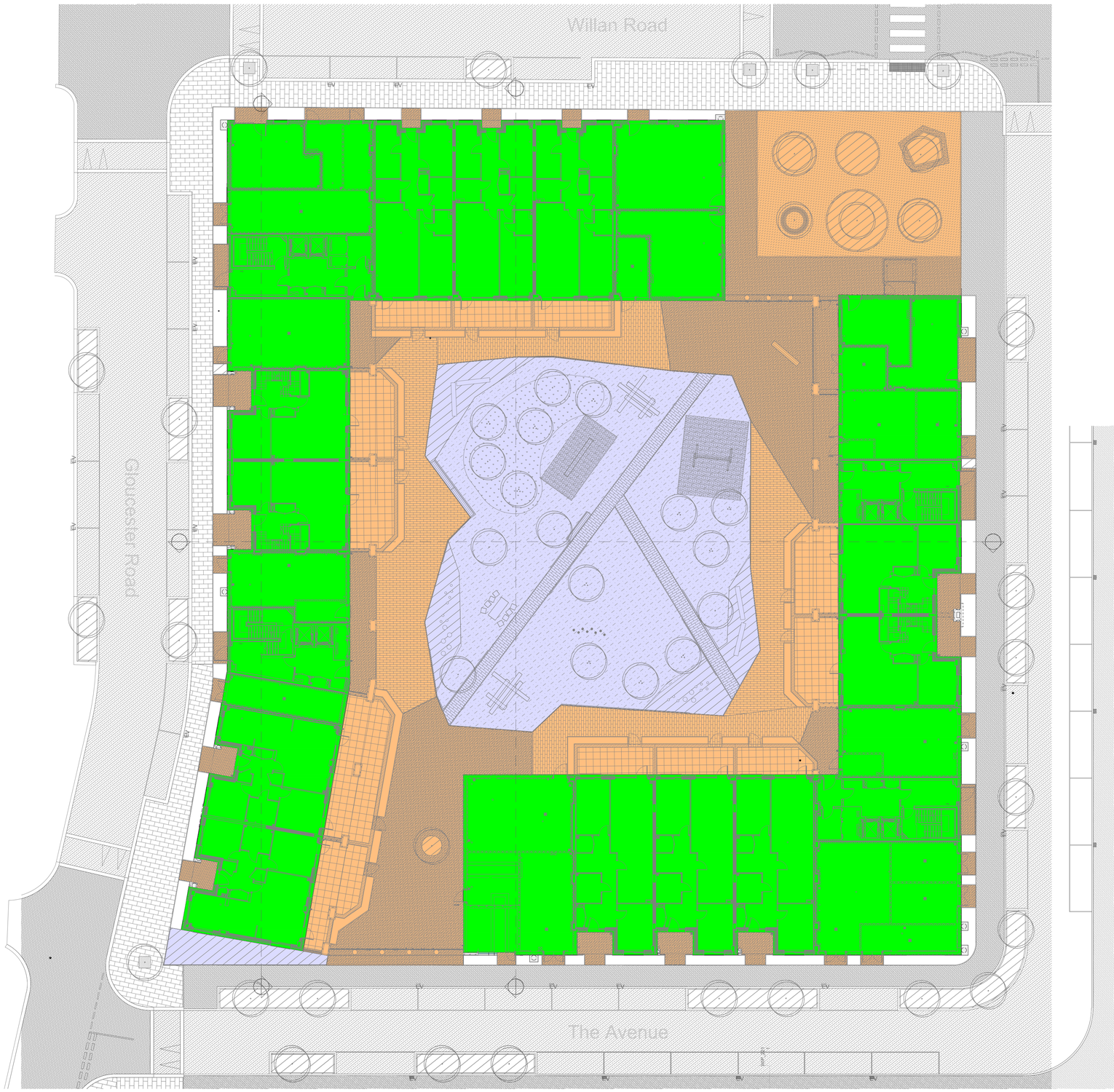
In addition:

- When detailing the private drainage, you should assume that the public sewer might occasionally surcharge up to ground level, and particular care is needed where development is proposed in low lying areas.
- Before entering any Thames Water asset a competent person must carry out an assessment to determine the need for entry and a safe system of work to be applied.
- Children and young persons must not enter the workspace.
- After the sewer connection work, it is important to wash before eating, smoking or treating cuts and abrasions. It is also important to avoid infection by maintaining strict personal hygiene and effective care of cuts and abrasions.

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Appendix K

Catchment Area Plan



Catchment Area Plan Block A and B

SCALE 1 : 200

North

DO NOT SCALE FROM THIS DRAWING. USE FIGURED DIMENSIONS IN ALL CASES. VERIFY DIMENSIONS ON SITE AND REPORT ANY DISCREPANCIES TO THE DESIGNERS IMMEDIATELY. THIS DRAWING TO BE READ IN CONJUNCTION WITH THE DESIGNERS SPECIFICATION.
© THIS DRAWING IS COPYRIGHT AND MAY ONLY BE REPRODUCED WITH THE DESIGNERS PERMISSION.

1. ALL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH ALL RELEVANT SPECIFICATIONS, BILLS OF QUANTITIES, ARCHITECTURAL, SERVICES AND ENGINEERING DRAWINGS.
2. ANY DISCREPENCIES BETWEEN THESE DOCUMENTS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER.
3. ALL DIMENSIONS ARE IN MILLIMETRES, UNLESS NOTED OTHERWISE. TBC ON SITE
4. ALL LEVELS ARE IN METRES RELATED TO ORDNANCE DATUM. TBC ON SITE
5. DRAWINGS ARE NOT TO BE SCALED.
6. ALL TEMPORARY WORKS TO CONTRACTORS DETAILS.
7. CONTRACTOR TO APPROVE ALL SET OUT INFORMATION PRIOR TO CONSTRUCTION.

LEGEND

- BOUNDARY LINE
- GREEN ROOF AREA 2104m2
- PERMEABLE SOFT LANDSCAPE AREA 1174m2 C02
- IMPERMEABLE HARDSTANDING AREA 1816m2 C02

REV	DATE	DESCRIPTION	BY	APP
C02	03.06.26	Issued for Construction	VH	RS
C01	10.04.26	Issued for Construction	VH	RS
P01	01.04.26	Issued for Information	VH	RS

PROJECT:
Tangmere

TITLE:
Catchment Area Plan Block A and B

CLIENT:
Formation D&B Ltd

MWP
ENGINEERING AND ENVIRONMENTAL CONSULTANTS
CORK | TRALEE | LONDON | LIMERICK
mwalsh.co.uk

DRAWN:	CHECKED:	APPROVED:
VH	DO	RS

PROJECT NUMBER:	DATE:	SCALE @ A1:
26015	01/04/26	As indicated

STATUS DESCRIPTION:	STATUS:
FOR CONSTRUCTION	A

DRAWING NUMBER:	REV:
TAN-MWP-XX-00-DR-CV-2305	C02